Safety Analysis Technical Report

Final Environmental Impact Statement

US-95 Thorncreek Road to Moscow Project No. DHP-NH-4110(156);Key No 09294



Blank Sample of Form Current Access Purchase Determination Idaho Transportation Department

- 1. Complete all blanks as indicated.
- 2. Refer to "Right-of-Way Memo: Access Control, Board Policy 4005, and IDAPA Rule 39.03.42" for further information.
- 3. Indicate the units under "Limits" as either Milepost (MP) or Station (Sta.)
- 4. Provide justification for the proposed limits of Access Purchase. Attach Traffic Impact Study as needed.
- 5. Attach an 8 1/2" x 11" Vicinity Map showing the limits of purchased access if the limits are not readily understood (e.g., an interchange or major intersection).
- 6. Complete the ITD 0606 and send a copy to Headquarters Right-of-Way in concurrence with the Right-of-Way plans.

| Key Number | Project Number | Loc | ation | | | | District |
|--------------|-------------------|--------------------------|-------------|-----|-----|--------|----------|
| Route Number | Highway Access Ty | rpe (see IDAPA 39.03.42) | Design Year | ADT | DHV | Desigr | Speed |

Access Purchased

| Limits | Justification for Purchase |
|--------|----------------------------|
| | |
| | |
| | |
| | |
| | |
| | |

Remarks

| Recommended By | | | |
|--|-----------------|------------|------|
| District Traffic Engineer | | | Date |
| District R/W Property Mgr | | | Date |
| District PDE | | | Date |
| Approved By | | | |
| District Engineer | | | Date |
| Distribution: Original - District Project File | Copies - HQ ROW | HQ Traffic | DCM |

Types of Access Spacing

Effective December 12, 2012, the Idaho Board approved <u>Board Policy 4005</u> - Management of Department-Owned Property, which incorporated the recently revised <u>IDAPA Rule 39.03.42</u> - Rules Governing Right-of-Way Encroachments on State Rights-of-Way.

Under the revised <u>IDAPA Rule 39.03.42</u>, all routes on the State Highway System are classified into one of six tiers; Interstate, Freeway, Expressway, Statewide, Regional, and District. Segments of highway are further classified according to whether they are rural, transitional, urban high-speed, or urban low-speed. A map of these classifications is attached to this memo and is available at: <u>September 2012 Access Map.</u>

Any existing access removed during a highway project shall be documented on the right-of-way documents and the "As Constructed" plans.

To maintain system capacity, safety and efficiency, maximize signal progression, and minimize delays to the traveling public, all approaches and signals shall be spaced in accordance with ITD standards. Variances to the spacing standards shall be handled as follows (from IDAPA 39.03.42):

The District Engineer shall have the authority to approve a decrease in the minimum access spacing distances set forth in Table 1, provided that the basis for any exception is justified and documented. The basis for the exception may include overriding economic opportunity considerations. For any exception that would result in a decrease in access spacing of more than ten percent (10%) of the distances set forth in Table 1, a Traffic Impact Study will be required in order to determine whether auxiliary lanes or other appropriate mitigation must be included in the permit's conditions. (10-1-12)T

A copy of this required documentation shall be available in the Project File.

| Idaho Administrative Code | IDAPA 39.03.42 - Rules Governing Highway Right-of-Way |
|---------------------------------|---|
| Idaho Transportation Department | Encroachments on State Rights-of-Way |

| Highway Type | Area Type | Signalized Road Spacing | Public Road Spacing (A) | Driveway Distance Upstream from Public Road Intersection (B) | Driveway Distance Downstream from Unsignalized Public Road Intersection (C) | Distance Between Unsignalized Accesses Other Than Public Roads (D) |
|-----------------|---------------|---|--------------------------------------|---|---|--|
| Interstate | All | Accessible only by interchanges (ramps) and requires approval by the Board and Federal Highway Administration | | | | |
| Freeway | All | Accessible only by interchanges (ramps) | | | | |
| Expressway | All | Accessible only at locations specified by the Department | | | | |
| | Rural | 5,280 ft. | 5,280 ft. | 1,000 ft. | 650 ft. | 650 ft. |
| Statewide Deute | Transitional | 5,280 ft. | 2,640 ft. | 760 ft. | 500 ft. | 500 ft. |
| Statewide Route | Urban >35 mph | 2,640 ft. | 1,320 ft. | 790 ft. | 500 ft. | 500 ft. |
| | Urban <35 mph | 2,640 ft. | 1,320 ft. | 790 ft. | 250 ft.** | 250 ft.** |
| | Rural | 5,280 ft. | 2,640 ft. | 1,000 ft. | 650 ft. | 650 ft. |
| Decienal Doute | Transitional | 2,640 ft. | 1,320 ft. | 690 ft. | 360 ft.** | 360 ft.** |
| Regional Route | Urban >35 mph | 2,640 ft. | 660 ft. | 660 ft. | 360 ft.** | 360 ft.** |
| | Urban <35 mph | 2,640 ft. | 660 ft. | 660 ft. | 250 ft.** | 250 ft.** |
| District Doute | Rural | 2,640 ft. | 1,320 ft. | 760 ft. | 500 ft. | 500 ft. |
| | Transitional | 2,640 ft. | 660 ft. | 660 ft. | 360 ft.** | 360 ft.** |
| District Route | Urban >35 mph | 1,320 ft. | 660 ft. | 660 ft. | 360 ft.** | 360 ft.** |
| | Urban <35 mph | 1,320 ft. | 660 ft. | 660 ft. | 250 ft.** | 250 ft.** |

 Table 1 – Access Spacing*

*Distances in table are minimums based on optimal operational and safety conditions such as adequate sight distance and level grade. Definitions of spacing designated by (A), (B), (C), and (D) are represented on Figure 1.

**Where the public road intersection or private access intersection is signalized, the distances in the table are for driveways restricted to right-in/right-out movements only. For unrestricted driveways the minimum distance shall be 500 feet from a signalized intersection.

REGULAR MEETING OF THE IDAHO TRANSPORTATION BOARD

January 16, 2014

The Idaho Transportation Board met at 7:30 AM, on Thursday, January 16, 2014, at the Idaho Transportation Department in Boise, Idaho. The following principals were present: Jerry Whitehead, Chairman Jim Coleman, Vice Chairman – District 1 Janice B. Vassar, Member – District 2 Julie DeLorenzo, Member – District 3 Jim Kempton, Member – District 4 Lee Gagner, Member – District 6 Brian W. Ness, Director Scott Stokes, Chief Deputy Larry Allen, Lead Deputy Attorney General Sue S. Higgins, Executive Assistant and Secretary to the Board

<u>Executive Session on Personnel and Legal Issues</u>. Member Vassar made a motion to meet in executive session at 7:30 AM to discuss personnel and legal issues as authorized in Idaho Code Section 67-2345(a), (c), and (f). Member DeLorenzo seconded the motion and it passed 5-0 by individual roll call vote.

Discussions were held on personnel and legal matters.

The Board came out of executive session at 10:45 AM.

<u>New Business</u>. Information Technology Administrator Shannon Barnes requested approval of two agreements with 3M Corporation. The License Agreement is for software to update components such as titles and registrations for the Division of Motor Vehicles' modernization project. The Service Agreement is for training and consulting related to the software.

Member Vassar made a motion, seconded by Vice Chairman Coleman, and passed unopposed to approve the following resolution:

RES. NO. WHEREAS, in December 2010 the Idaho Transportation Board selected 3M

ITB14-01 Corporation to modernize the Idaho Transportation Department Division of Motor Vehicles' (DMV) computer system; and

WHEREAS, the contract was signed and work commenced in May 2011; and

WHEREAS, after 18 months of support from 3M, ITD decided it could independently complete the project and implement the software provided by 3M; and

WHEREAS, the Division of Purchasing has reviewed a License Agreement for ITD to use the 3M software in its DMV modernization program and a Service

Agreement under which 3M would install the software and train ITD in its use; and

WHEREAS, the Division of Purchasing has delegated to ITD the authority to enter into the License Agreement and the Service Agreement.

NOW THEREFORE BE IT RESOLVED, that the Board approves the License Agreement presented to it; and

BE IT FURTHER RESOLVED, that the Board approves the Service Agreement presented to it.

<u>Board Minutes</u>. Member Gagner made a motion to approve the minutes of the regular Board meeting held on December 11, 2013 as submitted. Member Vassar seconded the motion and it passed unopposed.

<u>Board Meeting Dates</u>. The following meeting dates and locations were scheduled: February 19-20, 2014 – Boise March 19-20, 2014 – Boise April 15-16, 2014 – District 2 (tentative location)

<u>Consent Items</u>. Vice Chairman Coleman made a motion, seconded by Member Gagner, and passed unopposed, to approve the following resolution:

RES. NO. WHEREAS, consent calendar items are to be routine, non-controversial, self-ITB14-02 explanatory items that can be approved in one motion; and

WHEREAS, Idaho Transportation Board members have the prerogative to remove items from the consent calendar for questions or discussion.

NOW THEREFORE BE IT RESOLVED, that the Board approves the addition of the Railroad-ITD mitigation strategies to FY14 of the program, transit program changes requested by Valley Regional Transit and Community Planning Association of Idaho to FY14, and the designation of an expressway – US-95, Lewiston to Thorncreek Road and proposed Thorncreek Road to Moscow.

1) Addition of the Railroad-ITD Mitigation Strategies to FY14 of the Program. The Department received a \$25,000 Strategic Highway Research Program User Incentive grant from the Federal Highway Administration. The grant is for ITD and Idaho's major rail partners to work cooperatively to delineate responsibilities and identify policy and programmatic changes to expedite project delivery for construction projects involving highways at railroad crossings. The grant will be used to hire a consultant to assist with establishing best practices for partnering with the railroad companies. The goal is to create a standardized institutional agreement to increase collaboration, reduce project delays, and streamline resources. Staff requested the addition of the Railroad-ITD Mitigation Strategies project to FY14 for \$25,000 and to update the Idaho Transportation Investment Program (ITIP) accordingly.

2) Transit Program Changes Requested by Valley Regional Transit (VRT) and Community Planning Association of Southwest Idaho (COMPASS). On behalf of VRT, COMPASS requested increasing funding for vehicle lease or purchase for the fixed line and demand response services, support for equipment and maintenance, and demand response services in the Nampa Urbanized Area for FY13. For the Boise Urbanized Area, it requested increases for mobility management administration and implementation in FY13; and demand response services, transit planning efforts, and mobility management administration implementation in FY14. Additionally, reductions in funding are being requested in the Nampa Urbanized Area for preventative maintenance support for fixed route and demand response service in FY13 and for demand response services in FY14. The COMPASS Regional Transportation Improvement Program has been modified to reflect these changes, as shown as Exhibit #436, which is made a part hereof with like effect. Staff requested modifying the Transit Program and amending the FY13-17 Statewide Transportation Improvement Program.

3) Designate Expressway – US-95, Lewiston to Thorncreek Road and Proposed Thorncreek Road to Moscow. Per IDAPA 39.03.42, the Board has authority to designate a highway as an "expressway" for the purpose of access control. Staff requested the designation of US-95 milepost 312.675 to 323.360 (segment code 001540); US-95 milepost 323.360 to 330.407 and milepost 330.407 to 337.668 (segment code 001539) and the proposed US-95 Thorncreek to Moscow project, milepost 337.668 to 344.004 as expressways.

<u>Informational Items</u>. 1) Monthly Financial Statements. Net obligations through December totaled \$103.3 million. Of those obligations, \$100.4 million were for activities programmed for 2014; although the Program estimated those activities at \$102.7 million. December's obligations exceeded the three-year average of \$83.1 million for the same period.

Through November, federal aid to the State Highway Fund totaled \$167.3 million yearto-date, or about 23% more than the same time period last year. Revenue from the Highway Distribution Account was 2.3% below projections. Staff will monitor the revenue to determine if adjustments are required. It was noted, however, that December's revenue improved with yearto-date revenue short of projections by .9%. Miscellaneous revenue and transfers in from the elimination of the ethanol exemption was \$1 million over the estimate. Expenditures for personnel costs were 4.4% less than budgeted through November. This is due to a continued effort to evaluate the workforce. Total expenditures, including encumbrances, for operations reflected a 1.7% positive variance. Capital equipment had a 5.6% negative variance, which is a timing difference in allotments versus contracts issued.

Aviation fuel tax revenue through November was 21% over projections. Staff does not believe the trend will continue. Miscellaneous revenue to the State Aeronautics Fund was 21% higher than projected. Overall expenditures were less than budgeted.

2) Non-Construction Professional Service Contracts Issued by Business and Support Management (BSM). From November 23 to December 30, the BSM Section processed three new professional service agreements and renewed one. The total activity equaled \$147,240.

3) FY15 Program Update – Funding Level Assumptions and Highlights. For the FY15 ITIP Update, funding assumptions are \$276 million from federal sources annually from FY15 through FY19. The projected state levels are \$12.5 million for FY15; \$10.2 million for FY16; \$11 million for FY17; and \$6 million for FY18 and FY19 each year. The process and schedule to update the Program was also outlined.

4) Status of FY15 Appropriation Request. The Department's FY15 appropriation request has been adjusted based on the Governor's budget recommendation. The main revisions are the elimination of the 1% change in employee compensation, totaling almost \$1 million; a fee increase of \$25,300 for the Idaho Technology Authority; and an additional \$65,900 for contract construction.

5) Contract Awards. Keys #12305 and #12304 – US-95, Plummer Creek Bridge, Milepost 395 and Plummer Creek Bridge, Milepost 394, District 1. Low bidder: Cook and Sons Construction - \$1,039,386.

Keys #12299 and #12300 – US-95, Kootenai River Bridge, Bonners Ferry and Burlington Northern Santa Fe Railroad and Arizona Street Bridge, Bonners Ferry, District 1. Low bidder: Braun-Jensen, Inc. - \$2,112,000.

Key #12329 – US-12 and US-95, Memorial, Spalding and Big Canyon Creek Bridges, District 2. Low bidder: The Truesdell Corporation - \$214,214.

Keys #12342 and #12396 – I-84, FY14 District 3 Pavement Striping and FY14 District 4 Pavement Striping. Low bidder: Interstate Barricades - \$557,750.

Key #12344 – SH-52, Union Pacific Railroad Overpass Rehabilitation, Payette, District 3. Low bidder: Braun-Jensen, Inc. - \$1,286,000.

Key #12407 – US-30, Snake River Gridley Bridge, District 4. Low bidder: Braun-Jensen, Inc. \$1,388,000.

Key #13065 – FY15 District 4 Districtwide Sealcoat. Low bidder: Intermountain Slurry Seal, Inc. - \$3,028,000.

Key #12401 – SH-50, Intersection 3800 East Road, Twin Falls County, District 4. Low bidder: Staker & Parson Companies dba Idaho Sand & Gravel Company - \$194,987.

Key #12454 – SH-28 and SH-33, FY15 District 6 Guardrail Upgrades. Low bidder: D L Beck Inc. - \$483,022.

Key #11675 – US-20, Island Park Lodge to Montana State Line, District 6. Low bidder: H-K Contractors, Inc. - \$2,715,808.

Key #12467 – US-20, South Rexburg Interchange #332 to South Fork Teton River Bridge, District 6. Low bidder: H-K Contractors, Inc. - \$3,043,588.

6) Professional Services Agreements and Term Agreement Work Task Report. From November 25 through December 27, 19 new professional services agreements and work tasks were processed, totaling \$778,400. Two supplemental agreements to existing agreements were processed during this period in the amount of \$37,330.

7) Annual Report on Outdoor Advertising Sign Status. At the close of federal FY13, 5 illegal and 190 non-conforming signs remained throughout the state. Illegal signs do not comply with state and federal law and are to be removed. Non-conforming signs complied with law at one time, but due to a change in conditions or rules, lost their conforming status. Non-conforming signs are allowed to remain in place but cannot be improved.

8) Administrative and Legal Settlements of Right-of-Way Acquisitions. From July 1 through December 31, 2013, the Right-of-Way Section processed 45 parcels. There were ten administrative settlements and five legal settlements during this time frame.

Legislative Report. Government Affairs Manager (GAM) Mollie McCarty reported on various legislative meetings and presentations scheduled. Overall, the Department's rules are proceeding well through the germane committees. Staff is monitoring and analyzing some non-ITD bills. It is continuing to work with the sponsors on the proposed 24/7 Sobriety and Drug Monitoring Program Act. She also mentioned that Member Gagner's term expires on January 31; however, the Governor is re-appointing him to another six-year term.

Chairman Whitehead thanked GAM McCarty for the report.

<u>Director's Report</u>. Director Ness also summarized some of the legislative activities. The Transportation Coalition has scheduled a series of presentations to the germane committees. Staff will present information on the condition of the state's bridges and highway safety. He recognized employees for their outstanding customer service and mentioned other recognitions ITD received. Director Ness also said he is changing the format of his monthly report. The Executive Team members will report on activities and accomplishments in their respective area.

The Director's entire report can be viewed at <u>http://itd.idaho.gov/Board/report.htm</u>.

Some of the Chief Executive Officers' highlights follow. At the federal level, efforts are underway on the next surface transportation act, as Moving Ahead for Progress in the 21st Century expires this fall. The final GARVEE bond sale generated a lot of buyers, resulting in an interest rate of 3.86%. About \$320 million in construction projects are on the shelf, ready to bid. The US-95, Thorncreek to Moscow project is proceeding well. The Record of Decision is expected soon, which will be followed by a 30-day advertisement period in the Federal Register. The Human Resource initiatives focus on recruitment; talent management, such as career paths and succession planning; developing employees through efforts such as leadership development and coaching and mentoring; and monitoring success by tracking the turnover rate and employee engagement. The Division of Administration is working on establishing a better team culture, engaging employees, and collaborating with other divisions. It wants hassle-free results, reports that are easy to understand, and to hire and develop the right people for each position. Chief Operations Officer Jim Carpenter also announced some personnel changes. Pat Lightfield, Assistant District 2 Engineer, is retiring this month, after 43 years of service. The Headquarters offices are being restructured into two divisions. District 3 Engineer Dave Jones has been promoted to Division of Engineering and Products and Plans Administrator/Chief Engineer and District 6 Engineer Blake Rindlisbacher will be the new Division of Engineering Services Administrator.

Chairman Whitehead thanked Director Ness and the Executive Team for the reports. The Board congratulated District Engineers Jones and Rindlisbacher on their promotions.

Informal Luncheon with the Aeronautics Advisory Board (AAB). The two boards met informally during lunch.

<u>Aeronautics' Annual Report</u>. AAB Chairman Rodger Sorensen reported on global aviation issues, noting commercial airlines recorded a profit this past year and commercial airlines U.S. Airways and American merged. He also commented on the increased use of unmanned aerial systems, also known as drones. AAB Member Chip Kemper said the agriculture aviation industry is doing well; however, he believes there will be challenges in the future, mainly due to drone activity, which could potentially create hazards for aircraft. The aviation fire activity was fairly steady this past year in eastern Idaho.

AAB Member Dan Scott commended the Division of Aeronautics for its search and rescue program. AAB Member Mark Sweeney said aviation activity in the state increased last year. He expressed concern with the decreasing number of pilots. In 2013, there were 25% fewer pilots than in 2000. He believes a bigger emphasis is needed on aviation education and promoting aviation. In response to a question from Member Kempton, AAB Sweeney responded that he believes one of the key reasons for the decline in pilots is the cost to become a pilot.

Aeronautics Administrator (AA) Mike Pape provided a financial report. Revenue is currently over projections due to more flights, as the majority of revenue is from jet fuel. Expenses are less than budgeted, but are expected to be on track. A high priority is to reduce the carryover of Trustee and Benefits expenses. In other areas, the federal government shutdown due to a lack of appropriations bills was a concern last year. No aircraft could be registered during that period and traffic control towers were negatively impacted. He also reported on the use of the state aircraft. State employees saved 3,600 hours by flying instead of driving.

Staff provided reports on various programs and activities. In 2013, \$450,000 was provided as matching funds for 19 Federal Aviation Administration grants to general aviation airports for rehabilitation, planning, and new facility projects. For 2014, \$700,000 is estimated to be available. Work is underway to improve the grant management process, with goals of less annual carryover and faster grant payouts. The volunteer program continues to be a valuable asset, as 335 man hours provided assistance with activities at eight of the state-owned airports. Recreational usage at the state airports was up 10% over the last two years. Last year, there were 33 aviation accidents with 12 fatalities in Idaho compared to 39 accidents with 5 fatalities in 2012. Pilots making poor decisions appeared to be the most common factor in the incidents.

AA Pape also reported that the avionics in the King Air need to be replaced.

Vice Chairman Coleman made a motion, seconded by Member Vassar, and passed unopposed, to approve the following resolution:

RES. NO. WHEREAS, the Idaho Transportation Department's Aircraft Operation function ITB14-03 is a critical program utilized by a variety of state agencies to perform state business effectively across the state; and

WHEREAS, safety of aircraft operations is the highest priority of every flight; and

WHEREAS, the 35 year old avionics (flight instruments, navigation, auto pilot, and associated systems) in the King Air are obsolete and safety and reliability may become a factor in current operations.

NOW THEREFORE BE IT RESOLVED, that the Idaho Transportation Board authorizes the Director to make the necessary business decisions to fund the replacement of the avionics systems for the King Air at an estimated cost of \$300,000 from current budgets within the State Aeronautics Fund.

Chairman Whitehead thanked the AAB members and staff for the report.

<u>Delegation – Pacific Northwest Economic Region (PNWER)</u>. Idaho Lieutenant Governor Brad Little introduced the PNWER delegation and provided background on the coalition. Comprised of the public and private sector, it addresses various issues of the region, including energy and transportation.

Alana DeLong from Alberta, Canada said there is interest in utilizing the Port of Lewiston; however, a good, reliable corridor to Canada is needed. She stressed the importance of access to markets and moving products.

Bruce Agnew said PNWER would like Idaho to take the lead on harmonizing vehicle size and weight standards in the region and to streamline the permitting process. Another initiative it would like Idaho to help coordinate is Fast Forward Northwest. This public private partnership would improve international market access for exports by eliminating bottlenecks on rail corridors and improving road and port connections.

The Board expressed support for increased usage of the Port of Lewiston and standardizing the truck size and weight regulations. Chairman Whitehead thanked the delegation for its presentation.

<u>Public Transportation Advisory Council (PTAC) Board Policy</u>. PTAC Chair Kathleen Simko discussed proposed revisions to Board Policy 4039 Public Transportation Advisory Council, formerly B-28-04. PTAC supports inclusion of language stating that a philosophy of reducing reliance on federal funding should be pursued. During her tenure on PTAC, there have never been sufficient funds for Idaho's transit needs. No service can be funded solely through fares. PTAC members believe other funding sources need to be identified.

Member Vassar understands PTAC's position; however, she does not support including that language in the Board policy. There is no state funding source for public transportation.

Member Kempton asked if the desire is to reduce reliance on federal funds, would Idaho decline additional federal money? PTAC Chair Simko replied that she does not anticipate additional federal funds would be rejected; however, she believes it is important to seek other funding sources.

Member Vassar made a motion to delete the statement "A philosophy of reducing reliance on Federal funding should be appropriately pursued" from the draft policy. Member DeLorenzo seconded the motion and it passed unopposed.

Member Vassar made a motion to approve the revised Board Policy 4039 Public Transportation Advisory Council. Member Kempton seconded the motion and it passed unanimously.

<u>Policy Introduction</u>. Human Resources (HR) staff introduced board and corresponding administrative policy changes. The legal authority and a purpose statement were added to all of the documents.

Board Policy 4019 Equal Employment Opportunity and Fair Employment Practices combined former policies B-18-07 Code of Fair Employment Practices and B-18-09 Equal Employment Opportunity/Affirmative Action. The consensus of the Board was to hold this policy for further review and discussion.

No additional changes are proposed to Board Policy 4033 Workplace Violence, formerly B-23-03. Minor changes are recommended to the corresponding administrative policy 5033 to ensure compliance with Idaho Code.

Member Vassar made a motion to approve Board Policy 4033 Workplace Violence. Member DeLorenzo seconded the motion and it passed unopposed.

Member Kempton made a motion to recommend Director approval of 5033 Workplace Violence. Member Vassar seconded the motion and it passed unanimously.

Minor changes are proposed to Board Policy 4055 Harassment in the Workplace, formerly B-18-04. More substantive changes are proposed to the corresponding administrative policy. By unanimous consent, the Board held 4055 and 5055 for further review and discussion.

The proposed change to Board Policy 4056 Employee Safety and Risk Management Program, formerly B-23-01, is the removal of a reference to a rule. No changes are proposed to the corresponding administrative policy 5056.

Vice Chairman Coleman made a motion to approve Board Policy 4056 Employee Safety and Risk Management Program. Member Vassar seconded the motion and it passed unopposed.

Member Vassar made a motion to recommend Director approval of 5056 Employee Safety and Risk Management Program. Member Kempton seconded the motion and it passed unopposed.

Administrative Policy Review. HR staff summarized changes to three stand-alone Administrative Policies: 5520 Internship Program, formerly A-01-17; 5521 Standard and Flextime Work Schedules, formerly A-06-03; and 5523 Alcohol and Drug-Free Workplace, formerly A-18-12. It also recommended deleting Administrative Policies A-06-44 Workplace Accommodations and A-18-08 Return to Work because the polices are procedural-based and the information is included in manuals.

The Board had no objection to the proposed changes to the stand-alone administrative policies.

WHEREUPON, the Idaho Transportation Board's regular monthly meeting officially adjourned at 3 PM.

signed JERRY WHITEHEAD, Chairman Idaho Transportation Board

Read and Approved February 19, 2014 Boise, Idaho

Board Agenda Item



| Meeting Date . | Jan. 15 & | 16, 2014 |
|----------------|-----------|----------|
|----------------|-----------|----------|

Consent Item 🛛 Information Item 🗌

Amount of Presentation Time Needed

| Presenter's Name | Presenter's Title | Initials | Reviewed By |
|------------------|---------------------------------|----------|-------------|
| Dave Kuisti | District 2 Engineer | DBK | |
| Preparer's Name | Preparer's Title | Initials | |
| Dave Ellis | Trans. Staff Engineer Assistant | DLE | |

Subject

| Designate Express | way - Lewiston to T | horncreek Road & Proposed Thorncreek Road to Moscow project. |
|-------------------|---------------------|--|
| Key Number | District | Route Number |
| Various & 09294 | 2 | US-95 |

Background Information

Per IDAPA 39.03.42, the Idaho Transportation Board has the authority to designate a highway as an 'Expressway' for the purpose of access control.

The change in IDAPA 39.03.42 removes the former access control designation for these roadway segments; therefore, Board action is needed to maintain access control through the formal designation of 'Expressway'.

An 'Expressway' is a segment of highway for use as a through highway, with partially controlled access, accessible only at locations specified by the Idaho Transportation Department. These specific routes meet the definition in IDAPA 39.03.42.010.31, wherein 'Expressways' are characterized by medians, limited at-grade intersections and high speeds.

District 2 requests the Board designate these segments along with the proposed US-95 project, Thorncreek Road to Moscow as an 'Expressway' with intersections/approaches only at locations specified by the Idaho Transportation Department. Existing approaches will be granted for existing segments on US-95. For the proposed Thorncreek Road to Moscow project access will be granted at locations agreed upon during the design phase with individual property owners.

Recommendations

Designate US-95 MP 312.675 to MP 323.360 (Segment Code 001540), US-95 MP 323.360 to MP 330.407 & MP 330.407 to MP 337.668 (Segment Code 001539) and Proposed US-95 Thorncreek to Moscow project (MP 337.668 to MP 344.004), as Expressways.

Board Action

Approved

Deferred

Other

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REQUEST FOR 'EXPRESSWAY' DESIGNATION

Location: U.S. Highway 95, Lewiston N. City Limits to Top of the Lewiston Hill (Segment Code Change). Project Nos.: FF-RF-4114(23), FF-4114(28), DP-F-4114 (31) and TQF-4114(32). Segment Code: 001540 MP 312.675 to MP 323.360 Speed limit: 65 MPH

The right-of-way for these three projects was acquired and the highway was constructed in the 1970's on a new alignment using Partial Control Type E Access.

At-grade intersections include: NOTE: Bold are County Road Approaches.

M.P. 312.857 – Field Approach, Left; (M.P. 312.857 – Commercial Approach, Right; (M.P. 317.440 – Frontage Road/Scenic Overlook, Left; (M.P. 317.440 – Spur Road, Right; (M.P. 318.017 – Frontage Road, Left (Spiral); (M.P. 318.017 – Frontage Road, Right; (Access Rd) (M.P. 318.320 – Field Approach, Left; (M.P. 318.320 – Access Road, Right; (M.P. 319.613 – US 195 Spur, Left; (

(Lat. 46.43983992, Long. 116.98537290) (Lat. 46.43983992, Long. 116.98537290) (Lat. 46.46225242, Long. 117.00849087) (Lat. 46.46225242, Long. 117.00849087) (Lat. 46.46354709, Long. 117.01989378) (Lat. 46.46635591, Long. 117.02486358) (Lat. 46.46635591, Long. 117.02486358) (Lat. 46.48101623, Long. 117.03776165)



REQUEST FOR 'EXPRESSWAY' DESIGNATION

Location: U.S. Highway 95, Top of the Lewiston Hill to Genesee. Project Nos.: NH-4110 (133). Segment Code: 001539 MP 323.360 to MP 330.407 Speed limit: 65 MPH

The right-of-way for this project was acquired and the highway was constructed in 2005 & 2006 on a new alignment using Type IV Access Control where existing private approaches will be allowed to remain.

At-grade intersections for Project NH-4110 (133); Top of Lewiston Hill to Genesee include: NOTE: **Bold are County Road Approaches.**

| SOUTHBOUND STATIONS - LT. (METRIC) |
|--|
| 18+11.626 - Field Approach |
| 26+89.585 – Leon Road |
| 26+86.740 – Field Approach |
| 38+46.962 – Field Approach |
| 44+00.000 – Field Approach |
| 50+30.000 – Field Approach |
| 53+40.000 – Field Approach |
| 58+20.000 – Field Approach |
| 60+44.409 – Joint Use Field Approach |
| 66+78.753 – Field Approach |
| 75+51.857 – Field Approach |
| 77+08.675 - Joint Use Residential Approach |
| 78+68.685 – Field Approach |
| 81+07.852 – Field Approach |
| 86+52.291 – Field Approach |
| 96+04.238 – Field Approach |
| 97+40.716 – Residential Approach |
| 102+30.000 – Field Approach |
| 104+93.664 – Field Approach |
| 116+37.877 – Hillside Road |
| 112+43.005 – Field Approach |
| 121+30.000 – Field Approach |
| 121+88.492 – W. Cow Creek Road |
| 125+53.251 – Field Approach |
| 132+53.764 – Uniontown Road |
| 136+48.858 – Residential Approach |

| NORTHBOUND STATIONS - RT. (METRIC) |
|--|
| 1018+58.841-1020+27.135 - Turnout |
| 1020+41.173 – Field Approach |
| 1026+70.824 - Field Approach |
| 1029+67.979 – Residential Approach |
| 1035+70.866 - Field Approach |
| 1038+28.201 – S. Evans Road |
| 1043+86.691 - Field Approach |
| 1048+83.197 – Joint Use Residential Approach |
| 1058+14.566 - Field Approach |
| 1060+34.485 - Field Approach |
| 1066+61.805 - Field Approach |
| 1073+55.000 - Field Approach |
| 1075+26.290 - Field Approach |
| 1078+43.088 - Field Approach |
| 1080+85.961 - Field Approach |
| 1086+39.775 - Field Approach |
| 1096+13.895 - Field Approach |
| 1097+56.964 – N. Evans Road |
| 1105+10.229 – Residential Approach |
| 1112+58.189 - Field Approach |
| 1116+59.208 – Joint Use Field Approach |
| 1122+09.823 – E. Cow Creek Road |
| 1132+71.543 – Genesee-Juliaetta Road |



REQUEST FOR 'EXPRESSWAY' DESIGNATION

Location: U.S. Highway 95, Genesee to Thorncreek Road. Project Nos.: NH-4110 (140). Segment Code: 001539 MP 330.407 to MP 337.668 Speed limit: 65 MPH

The right-of-way for this project was acquired and the highway was constructed in 2005 & 2006 on a new alignment using Type IV Access Control where existing private approaches will be allowed to remain.

At-grade intersections for Project NH-4110 (140); Genesee to Thorncreek Road include: NOTE: **Bold are County Road Approaches.**

| SOUTHBOUND STATIONS - LT. (METRIC) |
|------------------------------------|
| 21+21.848 - Residential Approach |
| 26+67.325 – Field Approach |
| 33+09.875 – Residential Approach |
| 37+56.699 – Field Approach |
| 43+05.820 – Borgen Road |
| 51+06.000 – Residential Approach |
| 56+20.113 – Field Approach |
| 59+44.716 – Kluss Road |
| 64+55.000 – Residential Approach |
| 71+64.375 – Sather Road |
| 77+82.199 – Residential Approach |
| 80+01.510 - Field Approach |
| 88+80.000 - Residential Approach |
| 91+64.000 – Field Approach |
| 102+23.983 – Field Approach |
| 106+29.985 – Residential Approach |
| 114+16.790 – Residential Approach |
| 120+13.729 – Thorncreek Road |
| 124+77.985 – Field Approach |

| NORTHBOUND STATIONS - RT. (METRIC) |
|------------------------------------|
| 1021+21.863 - Field Approach |
| 1026+67.494 – Neyens Road |
| 1033+06.127 – Residential Approach |
| 1037+49.772 - Field Approach |
| 1042+99.047 - Residential Approach |
| 1047+38.159 – Residential Approach |
| 1051+08.254 - Field Approach |
| 1054+10.000 – Field Approach |
| 1056+21.635 - Field Approach |
| 1064+62.732 - Field Approach |
| 1071+75.376 – Sather Road |
| 1080+26.500 Hove Road |
| 1092+04.633 - Field Approach |
| 1102+54.494 - Field Approach |
| 1106+69.247 – Old 95 |
| 1114+53.866 – Martinson Road |
| 1120+36.434 - Field Approach |
| 1124+91.649 - Field Approach |
| |



REQUEST FOR 'EXPRESSWAY' DESIGNATION:

Location: U.S. Highway 95, Thorncreek Road to Moscow (Proposed Route). Project Nos.: DHP-NH-4110 (156). Segment Code: 001539 MP 337.668 to MP 344.004 Speed limit: 65 MPH

District 2 is currently in the final stages of completing the Environmental Impact Statement for Thorncreek to Moscow and is currently addressing comments generated from the Public Hearing and FHWA before the Final Environmental Impact Statement can be submitted for review. Many comments were related to access control and the FHWA has required ITD to better define how future access control will be limited so that highway safety will not be compromised in the future by new access points.

District 2 is proposing to use the "Expressway" designation to control access on the proposed highway. An 'Expressway' is a segment of highway for use as a through highway, with partially controlled access, accessible only at locations specified by the Idaho Transportation Department. These specific routes meet the definition in IDAPA 39.03.42.010.31, wherein 'Expressways' are characterized by medians, limited atgrade intersections and high speeds. Only existing private approaches will be allowed to remain. The exact approach locations are not yet known. The approach locations will be discussed and negotiated with the property owners during the right-of-way acquisition phase of the project.

ADDENDUM 1 US-95 THORNCREEK ROAD TO MOSCOW AASHTO HIGHWAY SAFETY MANUAL ANALYSIS ON ALTERNATIVES CARRIED FORWARD DHP-NH-4110 (156) KEY # 09294

December 31, 2014

| PREPARED BY | |
|--|--|
| DISTRICT 2 PROJECT DEVELOPMENT ENGINEER | |
| Curtis J. Arnzen, P.E. | |
| 01/01/15 Date | |



DHP-NH-4110 (156); Key No. 9294; Thorncreek to Moscow

December 31, 2014

Introduction

This Addendum was written to address safety for Alternative Modified W4. Alternative Modified W4 includes a slight alignment shift in Alternative W4 to avoid a cultural resource. Alternative Modified W4 is slightly shorter than Alternative W4; therefore, it is predicted to be slightly safer than Alternative W4. The conclusions and recommendations of the AASHTO Highway Safety Manual Analysis dated September 13, 2013 remain valid and calculations and conclusions regarding Alternative W4 in the AASHTO Highway Safety Manual Analysis.

Summary

The following results for Alternative Modified W4 are in Table 1 below:

| | Table 1: Predicte | ed Crashes For Propose | ed Alternative Modifie | d W4 |
|-------------|-------------------|-----------------------------|------------------------|-----------------------------|
| | Completio | on Year 2017 | Crashes From 2 | 017 Through 2036 |
| Alternative | Total Crashes | Fatal and Injury Crashes | Total Crashes | Fatal and Injury Crashes |
| Modified W4 | 9.2 | 4.6 | 218.0 | 107.0 |

The following results for Alternative Modified W4 are in Table 2 below:

| Table 2: Pro | edicted Crashes Fo | r Proposed Alternative | Modified W4 and Rer | naining US-95 Loop |
|--------------|--------------------|-----------------------------|---------------------|-----------------------------|
| | Completio | on Year 2017 | Crashes From 2 | 017 Through 2036 |
| Alternative | Total Crashes | Fatal and Injury Crashes | Total Crashes | Fatal and Injury Crashes |
| Modified W4 | 10.5 | 5.0 | 244.9 | 116.2 |

Economic Cost of Crashes

There were no differences in any of the economic cost of crashes between Alternatives W4 and Modified W4 due to rounding to significant figures. The following results for Alternative Modified W4 are in Table 3 below:

| Table 3 | 3: Total Economic | Cost of Crashes on the | Proposed Alternati | ve Modified W4 |
|-------------|-------------------|------------------------|--------------------|--------------------|
| | Complet | ion Year 2017 | From 201 | 7 Through 2036 |
| Alternative | Economic Cost | Difference From E2 | Economic Cost | Difference From E2 |
| Modified W4 | \$1,400,000 | \$300,000 | \$32,000,000 | \$6,000,000 |

DHP-NH-4110 (156); Key No. 9294; Thorncreek to Moscow

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| Table 4 | | Cost of Crashes on the he Remaining US-95 Lo | | |
|-------------|---------------|--|---------------|--------------------|
| | Completi | ion Year 2017 | From 201 | 7 Through 2036 |
| Alternative | Economic Cost | Difference From E2 | Economic Cost | Difference From E2 |
| Modified W4 | \$1,500,000 | \$200,000 | \$35,000,000 | \$5,500,000 |

The following results for Alternative Modified W4 are in Table 4 below:

Calculation Methodology for Action Alternatives

Predictive Calculations on Proposed Alignments

The calculations of crashes on the different highway sections and intersections are nearly the same for Alternatives W4 and Modified W4. The only calculations that change are the calculations for rural divided four-lane highway. The length of rural divided four lane highway for Alternative Modified W4 is 0.04 miles shorter than Alternative W4. The new calculation sheets and crash results for the rural divided four-lane highway for Alternative Modified W4 are in the Appendix of this Addendum.

Predictive Calculations on the Remaining US-95 Loop

The calculations on the remaining US-95 Loop are the same for Alternatives W4 and Modified W4.

Wild Animal Crashes

The wild animal crash potential is the same for Alternatives W4 and Modified W4.

Crashes Relating to Unfavorable Weather Conditions

The weather conditions are the same for Alternatives W4 and Modified W4.

Crash Prediction Results for Proposed Alternatives

Alternative Modified W4

Alternative Modified W4 is predicted to have slightly fewer crashes than Alternative W4 due to 0.04 mile shorter length.

The calculations of crashes on the different highway sections and intersections including the remaining US-95 Loop are nearly the same for Alternatives W4 and Modified W4. The only

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calculations that change are the calculations for rural divided four-lane highway. The length of rural divided four lane highway for Alternative Modified W4 is 0.04 miles shorter than Alternative W4. The new calculation sheets and crash results for rural divide four-lane highway for Alternative Modified W4 are in the Appendix of this Addendum. The remainder of the calculations including the calculations for the remaining US-95 Loop of Alternative Modified W4 did not change as a result of the alignment shift and are in Appendix E of the AASHTO Highway Safety Manual Analysis dated September 13, 2013 within the Alternative W4 calculations.

| Tab | ole 13: HSM Crash | Results for Alterna | ative Modified W4 | |
|------------------------------------|-------------------|-----------------------------|-------------------|-----------------------------|
| | Constructio | on Year 2017 | Crashes From 20 | 017 Through 2036 |
| | Total Crashes | Fatal and Injury Crashes | Total Crashes | Fatal and Injury Crashes |
| Rural Divided Multilane Segment | 6.9 | 3.8 | 161.8 | 87.3 |
| Suburban Segment | 1.1 | 0.3 | 26.2 | 7.9 |
| Eid Road Intersection | 0.3 | 0.1 | 8.2 | 3.5 |
| Jacksha Road Intersection | 0.3 | 0.1 | 7.7 | 3.3 |
| South Old US-95 Intersection | 0.2 | 0.1 | 5.2 | 1.7 |
| North Old US-95 Intersection | 0.4 | 0.1 | 8.8 | 3.4 |
| Total | 9.2 | 4.6* | 218.0* | 107.0* |

Table 13, shown below, summarizes the predicted crashes for Alternative Modified W4.

*Note: Differences between the total number and the sum of components are due to rounding. The actual numbers that have not been rounded can be found in Appendix E.

Table 14, shown below, summarizes the predicted crashes for Alternative Modified W4 and the remaining US-95 Loop.

| | r | on Year 2017 | W4 and Remaining | 05-95 Loop 017 Through 2036 |
|-------------------------|---------------|-----------------------------|------------------|--------------------------------|
| | Total Crashes | Fatal and Injury Crashes | Total Crashes | Fatal and Injury Crashes |
| Modified W4 Alternative | 9.2 | 4.6 | 218.0 | 107.0 |
| Remaining US-95 Loop | 1.3 | 0.4 | 26.9 | 9.2 |
| Total | 10.5 | 5.0 | 244.9 | 116.2 |

DHP-NH-4110 (156); Key No. 9294; Thorncreek to Moscow

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An estimate of the economic cost of all accidents on Alternative Modified W4 can be calculated using the HSM Crash Results shown above, the economic costs of the different crash types reported in Idaho Traffic Crashes 2012, the average frequency of the different injury and fatal accidents on Idaho's Highways, and the average multiple car crash frequency.

The estimated economic cost of crashes on Alternative Modified W4 between 2017 and 2036 is calculated to be about \$32,000,000 and the estimated economic cost of crashes on Alternative Modified W4 and the remaining US-95 Loop is calculated to be about \$35,000,000. These costs are identical to Alternative W4 due to rounding to significant figures.

Conclusion

The following results for Alternative Modified W4 are in Table 15 below:

| | Table 15: Predict | ed Crashes For Propos | sed Alternative Modifi | ed W4 |
|-------------|-------------------|-----------------------------|------------------------|-----------------------------|
| | Completio | on Year 2017 | Crashes From 2 | 017 Through 2036 |
| Alternative | Total Crashes | Fatal and Injury Crashes | Total Crashes | Fatal and Injury Crashes |
| Modified W4 | 9.2 | 4.6 | 218.0 | 107.0 |

The following results for Alternative Modified W4 are in Table 16 below:

| Table 16: Pr | edicted Crashes Fo | r Proposed Alternative | e Modified W4 and Re | maining US-95 Loop |
|--------------|--------------------|-----------------------------|----------------------|-----------------------------|
| | Completio | on Year 2017 | Crashes From 2 | 017 Through 2036 |
| Alternative | Total Crashes | Fatal and Injury Crashes | Total Crashes | Fatal and Injury Crashes |
| Modified W4 | 10.5 | 5.0 | 244.9 | 116.2 |

In conclusion, this Addendum documents from a safety perspective Alternatives W4 and Modified W4 are nearly the same and provides the required calculations.

ADDENDUM 1 US-95 THORNCREEK ROAD TO MOSCOW AASHTO HIGHWAY SAFETY MANUAL ANALYSIS ON ALTERNATIVES CARRIED FORWARD DHP-NH-4110 (156) KEY # 09294 December 31, 2014

APPENDIX E REVISIONS

| Modified W4 | | To the second second | | Modified W4 | | | Modified W4 | | |
|-------------|-------|---|---|-------------|-------|---|-------------|-------|--|
| 4.6 | 2017 | San Con | | 10.5 | 2017 | | 9.2 | 2017 | |
| 4.7 | 2018 | | | 10.7 | 2018 | | 9.4 | 2018 | |
| 4.7 | 2019 | | | 10.8 | 2019 | | 9.5 | 2019 | |
| 4.8 | 2020 | | To | 11.0 | 2020 | | 9.7 | 2020 | |
| 4.9 | 2021 | | tal Pred | 11.2 | 2021 | | 9.9 | 2021 | |
| 5.0 | 2022 | | licted Fa | 11.4 | 2022 | Propos | 10.0 | 2022 | |
| 5.0 | 2023 | Propo | atal and | 11.5 | 2023 | ed Modifie | 10.2 | 2023 | Prop |
| 5.1 | 2024 | Proposed Alignment Total Fatal and Injury Crash Summary by Year | Injury | 11.7 | 2024 | Proposed Modified W4 Alternative and Existing US-95 Loop Total Crash Summary by | 10.4 | 2024 | Proposed Modified W4 Alternative Total Crash Summary by Year |
| 5.2 | 2025 | ent Total Fa | Crashes | 11.9 | 2025 | native and | 10.6 | 2025 | ed W4 Alte |
| 5.3 | 2026 | ital and Inju | of Moc | 12.1 | 2026 | Existing US | 10.8 | 2026 | rnative Tot |
| 5.4 | 2027 | JITY Crash Si | dified W | 12.3 | 2027 | -95 Loop To | 10.9 | 2027 | al Crash Su |
| 5.5 | 2028 | immary by | 14 Alter | 12.5 | 2028 | otal Crash S | 11.1 | 2028 | mmary by |
| 5.5 | 2029 | Year | native E | 12.7 | 2029 | ummary by | 11.3 | 2029 | lear |
| 5.6 | 2030 | | 3etweer | 12.9 | 2030 | Year | 11.5 | 2030 | EVER NORM |
| 5.7 | 2031 | State of the | n 2017 a | 13.1 | 2031 | | 11.7 | 2031 | |
| 5.8 | 2032 | | Total Predicted Fatal and Injury Crashes of Modified W4 Alternative Between 2017 and 2036 | 13.3 | 2032 | | 11.9 | 2032 | |
| 5.9 | 2033 | | σ | 13.5 | 2033 | | 12.1 | 2033 | |
| 6.0 | 2034 | | | 13.7 | 2034 | | 12.3 | 2034 | |
| 6.1 | 2035 | | | 14.0 | 2035 | | 12.6 | 2035 | |
| 6.2 | 2036 | | | 14.2 | 2036 | | 12.8 | 2036 | |
| 107.0 | Total | | | 244.9 | Total | | 218.0 | Total | |

Total Predicted Crashes of Modified W4 Alternative Between 2017 and 2036

| | Modified W4 | |
|---------------------------|-------------|-------|
| | 4.6 | 1107 |
| | 4.7 | 0107 |
| | 4.7 | ETD7 |
| | 4.8 | 0707 |
| | 4.9 | 1707 |
| Propose | 5.0 | 7707 |
| d Alignmen | 5.0 | 2023 |
| t and Existi | 5.1 | 2024 |
| ng US-95 Lo | 5.2 | 5707 |
| oop Total Fa | 5.3 | 2079 |
| tal and Inlu | 5.4 | 1707 |
| Jrv Crash Si | 5.5 | 2028 |
| Immarv by | 5.5 | 5202 |
| by Year | 5.6 | 2030 |
| | 5.7 | 2031 |
| Charles and | 5.8 | 2032 |
| STREET, STREET, ST | 5.9 | 2033 |
| | 6.0 | 2034 |
| A COLORADO | 6.1 | 2035 |
| | 6.2 | 2036 |
| Constanting of the second | 107.0 | Total |
| | | |

Modified W4

2017 5.0

2018 5.1

2019 5.2

2020 5.3

2021 5.3

2022

2023 5.5

2024 5.6

2025

2026

2027 5.8

2028 5.9

2029 6.0

2030

2031 6.2

2032

2033 6.4

2034

2035

2036 6.7

Total 116.2

| 244.945 | 14.2 | 14.0 | 13.7 | 13.5 | 13.3 | 13.1 | 12.9 | 12.7 | 12.5 | 12.3 | 12.1 | 11.9 | 11.7 | 11.5 | 11.4 | 11.2 | 11.0 | 10.8 | 10.7 | 10.5 | Total (Crashes/year) |
|---------|-------|-------|-------|-----------|-------|-------|-------|-------|----------------|--|-------|-----------|----------------|----------------|-------|--------------|-------|-------|-------|-------|----------------------|
| 26.9 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | Total |
| 2.465 | 0.129 | 0.129 | 0.128 | 0.127 | 0.127 | 0.126 | 0.125 | 0.125 | 0.124 | 0.124 | 0.123 | 0.122 | 0.122 | 0.121 | 0.120 | 0.120 | 0.119 | 0.119 | 0.118 | 0.117 | North Clyde |
| 1.667 | 0.087 | 0.087 | 0.087 | 0.086 | 0.086 | 0.085 | 0.085 | 0.084 | 0.084 | 0.084 | 0.083 | 0.083 | 0.082 | 0.082 | 0.081 | 0.081 | 0.081 | 0.080 | 0.080 | 0.079 | Cameron |
| 0.478 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.023 | 0.023 | 0.023 | South Clyde |
| 0.170 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | Skyline |
| 0.340 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | Snow |
| 0.539 | 0.028 | 0.028 | 0.027 | 0.027 | 0.027 | 0.027 | 0.027 | 0.027 | 0.027 | 0.027 | 0.027 | 0.027 | 0.027 | 0.027 | 0.027 | 0.027 | 0.027 | 0.026 | 0.026 | 0.026 | Zeitler |
| Total | 2036 | 2035 | 2034 | 2033 | 2032 | 2031 | 2030 | 2029 | 2028 | 2027 | 2026 | 2025 | 2024 | 2023 | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | Intersection |
| 10.299 | 0.563 | 0.557 | 0.552 | 0.547 | 0.542 | 0.536 | 0.531 | 0.526 | 0.521 | 0.517 | 0.512 | 0.507 | 0.502 | 0.497 | 0.493 | 0.488 | 0.484 | 0.479 | 0.475 | 0.470 | 22 |
| 5.449 | 0.287 | 0.285 | 0.284 | 0.282 | 0.281 | 0.279 | 0.278 | 0.276 | 0.275 | 0.273 | 0.272 | 0.270 | 0.269 | 0.267 | 0.266 | 0.264 | 0.263 | 0.261 | 0.260 | 0.259 | 21 |
| 1.945 | 0.102 | 0.101 | 0.101 | 0.100 | 0.100 | 0.099 | 0.099 | 0.098 | 0.098 | 0.097 | 0.097 | 0.096 | 0.096 | 0.096 | 0.095 | 0.095 | 0.094 | 0.094 | 0.093 | 0.093 | 20 |
| 0.297 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 19 |
| 1.042 | 0.053 | 0.053 | 0.053 | 0.053 | 0.053 | 0.053 | 0.052 | 0.052 | 0.052 | 0.052 | 0.052 | 0.052 | 0.052 | 0.052 | 0.052 | 0.052 | 0.051 | 0.051 | 0.051 | 0.051 | 18 |
| 0.320 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 17 |
| 0.521 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 16 |
| 0.238 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 15 |
| 0.420 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 14 |
| 0.183 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 13 |
| 0.419 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 12 |
| 0.146 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 11 |
| Total | 2036 | 2035 | 2034 | 2033 | 2032 | 2031 | 2030 | 2029 | 2028 | 2027 | 2026 | 2025 | 2024 | 2023 | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | Segment |
| | | | | | | | | | and the second | | | A STATE | | | | State of the | | | | | Exisiting US-95 |
| 218.0 | 12.8 | 12.6 | 12.3 | 12.1 | 11.9 | 11.7 | 11.5 | 11.3 | 11.1 | 10.9 | 10.8 | 10.6 | 10.4 | 10.2 | 10.0 | 9.9 | 9.7 | 9.5 | 9.4 | 9.2 | Total |
| 8.810 | 0.521 | 0.511 | 0.502 | 0.493 | 0.484 | 0.475 | 0.466 | 0.458 | 0.450 | 0.442 | 0.434 | 0.426 | 0.419 | 0.411 | 0.404 | 0.397 | 0.390 | 0.383 | 0.376 | 0.370 | North Old US-95 |
| 5,170 | 0.310 | 0.304 | 0.298 | 0.292 | 0.287 | 0.281 | 0.275 | 0.270 | 0.265 | 0.259 | 0.254 | 0.249 | 0.244 | 0.240 | 0.235 | 0.230 | 0.226 | 0.221 | 0.217 | 0.213 | South Old US-95 |
| 7.740 | 0.464 | 0.455 | 0.446 | 0.438 | 0.429 | 0.420 | 0.412 | 0.404 | 0.396 | 0.388 | 0.381 | 0.373 | 0.366 | 0.359 | 0.352 | 0.345 | 0.338 | 0.331 | 0.325 | 0.318 | Jacksha |
| 8.235 | 0.494 | 0.484 | 0.475 | 0.465 | 0.456 | 0.447 | 0.439 | 0.430 | 0.421 | 0.413 | 0.405 | 0.397 | 0.389 | 0.382 | 0.374 | 0.367 | 0.359 | 0.352 | 0.345 | 0.339 | Eid |
| Total | 2036 | 2035 | 2034 | 2033 | 2032 | 2031 | 2030 | 2029 | 2028 | 2027 | 2026 | 2025 | 2024 | 2023 | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | Intersection |
| 26.243 | 1.522 | 1.497 | 1.473 | 1.450 | 1.427 | 1.404 | 1.382 | 1.360 | 1.338 | 1.317 | 1.296 | 1.275 | 1.255 | 1.235 | 1.216 | 1.196 | 1.178 | 1.159 | 1.141 | 1.123 | Suburban |
| 161.810 | 9.457 | 9.298 | 9.142 | 8.989 | 8.838 | 8.689 | 8.544 | 8.400 | 8.259 | 8.121 | 7.984 | 7.850 | 7.718 | 7.589 | 7.461 | 7.336 | 7.213 | 7.092 | 6.973 | 6.856 | Rural Divided |
| Total | 2036 | 2035 | 2034 | 2033 | 2032 | 2031 | 2030 | 2029 | 2028 | 2027 | 2026 | 2025 | 2024 | 2023 | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | Segment |
| | | | | The state | | | | | | | | Ser Lange | and the second | Contraction of | | | | | | | New Alignment |
| | | | | | | | | | ummary | wooifled w-4 Alternative Jotal Crash Summary | lotai | iternativ | 0 VV-4 A | MODITIE | | | | | | | |

Modified W-4 Alternative Total Crash Summary

Total Crashes between 2017 and 2036 244.9

| 116.198 | 6.7 | 6.6 | 6.5 | 6.4 | 6.3 | 6.2 | 6.1 | 6.0 | 5.9 | 5.8 | 5.7 | 5.7 | 5.6 | 5.5 | 5.4 | 5.3 | 5.3 | 5.2 | 5.1 | 5.0 | Total (Crashes/year) |
|---------|-------|-------|-------|-------|-------|-------|-------|---|---------|----------|--|----------|------------|-------------|----------|-------|-------|-------|-------|-------|----------------------|
| 9.179 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | Total |
| 1.023 | 0.054 | 0.053 | 0.053 | 0.053 | 0.053 | 0.052 | 0.052 | 0.052 | 0.052 | 0.051 | 0.051 | 0.051 | 0.050 | 0.050 | 0.050 | 0.050 | 0.049 | 0.049 | 0.049 | 0.049 | North Clyde |
| 0.692 | 0.036 | 0.036 | 0.036 | 0.036 | 0.036 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.034 | 0.034 | 0.034 | 0.034 | 0.034 | 0.034 | 0.033 | 0.033 | 0.033 | 0.033 | Cameron |
| 0.198 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | South Clyde |
| 0.070 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | Skyline |
| 0.141 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | Snow |
| 0.224 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | Zeitler |
| Total | 2036 | 2035 | 2034 | 2033 | 2032 | 2031 | 2030 | 2029 | 2028 | 2027 | 2026 | 2025 | 2024 | 2023 | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | Intersection |
| 3.306 | 0.181 | 0.179 | 0.177 | 0.176 | 0.174 | 0.172 | 0.171 | 0.169 | 0.167 | 0.166 | 0.164 | 0.163 | 0.161 | 0.160 | 0.158 | 0.157 | 0.155 | 0.154 | 0.152 | 0.151 | 22 |
| 1.749 | 0.092 | 0.092 | 0.091 | 0.091 | 0.090 | 0.090 | 0.089 | 0.089 | 0.088 | 0.088 | 0.087 | 0.087 | 0.086 | 0.086 | 0.085 | 0.085 | 0.084 | 0.084 | 0.083 | 0.083 | 21 |
| 0.624 | 0.033 | 0.033 | 0.032 | 0.032 | 0.032 | 0.032 | 0.032 | 0.032 | 0.031 | 0.031 | 0.031 | 0.031 | 0.031 | 0.031 | 0.031 | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | 20 |
| 0.095 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 19 |
| 0.335 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.016 | 0.016 | 0.016 | 18 |
| 0.103 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 17 |
| 0.167 | 0.009 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 16 |
| 0.076 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 15 |
| 0.135 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 14 |
| 0.059 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 13 |
| 0.134 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 12 |
| 0.047 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 11 |
| Total | 2036 | 2035 | 2034 | 2033 | 2032 | 2031 | 2030 | 2029 | 2028 | 2027 | 2026 | 2025 | 2024 | 2023 | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | Segment |
| | | | | | | | | | 1.800 | | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | | No. States | STAND STAND | | | | | | | Exisiting US-95 |
| 107.0 | 6.2 | 6.1 | 6.0 | 5.9 | 5.8 | 5.7 | 5.6 | 5.5 | 5.5 | 5.4 | 5.3 | 5.2 | 5.1 | 5.0 | 5.0 | 4.9 | 4.8 | 4.7 | 4.7 | 4.6 | Total |
| 3.351 | 0.196 | 0.193 | 0.189 | 0.186 | 0.183 | 0.180 | 0.177 | 0.174 | 0.171 | 0.168 | 0.165 | 0.162 | 0.160 | 0.157 | 0.154 | 0.152 | 0.149 | 0.147 | 0.145 | 0.142 | North Old US-95 |
| 1.663 | 0.098 | 0.097 | 0.095 | 0.093 | 0.091 | 0.090 | 0.088 | 0.087 | 0.085 | 0.083 | 0.082 | 0.080 | 0.079 | 0.078 | 0.076 | 0.075 | 0.073 | 0.072 | 0.071 | 0.069 | South Old US-95 |
| 3.292 | 0.195 | 0.191 | 0.188 | 0.184 | 0.181 | 0.178 | 0.175 | 0.171 | 0.168 | 0.165 | 0.162 | 0.159 | 0.156 | 0.153 | 0.151 | 0.148 | 0.145 | 0.143 | 0.140 | 0.137 | Jacksha |
| 3.536 | 0.209 | 0.206 | 0.202 | 0.198 | 0.194 | 0.191 | 0.187 | 0.184 | 0.181 | 0.177 | 0.174 | 0.171 | 0.168 | 0.165 | 0.162 | 0.159 | 0.156 | 0.153 | 0.150 | 0.148 | Eid |
| Total | 2036 | 2035 | 2034 | 2033 | 2032 | 2031 | 2030 | 2029 | 2028 | 2027 | 2026 | 2025 | 2024 | 2023 | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | Intersection |
| 7.886 | 0.454 | 0.447 | 0.440 | 0.433 | 0.427 | 0.420 | 0.414 | 0.408 | 0.402 | 0.396 | 0.390 | 0.384 | 0.378 | 0.373 | 0.367 | 0.362 | 0.356 | 0.351 | 0.346 | 0.341 | Suburban |
| 87.291 | 5.035 | 4.958 | 4.882 | 4.807 | 4.733 | 4.660 | 4.589 | 4.519 | 4.449 | 4.381 | 4.314 | 4.248 | 4.182 | 4.118 | 4.055 | 3.993 | 3.932 | 3.871 | 3.812 | 3.753 | Rural Divided |
| Total | 2036 | 2035 | 2034 | 2033 | 2032 | 2031 | 2030 | 2029 | 2028 | 2027 | 2026 | 2025 | 2024 | 2023 | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | Segment |
| | | | | | | | | | | | | | | | | | | | | | New Alignment |
| | | | | | | | | Modified W-4 Alternative Total Fatal and Injury Crash Summary | Crash S | d Injury | Fatal an | le Total | Iternativ | d W-4 A | VIODITIE | | | | | | |

Modified W-4 Alternative Total Fatal and Injury Crash Summary

Total Crashes between 2017 and 2036 116.2

| | Proposed Modified W4 Alternati | ve |
|-----------------|--------------------------------|--------------------------|
| Segment | Total Crashes | Fatal and Injury Crashes |
| Rural Divided | 6.856 | 3.753 |
| Suburban | 1.123 | 0.341 |
| Intersection | Total Crashes | Fatal and Injury Crashes |
| Eid Rd. | 0.339 | 0.148 |
| Jacksha Rd. | 0.318 | 0.137 |
| Old US-95 South | 0.213 | 0.069 |
| Old US-95 North | 0.370 | 0.142 |
| Subtotal | 9.218 | 4.591 |

Modified W-4 Alternative Safety Summary 2017

| Proposed Modified | W4 Alternative |
|----------------------|----------------|
| Total (Crashes/year) | 9.2 |
| Fatal and Injury | 4.6 |
| Property Damage Only | 4.6 |

| | Existing US-95 | |
|-----------------|----------------|--------------------------|
| Segment | Total Crashes | Fatal and Injury Crashes |
| 11 | 0.007 | 0.002 |
| 12 | 0.021 | 0.007 |
| 13 | 0.009 | 0.003 |
| 14 | 0.021 | 0.007 |
| 15 | 0.012 | 0.004 |
| 16 | 0.026 | 0.008 |
| 17 | 0.016 | 0.005 |
| 18 | 0.051 | 0.016 |
| 19 | 0.015 | 0.005 |
| 20 | 0.093 | 0.030 |
| 21 | 0.259 | 0.083 |
| 22 | 0.470 | 0.151 |
| Intersection | Total Crashes | Fatal and Injury Crashes |
| Zeitler Rd. | 0.026 | 0.011 |
| Snow Rd. | 0.017 | 0.007 |
| Skyview Dr. | 0.008 | 0.003 |
| Clyde Rd. South | 0.023 | 0.010 |
| Cameron Rd. | 0.079 | 0.033 |
| Clyde Rd. North | 0.117 | 0.049 |
| Subtotal | 1.269 | 0.433 |

| Existing US- | 95 Loop |
|----------------------|---------|
| Total (Crashes/year) | 1.3 |
| Fatal and Injury | 0.4 |
| Property Damage Only | 0.8 |

| Proposed Modified W4 Alternative | and Existing US-95 Loop |
|----------------------------------|-------------------------|
| Total (Crashes/year) | 10.5 |
| Fatal and Injury | 5.0 |
| Property Damage Only | 5.5 |

| | Worksheet 1A General Information and Input Da | ta for Rural Multilane Road | lway Segments | | |
|--|---|-------------------------------|--|--|--|
| General | Information | | Location Information | | |
| Analyst Agency or Company | CJA, KJB ITD District 2 | Roadway Roadway Section | US-95, Thorncreek to Moscow Modified W4 Rurat - Divided | | |
| Date Performed | 12/30/14 | Jurisdiction Analysis Year | Latah Co, ID 2017 | | |
| Inp | ut Data | Base Conditions | Site Conditions | | |
| Roadway type (divided / undivided) | | Undivided | Divided | | |
| Length of segment, L (mi) | | | 6.35 | | |
| AADT (veh/day) | AADT _{MAX} = 89,300 (veh/day) | | 5,920 | | |
| Lane width (ft) | | 12 | 12 | | |
| Shoulder width (ft) - right shoulder width for divided | [if differ for directions of travel, use average width] | 8 | 8 | | |
| Shoulder type - right shoulder type for divided | | Paved | Paved | | |
| Median width (ft) - for divided only | | 30 | 40 | | |
| Side Slopes - for undivided only | | 1:7 or flatter | Not Applicable | | |
| Lighting (present/not present) | | Not Present | Not Present | | |
| Auto speed enforcement (present/not present) | | Not Present | Not Present | | |
| Calibration Factor, Cr | | 1.00 | 1.00 | | |

| | Worksheet 1B (a) Crash | h Modification Factors for R | ural Multilane Divided Ro | badway Segments | |
|---------------------|------------------------------|------------------------------|---------------------------|--|---------------------|
| (1) | (2) | (3) | (4) | (5) | (6) |
| CMF for Lane Width | CMF for Right Shoulder Width | CMF for Median Width | CMF for Lighting | CMF for Automated Speed Enforcement | Combined CMF |
| CMF 1rd | CMF 2rd | CMF 3rd | CMF 4rd | CMF 5rd | CMF comb |
| from Equation 11-16 | from Table 11-17 | from Table 11-18 | from Equation 11-17 | from Section 11.7.2 | (1)*(2)*(3)*(4)*(5) |
| 1.00 | 1.00 | 0.99 | 1.00 | 1.00 | 0.99 |

| (1) | 1 | (2) | | (3) | (4) | (5) | (6) | (7) |
|--|--------|----------------|-------|--------------------|---------------------|--------------------|-------------|---|
| Crash Severity Level | SI | PF Coefficient | s | N spf rd | Overdispersion | Combined CMFs | Calibration | Predicted average crash |
| | fr | om Table 11-5 | 5 | | Parameter, k | (6) from Worksheet | Factor, Cr | frequency, N predicted raid) |
| | а | b | С | from Equation 11-9 | from Equation 11-10 | 1B (a) | | (3)*(5)*(6) |
| Total | -9.025 | 1.049 | 1.549 | 6.925 | 0.033 | 0.99 | 1.00 | 6.856 |
| Fatal and Injury (FI) | -8.837 | 0.958 | 1.687 | 3.791 | 0.029 | 0.99 | 1.00 | 3.753 |
| Fatal and Injury ^a (FI ^a) | -8.505 | 0.874 | 1.740 | 2.547 | 0.028 | 0.99 | 1.00 | 2.522 |
| Property Damage Only (PDO) | - | | | | | - | | (7) _{TOTAL} - (7) _{FI} 3.102 |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|--------------------------|---|-----------------------------------|--|--|---|---|--|---|
| Collision Type | Proportion of Collision Type(TOTAL) | | Proportion of Collision Type(FI) | N predicted rs(d) (Fi) (crashes/year) | Proportion of Collision Type (FI ^a) | N predicted rs (FI ^a) (crashes/year) | Proportion of Collision Type (PDO) | N predicted rs(d) (PDO) (crashes/year) |
| | from Table 11-6 | (7)TOTAL from Worksheet 1C (a) | from Table 11- 6 | (7)FI from Worksheet 1C (a) | from Table 11-6 | (7) _{FI} ^a from Worksheet 1C (a) | from Table 11-6 | (7)PDO from Worksheet 1C (a) |
| Total | 1.000 | 6.856 | 1.000 | 3.753 | 1.000 | 2.522 | 1.000 | 3.102 |
| | | (2)*(3) _{TOTAL} | | (4)x(5) _{F1} | | (6)*(7) _{F1} ^a | | (8)*(9) PDO |
| Head-on collision | 0.006 | 0.041 | 0.013 | 0.049 | 0.018 | 0.045 | 0.002 | 0.006 |
| Sideswipe collision | 0.043 | 0.295 | 0.027 | 0.101 | 0.022 | 0.055 | 0.053 | 0.164 |
| Rear-end collision | 0.116 | 0.795 | 0.163 | 0.612 | 0.114 | 0.288 | 0.088 | 0.273 |
| Angle collision | 0.043 | 0.295 | 0.048 | 0.180 | 0.045 | 0.113 | 0.041 | 0.127 |
| Single-vehicle collision | 0.768 | 5.265 | 0.727 | 2.729 | 0.778 | 1.962 | 0.792 | 2.457 |
| Other collision | 0.024 | 0.165 | 0.022 | 0.083 | 0.023 | 0.058 | 0.024 | 0.074 |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with sevenity level C (possible injury) are not included.

| | Worksheet 1E Summary Results for Rural Multila | ne Roadway Segments | |
|--|--|-----------------------------|------------------------------|
| (1) | (2) | (3) | (4) |
| Crash severity level | Predicted average crash frequency (crashes/year) | Roadway segment length (mi) | Crash rate (crashes/mi/year) |
| - | (7) from Worksheet 1C (a) or (b) | | (2)/(3) |
| Total | 6.856 | 6.4 | 1.1 |
| Fatal and Injury (FI) | 3.753 | 6.4 | 0.6 |
| Fatal and Injury ^a (FI ^a) | 2.522 | 6.4 | 0.4 |
| Property Damage Only (PDO) | 3.102 | 6.4 | 0.5 |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| | Proposed Modified W4 Alternat | ive |
|-----------------|-------------------------------|--------------------------|
| Segment | Total Crashes | Fatal and Injury Crashes |
| Rural Divided | 6.973 | 3.812 |
| Suburban | 1.141 | 0.346 |
| Intersection | Total Crashes | Fatal and Injury Crashes |
| Eid Rd. | 0.345 | 0.150 |
| Jacksha Rd. | 0.325 | 0.140 |
| Old US-95 South | 0.217 | 0.071 |
| Old US-95 North | 0.376 | 0.145 |
| Subtotal | 9.377 | 4.663 |

Modified W-4 Alternative Safety Summary 2018

| Proposed Modified W4 Alternative | | | | |
|----------------------------------|-----|--|--|--|
| Total (Crashes/year) | 9.4 | | | |
| Fatal and Injury | 4.7 | | | |
| Property Damage Only | 4.7 | | | |

| Existing US-95 | | | |
|-----------------|---------------|--------------------------|--|
| Segment | Total Crashes | Fatal and Injury Crashes | |
| 11 | 0.007 | 0.002 | |
| 12 | 0.021 | 0.007 | |
| 13 | 0.009 | 0.003 | |
| 14 | 0.021 | 0.007 | |
| 15 | 0.012 | 0.004 | |
| 16 | 0.026 | 0.008 | |
| 17 | 0.016 | 0.005 | |
| 18 | 0.051 | 0.016 | |
| 19 | 0.015 | 0.005 | |
| 20 | 0.093 | 0.030 | |
| 21 | 0.260 | 0.083 | |
| 22 | 0.475 | 0.152 | |
| Intersection | Total Crashes | Fatal and Injury Crashes | |
| Zeitler Rd. | 0.026 | 0.011 | |
| Snow Rd. | 0.017 | 0.007 | |
| Skyview Dr. | 0.008 | 0.003 | |
| Clyde Rd. South | 0.023 | 0.010 | |
| Cameron Rd. | 0.080 | 0.033 | |
| Clyde Rd. North | 0.118 | 0.049 | |
| Subtotal | 1.277 | 0.435 | |

| Existing US-95 Loop | | | | |
|----------------------|-----|--|--|--|
| Total (Crashes/year) | 1.3 | | | |
| Fatal and Injury | 0.4 | | | |
| Property Damage Only | 0.8 | | | |

| Proposed Modified W4 Alternative and Existing US-95 Loop | | | | |
|--|------|--|--|--|
| Total (Crashes/year) | 10.7 | | | |
| Fatal and Injury | 5.1 | | | |
| Property Damage Only | 5.6 | | | |

| | Worksheet 1A General Information and Input Da | ta for Rural Multilarie Road | | | |
|--|---|-------------------------------|--|--|--|
| Ge | eneral Information | Location Information | | | |
| Analyst Agency or Company | CJA, KJB ITD District 2 | Roadway Roadway Section | US-95, Thorncreek to Moscow Modified W4 Rural - Divided | | |
| Date Performed | 12/30/14 | Jurisdiction Analysis Year | Latah Co, ID 2018 | | |
| | Input Data | Base Conditions | Site Conditions | | |
| Roadway type (divided / undivided) | | Undivided | Divided | | |
| Length of segment, L (mi) | | - | 6.35 | | |
| AADT (veh/day) | AADT _{MAX} = 89,300 (veh/day) | - | 6,016 | | |
| Lane width (ft) | | 12 | 12 | | |
| Shoulder width (ft) - right shoulder width for | divided [if differ for directions of travel, use average width] | 8 | 8 | | |
| Shoulder type - right shoulder type for divide | d | Paved | Paved | | |
| Median width (ft) - for divided only | | 30 | 40 | | |
| Side Slopes - for undivided only | | 1:7 or flatter | Not Applicable | | |
| Lighting (present/not present) | | Not Present | Not Present | | |
| Auto speed enforcement (present/not prese | nt) | Not Present | Not Present | | |
| Calibration Factor, Cr | | 1.00 | 1.00 | | |

| Worksheet 1B (a) Crash Modification Factors for Rural Multilane Divided Roadway Segments | | | | | |
|--|------------------------------|----------------------|---------------------|--|--------------------|
| (1) | (2) | (3) | (4) | (5) | (6) |
| CMF for Lane Width | CMF for Right Shoulder Width | CMF for Median Width | CMF for Lighting | CMF for Automated Speed Enforcement | Combined CMF |
| CMF 1rd | CMF 2rd | CMF 3rd | CMF 4rd | CMF 5rd | CMF comb |
| from Equation 11-16 | from Table 11-17 | from Table 11-18 | from Equation 11-17 | from Section 11.7.2 | (1)*(2)*(3)*(4)*(5 |
| 1.00 | 1.00 | 0.99 | 1.00 | 1.00 | 0.99 |

| (1) | | (2) | | (3) | (4) | (5) | (6) | (7) |
|--|-----------------|----------------|----------|--------------------|---------------------|--------------------|-------------|---|
| Crash Severity Level | S | PF Coefficient | ts | N spf rd | Overdispersion | Combined CMFs | Calibration | Predicted average crash |
| | from Table 11-5 | | ole 11-5 | | Parameter, k | (6) from Worksheet | Factor, Cr | frequency, N predicted raid) |
| | а | b | С | from Equation 11-9 | from Equation 11-10 | 1B (a) | | (3)*(5)*(6) |
| Total | -9.025 | 1.049 | 1.549 | 7.043 | 0.033 | 0.99 | 1.00 | 6.973 |
| Fatal and Injury (FI) | -8.837 | 0.958 | 1.687 | 3.850 | 0.029 | 0.99 | 1.00 | 3.812 |
| Fatal and Injury ^a (Fl ^a) | -8.505 | 0.874 | 1.740 | 2.584 | 0.028 | 0.99 | 1.00 | 2.558 |
| Property Damage Only (PDO) | | | | - | | _ | | (7) _{TOTAL} - (7) _{FI} 3.161 |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| | Workshe | et 1D (a) Crashes by Seve | erity Level and | Collision Type for Ru | ral Multilane | Divided Roadway Segr | nents | |
|--------------------------|---|-----------------------------------|--|--------------------------------|---|---|--|---|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| Collision Type | Proportion of Collision Type(TOTAL) | (| Proportion of Collision Type(FI) | (crashes/year) | Proportion of Collision Type (Fl ^a) | N predicted rs (FI ^a) (crashes/year) | Proportion of Collision Type (PDO) | N predicted rs(d) (PDO) (crashes/year) |
| | from Table 11-6 | (7)TOTAL from Worksheet 1C (a) | from Table 11- 6 | (7)FI from Worksheet 1C (a) | from Table 11-6 | (7) _{FI} ^a from Worksheet 1C (a) | from Table 11-6 | (7)PDO from Worksheet 1C (a) |
| Total | 1.000 | 6.973 | 1.000 | 3.812 | 1.000 | 2.558 | 1.000 | 3.161 |
| | | (2)*(3) _{TOTAL} | | (4)x(5) _{F1} | | (6)*(7) _{F1} ^a | | (8)*(9) PDO |
| Head-on collision | 0.006 | 0.042 | 0.013 | 0.050 | 0.018 | 0.046 | 0.002 | 0.006 |
| Sideswipe collision | 0.043 | 0.300 | 0.027 | 0.103 | 0.022 | 0.056 | 0.053 | 0.168 |
| Rear-end collision | 0.116 | 0.809 | 0.163 | 0.621 | 0.114 | 0.292 | 0.088 | 0.278 |
| Angle collision | 0.043 | 0.300 | 0.048 | 0.183 | 0.045 | 0.115 | 0.041 | 0.130 |
| Single-vehicle collision | 0.768 | 5.355 | 0.727 | 2.771 | 0.778 | 1.990 | 0.792 | 2.504 |
| Other collision | 0.024 | 0.167 | 0.022 | 0.084 | 0.023 | 0.059 | 0.024 | 0.076 |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| | Worksheet 1E Summary Results for Rural Multila | ne Roadway Segments | | |
|--|--|-----------------------------|------------------------------|--|
| (1) | (2) | (3) | (4) | |
| Crash severity level | Predicted average crash frequency (crashes/year) | Roadway segment length (mi) | Crash rate (crashes/mi/year) | |
| | (7) from Worksheet 1C (a) or (b) | 7 · · · · · · F | (2)/(3) | |
| Total | 6.973 | 6.4 | 1.1 | |
| Fatal and Injury (FI) | 3.812 | 6.4 | 0.6 | |
| Fatal and Injury ^a (FI ^a) | 2.558 | 6.4 | 0.4 | |
| Property Damage Only (PDO) | 3.161 | 6.4 | 0.5 | |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| Proposed Modified W4 Alternative | | | | |
|----------------------------------|---------------|--------------------------|--|--|
| Segment | Total Crashes | Fatal and Injury Crashes | | |
| Rural Divided | 7.092 | 3.871 | | |
| Suburban | 1.159 | 0.351 | | |
| Intersection | Total Crashes | Fatal and Injury Crashes | | |
| Eid Rd. | 0.352 | 0.153 | | |
| Jacksha Rd. | 0.331 | 0.143 | | |
| Old US-95 South | 0.221 | 0.072 | | |
| Old US-95 North | 0.383 | 0.147 | | |
| Subtotal | 9.539 | 4.737 | | |

Modified W-4 Alternative Safety Summary 2019

| Proposed Modified W4 Alternative | | | | |
|----------------------------------|-----|--|--|--|
| Total (Crashes/year) | 9.5 | | | |
| Fatal and Injury | 4.7 | | | |
| Property Damage Only | 4.8 | | | |

| Existing US-95 | | | |
|-----------------|---------------|--------------------------|--|
| Segment | Total Crashes | Fatal and Injury Crashes | |
| 11 | 0.007 | 0.002 | |
| 12 | 0.021 | 0.007 | |
| 13 | 0.009 | 0.003 | |
| 14 | 0.021 | 0.007 | |
| 15 | 0.012 | 0.004 | |
| 16 | 0.026 | 0.008 | |
| 17 | 0.016 | 0.005 | |
| 18 | 0.051 | 0.016 | |
| 19 | 0.015 | 0.005 | |
| 20 | 0.094 | 0.030 | |
| 21 | 0.261 | 0.084 | |
| 22 | 0.479 | 0.154 | |
| Intersection | Total Crashes | Fatal and Injury Crashes | |
| Zeitler Rd. | 0.026 | 0.011 | |
| Snow Rd. | 0.017 | 0.007 | |
| Skyview Dr. | 0.008 | 0.003 | |
| Clyde Rd. South | 0.023 | 0.010 | |
| Cameron Rd. | 0.080 | 0.033 | |
| Clyde Rd. North | 0.119 | 0.049 | |
| Subtotal | 1.285 | 0.438 | |

| Existing US-95 Loop | | | |
|----------------------|-----|--|--|
| Total (Crashes/year) | 1.3 | | |
| Fatal and Injury | 0.4 | | |
| Property Damage Only | 0.8 | | |

| Proposed Modified W4 Alternative and Existing US-95 Loop | | | |
|--|------|--|--|
| Total (Crashes/year) | 10.8 | | |
| Fatal and Injury | 5.2 | | |
| Property Damage Only | 5.6 | | |

| G | eneral Information | Location Information | | | |
|--|---|--------------------------------|----------------------|--|--|
| Analyst Agency or Company | CJA, KJB ITD District 2 | ITD District 2 Roadway Section | | | |
| Date Performed | 12/30/14 | Jurisdiction Analysis Year | Latah Co, ID 2019 | | |
| | Input Data | Base Conditions | Site Conditions | | |
| Roadway type (divided / undivided) | | Undivided | Divided | | |
| Length of segment, L (mi) | | | 6.35 | | |
| AADT (veh/day) | AADT _{MAX} = 89,300 (veh/day) | | 6,114 | | |
| Lane width (ft) | | 12 | 12 | | |
| Shoulder width (ft) - right shoulder width for | divided [if differ for directions of travel, use average width] | 8 | 8 | | |
| Shoulder type - right shoulder type for divid | ed | Paved | Paved | | |
| Median width (ft) - for divided only | | 30 | 40 | | |
| Side Slopes - for undivided only | | 1:7 or flatter | Not Applicable | | |
| Lighting (present/not present) | | Not Present | Not Present | | |
| Auto speed enforcement (present/not pres | ent) | Not Present | Not Present | | |
| Calibration Factor, Cr | | 1.00 | 1.00 | | |

| Worksheet 1B (a) Crash Modification Factors for Rural Multilane Divided Roadway Segments | | | | | |
|--|------------------------------|----------------------|---------------------|--|--------------------|
| (1) | (2) | (3) | (4) | (5) | (6) |
| CMF for Lane Width | CMF for Right Shoulder Width | CMF for Median Width | CMF for Lighting | CMF for Automated Speed Enforcement | Combined CMF |
| CMF 1rd | CMF 2rd | CMF 3rd | CMF 4rd | CMF 5rd | CMF comb |
| from Equation 11-16 | from Table 11-17 | from Table 11-18 | from Equation 11-17 | from Section 11.7.2 | (1)*(2)*(3)*(4)*(5 |
| 1.00 | 1.00 | 0.99 | 1.00 | 1.00 | 0.99 |

| (1) | | (2) | | (3) | (4) | (5) | (6) | (7) | |
|--|-------------------------------------|-------|--------------|--------------------|---------------------|----------------|------------------------------|--|-------------------------|
| Crash Severity Level | SPF Coefficients from Table 11-5 | | | | N spf rd | Overdispersion | Combined CMFs | Calibration | Predicted average crash |
| | | | Parameter, k | | (6) from Worksheet | Factor, Cr | frequency, N predicted ra(d) | | |
| | а | b | С | from Equation 11-9 | from Equation 11-10 | 1B (a) | | (3)*(5)*(6) | |
| Total | -9.025 | 1.049 | 1.549 | 7.164 | 0.033 | 0.99 | 1.00 | 7.092 | |
| Fatal and Injury (FI) | -8.837 | 0.958 | 1.687 | 3.910 | 0.029 | 0.99 | 1.00 | 3.871 | |
| Fatal and Injury ^a (FI ^a) | -8.505 | 0.874 | 1.740 | 2.620 | 0.028 | 0.99 | 1.00 | 2.594 | |
| Property Damage Only (PDO) | | | | _ | - | | | (7) _{TOTAL} - (7) _{FI} | |
| | - | | | | | | | 3.221 | |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|--------------------------|---|---|--|--|----------------------------|---|--|---|
| Collision Type | Proportion of Collision Type(TOTAL) | N prodicted rs(d) (TOTAL) (crashes/year) | Proportion of Collision Type(FI) | N predicted rs(d) (FI) (crashes/year) | Proportion of Collision | N predicted rs (FI ^a) (crashes/year) | Proportion of Collision Type (PDO) | N predicted rs(d) (PDO) (crashes/year) |
| | from Table 11-6 | (7)TOTAL from Worksheet 1C (a) | from Table 11- 6 | (7)FI from Worksheet 1C (a) | from Table 11-6 | (7) _{Fl} ^a from Worksheet 1C (a) | from Table 11-6 | (7)PDO from Worksheet 1C (a) |
| Total | 1.000 | 7.092 | 1.000 | 3.871 | 1.000 | 2.594 | 1.000 | 3.221 |
| | | (2)*(3) _{TOTAL} | | (4)x(5) _{F1} | | (6)*(7) _{F1} ^a | | (8)*(9) PDO |
| Head-on collision | 0.006 | 0.043 | 0.013 | 0.050 | 0.018 | 0.047 | 0.002 | 0.006 |
| Sideswipe collision | 0.043 | 0.305 | 0.027 | 0.105 | 0.022 | 0.057 | 0.053 | 0.171 |
| Rear-end collision | 0.116 | 0.823 | 0.163 | 0.631 | 0.114 | 0.296 | 0.088 | 0.283 |
| Angle collision | 0.043 | 0.305 | 0.048 | 0.186 | 0.045 | 0.117 | 0.041 | 0.132 |
| Single-vehicle collision | 0.768 | 5.447 | 0.727 | 2.814 | 0.778 | 2.018 | 0.792 | 2.551 |
| Other collision | 0.024 | 0.170 | 0.022 | 0.085 | 0.023 | 0.060 | 0.024 | 0.077 |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| Worksheet 1E – Summary Results for Rural Multilane Roadway Segments | | | | |
|---|--|-----------------------------|---|--|
| (1) | (2) | (3) | (4) | |
| Crash severity level | Predicted average crash frequency (crashes/year) | Roadway segment length (mi) | Crash rate (crashes/mi/year) (2)/(3) | |
| | (7) from Worksheet 1C (a) or (b) | | | |
| otal | 7.092 | 6.4 | 1.1 | |
| atal and Injury (FI) | 3.871 | 6.4 | 0.6 | |
| Fatal and Injury ^a (FI ^a) | 2.594 | 6.4 | 0.4 | |
| Property Damage Only (PDO) | 3.221 | 6.4 | 0.5 | |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| Proposed Modified W4 Alternative | | | |
|----------------------------------|---------------|--------------------------|--|
| Segment | Total Crashes | Fatal and Injury Crashes | |
| Rural Divided | 7.213 | 3.932 | |
| Suburban | 1.178 | 0.356 | |
| Intersection | Total Crashes | Fatal and Injury Crashes | |
| Eid Rd. | 0.359 | 0.156 | |
| Jacksha Rd. | 0.338 | 0.145 | |
| Old US-95 South | 0.226 | 0.073 | |
| Old US-95 North | 0.390 | 0.149 | |
| Subtotal | 9.703 | 4.812 | |

Modified W-4 Alternative Safety Summary 2020

| Proposed Modified W4 Alternative | | | |
|----------------------------------|-----|--|--|
| Total (Crashes/year) | 9.7 | | |
| Fatal and Injury | 4.8 | | |
| Property Damage Only | 4.9 | | |

| Existing US-95 | | | | |
|-----------------|---------------|--------------------------|--|--|
| Segment | Total Crashes | Fatal and Injury Crashes | | |
| 11 | 0.007 | 0.002 | | |
| 12 | 0.021 | 0.007 | | |
| 13 | 0.009 | 0.003 | | |
| 14 | 0.021 | 0.007 | | |
| 15 | 0.012 | 0.004 | | |
| 16 | 0.026 | 0.008 | | |
| 17 | 0.016 | 0.005 | | |
| 18 | 0.051 | 0.017 | | |
| 19 | 0.015 | 0.005 | | |
| 20 | 0.094 | 0.030 | | |
| 21 | 0.263 | 0.084 | | |
| 22 | 0.484 | 0.155 | | |
| Intersection | Total Crashes | Fatal and Injury Crashes | | |
| Zeitler Rd. | 0.027 | 0.011 | | |
| Snow Rd. | 0.017 | 0.007 | | |
| Skyview Dr. | 0.008 | 0.003 | | |
| Clyde Rd. South | 0.024 | 0.010 | | |
| Cameron Rd. | 0.081 | 0.033 | | |
| Clyde Rd. North | 0.119 | 0.049 | | |
| Subtotal | 1.293 | 0.441 | | |

| Existing US-95 Loop | | | |
|----------------------|-----|--|--|
| Total (Crashes/year) | 1.3 | | |
| Fatal and Injury | 0.4 | | |
| Property Damage Only | 0.9 | | |

| Proposed Modified W4 Alternative and Existing US-95 Loop | | | |
|--|------|--|--|
| Total (Crashes/year) | 11.0 | | |
| Fatal and Injury | 5.3 | | |
| Property Damage Only | 5.7 | | |

| | Seneral Information | Location Information | | | |
|--|---|-------------------------------|--|--|--|
| Analyst Agency or Company | CJA, KJB ITD District 2 | Roadway Roadway Section | US-95, Thorncreek to Moscow Modified W4 Rural - Divided | | |
| Date Performed | 12/30/14 | Jurisdiction Analysis Year | Latah Co, ID 2020 | | |
| | Input Data | Base Conditions | Site Conditions | | |
| Roadway type (divided / undivided) | | Undivided | Divided | | |
| Length of segment, L (mi) | | | 6.35 | | |
| AADT (veh/day) | AADT _{MAX} = 89,300 (veh/day) | - | 6,214 | | |
| Lane width (ft) | | 12 | 12 | | |
| Shoulder width (ft) - right shoulder width for | r divided [if differ for directions of travel, use average width] | 8 | 8 | | |
| Shoulder type - right shoulder type for divi | ded | Paved | Paved | | |
| Median width (ft) - for divided only | | 30 | 40 | | |
| Side Slopes - for undivided only | | 1:7 or flatter | Not Applicable | | |
| Lighting (present/not present) | | Not Present | Not Present | | |
| Auto speed enforcement (present/not pres | ent) | Not Present | Not Present | | |
| Calibration Factor, Cr | | 1.00 | 1.00 | | |

| Worksheet 1B (a) Crash Modification Factors for Rural Multilane Divided Roadway Segments | | | | | | |
|--|------------------------------|----------------------|---------------------|--|---------------------|--|
| (1) | (2) | (5) | (6) | | | |
| CMF for Lane Width | CMF for Right Shoulder Width | CMF for Median Width | CMF for Lighting | CMF for Automated Speed Enforcement | Combined CMF | |
| CMF 1rd | CMF 2rd | CMF 3rd | CMF 4rd | CMF 5rd | CMF comb | |
| from Equation 11-16 | from Table 11-17 | from Table 11-18 | from Equation 11-17 | from Section 11.7.2 | (1)*(2)*(3)*(4)*(5) | |
| 1.00 | 1.00 | 0.99 | 1.00 | 1.00 | 0.99 | |

| (1) | | (2) | | (3) | (4) | (5) | (6) | (7) |
|--|-----------------|----------------|-------|--------------------|---------------------|---------------|-----------------------------|--|
| Crash Severity Level | S | PF Coefficient | ts | N spf rd | Overdispersion | Combined CMFs | Calibration | Predicted average crash |
| | from Table 11-5 | | | Parameter, k | (6) from Worksheet | Factor, Cr | frequency, N predicted rais | |
| | а | b | С | from Equation 11-9 | from Equation 11-10 | 1B (a) | | (3)*(5)*(6) |
| Total | -9.025 | 1.049 | 1.549 | 7.286 | 0.033 | 0.99 | 1.00 | 7.213 |
| Fatal and Injury (FI) | -8.837 | 0.958 | 1.687 | 3.971 | 0.029 | 0.99 | 1.00 | 3.932 |
| Fatal and Injury ^a (FI ^a) | -8.505 | 0.874 | 1.740 | 2.658 | 0.028 | 0.99 | 1.00 | 2.631 |
| Property Damage Only (PDO) | | | | | - | _ | | (7) _{TOTAL} - (7) _{FI} |
| ······································ | | | | | | | | 3.281 |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| | Worksheet 1D (a) Crashes by Severity Level and Collision Type for Rural Multilane Divided Roadway Segments | | | | | | | | |
|--------------------------|--|---|--|--|---|---|--|---|--|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | |
| Collision Type | Proportion of Collision Type(TOTAL) | N predicted rs(d) (TOTAL) (crashes/year) | Proportion of Collision Type(FI) | N predicted rs(d) (FI) (crashes/year) | Proportion of Collision Type (Fl ^a) | N predicted rs (FI ^a) (crashes/year) | Proportion of Collision Type (PDO) | N predicted rs(d) (PDO) (crashes/year) | |
| | from Table 11-6 | (7)TOTAL from Worksheet 1C (a) | from Table 11- 6 | (7)FI from Worksheet 1C (a) | from Table 11-6 | (7) _{Fl} ^a from Worksheet 1C (a) | from Table 11-6 | (7)PDO from Worksheet 1C (a) | |
| Total | 1.000 | 7.213 | 1.000 | 3.932 | 1.000 | 2.631 | 1.000 | 3.281 | |
| | | (2)*(3) _{TOTAL} | | (4)x(5) _{FI} | | (6)*(7) _{FI} ^a | | (8)*(9) PDO | |
| Head-on collision | 0.006 | 0.043 | 0.013 | 0.051 | 0.018 | 0.047 | 0.002 | 0.007 | |
| Sideswipe collision | 0.043 | 0.310 | 0.027 | 0.106 | 0.022 | 0.058 | 0.053 | 0.174 | |
| Rear-end collision | 0.116 | 0.837 | 0.163 | 0.641 | 0.114 | 0.300 | 0.088 | 0.289 | |
| Angle collision | 0.043 | 0.310 | 0.048 | 0.189 | 0.045 | 0.118 | 0.041 | 0.135 | |
| Single-vehicle collision | 0.768 | 5.540 | 0.727 | 2.858 | 0.778 | 2.047 | 0.792 | 2.599 | |
| Other collision | 0.024 | 0.173 | 0.022 | 0.086 | 0.023 | 0.061 | 0.024 | 0.079 | |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| Worksheet 1E Summary Results for Rural Multilane Roadway Segments | | | | | | |
|---|--|-----------------------------|-------------------------------------|--|--|--|
| (1) | (2) | (3) | (4) Crash rate (crashes/mi/year) | | | |
| Crash severity level | Predicted average crash frequency (crashes/year) | Roadway segment length (mi) | | | | |
| | (7) from Worksheet 1C (a) or (b) | 7 7 7 7 7 | (2)/(3) | | | |
| Total | 7.213 | 6.4 | 1.1 | | | |
| Fatal and Injury (FI) | 3.932 | 6.4 | 0.6 | | | |
| Fatal and Injury ^a (FI ^a) | 2.631 | 6.4 | 0.4 | | | |
| Property Damage Only (PDO) | 3.281 | 6.4 | 0.5 | | | |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| Proposed Modified W4 Alternative | | | | |
|----------------------------------|---------------|--------------------------|--|--|
| Segment | Total Crashes | Fatal and Injury Crashes | | |
| Rural Divided | 7.336 | 3.993 | | |
| Suburban | 1.196 | 0.362 | | |
| Intersection | Total Crashes | Fatal and Injury Crashes | | |
| Eid Rd. | 0.367 | 0.159 | | |
| Jacksha Rd. | 0.345 | 0.148 | | |
| Old US-95 South | 0.230 | 0.075 | | |
| Old US-95 North | 0.397 | 0.152 | | |
| Subtotal | 9.871 | 4.888 | | |

Modified W-4 Alternative Safety Summary 2021

| Proposed Modified W4 Alternative | | | | |
|----------------------------------|-----|--|--|--|
| Total (Crashes/year) | 9.9 | | | |
| Fatal and Injury | 4.9 | | | |
| Property Damage Only | 5.0 | | | |

| Existing US-95 | | | | |
|-----------------|---------------------|--------------------------|--|--|
| Segment | Total Crashes | Fatal and Injury Crashes | | |
| 11 | 0.007 | 0.002 | | |
| 12 | 0.021 | 0.007 | | |
| 13 | 0.009 | 0.003 | | |
| 14 | 0.021 | 0.007 | | |
| 15 | 0.012 | 0.004 | | |
| 16 | 0.026 | 0.008 | | |
| 17 | 0.016 | 0.005 | | |
| 18 | 0.052 | 0.017 | | |
| 19 | 0.015 | 0.005 | | |
| 20 | 0.095 | 0.030 | | |
| 21 | 0.264 | 0.085 | | |
| 22 | 0.488 | 0.157 | | |
| Intersection | Total Crashes | Fatal and Injury Crashes | | |
| Zeitler Rd. | 0.027 | 0.011 | | |
| Snow Rd. | 0.017 | 0.007 | | |
| Skyview Dr. | 0.008 | 0.003 | | |
| Clyde Rd. South | 0.024 | 0.010 | | |
| Cameron Rd. | Cameron Rd. 0.081 0 | | | |
| Clyde Rd. North | 0.120 | 0.050 | | |
| Subtotal | 1.301 | 0.443 | | |

| Existing US-95 Loop | | | | |
|----------------------|-----|--|--|--|
| Total (Crashes/year) | 1.3 | | | |
| Fatal and Injury | 0.4 | | | |
| Property Damage Only | 0.9 | | | |

| Proposed Modified W4 Alternative and Existing US-95 Loop | | | | |
|--|------|--|--|--|
| Total (Crashes/year) | 11.2 | | | |
| Fatal and Injury | 5.3 | | | |
| Property Damage Only | 5.8 | | | |

| Gei | eral Information | Location Information | | | |
|--|---|--|--|--|--|
| Analyst Agency or Company Date Performed | CJA, KJB ITD District 2 12/30/14 | Roadway Roadway Section Jurisdiction | US-95, Thorncreek to Moscow Modified W4 Rural - Divided Latah Co, ID | | |
| | | Analysis Year | 2021 | | |
| | Input Data | Base Conditions | Site Conditions | | |
| Roadway type (divided / undivided) | | Undivided | Divided | | |
| Length of segment, L (mi) | | | 6.35 | | |
| AADT (veh/day) | AADT _{MAX} = 89,300 (veh/day) | | 6,315 | | |
| Lane width (ft) | | 12 | 12 | | |
| Shoulder width (ft) - right shoulder width for d | vided [if differ for directions of travel, use average width] | 8 | 8 | | |
| Shoulder type - right shoulder type for divided | | Paved | Paved | | |
| Median width (ft) - for divided only | | 30 | 40 | | |
| Side Slopes - for undivided only | | 1:7 or flatter | Not Applicable | | |
| Lighting (present/not present) | | Not Present | Not Present | | |
| Auto speed enforcement (present/not present |) | Not Present | Not Present | | |
| Calibration Factor, Cr | | 1.00 | 1.00 | | |

| Worksheet 1B (a) Crash Modification Factors for Rural Multilane Divided Roadway Segments | | | | | | |
|--|------------------------------|----------------------|---------------------|--|--------------------|--|
| (1) | (2) | (3) | (4) | (5) | (6) | |
| CMF for Lane Width | CMF for Right Shoulder Width | CMF for Median Width | CMF for Lighting | CMF for Automated Speed Enforcement | Combined CMF | |
| CMF 1rd | CMF 2rd | CMF 3rd | CMF 4rd | CMF 5rd | CMF comb | |
| from Equation 11-16 | from Table 11-17 | from Table 11-18 | from Equation 11-17 | from Section 11.7.2 | (1)*(2)*(3)*(4)*(5 | |
| 1.00 | 1.00 | 0.99 | 1.00 | 1.00 | 0.99 | |

| (1) | (2) | | (3) | (4) | (5) Combined CMFs (6) from Worksheet | (6) Calibration Factor, Cr | | |
|--|-------------------------------------|--------|-------|----------|--|----------------------------------|------|---|
| Crash Severity Level | SPF Coefficients from Table 11-5 | | | N spf rd | | | | Overdispersion Parameter, k |
| | | | | | | | | |
| | Total | -9.025 | 1.049 | 1.549 | 7.410 | 0.033 | 0.99 | 1.00 |
| Fatal and Injury (FI) | -8.837 | 0.958 | 1.687 | 4.033 | 0.029 | 0.99 | 1.00 | 3.993 |
| Fatal and Injury ^a (FI ^a) | -8.505 | 0.874 | 1.740 | 2.695 | 0.028 | 0.99 | 1.00 | 2.668 |
| Property Damage Only (PDO) | - | - | - | | - | | - | (7) _{TOTAL} - (7) _{F1} 3.343 |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|--------------------------|---|-----------------------------------|--|--|---|---|--|---------------------------------|
| Collision Type | Proportion of Collision Type(TOTAL) | | Proportion of Collision Type(FI) | N predicted rs(d) (FI) (crashes/year) | Proportion of Collision Type (Fl ^a) | N predicted rs (FI ^a) (crashes/year) | Proportion of Collision Type (PDO) | (crashes/year) |
| | from Table 11-6 | (7)TOTAL from Worksheet 1C (a) | from Table 11- 6 | (7)FI from Worksheet 1C (a) | from Table 11-6 | (7) _{Fl} ^a from Worksheet 1C (a) | from Table 11-6 | (7)PDO from Worksheet 1C (a) |
| Total 1.000 | 1.000 | 7.336 | 1.000 | 3.993 | 1.000 | 2.668 | 1.000 | 3.343 |
| | | (2)*(3) _{TOTAL} | | (4)x(5) _{F1} | | (6)*(7) _{F1} ^a | | (8)*(9) PDO |
| Head-on collision | 0.006 | 0.044 | 0.013 | 0.052 | 0.018 | 0.048 | 0.002 | 0.007 |
| Sideswipe collision | 0.043 | 0.315 | 0.027 | 0.108 | 0.022 | 0.059 | 0.053 | 0.177 |
| Rear-end collision | 0.116 | 0.851 | 0.163 | 0.651 | 0.114 | 0.304 | 0.088 | 0.294 |
| Angle collision | 0.043 | 0.315 | 0.048 | 0.192 | 0.045 | 0.120 | 0.041 | 0.137 |
| Single-vehicle collision | 0.768 | 5.634 | 0.727 | 2.903 | 0.778 | 2.076 | 0.792 | 2.648 |
| Other collision | 0.024 | 0.176 | 0.022 | 0.088 | 0.023 | 0.061 | 0.024 | 0.080 |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| Worksheet 1E – Summary Results for Rural Multilane Roadway Segments | | | | | | |
|---|--|-----------------------------|--|--|--|--|
| (1) | (2) | (3) | (4) Crash rate (crashes/mi/year) (2)/(3) | | | |
| Crash severity level | Predicted average crash frequency (crashes/year) | Roadway segment length (mi) | | | | |
| | (7) from Worksheet 1C (a) or (b) | | | | | |
| Total | 7.336 | 6.4 | 1.2 | | | |
| Fatal and Injury (FI) | 3.993 | 6.4 | 0.6 | | | |
| Fatal and Injury ^a (FI ^a) | 2.668 | 6.4 | 0.4 | | | |
| Property Damage Only (PDO) | 3.343 | 6.4 | 0.5 | | | |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| Proposed Modified W4 Alternative | | | | |
|----------------------------------|-------------------|----------------------------|--|--|
| Segment | Total Crashes | Fatal and Injury Crashes | | |
| Rural Divided | 7.461 | 4.055 | | |
| Suburban | 1.216 | 0.367 | | |
| Intersection | Total Crashes | s Fatal and Injury Crashes | | |
| Eid Rd. | 0.374 | 0.162 | | |
| Jacksha Rd. | 0.352 | | | |
| Old US-95 South | US-95 South 0.235 | | | |
| Old US-95 North | 0.404 | 0.154 | | |
| Subtotal | 10.041 | 4.965 | | |

| Proposed Modified W4 Alternative | | | | |
|----------------------------------|------|--|--|--|
| Total (Crashes/year) | 10.0 | | | |
| Fatal and Injury | 5.0 | | | |
| Property Damage Only | 5.1 | | | |

| Existing US-95 | | | |
|----------------------------|---------------|--------------------------|--|
| Segment | Total Crashes | Fatal and Injury Crashes | |
| 11 | 0.007 | 0.002 | |
| 12 | 0.021 | 0.007 | |
| 13 | 0.009 | 0.003 | |
| 14 | 0.021 | 0.007 | |
| 15 | 0.012 | 0.004 | |
| 16 | 0.026 | 0.008 | |
| 17 | 0.016 | 0.005 | |
| 18 | 0.052 | 0.017 | |
| 19 | 0.015 | 0.005 | |
| 20 | 0.095 | 0.031 | |
| 21 | 0.266 | 0.085 | |
| 22 | 0.493 | 0.158 | |
| Intersection Total Crashes | | Fatal and Injury Crashes | |
| Zeitler Rd. | 0.027 | 0.011 | |
| Snow Rd. | 0.017 | 0.007 | |
| Skyview Dr. | 0.008 | 0.003 | |
| Clyde Rd. South | 0.024 | 0.010 | |
| Cameron Rd. | 0.081 | 0.034 | |
| Clyde Rd. North | 0.120 | 0.050 | |
| Subtotal | 1.309 | 0.446 | |

| Existing US-95 Loop | | | | |
|----------------------|-----|--|--|--|
| Total (Crashes/year) | 1.3 | | | |
| Fatal and Injury | 0.4 | | | |
| Property Damage Only | 0.9 | | | |

| Proposed Modified W4 Alternative and Existing US-95 Loop | | | | |
|--|------|--|--|--|
| Total (Crashes/year) | 11.4 | | | |
| Fatal and Injury | 5.4 | | | |
| Property Damage Only | 5.9 | | | |

| | Worksheet 1A General Information and Input Da | ta for Rural Multilane Roa | adway Segments | |
|--|--|-------------------------------|--|--|
| Gene | eral Information | Location Information | | |
| Analyst Agency or Company | CJA, KJB ITD District 2 | Roadway Roadway Section | US-95, Thorncreek to Moscow Modified W4 Rural - Divided | |
| Date Performed | 12/30/14 | Jurisdiction Analysis Year | Latah Co, ID 2022 | |
| | Input Data | Base Conditions | Site Conditions | |
| Roadway type (divided / undivided) | | Undivided | Divided | |
| Length of segment, L (mi) | | | 6.35 | |
| AADT (veh/day) | AADT _{MAX} = 89,300 (veh/day) | - | 6,417 | |
| Lane width (ft) | | 12 | 12 | |
| Shoulder width (ft) - right shoulder width for div | ided [if differ for directions of travel, use average width] | 8 | 8 | |
| Shoulder type - right shoulder type for divided | | Paved | Paved | |
| Median width (ft) - for divided only | | 30 | 40 | |
| Side Slopes - for undivided only | | 1:7 or flatter | Not Applicable | |
| Lighting (present/not present) | | Not Present | Not Present | |
| Auto speed enforcement (present/not present) | | Not Present | Not Present | |
| Calibration Factor, Cr | | 1.00 | 1.00 | |

| Worksheet 1B (a) Crash Modification Factors for Rural Multilane Divided Roadway Segments | | | | | | |
|--|------------------------------|----------------------|---------------------|--|--------------------|--|
| (1) | (2) | (3) | (4) | (5) | (6) | |
| CMF for Lane Width | CMF for Right Shoulder Width | CMF for Median Width | CMF for Lighting | CMF for Automated Speed Enforcement | Combined CMF | |
| CMF 1rd | CMF 2rd | CMF 3rd | CMF 4rd | CMF 5rd | CMF comb | |
| from Equation 11-16 | from Table 11-17 | from Table 11-18 | from Equation 11-17 | from Section 11.7.2 | (1)*(2)*(3)*(4)*(5 | |
| 1.00 | 1.00 | 0.99 | 1.00 | 1.00 | 0.99 | |

| (1) | (2) | | (3) | (4) | (5) | (6) | (7) | |
|--|--------|----------------|-------|--------------------|---------------------|--------------------|-------------|---|
| Crash Severity Level | S | PF Coefficient | ts | N spf rd | Overdispersion | Combined CMFs | Calibration | Predicted average crash |
| | f | rom Table 11- | 5 | | Parameter, k | (6) from Worksheet | Factor, Cr | frequency, N predicted raid) |
| | а | b | С | from Equation 11-9 | from Equation 11-10 | 1B (a) | | (3)*(5)*(6) |
| Total | -9.025 | 1.049 | 1.549 | 7.537 | 0.033 | 0.99 | 1.00 | 7.461 |
| Fatal and Injury (FI) | -8.837 | 0.958 | 1.687 | 4.096 | 0.029 | 0.99 | 1.00 | 4.055 |
| Fatal and Injury ^a (FI ^a) | -8.505 | 0.874 | 1.740 | 2.734 | 0.028 | 0.99 | 1.00 | 2.706 |
| Property Damage Only (PDO) | - | - | - | | | | - | (7) _{TOTAL} - (7) _{FI} 3.406 |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|--------------------------|---|---|--|--|---|---|--|---|
| Collision Type | Proportion of Collision Type(TOTAL) | N predicted rs(d) (TOTAL) (crashes/year) | Proportion of Collision Type(FI) | N predicted rs(d) (FI) (crashes/year) | Proportion of Collision Type (FI ^a) | N predicted rs (FI ^a) (crashes/year) | Proportion of Collision Type (PDO) | N predicted rs(d) (PDO) (crashes/year) |
| | from Table | (7)TOTAL from Worksheet 1C | from Table 11- | (7)FI from Worksheet | from Table | (7) FI ^a from Worksheet | from Table | (7)PDO from Worksheet 1C |
| | 11-6 | (a) | 6 | 1C (a) | 11-6 | 1C (a) | 11-6 | (a) |
| Total | 1.000 | 7.461 | 1.000 | 4.055 | 1.000 | 2.706 | 1.000 | 3.406 |
| | | (2)*(3) _{TOTAL} | | (4)x(5) _{FI} | | (6)*(7) _{F1} ^a | | (8)*(9) PDO |
| Head-on collision | 0.006 | 0.045 | 0.013 | 0.053 | 0.018 | 0.049 | 0.002 | 0.007 |
| Sideswipe collision | 0.043 | 0.321 | 0.027 | 0.109 | 0.022 | 0.060 | 0.053 | 0.181 |
| Rear-end collision | 0.116 | 0.866 | 0.163 | 0.661 | 0.114 | 0.309 | 0.088 | 0.300 |
| Angle collision | 0.043 | 0.321 | 0.048 | 0.195 | 0.045 | 0.122 | 0.041 | 0.140 |
| Single-vehicle collision | 0.768 | 5.730 | 0.727 | 2.948 | 0.778 | 2.105 | 0.792 | 2.698 |
| Other collision | 0.024 | 0.179 | 0.022 | 0.089 | 0.023 | 0.062 | 0.024 | 0.082 |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| Worksheet 1E Summary Results for Rural Multilane Roadway Segments | | | | | |
|---|--|-----------------------------|---|--|--|
| (1) | (2) | (3) | (4) | | |
| Crash severity level | Predicted average crash frequency (crashes/year) | Roadway segment length (mi) | Crash rate (crashes/mi/year) (2)/(3) | | |
| | (7) from Worksheet 1C (a) or (b) | | | | |
| Total | 7.461 | 6.4 | 1.2 | | |
| Fatal and Injury (FI) | 4.055 | 6.4 | 0.6 | | |
| Fatal and Injury ^a (FI ^a) | 2.706 | 6.4 | 0.4 | | |
| Property Damage Only (PDO) | 3.406 | 6.4 | 0.5 | | |

| Proposed Modified W4 Alternative | | | | |
|----------------------------------|---------------|--------------------------|--|--|
| Segment | Total Crashes | Fatal and Injury Crashes | | |
| Rural Divided | 7.589 | 4.118 | | |
| Suburban | 1.235 | 0.373 | | |
| Intersection | Total Crashes | Fatal and Injury Crashes | | |
| Eid Rd. | 0.382 | 0.165 | | |
| Jacksha Rd. | 0.359 | 0.153 | | |
| Old US-95 South 0.240 | | 0.078 | | |
| Old US-95 North | 0.411 0. | | | |
| Subtotal | 10.215 | 5.044 | | |

| Proposed Modified W4 Alternative | | | | |
|----------------------------------|------|--|--|--|
| Total (Crashes/year) | 10.2 | | | |
| Fatal and Injury | 5.0 | | | |
| Property Damage Only | 5.2 | | | |

| Existing US-95 | | | | |
|-----------------|---------------|--------------------------|--|--|
| Segment | Total Crashes | Fatal and Injury Crashes | | |
| 11 | 0.007 | 0.002 | | |
| 12 | 0.021 | 0.007 | | |
| 13 | 0.009 | 0.003 | | |
| 14 | 0.021 | 0.007 | | |
| 15 | 0.012 | 0.004 | | |
| 16 | 0.026 | 0.008 | | |
| 17 | 0.016 | 0.005 | | |
| 18 | 0.052 | 0.017 | | |
| 19 | 0.015 | 0.005 | | |
| 20 | 0.096 | 0.031 | | |
| 21 | 0.267 | 0.086 | | |
| 22 | 0.497 | 0.160 | | |
| Intersection | Total Crashes | Fatal and Injury Crashes | | |
| Zeitler Rd. | 0.027 | 0.011 | | |
| Snow Rd. | 0.017 | 0.007 | | |
| Skyview Dr. | 0.008 | 0.003 | | |
| Clyde Rd. South | 0.024 | 0.010 | | |
| Cameron Rd. | 0.082 | 0.034 | | |
| Clyde Rd. North | 0.121 | 0.050 | | |
| Subtotal | 1.317 | 0.449 | | |

| Existing US-95 Loop | | | | |
|----------------------|-----|--|--|--|
| Total (Crashes/year) | 1.3 | | | |
| Fatal and Injury | 0.4 | | | |
| Property Damage Only | 0.9 | | | |

| Proposed Modified W4 Alternative and Existing US-95 Loop | | | | |
|--|------|--|--|--|
| Total (Crashes/year) | 11.5 | | | |
| Fatal and Injury | 5.5 | | | |
| Property Damage Only | 6.0 | | | |

| | Worksheet 1A General Information and Input Da | ta for Rural Multilane Road | way Segments | | |
|--|--|-----------------------------|--|--|--|
| Ge | neral Information | | Location Information | | |
| Analyst Agency or Company | ITD District 2 Roadway Section | | US-95, Thorncreek to Moscow Modified W4 Rural - Divided | | |
| Date Performed | | | Latah Co, ID 2023 | | |
| | Input Data | Base Conditions | Site Conditions | | |
| Roadway type (divided / undivided) | | Undivided | Divided | | |
| Length of segment, L (mi) | | | 6.35 | | |
| AADT (veh/day) | AADT _{MAX} = 89,300 (veh/day) | | 6,522 | | |
| Lane width (ft) | | 12 | 12 | | |
| Shoulder width (ft) - right shoulder width for d | ivided [if differ for directions of travel, use average width] | 8 | 8 | | |
| Shoulder type - right shoulder type for divided | 1 | Paved | Paved | | |
| Median width (ft) - for divided only | | 30 | 40 | | |
| Side Slopes - for undivided only | | 1:7 or flatter | Not Applicable | | |
| Lighting (present/not present) | | Not Present | Not Present | | |
| Auto speed enforcement (present/not presen | t) | Not Present | Not Present | | |
| Calibration Factor, Cr | | 1.00 | 1.00 | | |

| Worksheet 1B (a) Crash Modification Factors for Rural Multilane Divided Roadway Segments | | | | | | |
|--|------------------------------|----------------------|---------------------|--|--------------------|--|
| (1) | (2) | (3) | (4) | (5) | (6) | |
| CMF for Lane Width | CMF for Right Shoulder Width | CMF for Median Width | CMF for Lighting | CMF for Automated Speed Enforcement | Combined CMF | |
| CMF 1rd | CMF 2rd | CMF 3rd | CMF 4rd | CMF 5rd | CMF comb | |
| from Equation 11-16 | from Table 11-17 | from Table 11-18 | from Equation 11-17 | from Section 11.7.2 | (1)*(2)*(3)*(4)*(5 | |
| 1.00 | 1.00 | 0.99 | 1.00 | 1.00 | 0.99 | |

| (1) | | (2) | | (3) | (4) | (5) | (6) | (7) |
|--|--------|----------------|-------|--------------------|---------------------|--------------------|-------------|--|
| Crash Severity Level | S | PF Coefficient | ts | N spf rd | Overdispersion | Combined CMFs | Calibration | Predicted average crash |
| | f | rom Table 11- | 5 | | Parameter, k | (6) from Worksheet | Factor, Cr | frequency, N predicted ra(d) |
| | а | b | С | from Equation 11-9 | from Equation 11-10 | 1B (a) | | (3)*(5)*(6) |
| Total | -9.025 | 1.049 | 1.549 | 7.666 | 0.033 | 0.99 | 1.00 | 7.589 |
| Fatal and Injury (FI) | -8.837 | 0.958 | 1.687 | 4.160 | 0.029 | 0.99 | 1.00 | 4.118 |
| Fatal and Injury ^a (FI ^a) | -8.505 | 0.874 | 1.740 | 2.772 | 0.028 | 0.99 | 1.00 | 2.745 |
| Property Damage Only (PDO) | | | | | | - | | (7) _{TOTAL} - (7) _{FI} |
| (100) | | | | | | | | 3.471 |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|--------------------------|---|---|--|--|---|---|--|---|
| Collision Type | Proportion of Collision Type(TOTAL) | N prodicted rs(d) (TOTAL) (crashes/year) | Proportion of Collision Type(FI) | N predicted rs(d) (FI) (crashes/year) | Proportion of Collision Type (FI ^a) | N predicted rs (FI [*]) (crashes/year) | Proportion of Collision Type (PDO) | N predicted rs(d) (PDO) (crashes/year) |
| | from Table | (7)TOTAL from Worksheet 1C | from Table 11- | (7)FI from Worksheet | from Table | (7) FI ^a from Worksheet | from Table | (7)PDO from Worksheet 1C |
| | 11-6 | (a) | 6 | 1C (a) | 11-6 | 1C (a) | 11-6 | (a) |
| Total | 1.000 | 7.589 | 1.000 | 4.118 | 1.000 | 2.745 | 1.000 | 3.471 |
| | | (2)*(3) _{TOTAL} | | (4)x(5) _{F1} | | (6)*(7) _{FI} ^a | | (8)*(9) PDO |
| Head-on collision | 0.006 | 0.046 | 0.013 | 0.054 | 0.018 | 0.049 | 0.002 | 0.007 |
| Sideswipe collision | 0.043 | 0.326 | 0.027 | 0.111 | 0.022 | 0.060 | 0.053 | 0.184 |
| Rear-end collision | 0.116 | 0.880 | 0.163 | 0.671 | 0.114 | 0.313 | 0.088 | 0.305 |
| Angle collision | 0.043 | 0.326 | 0.048 | 0.198 | 0.045 | 0.124 | 0.041 | 0.142 |
| Single-vehicle collision | 0.768 | 5.828 | 0.727 | 2.994 | 0.778 | 2.135 | 0.792 | 2.749 |
| Other collision | 0.024 | 0.182 | 0.022 | 0.091 | 0.023 | 0.063 | 0.024 | 0.083 |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| Worksheet 1E Summary Results for Rural Multilane Roadway Segments | | | | | |
|---|--|-----------------------------|---|--|--|
| (1) | (2) | (3) | (4) | | |
| Crash severity level | Predicted average crash frequency (crashes/year) | Roadway segment length (mi) | Crash rate (crashes/mi/year) (2)/(3) | | |
| - F | (7) from Worksheet 1C (a) or (b) | 7 | | | |
| Total | 7.589 | 6.4 | 1.2 | | |
| Fatal and Injury (FI) | 4.118 | 6.4 | 0.6 | | |
| Fatal and Injury ^a (FI ^a) | 2.745 | 6.4 | 0.4 | | |
| Property Damage Only (PDO) | 3.471 | 6.4 | 0.5 | | |

| Proposed Modified W4 Alternative | | | | |
|----------------------------------|---------------|--------------------------|--|--|
| Segment | Total Crashes | Fatal and Injury Crashes | | |
| Rural Divided | 7.718 | 4.182 | | |
| Suburban | 1.255 | 0.378 | | |
| Intersection | Total Crashes | Fatal and Injury Crashes | | |
| Eid Rd. | 0.389 | 0.168 | | |
| Jacksha Rd. | 0.366 | 0.156 | | |
| Old US-95 South 0.244 0.07 | | 0.079 | | |
| Old US-95 North | 0.419 | 0.160 | | |
| Subtotal | 10.391 | 5.124 | | |

| Proposed Modified W4 Alternative | | | | |
|----------------------------------|------|--|--|--|
| Total (Crashes/year) | 10.4 | | | |
| Fatal and Injury | 5.1 | | | |
| Property Damage Only | 5.3 | | | |

| | Existing US-95 | | | | |
|-----------------|----------------|-----------------------------------|--|--|--|
| Segment | Total Crashes | Fatal and Injury Crashes 0.002 | | | |
| 11 | 0.007 | | | | |
| 12 | 0.021 | 0.007 | | | |
| 13 | 0.009 | 0.003 | | | |
| 14 | 0.021 | 0.007 | | | |
| 15 | 0.012 | 0.004 | | | |
| 16 | 0.026 | 0.008 | | | |
| 17 | 0.016 | 0.005 | | | |
| 18 | 0.052 | 0.017 | | | |
| 19 | 0.015 | 0.005 | | | |
| 20 | 0.096 | 0.031 | | | |
| 21 | 0.269 | 0.086 | | | |
| 22 | 0.502 | 0.161 | | | |
| Intersection | Total Crashes | Fatal and Injury Crashes | | | |
| Zeitler Rd. | 0.027 | 0.011 | | | |
| Snow Rd. | 0.017 | 0.007 | | | |
| Skyview Dr. | 0.008 | 0.003 | | | |
| Clyde Rd. South | 0.024 | 0.010 | | | |
| Cameron Rd. | 0.082 | 0.034 | | | |
| Clyde Rd. North | 0.122 | 0.050 | | | |
| Subtotal | 1.325 | 0.452 | | | |

| Existing US-95 Loop | | | | |
|----------------------|-----|--|--|--|
| Total (Crashes/year) | 1.3 | | | |
| Fatal and Injury | 0.5 | | | |
| Property Damage Only | 0.9 | | | |

| Proposed Modified W4 Alternative and Existing US-95 Loop | | | | |
|--|------|--|--|--|
| Total (Crashes/year) | 11.7 | | | |
| Fatal and Injury | 5.6 | | | |
| Property Damage Only | 6.1 | | | |

| | Worksheet 1A General Information and Input Da | ta for Rural Multilane Roa | adway Segments | |
|--|--|-------------------------------|--|--|
| Genera | al Information | | Location Information | |
| Analyst Agency or Company | CJA, KJB ITD District 2 | Roadway Roadway Section | US-95, Thorncreek to Moscow Modified W4 Rural - Divided | |
| Date Performed | 12/30/14 | Jurisdiction Analysis Year | Latah Co, ID 2024 | |
| In | put Data | Base Conditions | Site Conditions | |
| Roadway type (divided / undivided) | | Undivided | Divided | |
| Length of segment, L (mi) | | | 6.35 | |
| AADT (veh/day) | AADT _{MAX} = 89,300 (veh/day) | | 6,628 | |
| Lane width (ft) | | 12 | 12 | |
| Shoulder width (ft) - right shoulder width for divid | ed [if differ for directions of travel, use average width] | 8 | 8 | |
| Shoulder type - right shoulder type for divided | | Paved | Paved | |
| Median width (ft) - for divided only | | 30 | 40 | |
| Side Slopes - for undivided only | | 1:7 or flatter | Not Applicable | |
| Lighting (present/not present) | | Not Present | Not Present | |
| Auto speed enforcement (present/not present) | | Not Present | Not Present | |
| Calibration Factor, Cr | | 1.00 | 1.00 | |

| Worksheet 1B (a) Crash Modification Factors for Rural Multilane Divided Roadway Segments | | | | | |
|--|------------------------------|----------------------|---------------------|--|--------------------|
| (1) | (2) | (3) | (4) | (5) | (6) |
| CMF for Lane Width | CMF for Right Shoulder Width | CMF for Median Width | CMF for Lighting | CMF for Automated Speed Enforcement | Combined CMF |
| CMF 1rd | CMF 2rd | CMF 3rd | CMF 4rd | CMF 5rd | CMF comb |
| from Equation 11-16 | from Table 11-17 | from Table 11-18 | from Equation 11-17 | from Section 11.7.2 | (1)*(2)*(3)*(4)*(5 |
| 1.00 | 1.00 | 0.99 | 1.00 | 1.00 | 0.99 |

| (1) | | (2) | | (3) | (4) | (5) | (6) | (7) |
|--|--------|----------------|-------|--------------------|---------------------|--------------------|-------------|---|
| Crash Severity Level | | PF Coefficient | | N spf rd | Overdispersion | Combined CMFs | Calibration | Predicted average crash |
| | f | rom Table 11-5 | 5 | | Parameter, k | (6) from Worksheet | Factor, Cr | frequency, N predicted ra(d) |
| | а | b | С | from Equation 11-9 | from Equation 11-10 | 1B (a) | | (3)*(5)*(6) |
| Total | -9.025 | 1.049 | 1.549 | 7.796 | 0.033 | 0.99 | 1.00 | 7.718 |
| Fatal and Injury (FI) | -8.837 | 0.958 | 1.687 | 4.225 | 0.029 | 0.99 | 1.00 | 4.182 |
| Fatal and Injury ^a (FI ^a) | -8.505 | 0.874 | 1.740 | 2.812 | 0.028 | 0.99 | 1.00 | 2.784 |
| Property Damage Only (PDO) | - | - | - | - | - | - | | (7) _{TOTAL} - (7) _{F1} 3.536 |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|--------------------------|---|---|--|--|---|---|--|---|
| Collision Type | Proportion of Collision Type(TOTAL) | N predicted rs(d) (TOTAL) (crashes/year) | Proportion of Collision Type(FI) | N predicted rs(d) (FI) (crashes/year) | Proportion of Collision Type (FI ^a) | N predicted rs (FI ^a) (crashes/year) | Proportion of Collision Type (PDO) | N predicted rs(d) (PDO) (crashes/year) |
| | from Table | (7)TOTAL from Worksheet 1C | | • / | from Table | (7) FI ^a from Worksheet | from Table | (7)PDO from Worksheet 1C |
| | 11-6 | (a) | 6 | 1C (a) | 11-6 | 1C (a) | 11-6 | (a) |
| Total | 1.000 | 7.718 | 1.000 | 4.182 | 1.000 | 2.784 | 1.000 | 3.536 |
| | | (2)*(3) _{TOTAL} | | (4)x(5) _{F1} | | (6)*(7) _{FI} ^a | | (8)*(9) _{PDO} |
| Head-on collision | 0.006 | 0.046 | 0.013 | 0.054 | 0.018 | 0.050 | 0.002 | 0.007 |
| Sideswipe collision | 0.043 | 0.332 | 0.027 | 0.113 | 0.022 | 0.061 | 0.053 | 0.187 |
| Rear-end collision | 0.116 | 0.895 | 0.163 | 0.682 | 0.114 | 0.317 | 0.088 | 0.311 |
| Angle collision | 0.043 | 0.332 | 0.048 | 0.201 | 0.045 | 0.125 | 0.041 | 0.145 |
| Single-vehicle collision | 0.768 | 5.928 | 0.727 | 3.041 | 0.778 | 2.166 | 0.792 | 2.800 |
| Other collision | 0.024 | 0.185 | 0.022 | 0.092 | 0.023 | 0.064 | 0.024 | 0.085 |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| Worksheet 1E Summary Results for Rural Multilane Roadway Segments | | | | | |
|---|--|-----------------------------|---|--|--|
| (1) | (2) | (3) | (4) | | |
| Crash severity level | Predicted average crash frequency (crashes/year) | Roadway segment length (mi) | Crash rate (crashes/mi/year) (2)/(3) | | |
| | (7) from Worksheet 1C (a) or (b) | 7 | | | |
| Total | 7.718 | 6.4 | 1.2 | | |
| Fatal and Injury (FI) | 4.182 | 6.4 | 0.7 | | |
| Fatal and Injury ^a (FI ^a) | 2.784 | 6.4 | 0.4 | | |
| Property Damage Only (PDO) | 3.536 | 6.4 | 0.6 | | |

| Proposed Modified W4 Alternative | | | | |
|----------------------------------|---------------|--------------------------|--|--|
| Segment | Total Crashes | Fatal and Injury Crashes | | |
| Rural Divided | 7.850 | 4.248 | | |
| Suburban | 1.275 | 0.384 | | |
| Intersection | Total Crashes | Fatal and Injury Crashes | | |
| Eid Rd. | 0.397 | 0.171 | | |
| Jacksha Rd. | 0.373 | 0.159 | | |
| Old US-95 South | 0.249 | 0.080 | | |
| Old US-95 North | 0.426 | 0.162 | | |
| Subtotal | 10.571 | 5.205 | | |

| Proposed Modified W4 Alternative | | | | |
|----------------------------------|------|--|--|--|
| Total (Crashes/year) | 10.6 | | | |
| Fatal and Injury | 5.2 | | | |
| Property Damage Only | 5.4 | | | |

| Existing US-95 | | | | |
|-----------------|---------------|--------------------------|--|--|
| Segment | Total Crashes | Fatal and Injury Crashes | | |
| 11 | 0.007 | 0.002 | | |
| 12 | 0.021 | 0.007 | | |
| 13 | 0.009 | 0.003 | | |
| 14 | 0.021 | 0.007 | | |
| 15 | 0.012 | 0.004 | | |
| 16 | 0.026 | 0.008 | | |
| 17 | 0.016 | 0.005 | | |
| 18 | 0.052 | 0.017 | | |
| 19 | 0.015 | 0.005 | | |
| 20 | 0.096 | 0.031 | | |
| 21 0.270 | | 0.087 | | |
| 22 | 0.507 | 0.163 | | |
| Intersection | Total Crashes | Fatal and Injury Crashes | | |
| Zeitler Rd. | 0.027 | 0.011 | | |
| Snow Rd. | 0.017 | 0.007 | | |
| Skyview Dr. | 0.008 | 0.003 | | |
| Clyde Rd. South | 0.024 | 0.010 | | |
| Cameron Rd. | 0.083 | 0.034 | | |
| Clyde Rd. North | 0.122 | 0.051 | | |
| Subtotal | 1.333 | 0.454 | | |

| Existing US-95 Loop | | | | |
|----------------------|-----|--|--|--|
| Total (Crashes/year) | 1.3 | | | |
| Fatal and Injury | 0.5 | | | |
| Property Damage Only | 0.9 | | | |

| Proposed Modified W4 Alternative and Existing US-95 Loop | | | | |
|--|------|--|--|--|
| Total (Crashes/year) | 11.9 | | | |
| Fatal and Injury | 5.7 | | | |
| Property Damage Only | 6.2 | | | |

| | Worksheet 1A General Information and Input Da | ta for Rural Multilane Ro | adway Segments |
|--|---|----------------------------|--|
| | General Information | | Location Information |
| Analyst Agency or Company | CJA, KJB ITD District 2 | Roadway Roadway Section | US-95, Thorncreek to Moscow Modified W4 Rural - Divided |
| Date Performed | 12/30/14 Jurisdiction Analysis Year | | Latah Co, ID 2025 |
| | Input Data | Base Conditions | Site Conditions |
| Roadway type (divided / undivided) | | Undivided | Divided |
| Length of segment, L (mi) | | - | 6.35 |
| AADT (veh/day) | AADT _{MAX} = 89,300 (veh/day) | - | 6,736 |
| Lane width (ft) | | 12 | 12 |
| Shoulder width (ft) - right shoulder width for | r divided [if differ for directions of travel, use average width] | 8 | 8 |
| Shoulder type - right shoulder type for divi | ded | Paved | Paved |
| Median width (ft) - for divided only | | 30 | 40 |
| Side Slopes - for undivided only | | 1:7 or flatter | Not Applicable |
| Lighting (present/not present) | | Not Present | Not Present |
| Auto speed enforcement (present/not pres | sent) | Not Present | Not Present |
| Calibration Factor, Cr | | 1.00 | 1.00 |

| Worksheet 1B (a) Crash Modification Factors for Rural Multilane Divided Roadway Segments | | | | | | |
|--|------------------------------|----------------------|---------------------|--|--------------------|--|
| (1) | (2) | (3) | (4) | (5) | (6) | |
| CMF for Lane Width | CMF for Right Shoulder Width | CMF for Median Width | CMF for Lighting | CMF for Automated Speed Enforcement | Combined CMF | |
| CMF 1rd | CMF 2rd | CMF 3rd | CMF 4rd | CMF 5rd | CMF comb | |
| from Equation 11-16 | from Table 11-17 | from Table 11-18 | from Equation 11-17 | from Section 11.7.2 | (1)*(2)*(3)*(4)*(5 | |
| 1.00 | 1.00 | 0.99 | 1.00 | 1.00 | 0.99 | |

| (1) | (1) (2) | | (2) (3) | | (3) | (4) | (5) | (6) | (7) |
|--|-----------------|----------------|---------|--------------------|---------------------|---------------|------------------------------|---|-----|
| Crash Severity Level | S | PF Coefficient | s | N spf rd | Overdispersion | Combined CMFs | Calibration | Predicted average crash | |
| | from Table 11-5 | | | Parameter, k | (6) from Worksheet | Factor, Cr | frequency, N predicted reid) | | |
| | а | b | С | from Equation 11-9 | from Equation 11-10 | 1B (a) | | (3)*(5)*(6) | |
| Total | -9.025 | 1.049 | 1.549 | 7.929 | 0.033 | 0.99 | 1.00 | 7.850 | |
| Fatal and Injury (FI) | -8.837 | 0.958 | 1.687 | 4.291 | 0.029 | 0.99 | 1.00 | 4.248 | |
| Fatal and Injury ^a (FI ^a) | -8.505 | 0.874 | 1.740 | 2.852 | 0.028 | 0.99 | 1.00 | 2.823 | |
| Property Damage Only (PDO) | - | - | - | - | - | - | - | (7) _{TOTAL} - (7) _{FI} 3.603 | |

| Worksheet 1D (a) Crashes by Severity Level and Collision Type for Rural Multilane Divided Roadway Segments | | | | | | | | |
|--|---|---|--|--|---|---|--|---|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| Collision Type | Proportion of Collision Type(TOTAL) | N predicted rs(d) (TOTAL) (crashes/year) | Proportion of Collision Type(FI) | N predicted rs(d) (FI) (crashes/year) | Proportion of Collision Type (FI ^a) | N predicted rs (FI ^a) (crashes/year) | Proportion of Collision Type (PDO) | N predicted rs(d) (PDO) (crashes/year) |
| | from Table 11-6 | (7)TOTAL from Worksheet 1C (a) | from Table 11- 6 | (7)FI from Worksheet 1C (a) | from Table 11-6 | (7) FI ^a from Worksheet 1C (a) | from Table 11-6 | (7)PDO from Worksheet 1C (a) |
| Total | 1.000 | 7.850 | 1.000 | 4.248 | 1.000 | 2.823 | 1.000 | 3.603 |
| | | (2)*(3) _{TOTAL} | | (4)x(5) _{F1} | | (6)*(7) _{F1} ^a | | (8)*(9) PDO |
| Head-on collision | 0.006 | 0.047 | 0.013 | 0.055 | 0.018 | 0.051 | 0.002 | 0.007 |
| Sideswipe collision | 0.043 | 0.338 | 0.027 | 0.115 | 0.022 | 0.062 | 0.053 | 0.191 |
| Rear-end collision | 0.116 | 0.911 | 0.163 | 0.692 | 0.114 | 0.322 | 0.088 | 0.317 |
| Angle collision | 0.043 | 0.338 | 0.048 | 0.204 | 0.045 | 0.127 | 0.041 | 0.148 |
| Single-vehicle collision | 0.768 | 6.029 | 0.727 | 3.088 | 0.778 | 2.196 | 0.792 | 2.853 |
| Other collision | 0.024 | 0.188 | 0.022 | 0.093 | 0.023 | 0.065 | 0.024 | 0.086 |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| Worksheet 1E Summary Results for Rural Multilane Roadway Segments | | | | | | | |
|---|--|-----------------------------|------------------------------|--|--|--|--|
| (1) | (2) | (3) | (4) | | | | |
| Crash severity level | Predicted average crash frequency (crashes/year) | Roadway segment length (mi) | Crash rate (crashes/mi/year) | | | | |
| | (7) from Worksheet 1C (a) or (b) | | (2)/(3) | | | | |
| Total | 7.850 | 6.4 | 1.2 | | | | |
| Fatal and Injury (FI) | 4.248 | 6.4 | 0.7 | | | | |
| Fatal and Injury ^a (Fl ^a) | 2.823 | 6.4 | 0.4 | | | | |
| Property Damage Only (PDO) | 3.603 | 6.4 | 0.6 | | | | |

| | Proposed Modified W4 Alternat | ve |
|-----------------|-------------------------------|--------------------------|
| Segment | Total Crashes | Fatal and Injury Crashes |
| Rural Divided | 7.984 | 4.314 |
| Suburban | 1.296 | 0.390 |
| Intersection | Total Crashes | Fatal and Injury Crashes |
| Eid Rd. | 0.405 | 0.174 |
| Jacksha Rd. | 0.381 | 0.162 |
| Old US-95 South | 0.254 | 0.082 |
| Old US-95 North | 0.434 | 0.165 |
| Subtotal | 10.754 | 5.287 |

| Proposed Modified W4 Alternative | | | | |
|----------------------------------|------|--|--|--|
| Total (Crashes/year) | 10.8 | | | |
| Fatal and Injury | 5.3 | | | |
| Property Damage Only | 5.5 | | | |

| Existing US-95 | | | | |
|-----------------|---------------|--------------------------|--|--|
| Segment | Total Crashes | Fatal and Injury Crashes | | |
| 11 | 0.007 | 0.002 | | |
| 12 | 0.021 | 0.007 | | |
| 13 | 0.009 | 0.003 | | |
| 14 | 0.021 | 0.007 | | |
| 15 | 0.012 | 0.004 | | |
| 16 | 0.026 | 0.008 | | |
| 17 | 0.016 | 0.005 | | |
| 18 | 0.052 | 0.017 | | |
| 19 | 0.015 | 0.005 | | |
| 20 | 0.097 | 0.031 | | |
| 21 | 0.272 | 0.087 | | |
| 22 | 0.512 | 0.164 | | |
| Intersection | Total Crashes | Fatal and Injury Crashes | | |
| Zeitler Rd. | 0.027 | 0.011 | | |
| Snow Rd. | 0.017 | 0.007 | | |
| Skyview Dr. | 0.008 | 0.004 | | |
| Clyde Rd. South | 0.024 | 0.010 | | |
| Cameron Rd. | 0.083 | 0.034 | | |
| Clyde Rd. North | 0.123 | 0.051 | | |
| Subtotal | 1.342 | 0.457 | | |

| Existing US-95 Loop | | | | | |
|----------------------|-----|--|--|--|--|
| Total (Crashes/year) | 1.3 | | | | |
| Fatal and Injury | 0.5 | | | | |
| Property Damage Only | 0.9 | | | | |

| Proposed Modified W4 Alternative and Existing US-95 Loop | | | | |
|--|------|--|--|--|
| Total (Crashes/year) | 12.1 | | | |
| Fatal and Injury | 5.7 | | | |
| Property Damage Only | 6.4 | | | |

| | Worksheet 1A General Information and Input Da | ta for Rural Multilane Roa | adway Segments | | |
|---|--|---|--|--|--|
| Ger | neral Information | Location Information | | | |
| Analyst Agency or Company Date Performed | CJA, KJB ITD District 2 12/30/14 | Roadway Roadway Section Jurisdiction Analysis Year | US-95, Thorncreek to Moscow Modified W4 Rural - Divided Latah Co, ID 2026 | | |
| | Input Data | Base Conditions | Site Conditions | | |
| Roadway type (divided / undivided) | | Undivided | Divided | | |
| Length of segment, L (mi) | | | 6.35 | | |
| AADT (veh/day) | AADT _{MAX} = 89,300 (veh/day) | - | 6,845 | | |
| Lane width (ft) | | 12 | 12 | | |
| Shoulder width (ft) - right shoulder width for di | ivided [if differ for directions of travel, use average width] | 8 | 8 | | |
| Shoulder type - right shoulder type for divided | | Paved | Paved | | |
| Median width (ft) - for divided only | | 30 | 40 | | |
| Side Slopes - for undivided only | | 1:7 or flatter | Not Applicable | | |
| Lighting (present/not present) | | Not Present | Not Present | | |
| Auto speed enforcement (present/not presen | t) | Not Present | Not Present | | |
| Calibration Factor, Cr | | 1.00 | 1.00 | | |

| Worksheet 1B (a) Crash Modification Factors for Rural Multilane Divided Roadway Segments | | | | | | |
|--|------------------------------|----------------------|---------------------|--|--------------------|--|
| (1) | (2) | (3) | (4) | (5) | (6) | |
| CMF for Lane Width | CMF for Right Shoulder Width | CMF for Median Width | CMF for Lighting | CMF for Automated Speed Enforcement | Combined CMF | |
| CMF 1rd | CMF 2rd | CMF 3rd | CMF 4rd | CMF 5rd | CMF comb | |
| from Equation 11-16 | from Table 11-17 | from Table 11-18 | from Equation 11-17 | from Section 11.7.2 | (1)*(2)*(3)*(4)*(5 | |
| 1.00 | 1.00 | 0.99 | 1.00 | 1.00 | 0.99 | |

| (1) | | (2) | | (3) | (4) | (5) | (6) | (7) |
|--|-----------------|----------------|-------|--------------------|---------------------|---------------|------------------------------|---|
| Crash Severity Level | S | PF Coefficient | s | N spf rd | Overdispersion | Combined CMFs | Calibration | Predicted average crash |
| | from Table 11-5 | | | Parameter, k | (6) from Worksheet | Factor, Cr | frequency, N predicted ra(d) | |
| | а | b | С | from Equation 11-9 | from Equation 11-10 | 1B (a) | | (3)*(5)*(6) |
| Total | -9.025 | 1.049 | 1.549 | 8.065 | 0.033 | 0.99 | 1.00 | 7.984 |
| Fatal and Injury (FI) | -8.837 | 0.958 | 1.687 | 4.357 | 0.029 | 0.99 | 1.00 | 4.314 |
| Fatal and Injury ^a (FI ^a) | -8.505 | 0.874 | 1.740 | 2.892 | 0.028 | 0.99 | 1.00 | 2.863 |
| Property Damage Only (PDO) | - | - | - | - | - | - | - | (7) _{TOTAL} - (7) _{FI} 3.670 |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|--------------------------|---|---|--|--|---|---|--|---|
| of C | Proportion of Collision Type(TOTAL) | N predicted rs(d) (TOTAL) (crashes/year) | Proportion of Collision Type(FI) | N predicted rs(d) (FI) (crashes/year) | Proportion of Collision Type (FI ^a) | N predicted rs (FI ^a) (crashes/year) | Proportion of Collision Type (PDO) | N predicted re(d) (PDO) (crashes/year) |
| | from Table | (7)TOTAL from Worksheet 1C | from Table 11- | (7)FI from Worksheet | from Table | (7) FI ^a from Worksheet | from Table | (7)PDO from Worksheet 1C |
| | 11-6 | (a) | 6 | 1C (a) | 11-6 | 1C (a) | 11-6 | (a) |
| Total | 1.000 | 7.984 | 1.000 | 4.314 | 1.000 | 2.863 | 1.000 | 3.670 |
| | | (2)*(3) _{TOTAL} | | (4)x(5) _{F1} | | (6)*(7) _{F1} ^a | | (8)*(9) PDO |
| Head-on collision | 0.006 | 0.048 | 0.013 | 0.056 | 0.018 | 0.052 | 0.002 | 0.007 |
| Sideswipe collision | 0.043 | 0.343 | 0.027 | 0.116 | 0.022 | 0.063 | 0.053 | 0.195 |
| Rear-end collision | 0.116 | 0.926 | 0.163 | 0.703 | 0.114 | 0.326 | 0.088 | 0.323 |
| Angle collision | 0.043 | 0.343 | 0.048 | 0.207 | 0.045 | 0.129 | 0.041 | 0.150 |
| Single-vehicle collision | 0.768 | 6.132 | 0.727 | 3.136 | 0.778 | 2.228 | 0.792 | 2.907 |
| Other collision | 0.024 | 0.192 | 0.022 | 0.095 | 0.023 | 0.066 | 0.024 | 0.088 |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| | Worksheet 1E Summary Results for Rural Multila | ne Roadway Segments | | |
|--|--|-----------------------------|-------------------------------------|--|
| (1) | (2) | (3) | (4) Crash rate (crashes/mi/year) | |
| Crash severity level | Predicted average crash frequency (crashes/year) | Roadway segment length (mi) | | |
| | (7) from Worksheet 1C (a) or (b) | | (2)/(3) | |
| Fotal | 7.984 | 6.4 | 1.3 | |
| Fatal and Injury (FI) | 4.314 | 6.4 | 0.7 | |
| Fatal and Injury ^a (FI ^a) | 2.863 | 6.4 | 0.5 | |
| Property Damage Only (PDO) | 3.670 | 6.4 | 0.6 | |

| Proposed Modified W4 Alternative | | | | | | |
|----------------------------------|---------------|--------------------------|--|--|--|--|
| Segment | Total Crashes | Fatal and Injury Crashes | | | | |
| Rural Divided | 8.121 | 4.381 | | | | |
| Suburban | 1.317 | 0.396 | | | | |
| Intersection | Total Crashes | Fatal and Injury Crashes | | | | |
| Eid Rd. | 0.413 | 0.177 | | | | |
| Jacksha Rd. | 0.388 | 0.165 | | | | |
| Old US-95 South | 0.259 | 0.083 | | | | |
| Old US-95 North | 0.442 | 0.168 | | | | |
| Subtotal | 10.940 | 5.371 | | | | |

| Proposed Modified | W4 Alternative |
|----------------------|----------------|
| Total (Crashes/year) | 10.9 |
| Fatal and Injury | 5.4 |
| Property Damage Only | 5.6 |

| Existing US-95 | | | | | | |
|-----------------|---------------|--------------------------|--|--|--|--|
| Segment | Total Crashes | Fatal and Injury Crashes | | | | |
| 11 | 0.007 | 0.002 | | | | |
| 12 | 0.021 | 0.007 | | | | |
| 13 | 0.009 | 0.003 | | | | |
| 14 | 0.021 | 0.007 | | | | |
| 15 | 0.012 | 0.004 | | | | |
| 16 | 0.026 | 0.008 | | | | |
| 17 | 0.016 | 0.005 | | | | |
| 18 | 0.052 | 0.017 | | | | |
| 19 | 0.015 | 0.005 | | | | |
| 20 | 0.097 | 0.031 | | | | |
| 21 | 0.273 | 0.088 | | | | |
| 22 | 0.517 | 0.166 | | | | |
| Intersection | Total Crashes | Fatal and Injury Crashes | | | | |
| Zeitler Rd. | 0.027 | 0.011 | | | | |
| Snow Rd. | 0.017 | 0.007 | | | | |
| Skyview Dr. | 0.008 | 0.004 | | | | |
| Clyde Rd. South | 0.024 | 0.010 | | | | |
| Cameron Rd. | 0.084 | 0.035 | | | | |
| Clyde Rd. North | 0.124 | 0.051 | | | | |
| Subtotal | 1.350 | 0.460 | | | | |

| Existing US- | 95 Loop |
|----------------------|---------|
| Total (Crashes/year) | 1.3 |
| Fatal and Injury | 0.5 |
| Property Damage Only | 0.9 |

| Proposed Modified W4 Alternative and Existing US-95 Loop | | | | | |
|--|------|--|--|--|--|
| Total (Crashes/year) | 12.3 | | | | |
| Fatal and Injury | 5.8 | | | | |
| Property Damage Only | 6.5 | | | | |

| | Worksheet 1A General Information and Input Da | ta for Rural Multilane Roady | way Segments | | |
|---|---|-------------------------------|--|--|--|
| Genera | Information | Location Information | | | |
| Analyst Agency or Company | CJA, KJB ITD District 2 | Roadway Roadway Section | US-95, Thorncreek to Moscow Modified W4 Rural - Divided | | |
| Date Performed | 12/30/14 | Jurisdiction Analysis Year | Latah Co, ID 2027 | | |
| Ing | out Data | Base Conditions | Site Conditions | | |
| Roadway type (divided / undivided) | | Undivided | Divided | | |
| Length of segment, L (mi) | | | 6.35 | | |
| AADT (veh/day) | AADT _{MAX} = 89,300 (veh/day) | - | 6,957 | | |
| Lane width (ft) | Autoria and and a second and a second and a later | 12 | 12 | | |
| Shoulder width (ft) - right shoulder width for divide | d [if differ for directions of travel, use average width] | 8 | 8 | | |
| Shoulder type - right shoulder type for divided | | Paved | Paved | | |
| Median width (ft) - for divided only | | 30 | 40 | | |
| Side Slopes - for undivided only | | 1:7 or flatter | Not Applicable | | |
| Lighting (present/not present) | | Not Present | Not Present | | |
| Auto speed enforcement (present/not present) | | Not Present | Not Present | | |
| Calibration Factor, Cr | | 1.00 | 1.00 | | |

| Worksheet 1B (a) Crash Modification Factors for Rural Multilane Divided Roadway Segments | | | | | | | |
|--|------------------------------|----------------------|---------------------|--|--------------------|--|--|
| (1) | (2) | (3) | (4) | (5) | (6) | | |
| CMF for Lane Width | CMF for Right Shoulder Width | CMF for Median Width | CMF for Lighting | CMF for Automated Speed Enforcement | Combined CMF | | |
| CMF 1rd | CMF 2rd | CMF 3rd | CMF 4rd | CMF 5rd | CMF comb | | |
| from Equation 11-16 | from Table 11-17 | from Table 11-18 | from Equation 11-17 | from Section 11.7.2 | (1)*(2)*(3)*(4)*(5 | | |
| 1.00 | 1.00 | 0.99 | 1.00 | 1.00 | 0.99 | | |

| (1) (2) | | (3) | (4) | (5) | (6) | (7) | | |
|--|-------------------------------------|-------|----------|--------------------|---------------------|---------------------------|--|---|
| Crash Severity Level | SPF Coefficients from Table 11-5 | | N spf rd | Overdispersion | Combined CMFs | Calibration Factor, Cr | Predicted average crash frequency, N predicted raid | |
| | | | | Parameter, k | (6) from Worksheet | | | |
| | а | b | С | from Equation 11-9 | from Equation 11-10 | 1B (a) | | (3)*(5)*(6) |
| Total | -9.025 | 1.049 | 1.549 | 8.203 | 0.033 | 0.99 | 1.00 | 8.121 |
| Fatal and Injury (FI) | -8.837 | 0.958 | 1.687 | 4.425 | 0.029 | 0.99 | 1.00 | 4.381 |
| Fatal and Injury ^a (FI ^a) | -8.505 | 0.874 | 1.740 | 2.933 | 0.028 | 0.99 | 1.00 | 2.904 |
| Property Damage Only (PDO) | - | - | - | - | - | | - | (7) _{TOTAL} - (7) _{FI} 3.740 |

| | Workshee | et 1D (a) Crashes by Seve | erity Level and | Collision Type for Ru | ral Multilane | Divided Roadway Segr | nents | |
|--------------------------|---|---|--|--|---|---|--|---|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| Collision Type | Proportion of Collision Type(TOTAL) | N predicted rs(d) (TOTAL) (crashes/year) | Proportion of Collision Type(FI) | N predicted rs(d) (Fi) (crashes/year) | Proportion of Collision Type (FI ^a) | N predicted rs (FI ^a) (crashes/year) | Proportion of Collision Type (PDO) | N predicted rs(d) (PDO) (crashes/year) |
| | from Table | (7)TOTAL from Worksheet 1C | from Table 11- | (7)FI from Worksheet | from Table | (7) FI ^a from Worksheet | from Table | (7)PDO from Worksheet 1C |
| | 11-6 | (a) | 6 | 1C (a) | 11-6 | 1C (a) | 11-6 | (a) |
| Total | 1.000 | 8.121 | 1.000 | 4.381 | 1.000 | 2.904 | 1.000 | 3.740 |
| | | (2)*(3) _{TOTAL} | | (4)x(5) _{F1} | | (6)*(7) _{FI} ^a | | (8)*(9) PDO |
| Head-on collision | 0.006 | 0.049 | 0.013 | 0.057 | 0.018 | 0.052 | 0.002 | 0.007 |
| Sideswipe collision | 0.043 | 0.349 | 0.027 | 0.118 | 0.022 | 0.064 | 0.053 | 0.198 |
| Rear-end collision | 0.116 | 0.942 | 0.163 | 0.714 | 0.114 | 0.331 | 0.088 | 0.329 |
| Angle collision | 0.043 | 0.349 | 0.048 | 0.210 | 0.045 | 0.131 | 0.041 | 0.153 |
| Single-vehicle collision | 0.768 | 6.237 | 0.727 | 3.185 | 0.778 | 2.259 | 0.792 | 2.962 |
| Other collision | 0.024 | 0.195 | 0.022 | 0.096 | 0.023 | 0.067 | 0.024 | 0.090 |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| Worksheet 1E Summary Results for Rural Multilane Roadway Segments | | | | | | |
|---|--|-----------------------------|------------------------------|--|--|--|
| (1) | (2) | (3) | (4) | | | |
| Crash severity level | Predicted average crash frequency (crashes/year) | Roadway segment length (mi) | Crash rate (crashes/mi/year) | | | |
| | (7) from Worksheet 1C (a) or (b) | | (2)/(3) | | | |
| Fotal | 8.121 | 6.4 | 1.3 | | | |
| Fatal and Injury (FI) | 4.381 | 6.4 | 0.7 | | | |
| Fatal and Injury ^a (FI ^a) | 2.904 | 6.4 | 0.5 | | | |
| Property Damage Only (PDO) | 3.740 | 6.4 | 0.6 | | | |

| Segment | Total Crashes | Fatal and Injury Crashes | | |
|-----------------|---------------|--------------------------|--|--|
| Rural Divided | 8.259 4.4 | | | |
| Suburban | 1.338 | 0.402 | | |
| Intersection | Total Crashes | Fatal and Injury Crashes | | |
| Eid Rd. | 0.421 | 0.181 | | |
| Jacksha Rd. | 0.396 | 0.168 | | |
| Old US-95 South | 0.265 | | | |
| Old US-95 North | 0.450 | 0.171 | | |
| Subtotal | 11.129 | 5.456 | | |

| Proposed Modified W4 Alternative | | | | |
|----------------------------------|------|--|--|--|
| Total (Crashes/year) | 11.1 | | | |
| Fatal and Injury | 5.5 | | | |
| Property Damage Only | 5.7 | | | |

| Existing US-95 | | | |
|-----------------------|---------------|--------------------------|--|
| Segment | Total Crashes | Fatal and Injury Crashes | |
| 11 | 0.007 | 0.002 | |
| 12 | 0.021 | 0.007 | |
| 13 | 0.009 | 0.003 | |
| 14 | 0.021 | 0.007 | |
| 15 | 0.012 | 0.004 | |
| 16 | 0.026 | 0.008 | |
| 17 | 0.016 | 0.005 | |
| 18 | 0.052 | 0.017 | |
| 19 | 0.015 | 0.005 | |
| 20 | 0.098 | 0.031 | |
| 21 | 0.275 | 0.088 | |
| 22 | 0.521 | 0.167 | |
| Intersection | Total Crashes | Fatal and Injury Crashes | |
| Zeitler Rd. | 0.027 | 0.011 | |
| Snow Rd. | 0.017 | 0.007 | |
| Skyview Dr. | 0.009 | 0.004 | |
| Clyde Rd. South 0.024 | | 0.010 | |
| Cameron Rd. | 0.084 | 0.035 | |
| Clyde Rd. North | 0.124 | 0.052 | |
| Subtotal | 1.358 | 0.463 | |

| Existing US-95 Loop | | | | |
|----------------------|-----|--|--|--|
| Total (Crashes/year) | 1.4 | | | |
| Fatal and Injury | 0.5 | | | |
| Property Damage Only | 0.9 | | | |

| Proposed Modified W4 Alternative and Existing US-95 Loop | | | | |
|--|------|--|--|--|
| Total (Crashes/year) | 12.5 | | | |
| Fatal and Injury | 5.9 | | | |
| Property Damage Only | 6.6 | | | |

| | Worksheet 1A General Information and Input Da | ita for Rural Multilane Ro | adway Segments | |
|--|---|--|--|--|
| G | eneral Information | Location Information | | |
| Analyst Agency or Company Date Performed | CJA, KJB ITD District 2 12/30/14 | Roadway Roadway Section Jurisdiction | US-95, Thorncreek to Moscow Modified W4 Rural - Divided Latah Co. ID | |
| Bate i chomica | 12/00/14 | Analysis Year | 2028 | |
| | Input Data | Base Conditions | Site Conditions | |
| Roadway type (divided / undivided) | | Undivided | Divided | |
| Length of segment, L (mi) | | | 6.35 | |
| AADT (veh/day) | AADT _{MAX} = 89,300 (veh/day) | | 7,070 | |
| Lane width (ft) | | 12 | 12 | |
| Shoulder width (ft) - right shoulder width for | divided [if differ for directions of travel, use average width] | 8 | 8 | |
| Shoulder type - right shoulder type for divid | ed | Paved | Paved | |
| Median width (ft) - for divided only | | 30 | 40 | |
| Side Slopes - for undivided only | | 1:7 or flatter | Not Applicable | |
| Lighting (present/not present) | | Not Present | Not Present | |
| Auto speed enforcement (present/not prese | ent) | Not Present | Not Present | |
| Calibration Factor, Cr | | 1.00 | 1.00 | |

| Worksheet 1B (a) Crash Modification Factors for Rural Multilane Divided Roadway Segments | | | | | | |
|--|------------------------------|----------------------|---------------------|--|---------------------|--|
| (1) | (2) | (3) | (4) | (5) | (6) | |
| CMF for Lane Width | CMF for Right Shoulder Width | CMF for Median Width | CMF for Lighting | CMF for Automated Speed Enforcement | Combined CMF | |
| CMF 1rd | CMF 2rd | CMF 3rd | CMF 4rd | CMF 5rd | CMF comb | |
| from Equation 11-16 | from Table 11-17 | from Table 11-18 | from Equation 11-17 | from Section 11.7.2 | (1)*(2)*(3)*(4)*(5) | |
| 1.00 | 1.00 | 0.99 | 1.00 | 1.00 | 0.99 | |

| (1) | (2) | | (3) | (4) | (5) | (6) | (7) | |
|--|--------|----------------|-------|--------------------|---------------------|--------------------|-------------|---|
| Crash Severity Level | S | PF Coefficient | ts | N spf rd | Overdispersion | Combined CMFs | Calibration | Predicted average crash |
| | f | rom Table 11- | 5 | | Parameter, k | (6) from Worksheet | Factor, Cr | frequency, N predicted raid) |
| | а | b | С | from Equation 11-9 | from Equation 11-10 | 1B (a) | | (3)*(5)*(6) |
| Total | -9.025 | 1.049 | 1.549 | 8.343 | 0.033 | 0.99 | 1.00 | 8.259 |
| Fatal and Injury (FI) | -8.837 | 0.958 | 1.687 | 4.494 | 0.029 | 0.99 | 1.00 | 4.449 |
| Fatal and Injury ^a (FI ^a) | -8.505 | 0.874 | 1.740 | 2.975 | 0.028 | 0.99 | 1.00 | 2.945 |
| Property Damage Only (PDO) | | - | | | - | | | (7) _{TOTAL} - (7) _{FI} 3.810 |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|--------------------------|---|----------------------------|--|--|---|---|--|---|
| Collision Type | Proportion of Collision Type(TOTAL) | | Proportion of Collision Type(FI) | N predicted rs(d) (FI) (crashes/year) | Proportion of Collision Type (FI ^a) | N predicted rs (FI ^a) (crashes/year) | Proportion of Collision Type (PDO) | N predicted rs(d) (PDO) (crashes/year) |
| | from Table | (7)TOTAL from Worksheet 1C | from Table 11- | (7)FI from Worksheet | from Table | (7) FI ^a from Worksheet | from Table | (7)PDO from Worksheet 1C |
| | 11-6 | (a) | 6 | 1C (a) | 11-6 | 1C (a) | 11-6 | (a) |
| Total | 1.000 | 8.259 | 1.000 | 4.449 | 1.000 | 2.945 | 1.000 | 3.810 |
| | | (2)*(3) _{TOTAL} | | (4)x(5) _{F1} | | (6)*(7) _{F1} ^a | | (8)*(9) PDO |
| Head-on collision | 0.006 | 0.050 | 0.013 | 0.058 | 0.018 | 0.053 | 0.002 | 0.008 |
| Sideswipe collision | 0.043 | 0.355 | 0.027 | 0.120 | 0.022 | 0.065 | 0.053 | 0.202 |
| Rear-end collision | 0.116 | 0.958 | 0.163 | 0.725 | 0.114 | 0.336 | 0.088 | 0.335 |
| Angle collision | 0.043 | 0.355 | 0.048 | 0.214 | 0.045 | 0.133 | 0.041 | 0.156 |
| Single-vehicle collision | 0.768 | 6.343 | 0.727 | 3.235 | 0.778 | 2.291 | 0.792 | 3.017 |
| Other collision | 0.024 | 0.198 | 0.022 | 0.098 | 0.023 | 0.068 | 0.024 | 0.091 |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| Worksheet 1E Summary Results for Rural Multilane Roadway Segments | | | | | | |
|---|--|-----------------------------|--|--|--|--|
| (1) | (2) | (3) | (4) | | | |
| Crash severity level | Predicted average crash frequency (crashes/year) | Roadway segment length (mi) | Crash rate (crashes/mi/year) (2)/(3) 1.3 | | | |
| | (7) from Worksheet 1C (a) or (b) | | | | | |
| Total | 8.259 | 6.4 | | | | |
| Fatal and Injury (FI) | 4.449 | 6.4 | 0.7 | | | |
| Fatal and Injury ^a (FI ^a) | 2.945 | 6.4 | 0.5 | | | |
| Property Damage Only (PDO) | 3.810 | 6.4 | 0.6 | | | |

| Proposed Modified W4 Alternative | | | | |
|----------------------------------|---------------|--------------------------|--|--|
| Segment | Total Crashes | Fatal and Injury Crashes | | |
| Rural Divided | 8.400 | 4.519 | | |
| Suburban | 1.360 | 0.408 | | |
| Intersection | Total Crashes | Fatal and Injury Crashes | | |
| Eid Rd. | 0.430 | 0.184 | | |
| Jacksha Rd. | 0.404 0.1 | | | |
| Old US-95 South | 0.270 | 0.087 | | |
| Old US-95 North | 0.458 | 0.174 | | |
| Subtotal | 11.322 | 5.542 | | |

| Proposed Modified W4 Alternative | | | | |
|----------------------------------|------|--|--|--|
| Total (Crashes/year) | 11.3 | | | |
| Fatal and Injury | 5.5 | | | |
| Property Damage Only | 5.8 | | | |

| Existing US-95 | | | |
|-----------------|---------------|--------------------------|--|
| Segment | Total Crashes | Fatal and Injury Crashes | |
| 11 | 0.007 | 0.002 | |
| 12 | 0.021 | 0.007 | |
| 13 | 0.009 | 0.003 | |
| 14 | 0.021 | 0.007 | |
| 15 | 0.012 | 0.004 | |
| 16 | 0.026 | 0.008 | |
| 17 | 0.016 | 0.005 | |
| 18 | 0.052 | 0.017 | |
| 19 | 0.015 | 0.005 | |
| 20 | 0.098 | 0.032 | |
| 21 | 0.276 0.0 | | |
| 22 | 0.526 | 0.169 | |
| Intersection | Total Crashes | Fatal and Injury Crashes | |
| Zeitler Rd. | 0.027 | 0.011 | |
| Snow Rd. | 0.017 | 0.007 | |
| Skyview Dr. | 0.009 | 0.004 | |
| Clyde Rd. South | 0.024 | 0.010 | |
| Cameron Rd. | 0.084 | 0.035 | |
| Clyde Rd. North | 0.125 | 0.052 | |
| Subtotal | 1.367 | 0.466 | |

| Existing US-95 Loop | | | | | |
|----------------------|-----|--|--|--|--|
| Total (Crashes/year) | 1.4 | | | | |
| Fatal and Injury | 0.5 | | | | |
| Property Damage Only | 0.9 | | | | |

| Proposed Modified W4 Alternative and Existing US-95 Loop | | | | |
|--|------|--|--|--|
| Total (Crashes/year) | 12.7 | | | |
| Fatal and Injury | 6.0 | | | |
| Property Damage Only | 6.7 | | | |

| | Worksheet 1A General Information and Input Da | ta for Rural Multilane Road | Iway Segments | | |
|---|--|-------------------------------|--|--|--|
| Gene | ral Information | Location Information | | | |
| Analyst Agency or Company | Dmpany CJA, KJB Roadway ITD District 2 Roadway Section | | US-95, Thorncreek to Moscow Modified W4 Rural - Divided | | |
| Date Performed | 12/30/14 | Jurisdiction Analysis Year | Latah Co, ID 2029 | | |
| | Input Data | Base Conditions | Site Conditions | | |
| Roadway type (divided / undivided) | | Undivided | Divided | | |
| Length of segment, L (mi) | | | 6.35 | | |
| AADT (veh/day) | AADT _{MAX} = 89,300 (veh/day) | - | 7,185 | | |
| Lane width (ft) | •••••••• | 12 | 12 | | |
| Shoulder width (ft) - right shoulder width for divi | ided [if differ for directions of travel, use average width] | 8 | 8 | | |
| Shoulder type - right shoulder type for divided | | Paved | Paved | | |
| Median width (ft) - for divided only | | 30 | 40 | | |
| Side Slopes - for undivided only | | 1:7 or flatter | Not Applicable | | |
| Lighting (present/not present) | | Not Present | Not Present | | |
| Auto speed enforcement (present/not present) | | Not Present | Not Present | | |
| Calibration Factor, Cr | | 1.00 | 1.00 | | |

| Worksheet 1B (a) – Crash Modification Factors for Rural Multilane Divided Roadway Segments | | | | | |
|--|------------------------------|----------------------|---------------------|--|---------------------|
| (1) | (2) | (3) | (4) | (5) | (6) |
| CMF for Lane Width | CMF for Right Shoulder Width | CMF for Median Width | CMF for Lighting | CMF for Automated Speed Enforcement | Combined CMF |
| CMF 1rd | CMF 2rd | CMF 3rd | CMF 4rd | CMF 5rd | CMF comb |
| from Equation 11-16 | from Table 11-17 | from Table 11-18 | from Equation 11-17 | from Section 11.7.2 | (1)*(2)*(3)*(4)*(5) |
| 1.00 | 1.00 | 0.99 | 1.00 | 1.00 | 0.99 |

| (1) | (2) | | (3) | (4) | (5) | (6) | (7) | |
|--|--------|---------------|-------|--------------------|---------------------|--------------------|-------------|--|
| Crash Severity Level | S | PF Coefficien | ts | N spf rd | Overdispersion | Combined CMFs | Calibration | Predicted average crash |
| | f | rom Table 11- | 5 | | Parameter, k | (6) from Worksheet | Factor, Cr | frequency, N predicted ra(d) |
| | а | b | С | from Equation 11-9 | from Equation 11-10 | 1B (a) | | (3)*(5)*(6) |
| Total | -9.025 | 1.049 | 1.549 | 8.485 | 0.033 | 0.99 | 1.00 | 8.400 |
| Fatal and Injury (FI) | -8.837 | 0.958 | 1.687 | 4.564 | 0.029 | 0.99 | 1.00 | 4.519 |
| Fatal and Injury ^a (FI ^a) | -8.505 | 0.874 | 1.740 | 3.017 | 0.028 | 0.99 | 1.00 | 2.987 |
| Property Damage Only (PDO) | | | | | - | | · | (7) _{TOTAL} - (7) _{FI} |
| roperty barnage only (1 bo) | | | | | | | | 3.882 |

| | Workshee | et 1D (a) Crashes by Seve | erity Level and | Collision Type for Ru | ral Multilane | Divided Roadway Segn | nents | |
|--------------------------|---|---|--|--|----------------------------|---|--|---|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| Collision Type | Proportion of Collision Type(TOTAL) | N predicted rs(d) (TOTAL) (crashes/year) | Proportion of Collision Type(FI) | N predicted rs(d) (FI) (crashes/year) | Proportion of Collision | N predicted rs (FI ^a) (crashes/year) | Proportion of Collision Type (PDO) | N predicted rs(d) (PDO) (crashes/year) |
| | from Table 11-6 | (7)TOTAL from Worksheet 1C (a) | from Table 11- 6 | (7)⊧i from Worksheet 1C (a) | from Table 11-6 | (7) _{Fl} ^a from Worksheet 1C (a) | from Table 11-6 | (7)PDO from Worksheet 1C (a) |
| Total | 1.000 | 8.400 | 1.000 | 4.519 | 1.000 | 2.987 | 1.000 | 3.882 |
| | | (2)*(3) _{TOTAL} | | (4)x(5) _{F1} | | (6)*(7) _{F1} ^a | | (8)*(9) PDO |
| Head-on collision | 0.006 | 0.050 | 0.013 | 0.059 | 0.018 | 0.054 | 0.002 | 0.008 |
| Sideswipe collision | 0.043 | 0.361 | 0.027 | 0.122 | 0.022 | 0.066 | 0.053 | 0.206 |
| Rear-end collision | 0.116 | 0.974 | 0.163 | 0.737 | 0.114 | 0.341 | 0.088 | 0.342 |
| Angle collision | 0.043 | 0.361 | 0.048 | 0.217 | 0.045 | 0.134 | 0.041 | 0.159 |
| Single-vehicle collision | 0.768 | 6.451 | 0.727 | 3.285 | 0.778 | 2.324 | 0.792 | 3.074 |
| Other collision | 0.024 | 0.202 | 0.022 | 0.099 | 0.023 | 0.069 | 0.024 | 0.093 |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| Worksheet 1E – Summary Results for Rural Multilane Roadway Segments | | | | | |
|---|--|-----------------------------|------------------------------|--|--|
| (1) | (2) | (3) | (4) | | |
| Crash severity level | Predicted average crash frequency (crashes/year) | Roadway segment length (mi) | Crash rate (crashes/mi/year) | | |
| | (7) from Worksheet 1C (a) or (b) | 7 | (2)/(3) | | |
| Total | 8.400 | 6.4 | 1.3 | | |
| Fatal and Injury (FI) | 4.519 | 6.4 | 0.7 | | |
| Fatal and Injury ^a (FI ^a) | 2.987 | 6.4 | 0.5 | | |
| Property Damage Only (PDO) | 3.882 | 6.4 | 0.6 | | |

| Proposed Modified W4 Alternative | | | | |
|----------------------------------|---------------|--------------------------|--|--|
| Segment | Total Crashes | Fatal and Injury Crashes | | |
| Rural Divided | 8.544 | 4.589 | | |
| Suburban | 1.382 0.41 | | | |
| Intersection | Total Crashes | Fatal and Injury Crashes | | |
| Eid Rd. | 0.439 | 0.187 | | |
| Jacksha Rd. | 0.412 | 0.175 | | |
| Old US-95 South 0.275 | | 0.088 | | |
| Old US-95 North | 0.466 | 0.177 | | |
| Subtotal | 11.518 | 5.630 | | |

| Proposed Modified W4 Alternative | | | | |
|----------------------------------|------|--|--|--|
| Total (Crashes/year) | 11.5 | | | |
| Fatal and Injury | 5.6 | | | |
| Property Damage Only | 5.9 | | | |

| Existing US-95 | | | |
|-----------------|---------------|--------------------------|--|
| Segment | Total Crashes | Fatal and Injury Crashes | |
| 11 | 0.007 | 0.002 | |
| 12 | 0.021 | 0.007 | |
| 13 | 0.009 | 0.003 | |
| 14 | 0.021 | 0.007 | |
| 15 | 0.012 | 0.004 | |
| 16 | 0.026 | 0.008 | |
| 17 | 0.016 | 0.005 | |
| 18 | 0.052 | 0.017 | |
| 19 | 0.015 | 0.005 | |
| 20 | 0.099 | 0.032 | |
| 21 | 21 0.278 | | |
| 22 | 0.531 | 0.171 | |
| Intersection | Total Crashes | Fatal and Injury Crashes | |
| Zeitler Rd. | 0.027 | 0.011 | |
| Snow Rd. | 0.017 | 0.007 | |
| Skyview Dr. | 0.009 | 0.004 | |
| Clyde Rd. South | 0.024 | 0.010 | |
| Cameron Rd. | 0.085 | 0.035 | |
| Clyde Rd. North | 0.125 | 0.052 | |
| Subtotal | 1.376 | 0.469 | |

| Existing US-95 Loop | | | | | |
|----------------------|-----|--|--|--|--|
| Total (Crashes/year) | 1.4 | | | | |
| Fatal and Injury | 0.5 | | | | |
| Property Damage Only | 0.9 | | | | |

| Proposed Modified W4 Alternative and Existing US-95 Loop | | | | |
|--|------|--|--|--|
| Total (Crashes/year) | 12.9 | | | |
| Fatal and Injury | 6.1 | | | |
| Property Damage Only | 6.8 | | | |

| | Worksheet 1A General Information and Input Da | ta for Rural Multilane Ro | adway Segments | |
|--|---|---|--|--|
| (| General Information | Location Information | | |
| Analyst Agency or Company Date Performed | CJA, KJB ITD District 2 12/30/14 | Roadway Roadway Section Jurisdiction Analysis Year | US-95, Thorncreek to Moscow Modified W4 Rural - Divided Latah Co, ID 2030 | |
| | Input Data | Base Conditions | Site Conditions | |
| Roadway type (divided / undivided) | | Undivided | Divided | |
| Length of segment, L (mi) | | | 6.35 | |
| AADT (veh/day) | AADT _{MAX} = 89,300 (veh/day) | - | 7,302 | |
| Lane width (ft) | | 12 | 12 | |
| Shoulder width (ft) - right shoulder width fo | r divided [if differ for directions of travel, use average width] | 8 | 8 | |
| Shoulder type - right shoulder type for divis | ded | Paved | Paved | |
| Median width (ft) - for divided only | | 30 | 40 | |
| Side Slopes - for undivided only | | 1:7 or flatter | Not Applicable | |
| Lighting (present/not present) | | Not Present | Not Present | |
| Auto speed enforcement (present/not pres | ent) | Not Present | Not Present | |
| Calibration Factor, Cr | | 1.00 | 1.00 | |

| Worksheet 1B (a) Crash Modification Factors for Rural Multilane Divided Roadway Segments | | | | | |
|--|------------------------------|----------------------|---------------------|--|--------------------|
| (1) | (2) | (3) | (4) | (5) | (6) |
| CMF for Lane Width | CMF for Right Shoulder Width | CMF for Median Width | CMF for Lighting | CMF for Automated Speed Enforcement | Combined CMF |
| CMF 1rd | CMF 2rd | CMF 3rd | CMF 4rd | CMF 5rd | CMF comb |
| from Equation 11-16 | from Table 11-17 | from Table 11-18 | from Equation 11-17 | from Section 11.7.2 | (1)*(2)*(3)*(4)*(5 |
| 1.00 | 1.00 | 0.99 | 1.00 | 1.00 | 0.99 |

| (1) | (2) | | (3) | (4) | (5) | (6) | (7) | |
|--|--------|----------------|----------|--------------------|---------------------|------------------------------|-------------------------|---|
| Crash Severity Level | | | N spf rd | Overdispersion | Combined CMFs | Calibration | Predicted average crash | |
| | a | rom Table 11-5 | c | from Equation 11-9 | from Equation 11-10 | (6) from Worksheet 1B (a) | Factor, Cr | (3)*(5)*(6) |
| Total | -9.025 | 1.049 | 1.549 | 8.630 | 0.033 | 0.99 | 1.00 | 8.544 |
| Fatal and Injury (FI) | -8.837 | 0.958 | 1.687 | 4.635 | 0.029 | 0.99 | 1.00 | 4.589 |
| Fatal and Injury ^a (FI ^a) | -8.505 | 0.874 | 1.740 | 3.060 | 0.028 | 0.99 | 1.00 | 3.030 |
| Property Damage Only (PDO) | | - | | | - | - | | (7) _{TOTAL} - (7) _{F1} 3.955 |

| | Workshe | et 1D (a) Crashes by Seve | erity Level and | Collision Type for Ru | irai Multilane | Divided Roadway Segr | nents | |
|--------------------------|---|---|--|--|---|---|--|---|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| Collision Type | Proportion of Collision Type(TOTAL) | N predicted rs(d) (TOTAL) (crashes/year) | Proportion of Collision Type(FI) | N predicted rs(d) (FI) (crashes/year) | Proportion of Collision Type (Fl ^a) | N predicted rs (FI ^a) (crashes/year) | Proportion of Collision Type (PDO) | N predicted rs(d) (PDO) (crashes/year) |
| | from Table | (7)TOTAL from Worksheet 1C | from Table 11- | (7)FI from Worksheet | from Table | (7) FI ^a from Worksheet | from Table | (7)PDO from Worksheet 1C |
| | 11-6 | (a) | 6 | 1C (a) | 11-6 | 1C (a) | 11-6 | (a) |
| Total | 1.000 | 8.544 | 1.000 | 4.589 | 1.000 | 3.030 | 1.000 | 3.955 |
| | | (2)*(3) _{TOTAL} | | (4)x(5) _{F1} | | (6)*(7) _{F1} ^a | | (8)*(9) PDO |
| Head-on collision | 0.006 | 0.051 | 0.013 | 0.060 | 0.018 | 0.055 | 0.002 | 0.008 |
| Sideswipe collision | 0.043 | 0.367 | 0.027 | 0.124 | 0.022 | 0.067 | 0.053 | 0.210 |
| Rear-end collision | 0.116 | 0.991 | 0.163 | 0.748 | 0.114 | 0.345 | 0.088 | 0.348 |
| Angle collision | 0.043 | 0.367 | 0.048 | 0.220 | 0.045 | 0.136 | 0.041 | 0.162 |
| Single-vehicle collision | 0.768 | 6.561 | 0.727 | 3.336 | 0.778 | 2.357 | 0.792 | 3.132 |
| Other collision | 0.024 | 0.205 | 0.022 | 0.101 | 0.023 | 0.070 | 0.024 | 0.095 |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| Worksheet 1E Summary Results for Rural Multilane Roadway Segments | | | | | |
|---|--|-----------------------------|------------------------------|--|--|
| (1) | (2) | (3) | (4) | | |
| Crash severity level | Predicted average crash frequency (crashes/year) | Roadway segment length (mi) | Crash rate (crashes/mi/year) | | |
| | (7) from Worksheet 1C (a) or (b) | 7 | (2)/(3) | | |
| Total | 8.544 | 6.4 | 1.3 | | |
| Fatal and Injury (FI) | 4.589 | 6.4 | 0.7 | | |
| Fatal and Injury ^a (FI ^a) | 3.030 | 6.4 | 0.5 | | |
| Property Damage Only (PDO) | 3.955 | 6.4 | 0.6 | | |

| Proposed Modified W4 Alternative | | | | |
|----------------------------------|---------------|--------------------------|--|--|
| Segment | Total Crashes | Fatal and Injury Crashes | | |
| Rural Divided | 8.689 | 4.660 | | |
| Suburban | 1.404 | 0.420 | | |
| Intersection | Total Crashes | Fatal and Injury Crashes | | |
| Eid Rd. | 0.447 | 0.191 | | |
| Jacksha Rd. | 0.420 | 0.178 | | |
| Old US-95 South | 0.281 | 0.090 | | |
| Old US-95 North | 0.475 | 0.180 | | |
| Subtotal | 11.717 | 5.719 | | |

| Proposed Modified W4 Alternative | | | | |
|----------------------------------|------|--|--|--|
| Total (Crashes/year) | 11.7 | | | |
| Fatal and Injury | 5.7 | | | |
| Property Damage Only | 6.0 | | | |

| Existing US-95 | | | | |
|-----------------|---------------|--------------------------|--|--|
| Segment | Total Crashes | Fatal and Injury Crashes | | |
| 11 | 0.007 | 0.002 | | |
| 12 | 0.021 | 0.007 | | |
| 13 | 0.009 | 0.003 | | |
| 14 | 0.021 | 0.007 | | |
| 15 | 0.012 | 0.004 | | |
| 16 | 0.026 | 0.008 | | |
| 17 | 0.016 | 0.005 | | |
| 18 | 0.053 | 0.017 | | |
| 19 | 0.015 | 0.005 | | |
| 20 | 0.099 | 0.032 | | |
| 21 | 0.279 | 0.090 | | |
| 22 | 0.536 | 0.172 | | |
| Intersection | Total Crashes | Fatal and Injury Crashes | | |
| Zeitler Rd. | 0.027 | 0.011 | | |
| Snow Rd. | 0.017 | 0.007 | | |
| Skyview Dr. | 0.009 | 0.004 | | |
| Clyde Rd. South | 0.024 | 0.010 | | |
| Cameron Rd. | 0.085 | 0.035 | | |
| Clyde Rd. North | 0.126 | 0.052 | | |
| Subtotal | 1.384 | 0.471 | | |

| Existing US-95 Loop | | | | |
|----------------------|-----|--|--|--|
| Total (Crashes/year) | 1.4 | | | |
| Fatal and Injury | 0.5 | | | |
| Property Damage Only | 0.9 | | | |

| Proposed Modified W4 Alternative and Existing US-95 Loop | | | | | |
|--|------|--|--|--|--|
| Total (Crashes/year) | 13.1 | | | | |
| Fatal and Injury | 6.2 | | | | |
| Property Damage Only | 6.9 | | | | |

| | Worksheet 1A General Information and Input Da | ta for Rural Multilane Road | way Segments | |
|--|---|-----------------------------|--|--|
| G | eneral Information | Location Information | | |
| Analyst Agency or Company | CJA, KJB ITD District 2 | Roadway Roadway Section | US-95, Thorncreek to Moscow Modified W4 Rural - Divided | |
| Date Performed | formed 12/30/14 Jurisdiction Analysis Year | | Latah Co, ID 2031 | |
| | Input Data | Base Conditions | Site Conditions | |
| Roadway type (divided / undivided) | | Undivided | Divided | |
| Length of segment, L (mi) | | | 6.35 | |
| AADT (veh/day) | AADT _{MAX} = 89,300 (veh/day) | - | 7,421 | |
| Lane width (ft) | | 12 | 12 | |
| Shoulder width (ft) - right shoulder width for | divided [if differ for directions of travel, use average width] | 8 | 8 | |
| Shoulder type - right shoulder type for divid | ed | Paved | Paved | |
| Median width (ft) - for divided only | | 30 | 40 | |
| Side Slopes - for undivided only | | 1:7 or flatter | Not Applicable | |
| Lighting (present/not present) | | Not Present | Not Present | |
| Auto speed enforcement (present/not prese | ent) | Not Present | Not Present | |
| Calibration Factor, Cr | | 1.00 | 1.00 | |

| Worksheet 1B (a) Crash Modification Factors for Rural Multilane Divided Roadway Segments | | | | | | |
|--|------------------------------|----------------------|---------------------|--|---------------------|--|
| (1) | (2) | (3) | (4) | (5) | (6) | |
| CMF for Lane Width | CMF for Right Shoulder Width | CMF for Median Width | CMF for Lighting | CMF for Automated Speed Enforcement | Combined CMF | |
| CMF 1rd | CMF 2rd | CMF 3rd | CMF 4rd | CMF 5rd | CMF comb | |
| from Equation 11-16 | from Table 11-17 | from Table 11-18 | from Equation 11-17 | from Section 11.7.2 | (1)*(2)*(3)*(4)*(5) | |
| 1.00 | 1.00 | 0.99 | 1.00 | 1.00 | 0.99 | |

| (1) | | (2) | | (3) | (4) | (5) | (6) | (7) |
|--|-------------------------------------|-------|----------|--------------------------------|---------------------|-------------|-----------------------------|---|
| Crash Severity Level | SPF Coefficients from Table 11-5 | | N spf rd | Overdispersion Parameter, k | Combined CMFs | Calibration | Predicted average crash | |
| | | | | | (6) from Worksheet | Factor, Cr | frequency, N predicted raid | |
| | а | b | С | from Equation 11-9 | from Equation 11-10 | 1B (a) | | (3)*(5)*(6) |
| Total | -9.025 | 1.049 | 1.549 | 8.777 | 0.033 | 0.99 | 1.00 | 8.689 |
| Fatal and Injury (FI) | -8.837 | 0.958 | 1.687 | 4.708 | 0.029 | 0.99 | 1.00 | 4.660 |
| Fatal and Injury ^a (FI ^a) | -8.505 | 0.874 | 1.740 | 3.104 | 0.028 | 0.99 | 1.00 | 3.073 |
| Property Damage Only (PDO) | | - | - | | - | | | (7) _{TOTAL} - (7) _{FI} 4.029 |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|--------------------------|---|----------------------------|--|--|--|---|--|---|
| of C Typ from | Proportion of Collision Type(TOTAL) | | Proportion of Collision Type(FI) | N predicted rs(d) (FI) (crashes/year) | Proportion of Collision Type (FI*) | N predicted rs (FI ^a) (crashes/year) | Proportion of Collision Type (PDO) | N predicted rs(d) (PDO) (crashes/year) |
| | from Table | (7)TOTAL from Worksheet 1C | from Table 11- | (7)FI from Worksheet | from Table | (7) Fl ^a from Worksheet | from Table | (7)PDO from Worksheet 1C |
| | 11-6 | (a) | 6 | 1C (a) | 11-6 | 1C (a) | 11-6 | (a) |
| Total | 1.000 | 8.689 | 1.000 | 4.660 | 1.000 | 3.073 | 1.000 | 4.029 |
| | | (2)*(3) _{TOTAL} | | (4)x(5) _{F1} | | (6)*(7) _{F1} ^a | | (8)*(9) PDO |
| Head-on collision | 0.006 | 0.052 | 0.013 | 0.061 | 0.018 | 0.055 | 0.002 | 0.008 |
| Sideswipe collision | 0.043 | 0.374 | 0.027 | 0.126 | 0.022 | 0.068 | 0.053 | 0.214 |
| Rear-end collision | 0.116 | 1.008 | 0.163 | 0.760 | 0.114 | 0.350 | 0.088 | 0.355 |
| Angle collision | 0.043 | 0.374 | 0.048 | 0.224 | 0.045 | 0.138 | 0.041 | 0.165 |
| Single-vehicle collision | 0.768 | 6.673 | 0.727 | 3.388 | 0.778 | 2.390 | 0.792 | 3.191 |
| Other collision | 0.024 | 0.209 | 0.022 | 0.103 | 0.023 | 0.071 | 0.024 | 0.097 |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| | Worksheet 1E Summary Results for Rural Multila | ne Roadway Segments | | |
|--|--|-----------------------------|------------------------------|--|
| (1) | (2) | (3) | (4) | |
| rash severity level | Predicted average crash frequency (crashes/year) | Roadway segment length (mi) | Crash rate (crashes/mi/year) | |
| | (7) from Worksheet 1C (a) or (b) | | (2)/(3) | |
| Total | 8.689 | 6.4 | 1.4 | |
| Fatal and Injury (FI) | 4.660 | 6.4 | 0.7 | |
| Fatal and Injury ^a (FI ^a) | 3.073 | 6.4 | 0.5 | |
| Property Damage Only (PDO) | 4.029 | 6.4 | 0.6 | |

| | Proposed Modified W4 Alternati | ve |
|-----------------|--------------------------------|--------------------------|
| Segment | Total Crashes | Fatal and Injury Crashes |
| Rural Divided | 8.838 | 4.733 |
| Suburban | 1.427 | 0.427 |
| Intersection | Total Crashes | Fatal and Injury Crashes |
| Eid Rd. | 0.456 | 0.194 |
| Jacksha Rd. | 0.429 | 0.181 |
| Old US-95 South | 0.287 | 0.091 |
| Old US-95 North | 0.484 | 0.183 |
| Subtotal | 11.920 | 5.810 |

| Proposed Modified W4 Alternative | | | | |
|----------------------------------|------|--|--|--|
| Total (Crashes/year) | 11.9 | | | |
| Fatal and Injury | 5.8 | | | |
| Property Damage Only | 6.1 | | | |

| Existing US-95 | | | | |
|-----------------|---------------|--------------------------|--|--|
| Segment | Total Crashes | Fatal and Injury Crashes | | |
| 11 | 0.007 | 0.002 | | |
| 12 | 0.021 | 0.007 | | |
| 13 | 0.009 | 0.003 | | |
| 14 | 0.021 | 0.007 | | |
| 15 | 0.012 | 0.004 | | |
| 16 | 0.026 | 0.008 | | |
| 17 | 0.016 | 0.005 | | |
| 18 | 0.053 | 0.017 | | |
| 19 | 0.015 | 0.005 | | |
| 20 | 0.100 | 0.032 | | |
| 21 | 0.281 | 0.090 | | |
| 22 | 0.542 | 0.174 | | |
| Intersection | Total Crashes | Fatal and Injury Crashes | | |
| Zeitler Rd. | 0.027 | 0.011 | | |
| Snow Rd. | 0.017 | 0.007 | | |
| Skyview Dr. | 0.009 | 0.004 | | |
| Clyde Rd. South | 0.024 | 0.010 | | |
| Cameron Rd. | 0.086 | 0.036 | | |
| Clyde Rd. North | 0.127 | 0.053 | | |
| Subtotal | 1.393 | 0.474 | | |

| Existing US-95 Loop | | | | |
|----------------------|-----|--|--|--|
| Total (Crashes/year) | 1.4 | | | |
| Fatal and Injury | 0.5 | | | |
| Property Damage Only | 0.9 | | | |

| Proposed Modified W4 Alternative and Existing US-95 Loop | | | | |
|--|------|--|--|--|
| Total (Crashes/year) | 13.3 | | | |
| Fatal and Injury | 6.3 | | | |
| Property Damage Only | 7.0 | | | |

| | Worksheet 1A General Information and Input Da | ta for Rural Multilane Road | Iway Segments | | |
|--|--|-------------------------------|--|--|--|
| Gener | al Information | Location Information | | | |
| Analyst Agency or Company | CJA, KJB ITD District 2 | Roadway Roadway Section | US-95, Thorncreek to Moscow Modified W4 Rural - Divided | | |
| Date Performed | 12/30/14 | Jurisdiction Analysis Year | Latah Co, ID 2032 | | |
| In | put Data | Base Conditions | Site Conditions | | |
| Roadway type (divided / undivided) | | Undivided | Divided | | |
| Length of segment, L (mi) | | | 6.35 | | |
| AADT (veh/day) | AADT _{MAX} = 89,300 (veh/day) | - | 7,541 | | |
| Lane width (ft) | | 12 | 12 | | |
| Shoulder width (ft) - right shoulder width for divid | ed [if differ for directions of travel, use average width] | 8 | 8 | | |
| Shoulder type - right shoulder type for divided | | Paved | Paved | | |
| Median width (ft) - for divided only | | 30 | 40 | | |
| Side Slopes - for undivided only | | 1:7 or flatter | Not Applicable | | |
| Lighting (present/not present) | | Not Present | Not Present | | |
| Auto speed enforcement (present/not present) | | Not Present | Not Present | | |
| Calibration Factor, Cr | | 1.00 | 1.00 | | |

| Worksheet 1B (a) Crash Modification Factors for Rural Multilane Divided Roadway Segments | | | | | | |
|--|------------------------------|----------------------|---------------------|--|---------------------|--|
| (1) | (2) | (3) | (4) | (5) | (6) | |
| CMF for Lane Width | CMF for Right Shoulder Width | CMF for Median Width | CMF for Lighting | CMF for Automated Speed Enforcement | Combined CMF | |
| CMF 1rd | CMF 2rd | CMF 3rd | CMF 4rd | CMF 5rd | CMF comb | |
| from Equation 11-16 | from Table 11-17 | from Table 11-18 | from Equation 11-17 | from Section 11.7.2 | (1)*(2)*(3)*(4)*(5) | |
| 1.00 | 1.00 | 0.99 | 1.00 | 1.00 | 0.99 | |

| (1) | | (2) | | (3) | (4) | (5) | (6) | (7) |
|--|-------------------------------------|-------|----------|--------------------------------|-------------------------------------|---------------------------|--|---|
| Crash Severity Level | SPF Coefficients from Table 11-5 | | N spf rd | Overdispersion Parameter, k | Combined CMFs (6) from Worksheet | Calibration Factor, Cr | Predicted average crash frequency, N predicted raid | |
| | | | | | | | | |
| | а | b | с | from Equation 11-9 | from Equation 11-10 | 1B (a) | 10 | (3)*(5)*(6) |
| Total | -9.025 | 1.049 | 1.549 | 8.927 | 0.033 | 0.99 | 1.00 | 8.838 |
| Fatal and Injury (FI) | -8.837 | 0.958 | 1.687 | 4.781 | 0.029 | 0.99 | 1.00 | 4.733 |
| Fatal and Injury ^a (FI ^a) | -8.505 | 0.874 | 1.740 | 3.148 | 0.028 | 0.99 | 1.00 | 3.116 |
| Property Damage Only (PDO) | - | - | - | | - | - | | (7) _{TOTAL} - (7) _{FI} 4.105 |

| | Workshee | et 1D (a) Crashes by Seve | erity Level and | Collision Type for Ru | ral Multilane | Divided Roadway Segr | nents | |
|--------------------------|---|---|--|--|---|---|--|---|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| Collision Type | Proportion of Collision Type(TOTAL) | N predicted rs(d) (TOTAL) (crashes/year) | Proportion of Collision Type(FI) | N predicted ra(d) (Fi) (crashes/year) | Proportion of Collision Type (El ^a) | N predicted rs (FI ^a) (crashes/year) | Proportion of Collision Type (PDO) | N predicted rs(d) (PDO) (crashes/year) |
| | from Table 11-6 | (7)TOTAL from Worksheet 1C (a) | from Table 11- 6 | (7)FI from Worksheet 1C (a) | from Table 11-6 | (7) _{Fl} ^a from Worksheet 1C (a) | from Table 11-6 | (7)PDO from Worksheet 1C (a) |
| Total | 1.000 | 8.838 | 1.000 | 4.733 | 1.000 | 3.116 | 1.000 | 4.105 |
| | | (2)*(3) _{TOTAL} | | (4)x(5) _{F1} | | (6)*(7) _{Fi} ^a | | (8)*(9) PDO |
| Head-on collision | 0.006 | 0.053 | 0.013 | 0.062 | 0.018 | 0.056 | 0.002 | 0.008 |
| Sideswipe collision | 0.043 | 0.380 | 0.027 | 0.128 | 0.022 | 0.069 | 0.053 | 0.218 |
| Rear-end collision | 0.116 | 1.025 | 0.163 | 0.771 | 0.114 | 0.355 | 0.088 | 0.361 |
| Angle collision | 0.043 | 0.380 | 0.048 | 0.227 | 0.045 | 0.140 | 0.041 | 0.168 |
| Single-vehicle collision | 0.768 | 6.787 | 0.727 | 3.441 | 0.778 | 2.424 | 0.792 | 3.251 |
| Other collision | 0.024 | 0.212 | 0.022 | 0.104 | 0.023 | 0.072 | 0.024 | 0.099 |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| Worksheet 1E Summary Results for Rural Multilane Roadway Segments | | | | | | |
|---|--|---------------------------------|------------------------------|--|--|--|
| (1) | (2) | (3) | (4) | | | |
| Crash severity level | Predicted average crash frequency (crashes/year) | Roadway segment length (mi) | Crash rate (crashes/mi/year) | | | |
| 5 | (7) from Worksheet 1C (a) or (b) | 7 · · · · · · · · · · · · · · · | (2)/(3) | | | |
| Total | 8.838 | 6.4 | 1.4 | | | |
| Fatal and Injury (FI) | 4.733 | 6.4 | 0.7 | | | |
| Fatal and Injury ^a (FI ^a) | 3.116 | 6.4 | 0.5 | | | |
| Property Damage Only (PDO) | 4.105 | 6.4 | 0.6 | | | |

| | Proposed Modified W4 Alternati | ve |
|-----------------|--------------------------------|--------------------------|
| Segment | Total Crashes | Fatal and Injury Crashes |
| Rural Divided | 8.989 | 4.807 |
| Suburban | 1.450 | 0.433 |
| Intersection | Total Crashes | Fatal and Injury Crashes |
| Eid Rd. | 0.465 | 0.198 |
| Jacksha Rd. | 0.438 | 0.184 |
| Old US-95 South | 0.292 | 0.093 |
| Old US-95 North | 0.493 | 0.186 |
| Subtotal | 12.126 | 5.902 |

| Proposed Modified W4 Alternative | | | | | |
|----------------------------------|------|--|--|--|--|
| Total (Crashes/year) | 12.1 | | | | |
| Fatal and Injury | 5.9 | | | | |
| Property Damage Only | 6.2 | | | | |

| Existing US-95 | | | | | |
|-----------------|---------------|--------------------------|--|--|--|
| Segment | Total Crashes | Fatal and Injury Crashes | | | |
| 11 | 0.007 | 0.002 | | | |
| 12 | 0.021 | 0.007 | | | |
| 13 | 0.009 | 0.003 | | | |
| 14 | 0.021 | 0.007 | | | |
| 15 | 0.012 | 0.004 | | | |
| 16 | 0.026 | 0.008 | | | |
| 17 | 0.016 | 0.005 | | | |
| 18 | 0.053 | 0.017 | | | |
| 19 | 0.015 | 0.005 | | | |
| 20 | 0.100 | 0.032 | | | |
| 21 | 0.282 | 0.091 | | | |
| 22 | 0.547 | 0.176 | | | |
| Intersection | Total Crashes | Fatal and Injury Crashes | | | |
| Zeitler Rd. | 0.027 | 0.011 | | | |
| Snow Rd. | 0.017 | 0.007 | | | |
| Skyview Dr. | 0.009 | 0.004 | | | |
| Clyde Rd. South | 0.024 | 0.010 | | | |
| Cameron Rd. | 0.086 | 0.036 | | | |
| Clyde Rd. North | 0.127 | 0.053 | | | |
| Subtotal | 1.402 | 0.477 | | | |

| Existing US-95 Loop | | | | | |
|----------------------|-----|--|--|--|--|
| Total (Crashes/year) | 1.4 | | | | |
| Fatal and Injury | 0.5 | | | | |
| Property Damage Only | 0.9 | | | | |

| Proposed Modified W4 Alternative and Existing US-95 Loop | | | | |
|--|------|--|--|--|
| Total (Crashes/year) | 13.5 | | | |
| Fatal and Injury | 6.4 | | | |
| Property Damage Only | 7.1 | | | |

| | Worksheet 1A General Information and Input Da | ta for Rural Multilane Road | tway Segments | | |
|--|---|-----------------------------|--|--|--|
| Gener | al Information | Location Information | | | |
| Analyst Agency or Company | CJA, KJB ITD District 2 | Roadway Roadway Section | US-95, Thorncreek to Moscow Modified W4 Rural - Divided | | |
| Date Performed | 12/30/14 Jurisdiction Analysis Year | | Latah Co, ID 2033 | | |
| Ir | nput Data | Base Conditions | Site Conditions | | |
| Roadway type (divided / undivided) | | Undivided | Divided | | |
| Length of segment, L (mi) | | | 6.35 | | |
| AADT (veh/day) | AADT _{MAX} = 89,300 (veh/day) | - | 7,664 | | |
| Lane width (ft) | | 12 | 12 | | |
| Shoulder width (ft) - right shoulder width for divid | led [if differ for directions of travel, use average width] | 8 | 8 | | |
| Shoulder type - right shoulder type for divided | | Paved | Paved | | |
| Median width (ft) - for divided only | | 30 | 40 | | |
| Side Slopes - for undivided only | | 1:7 or flatter | Not Applicable | | |
| Lighting (present/not present) | | Not Present | Not Present | | |
| Auto speed enforcement (present/not present) | | Not Present | Not Present | | |
| Calibration Factor, Cr | | 1.00 | 1.00 | | |

| Worksheet 1B (a) Crash Modification Factors for Rural Multilane Divided Roadway Segments | | | | | | | |
|--|------------------------------|----------------------|---------------------|--|---------------------|--|--|
| (1) | (2) | (3) | (4) | (5) | (6) | | |
| CMF for Lane Width | CMF for Right Shoulder Width | CMF for Median Width | CMF for Lighting | CMF for Automated Speed Enforcement | Combined CMF | | |
| CMF 1rd | CMF 2rd | CMF 3rd | CMF 4rd | CMF 5rd | CMF comb | | |
| from Equation 11-16 | from Table 11-17 | from Table 11-18 | from Equation 11-17 | from Section 11.7.2 | (1)*(2)*(3)*(4)*(5) | | |
| 1.00 | 1.00 | 0.99 | 1.00 | 1.00 | 0.99 | | |

| (1) | | (2) | | (3) | (4) | (5) | (6) | (7) |
|--|--------|-----------------|-------|--------------------|---------------------|--------------------|-------------|--|
| Crash Severity Level | S | PF Coefficien | ts | N spf rd | Overdispersion | Combined CMFs | Calibration | Predicted average crash |
| | 1 | from Table 11-5 | | | Parameter, k | (6) from Worksheet | Factor, Cr | frequency, N predicted rate |
| | а | b | С | from Equation 11-9 | from Equation 11-10 | 1B (a) | | (3)*(5)*(6) |
| Total | -9.025 | 1.049 | 1.549 | 9.079 | 0.033 | 0.99 | 1.00 | 8.989 |
| Fatal and Injury (FI) | -8.837 | 0.958 | 1.687 | 4.855 | 0.029 | 0.99 | 1.00 | 4.807 |
| Fatal and Injury ^a (FI ^a) | -8.505 | 0.874 | 1.740 | 3.192 | 0.028 | 0.99 | 1.00 | 3.160 |
| Property Damage Only (PDO) | | - | | _ | - | | - | (7) _{TOTAL} - (7) _{FI} |
| roporty barnage only (1 bo) | | | | | | | _ | 4.182 |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|--------------------------|---|---|--|--|---|---|--|---|
| Collision Type | Proportion of Collision Type(TOTAL) | N predicted rs(d) (TOTAL) (crashes/year) | Proportion of Collision Type(FI) | N predicted rs(d) (Fi) (crashes/year) | Proportion of Collision Type (FI ^a) | N predicted rs (FI ^a) (crashes/year) | Proportion of Collision Type (PDO) | N predicted rs(d) (PDO) (crashes/year) |
| | from Table | (7)TOTAL from Worksheet 1C | from Table 11- | (7)FI from Worksheet | from Table | (7) FI ^a from Worksheet | from Table | (7)PDO from Worksheet 1C |
| | 11-6 | (a) | 6 | 1C (a) | 11-6 | 1C (a) | 11-6 | (a) |
| Total | 1.000 | 8.989 | 1.000 | 4.807 | 1.000 | 3.160 | 1.000 | 4.182 |
| | | (2)*(3) _{TOTAL} | | (4)x(5) _{FI} | | (6)*(7) _{F1} ^a | | (8)*(9) PDO |
| Head-on collision | 0.006 | 0.054 | 0.013 | 0.062 | 0.018 | 0.057 | 0.002 | 0.008 |
| Sideswipe collision | 0.043 | 0.387 | 0.027 | 0.130 | 0.022 | 0.070 | 0.053 | 0.222 |
| Rear-end collision | 0.116 | 1.043 | 0.163 | 0.784 | 0.114 | 0.360 | 0.088 | 0.368 |
| Angle collision | 0.043 | 0.387 | 0.048 | 0.231 | 0.045 | 0.142 | 0.041 | 0.171 |
| Single-vehicle collision | 0.768 | 6.903 | 0.727 | 3.495 | 0.778 | 2.459 | 0.792 | 3.312 |
| Other collision | 0.024 | 0.216 | 0.022 | 0.106 | 0.023 | 0.073 | 0.024 | 0.100 |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| Worksheet 1E Summary Results for Rural Multilane Roadway Segments | | | | | | |
|---|--|-----------------------------|-------------------------------------|--|--|--|
| (1) | (2) | (3) | (4) Crash rate (crashes/mi/year) | | | |
| Crash severity level | Predicted average crash frequency (crashes/year) | Roadway segment length (mi) | | | | |
| | (7) from Worksheet 1C (a) or (b) | | (2)/(3) | | | |
| Total | 8.989 | 6.4 | 1.4 | | | |
| Fatal and Injury (FI) | 4.807 | 6.4 | 0.8 | | | |
| Fatal and Injury ^a (FI ^a) | 3.160 | 6.4 | 0.5 | | | |
| Property Damage Only (PDO) | 4.182 | 6.4 | 0.7 | | | |

| Proposed Modified W4 Alternative | | | | |
|----------------------------------|-------------------|--------------------------|--|--|
| Segment | Total Crashes | Fatal and Injury Crashes | | |
| Rural Divided | 9.142 | 4.882 | | |
| Suburban | 1.473 | 0.440 | | |
| Intersection | Total Crashes | Fatal and Injury Crashes | | |
| Eid Rd. | 0.475 | 0.202 | | |
| Jacksha Rd. | 0.446 | 0.188 | | |
| Old US-95 South | JS-95 South 0.298 | | | |
| Old US-95 North | 0.502 | 0.189 | | |
| Subtotal | 12.337 | 5.996 | | |

| Proposed Modified W4 Alternative | | | | |
|----------------------------------|------|--|--|--|
| Total (Crashes/year) | 12.3 | | | |
| Fatal and Injury | 6.0 | | | |
| Property Damage Only | 6.3 | | | |

| Existing US-95 | | | |
|-----------------|---------------|--------------------------|--|
| Segment | Total Crashes | Fatal and Injury Crashes | |
| 11 | 0.007 | 0.002 | |
| 12 | 0.021 | 0.007 | |
| 13 | 0.009 | 0.003 | |
| 14 | 0.021 | 0.007 | |
| 15 | 0.012 | 0.004 | |
| 16 | 0.026 | 0.008 | |
| 17 | 0.016 | 0.005 | |
| 18 | 0.053 | 0.017 | |
| 19 | 0.015 | 0.005 | |
| 20 | 0.101 | 0.032 | |
| 21 | 0.284 | 0.091 | |
| 22 | 0.552 | 0.177 | |
| Intersection | Total Crashes | Fatal and Injury Crashes | |
| Zeitler Rd. | 0.027 | 0.011 | |
| Snow Rd. | 0.017 | 0.007 | |
| Skyview Dr. | 0.009 | 0.004 | |
| Clyde Rd. South | 0.024 | 0.010 | |
| Cameron Rd. | 0.087 | 0.036 | |
| Clyde Rd. North | 0.128 | 0.053 | |
| Subtotal | 1.411 | 0.480 | |

| Existing US-95 Loop | | | | |
|----------------------|-----|--|--|--|
| Total (Crashes/year) | 1.4 | | | |
| Fatal and Injury | 0.5 | | | |
| Property Damage Only | 0.9 | | | |

| Proposed Modified W4 Alternative and Existing US-95 Loop | | | | |
|--|------|--|--|--|
| Total (Crashes/year) | 13.7 | | | |
| Fatal and Injury | 6.5 | | | |
| Property Damage Only | 7.3 | | | |

| | Worksheet 1A General Information and Input Da | ta for Rural Multilane Roa | dway Segments | |
|--|---|-------------------------------|--|--|
| | eneral Information | | Location Information | |
| Analyst Agency or Company | CJA, KJB ITD District 2 | Roadway Roadway Section | US-95, Thorncreek to Moscow Modified W4 Rural - Divided | |
| Date Performed | 12/30/14 | Jurisdiction Analysis Year | Latah Co, ID 2034 | |
| | Input Data | Base Conditions | Site Conditions | |
| Roadway type (divided / undivided) | | Undivided | Divided | |
| Length of segment, L (mi) | | | 6.35 | |
| AADT (veh/day) | AADT _{MAX} = 89,300 (veh/day) | - | 7,789 | |
| Lane width (ft) | | 12 | 12 | |
| Shoulder width (ft) - right shoulder width for | divided [if differ for directions of travel, use average width] | 8 | 8 | |
| Shoulder type - right shoulder type for divide | ed | Paved | Paved | |
| Median width (ft) - for divided only | | 30 | 40 | |
| Side Slopes - for undivided only | | 1:7 or flatter | Not Applicable | |
| Lighting (present/not present) | | Not Present | Not Present | |
| Auto speed enforcement (present/not prese | ent) | Not Present | Not Present | |
| Calibration Factor, Cr | | 1.00 | 1.00 | |

| Worksheet 1B (a) Crash Modification Factors for Rural Multilane Divided Roadway Segments | | | | | | |
|--|------------------------------|----------------------|---------------------|--|--------------------|--|
| (1) | (2) | (3) | (4) | (5) | (6) | |
| CMF for Lane Width | CMF for Right Shoulder Width | CMF for Median Width | CMF for Lighting | CMF for Automated Speed Enforcement | Combined CMF | |
| CMF 1rd | CMF 2rd | CMF 3rd | CMF 4rd | CMF 5rd | CMF comb | |
| from Equation 11-16 | from Table 11-17 | from Table 11-18 | from Equation 11-17 | from Section 11.7.2 | (1)*(2)*(3)*(4)*(5 | |
| 1.00 | 1.00 | 0.99 | 1.00 | 1.00 | 0.99 | |

| (1) | (2) | | (3) | (4) | (5) | (6) | (7) | |
|--|--------|----------------|-------|--------------------|---------------------|--------------------|-------------|---|
| Crash Severity Level | S | PF Coefficient | ts | N spf rd | Overdispersion | Combined CMFs | Calibration | Predicted average crash |
| | f | rom Table 11- | 5 | | Parameter, k | (6) from Worksheet | Factor, Cr | frequency, N predicted ra(d) |
| | а | b | С | from Equation 11-9 | from Equation 11-10 | 1B (a) | | (3)*(5)*(6) |
| Total | -9.025 | 1.049 | 1.549 | 9.234 | 0.033 | 0.99 | 1.00 | 9.142 |
| Fatal and Injury (FI) | -8.837 | 0.958 | 1.687 | 4.931 | 0.029 | 0.99 | 1.00 | 4.882 |
| Fatal and Injury ^a (FI ^a) | -8.505 | 0.874 | 1.740 | 3.238 | 0.028 | 0.99 | 1.00 | 3.205 |
| Property Damage Only (PDO) | - | | - | - | _ | | | (7) _{TOTAL} - (7) _{F1} 4.260 |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|--------------------------|---|---|--|--|---|---|--|---|
| Collision Type | Proportion of Collision Type(TOTAL) | N predicted rs(d) (TOTAL) (crashes/year) | Proportion of Collision Type(FI) | N predicted rs(d) (Fi) (crashes/year) | Proportion of Collision Type (Fl ^a) | N predicted rs (FI ^a) (crashes/year) | Proportion of Collision Type (PDO) | N predicted rs(d) (PDO) (crashes/year) |
| | from Table | (7)TOTAL from Worksheet 1C | from Table 11- | (7)FI from Worksheet | from Table | (7) _{Fl} ^a from Worksheet | from Table | (7)PDO from Worksheet 1C |
| | 11-6 | (a) | 6 | 1C (a) | 11-6 | 1C (a) | 11-6 | (a) |
| Total | 1.000 | 9.142 | 1.000 | 4.882 | 1.000 | 3.205 | 1.000 | 4.260 |
| | | (2)*(3) _{TOTAL} | | (4)x(5) _{F1} | | (6)*(7) _{FI} ^a | | (8)*(9) PDO |
| Head-on collision | 0.006 | 0.055 | 0.013 | 0.063 | 0.018 | 0.058 | 0.002 | 0.009 |
| Sideswipe collision | 0.043 | 0.393 | 0.027 | 0.132 | 0.022 | 0.071 | 0.053 | 0.226 |
| Rear-end collision | 0.116 | 1.060 | 0.163 | 0.796 | 0.114 | 0.365 | 0.088 | 0.375 |
| Angle collision | 0.043 | 0.393 | 0.048 | 0.234 | 0.045 | 0.144 | 0.041 | 0.175 |
| Single-vehicle collision | 0.768 | 7.021 | 0.727 | 3.549 | 0.778 | 2.494 | 0.792 | 3.374 |
| Other collision | 0.024 | 0.219 | 0.022 | 0.107 | 0.023 | 0.074 | 0.024 | 0.102 |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| Worksheet 1E – Summary Results for Rural Multilane Roadway Segments | | | | | |
|---|--|-----------------------------|---|--|--|
| (1) | (2) | (3) | (4) | | |
| Crash severity level | Predicted average crash frequency (crashes/year) | Roadway segment length (mi) | Crash rate (crashes/mi/year) (2)/(3) | | |
| | (7) from Worksheet 1C (a) or (b) | | | | |
| lotal | 9.142 | 6.4 | 1.4 | | |
| Fatal and Injury (FI) | 4.882 | 6.4 | 0.8 | | |
| Fatal and Injury ^a (FI ^a) | 3.205 | 6.4 | 0.5 | | |
| Property Damage Only (PDO) | 4.260 | 6.4 | 0.7 | | |

| Commont | Proposed Modified W4 Alternati | | | | |
|-----------------|--------------------------------|--------------------------|-------|-------|-------|
| Segment | Total Crashes | Fatal and Injury Crashes | | | |
| Rural Divided | 9.298 | 4.958 | | | |
| Suburban | 1.497 | 0.447 | | | |
| Intersection | Total Crashes | Fatal and Injury Crashes | | | |
| Eid Rd. | 0.484 | 0.206 | | | |
| Jacksha Rd. | 0.455 | 0.191 | | | |
| Old US-95 South | 5 South 0.304 | | | | |
| Old US-95 North | 0.511 0.1 | | 0.511 | 0.511 | 0.193 |
| Subtotal | 12.550 | 6.091 | | | |

| Proposed Modified W4 Alternative | | | | |
|----------------------------------|------|--|--|--|
| Total (Crashes/year) | 12.6 | | | |
| Fatal and Injury | 6.1 | | | |
| Property Damage Only | 6.5 | | | |

| Existing US-95 | | | |
|-----------------|---------------|--------------------------|--|
| Segment | Total Crashes | Fatal and Injury Crashes | |
| 11 | 0.007 | 0.002 | |
| 12 | 0.021 | 0.007 | |
| 13 | 0.009 | 0.003 | |
| 14 | 0.021 | 0.007 | |
| 15 | 0.012 | 0.004 | |
| 16 | 0.026 | 0.008 | |
| 17 | 0.016 | 0.005 | |
| 18 | 0.053 | 0.017 | |
| 19 | 0.015 | 0.005 | |
| 20 | 0.101 | 0.033 | |
| 21 | 0.285 | 0.092 | |
| 22 | 0.557 | 0.179 | |
| Intersection | Total Crashes | Fatal and Injury Crashes | |
| Zeitler Rd. | 0.028 | 0.011 | |
| Snow Rd. | 0.017 | 0.007 | |
| Skyview Dr. | 0.009 | 0.004 | |
| Clyde Rd. South | 0.024 | 0.010 | |
| Cameron Rd. | 0.087 | 0.036 | |
| Clyde Rd. North | 0.129 | 0.053 | |
| Subtotal | 1.420 | 0.483 | |

| Existing US-95 Loop | | | | |
|----------------------|-----|--|--|--|
| Total (Crashes/year) | 1.4 | | | |
| Fatal and Injury | 0.5 | | | |
| Property Damage Only | 0.9 | | | |

| Proposed Modified W4 Alternative and Existing US-95 Loop | | | | |
|--|------|--|--|--|
| Total (Crashes/year) | 14.0 | | | |
| Fatal and Injury | 6.6 | | | |
| Property Damage Only | 7.4 | | | |

| | Worksheet 1A – General Information and Input Da | ta for Rural Multilane Road | dway Segments | | |
|---|---|----------------------------------|--|--|--|
| Gen | eral Information | | Location Information | | |
| Analyst Agency or Company Date Performed | 12/30/14 Jurisdiction | | US-95, Thorncreek to Moscow Modified W4 Rural - Divided Latah Co, ID | | |
| | Input Data | Analysis Year Base Conditions | 2035 Site Conditions | | |
| Roadway type (divided / undivided) | | Undivided | Divided | | |
| Length of segment, L (mi) | | | 6.35 | | |
| AADT (veh/day) | AADT _{MAX} = 89,300 (veh/day) | - | 7,915 | | |
| Lane width (ft) | | 12 | 12 | | |
| Shoulder width (ft) - right shoulder width for di | vided [if differ for directions of travel, use average width] | 8 | 8 | | |
| Shoulder type - right shoulder type for divided | | Paved | Paved | | |
| Median width (ft) - for divided only | | 30 | 40 | | |
| Side Slopes - for undivided only | | 1:7 or flatter | Not Applicable | | |
| Lighting (present/not present) | | Not Present | Not Present | | |
| Auto speed enforcement (present/not present |) | Not Present | Not Present | | |
| Calibration Factor, Cr | | 1.00 | 1.00 | | |

| Worksheet 1B (a) Crash Modification Factors for Rural Multilane Divided Roadway Segments | | | | | | |
|--|------------------------------|----------------------|---------------------|--|--------------------|--|
| (1) | (2) | (3) | (4) | (5) | (6) | |
| CMF for Lane Width | CMF for Right Shoulder Width | CMF for Median Width | CMF for Lighting | CMF for Automated Speed Enforcement | Combined CMF | |
| CMF 1rd | CMF 2rd | CMF 3rd | CMF 4rd | CMF 5rd | CMF comb | |
| from Equation 11-16 | from Table 11-17 | from Table 11-18 | from Equation 11-17 | from Section 11.7.2 | (1)*(2)*(3)*(4)*(5 | |
| 1.00 | 1.00 | 0.99 | 1.00 | 1.00 | 0.99 | |

| (1) | (2) | | (3) | (4) | (5) | (6) | (7) | |
|--|--------|----------------|-------|--------------------|---------------------|--------------------|-------------|---|
| Crash Severity Level | S | PF Coefficient | ts | N spf rd | Overdispersion | Combined CMFs | Calibration | Predicted average crash |
| | f | rom Table 11-5 | 5 | | Parameter, k | (6) from Worksheet | Factor, Cr | frequency, N predicted ra(d) |
| | а | b | С | from Equation 11-9 | from Equation 11-10 | 1B (a) | | (3)*(5)*(6) |
| Total | -9.025 | 1.049 | 1.549 | 9.392 | 0.033 | 0.99 | 1.00 | 9.298 |
| Fatal and Injury (FI) | -8.837 | 0.958 | 1.687 | 5.008 | 0.029 | 0.99 | 1.00 | 4.958 |
| Fatal and Injury ^a (Fi ^a) | -8.505 | 0.874 | 1.740 | 3.284 | 0.028 | 0.99 | 1.00 | 3.251 |
| Property Damage Only (PDO) | - | - | - | | - | - | | (7) _{TOTAL} - (7) _{FI} 4.340 |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|--------------------------|---|---|--|--|---|---|--|---|
| Collision Type | Proportion of Collision Type(TOTAL) | N predicted rs(d) (TOTAL) (crashes/year) | Proportion of Collision Type(FI) | N predicted rs(d) (Fi) (crashes/year) | Proportion of Collision Type (Fl ^a) | N predicted rs (FI ^a) (crashes/year) | Proportion of Collision Type (PDO) | N predicted rs(d) (PDO) (crashes/year) |
| | from Table 11-6 | (7)TOTAL from Worksheet 1C (a) | from Table 11- 6 | (7)⊧i from Worksheet 1C (a) | from Table 11-6 | (7) _{FI} ^a from Worksheet 1C (a) | from Table 11-6 | (7)PDO from Worksheet 1C (a) |
| Total | 1.000 | 9.298 | 1.000 | 4.958 | 1.000 | 3.251 | 1.000 | 4.340 |
| | | (2)*(3) _{TOTAL} | | (4)x(5) _{F1} | | (6)*(7) _{F1} ^a | | (8)*(9) PDO |
| Head-on collision | 0.006 | 0.056 | 0.013 | 0.064 | 0.018 | 0.059 | 0.002 | 0.009 |
| Sideswipe collision | 0.043 | 0.400 | 0.027 | 0.134 | 0.022 | 0.072 | 0.053 | 0.230 |
| Rear-end collision | 0.116 | 1.079 | 0.163 | 0.808 | 0.114 | 0.371 | 0.088 | 0.382 |
| Angle collision | 0.043 | 0.400 | 0.048 | 0.238 | 0.045 | 0.146 | 0.041 | 0.178 |
| Single-vehicle collision | 0.768 | 7.141 | 0.727 | 3.604 | 0.778 | 2.529 | 0.792 | 3.438 |
| Other collision | 0.024 | 0.223 | 0.022 | 0.109 | 0.023 | 0.075 | 0.024 | 0.104 |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| Worksheet 1E – Summary Results for Rural Multilane Roadway Segments | | | | | |
|---|--|-----------------------------|---|--|--|
| (1) | (2) | (3) | (4) | | |
| Crash severity level | Predicted average crash frequency (crashes/year) | Roadway segment length (mi) | Crash rate (crashes/mi/year) (2)/(3) | | |
| | (7) from Worksheet 1C (a) or (b) | 7 | | | |
| Total | 9.298 | 6.4 | 1.5 | | |
| Fatal and Injury (FI) | 4.958 | 6.4 | 0.8 | | |
| Fatal and Injury ^a (FI ^a) | 3.251 | 6.4 | 0.5 | | |
| Property Damage Only (PDO) | 4.340 | 6.4 | 0.7 | | |

| Proposed Modified W4 Alternative | | | | |
|----------------------------------|---------------|--------------------------|--|--|
| Segment | Total Crashes | Fatal and Injury Crashes | | |
| Rural Divided | 9.457 | 5.035 | | |
| Suburban | 1.522 | 0.454 | | |
| Intersection | Total Crashes | Fatal and Injury Crashes | | |
| Eid Rd. | 0.494 | 0.209 | | |
| Jacksha Rd. | 0.464 | 0.195 | | |
| Old US-95 South | 0.310 | 0.098 | | |
| Old US-95 North | 0.521 | 0.196 | | |
| Subtotal | 12.768 | 6.187 | | |

| Proposed Modified W4 Alternative | | | | | |
|----------------------------------|------|--|--|--|--|
| Total (Crashes/year) | 12.8 | | | | |
| Fatal and Injury | 6.2 | | | | |
| Property Damage Only | 6.6 | | | | |

| | Existing US-95 | | | |
|-----------------|----------------|--------------------------|--|--|
| Segment | Total Crashes | Fatal and Injury Crashes | | |
| 11 | 0.007 | 0.002 | | |
| 12 | 0.021 | 0.007 | | |
| 13 | 0.009 | 0.003 | | |
| 14 | 0.021 | 0.007 | | |
| 15 | 0.012 | 0.004 | | |
| 16 | 0.026 | 0.009 | | |
| 17 | 0.016 | 0.005 | | |
| 18 | 0.053 | 0.017 | | |
| 19 | 0.015 | 0.005 | | |
| 20 | 0.102 | 0.033 | | |
| 21 | 0.287 | 0.092 | | |
| 22 | 0.563 | 0.181 | | |
| Intersection | Total Crashes | Fatal and Injury Crashes | | |
| Zeitler Rd. | 0.028 | 0.011 | | |
| Snow Rd. | 0.017 | 0.007 | | |
| Skyview Dr. | 0.009 | 0.004 | | |
| Clyde Rd. South | 0.024 | 0.010 | | |
| Cameron Rd. | 0.087 | 0.036 | | |
| Clyde Rd. North | 0.129 | 0.054 | | |
| Subtotal | 1.429 | 0.486 | | |

| Existing US-95 Loop | | | | |
|----------------------|-----|--|--|--|
| Total (Crashes/year) | 1.4 | | | |
| Fatal and Injury | 0.5 | | | |
| Property Damage Only | 0.9 | | | |

| Proposed Modified W4 Alternative and Existing US-95 Loop | | | | | |
|--|-----|--|--|--|--|
| Total (Crashes/year) 14.2 | | | | | |
| Fatal and Injury | 6.7 | | | | |
| Property Damage Only | 7.5 | | | | |

| | Worksheet 1A General Information and Input Da | ta for Rural Multilane Road | way Segments | |
|--|---|-----------------------------|--|--|
| Gene | al Information | Location Information | | |
| Analyst Agency or Company | CJA, KJB ITD District 2 | Roadway Roadway Section | US-95, Thorncreek to Moscow Modified W4 Rural - Divided | |
| Date Performed | 12/30/14 | Jurisdiction | Latah Co, ID | |
| | | Analysis Year | 2036 | |
| | nput Data | Base Conditions | Site Conditions | |
| Roadway type (divided / undivided) | | Undivided | Divided | |
| Length of segment, L (mi) | | | 6.35 | |
| AADT (veh/day) | AADT _{MAX} = 89,300 (veh/day) | - | 8,044 | |
| Lane width (ft) | | 12 | 12 | |
| Shoulder width (ft) - right shoulder width for divid | ded [if differ for directions of travel, use average width] | 8 | 8 | |
| Shoulder type - right shoulder type for divided | | Paved | Paved | |
| Median width (ft) - for divided only | | 30 | 40 | |
| Side Slopes - for undivided only | | 1:7 or flatter | Not Applicable | |
| Lighting (present/not present) | | Not Present | Not Present | |
| Auto speed enforcement (present/not present) | | Not Present | Not Present | |
| Calibration Factor, Cr | | 1.00 | 1.00 | |

| Worksheet 1B (a) Crash Modification Factors for Rural Multilane Divided Roadway Segments | | | | | | |
|--|------------------------------|----------------------|---------------------|--|--------------------|--|
| (1) | (2) | (3) | (4) | (5) | (6) | |
| CMF for Lane Width | CMF for Right Shoulder Width | CMF for Median Width | CMF for Lighting | CMF for Automated Speed Enforcement | Combined CMF | |
| CMF 1rd | CMF 2rd | CMF 3rd | CMF 4rd | CMF 5rd | CMF comb | |
| from Equation 11-16 | from Table 11-17 | from Table 11-18 | from Equation 11-17 | from Section 11.7.2 | (1)*(2)*(3)*(4)*(5 | |
| 1.00 | 1.00 | 0.99 | 1.00 | 1.00 | 0.99 | |

| (1) | | (2) | | (3) | (4) | (5) | (6) | (7) |
|--|------------------|---------------|-------|--------------------|---------------------|--------------------|-------------|---|
| Crash Severity Level | SPF Coefficients | | | N spf rd | Overdispersion | Combined CMFs | Calibration | Predicted average crash |
| | f | rom Table 11- | 5 | | Parameter, k | (6) from Worksheet | Factor, Cr | frequency, N predicted raid) |
| | а | b | С | from Equation 11-9 | from Equation 11-10 | 1B (a) | | (3)*(5)*(6) |
| Total | -9.025 | 1.049 | 1.549 | 9.552 | 0.033 | 0.99 | 1.00 | 9.457 |
| Fatal and Injury (FI) | -8.837 | 0.958 | 1.687 | 5.086 | 0.029 | 0.99 | 1.00 | 5.035 |
| Fatal and Injury ^a (FI ^a) | -8.505 | 0.874 | 1.740 | 3.330 | 0.028 | 0.99 | 1.00 | 3.297 |
| Property Damage Only (PDO) | | - | | | | _ | - | (7) _{TOTAL} - (7) _{FI} 4.422 |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|--------------------------|---|---|--|--|---|---|--|---|
| Collision Type | Proportion of Collision Type(TOTAL) | N predicted rs(d) (TOTAL) (crashes/year) | Proportion of Collision Type(FI) | N predicted rs(d) (Fi) (crashes/year) | Proportion of Collision Type (El ^a) | N predicted rs (FI [*]) (crashes/year) | Proportion of Collision Type (PDO) | N predicted rs(d) (PDO) (crashes/year) |
| | from Table | (7)TOTAL from Worksheet 1C | from Table 11- | (7)FI from Worksheet | from Table | (7) FI ^a from Worksheet | from Table | (7)PDO from Worksheet 1C |
| | 11-6 | (a) | 6 | 1C (a) | 11-6 | 1C (a) | 11-6 | (a) |
| Total | 1.000 | 9.457 | 1.000 | 5.035 | 1.000 | 3.297 | 1.000 | 4.422 |
| | | (2)*(3) _{TOTAL} | | (4)x(5) _{F1} | | (6)*(7) _{FI} ^a | | (8)*(9) PDO |
| Head-on collision | 0.006 | 0.057 | 0.013 | 0.065 | 0.018 | 0.059 | 0.002 | 0.009 |
| Sideswipe collision | 0.043 | 0.407 | 0.027 | 0.136 | 0.022 | 0.073 | 0.053 | 0.234 |
| Rear-end collision | 0.116 | 1.097 | 0.163 | 0.821 | 0.114 | 0.376 | 0.088 | 0.389 |
| Angle collision | 0.043 | 0.407 | 0.048 | 0.242 | 0.045 | 0.148 | 0.041 | 0.181 |
| Single-vehicle collision | 0.768 | 7.263 | 0.727 | 3.660 | 0.778 | 2.565 | 0.792 | 3.502 |
| Other collision | 0.024 | 0.227 | 0.022 | 0.111 | 0.023 | 0.076 | 0.024 | 0.106 |

NOTE: * Using the KABCO scale, these include only KAB crashes. Crashes with severity level C (possible injury) are not included.

| (1) | (2) | (3) | (4) | |
|--|--|-----------------------------|------------------------------|--|
| Crash severity level | Predicted average crash frequency (crashes/year) | Roadway segment length (mi) | Crash rate (crashes/mi/year) | |
| · · · · · · · · · · · · · · · · · · · | (7) from Worksheet 1C (a) or (b) | | (2)/(3) | |
| Total | 9.457 | 6.4 | 1.5 | |
| Fatal and Injury (FI) | 5.035 | 6.4 | 0.8 | |
| Fatal and Injury ^a (FI ^a) | 3.297 | 6.4 | 0.5 | |
| Property Damage Only (PDO) | 4.422 | 6.4 | 0.7 | |

US-95 THORNCREEK ROAD TO MOSCOW AASHTO HIGHWAY SAFETY MANUAL ANALYSIS ON ALTERNATIVES CARRIED FORWARD

DHP-NH-4110 (156) KEY # 09294 September 3, 2013

| PREPARED BY DISTRICT 2 PROJECT DEVELOPMENT ENGINEER | |
|--|--|
| Curto J. armyn Curtos J. Arnzen, P.E. | |
| 09/03/13 Date | |



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DHP-NH-4110 (156); Key No. 9294; Thorncreek to Moscow

Introduction

This Safety Analysis is a supporting document of the Environmental Impact Statement for US-95, Thorncreek to Moscow. This Safety Analysis will complete the following:

- Analyze the safety of the existing US-95 alignment,
- Quantify the safety benefit of the No Action Alternative and Alternatives E2, C3, and W4,
- And make an alternative recommendation based on safety.

This report replaces the safety analysis used for the Draft Environmental Impact Statement dated July 31, 2012. The report used for the DEIS was valid, but it was revised to address public comments received during the public comment period. It uses and reports updated crash data, and provides 20 years of predicted crash data starting in 2017, whereas, the previous safety analysis only provided crash predictions for 2017. The report provides additional analysis and information regarding predicted crashes on the remaining US-95 alignment that is proposed to be turned over to the North Latah Highway District primarily for local commuter traffic once an action alternative is constructed. The section that is proposed to be turned over to the North Latah Highway District primarily for local commuter traffic once an information regarding weather and wild animal related crashes.

As traffic volumes grow at an exponential rate, the number of predicted crashes per year increases. Selecting a safe alignment will result in a safety benefit every year after the construction of the new highway. With time, small differences in predicted crashes between the alternatives each year will grow to a significant safety benefit for an alternative that is predicted to have fewer crashes.

This report uses the First Edition (2010) of the American Association of State Highway and Transportation Officials (AASHTO) Highway Safety Manual (HSM) to analyze and quantify the safety benefits of each alternative. The HSM provides the most current and accepted knowledge and practices relating to safety management according to AASHTO and Transportation Research Board (TRB) Task forces.

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September 3, 2013

Summary

Safety is one of the key reasons for proposing the project. In fact, the Purpose and Need Statement in the Environmental Impact Statement is the following:

- Purpose The purpose of this project is to improve public safety and increase highway capacity on US 95 between Thorncreek Road and Moscow.
- Need Within the project limits, US95 does not meet current American Association of State Highway and Transportation Officials (AASHTO) Standards (widths, clear-zones, grades, and sight distance). Additional concerns include high accident locations and insufficient highway capacity.

The results of the calculation methods in the HSM show that Alternatives E2, C3, and W4 will be much safer than the No Action Alternative. The results of the calculation method also show Alternative E2 is the safest proposed alternative for total crashes, as well as total injury related crashes and fatalities. Table 1 shown below summarizes the findings of this safety analysis for 20 years of crashes starting in 2017. A 20 year crash forecast was used because the normal practice is to design a project using traffic volumes projected 20 years after the completion of the project. At this time, 2017 is the first year a safety benefit would be anticipated after completion of the project; however, a safety benefit will be realized every year after the project is completed. As traffic volumes grow at an exponential rate in the future, the safety benefit becomes much greater because traffic volumes are a factor in crash prediction equations used by the Highway Safety Manual. Supporting data and assumptions used to generate the table below are in Appendix E.

| | Table 1: Predicted Crashes For Proposed Alternatives | | | | | | | |
|-------------|--|-----------------------------|--------------------------------|-----------------------------|--|--|--|--|
| | Completio | on Year 2017 | Crashes From 2017 Through 2036 | | | | | |
| Alternative | Total Crashes | Fatal and Injury Crashes | Total Crashes | Fatal and Injury Crashes | | | | |
| No Action | 27.4 | 11.0 | 642.5 | 256.5 | | | | |
| E2 | 7.6 | 3.8 | 179.5 | 89.0 | | | | |
| C3 | 10.8 | 4.6 | 253.8 | 107.7 | | | | |
| W4 | 9.3 | 4.6 | 219.3 | 107.7 | | | | |

In this safety analysis, the Idaho Transportation Department (ITD) predicted crashes on the remaining US-95 Loop for all of the action alternatives. The results of the calculation methods in the HSM show

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that Alternative E2 is still the safest predicted alternative after the crashes calculated on the remaining US-95 Loop are added to the total for all alternatives. The crash prediction results are shown in Table 2 below. Fewer total crashes and fewer fatal and injury crashes are predicted on Alternative E2 than Alternatives C3 and W4 even after crashes from the remaining US-95 Loop are considered in the calculated frequency. Alternative C3 has the highest predicted number of total crashes and Alternative W4 has the highest predicted number of fatal and injury crashes. The following table shows the crash predictions for each alternative after calculations for the remaining US-95 Loop are added. Supporting data and assumptions used to make crash predictions are in Appendix C and the crash prediction calculations used to generate the table are below in Appendix E.

| | Completion Year 2017 | | | 017 Through 2036 |
|-------------|----------------------|-----------------------------|---------------|-----------------------------|
| Alternative | Total Crashes | Fatal and Injury Crashes | Total Crashes | Fatal and Injury Crashes |
| No Action | 27.4 | 11.0 | 642.5 | 256.5 |
| E2 | 9.2 | 4.4 | 213.9 | 100.7 |
| C3 | 11.1 | 4.7 | 260.2 | 110.0 |
| W4 | 10.5 | 5.1 | 246.2 | 116.9 |

Significance

Table 1 and Table 2 only report crash predictions for a 20 year period; however, once the fourlane highway between Thorncreek and Moscow is constructed, a safety benefit will be realized every year that US-95 between Thorncreek Road and Moscow is used by the traveling public for any of the action alternatives. Selecting an alternative based on safety will continue to benefit the traveling public every year after US-95 between Thorncreek Road and Moscow is constructed. Selecting an alternative based on safety will likely result in fewer fatalities and significantly reduced injuries over the course of its life.

Also, traffic is observed to grow at an exponential rate. Since crash predictions are a function of the volume of traffic, the number of predicted crashes increase every year. Future traffic growth magnifies the safety benefit predicted by a selected alternative.

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Economic Cost of Crashes

The ITD Office of Highway Safety uses the cost the FHWA establishes for preventing a fatality and other accidents as a basis for determining the cost of the other crash types. The National Highway Traffic Safety Administration (NHTSA) also did a study on the costs of crashes and determined who pays for the cost of crashes. The most significant point of this study is that society at large picks up nearly 75% of all crash costs incurred by individual motor vehicle crash victims. These costs are passed on to the general public through insurance premiums, taxes, direct out-of-pocket payments for goods and services, and increased charges for medical care. Economic values can be calculated for predicted crashes between Thorncreek Road and Moscow.

Using the average crash distribution rate of crashes in 2012, the economic cost of crashes in 2012, and a factor used to account for multiple injuries in accidents, the economic cost of crashes for the different proposed alternatives can be calculated. The economic cost for different accident types are published in the Idaho Transportation Department Office of Highway Safety's document titled Idaho Traffic Crashes 2012. The total economic cost of crashes for the proposed alternatives will show the significance relating to predicted crashes. For example, in 2012 the cost of a fatality is \$6,295,406 and the cost of a crash with property damage only is \$6,739. Table 3 shows the total estimated economic costs of all crashes on the different proposed alternatives between 2017 and 2036. The data and assumptions used to calculate the economic cost of crashes is found in Appendix D.

| | Table 3: Total Economic Cost of Crashes on the Proposed Alternatives | | | | | | | |
|--------------------------|--|----------------------|---------------|------------------------|--|--|--|--|
| | Complet | Completion Year 2017 | | From 2017 Through 2036 | | | | |
| Alternative | Economic Cost | Difference From E2 | Economic Cost | Difference From E2 | | | | |
| E2 | \$1,100,000 | \$0 | \$26,000,000 | \$0 | | | | |
| C3 | \$1,400,000 | \$300,000 | \$32,000,000 | \$6,000,000 | | | | |
| W4 | \$1,400,000 | \$300,000 | \$32,000,000 | \$6,000,000 | | | | |
| No Action Alternative | \$5,800,000 | \$4,700,000 | \$140,000,000 | \$114,000,000 | | | | |

Using 2012 crash costs and the economic cost of crashes from 2017 to 2036, the predicted economic cost of crashes on Alternative E2 is about \$6 million dollars less than Alternatives C3 and W4, and \$114 million dollars less than the No Action Alternative.

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Table 4, shown below, shows the total economic cost of all crashes on the different proposed alternatives including the remaining US-95 Loop that will remain after construction of the proposed alternative is complete. The data and assumptions used to calculate the total economic cost of crashes is in Appendix D.

| | Table 4: Total Economic Cost of Crashes on the Proposed Alternatives Including the Remaining US-95 Loop from 2017 to 2036 | | | | | |
|---|--|--------------------|---------------|--------------------|--|--|
| Completion Year 2017 From 2017 Through 2036 | | | | | | |
| Alternative | Economic Cost | Difference From E2 | Economic Cost | Difference From E2 | | |
| E2 | \$1,300,000 | \$0 | \$29,500,000 | \$0 | | |
| C3 | \$1,400,000 | \$100,000 | \$33,000,000 | \$3,500,000 | | |
| W4 | \$1,500,000 | \$200,000 | \$35,000,000 | \$5,500,000 | | |
| No Action Alternative | \$5,800,000 | \$4,500,000 | \$140,000,000 | \$110,500,000 | | |

The estimated economic cost of crashes on Alternative E2 including the remaining US-95 Loop is about \$3.5 million dollars less than Alternative C3 including the remaining US-95 Loop, \$5.5 million dollars less than Alternative W4 including the remaining US-95 Loop, and \$110.5 million dollars less than the No Action Alternative.

The above-mentioned economic costs for crashes are for the first 20 years after construction of a proposed alternative; however, the economic savings due to a reduction of crashes is expected to continue over the entire lifetime that US-95 is being used if an action alternative is selected. Traffic volumes are predicted to increase exponentially, leading to more predicted crashes in the future. An increase in crashes will lead to a higher economic cost of crashes in the future and the safety benefit will continue to grow.

Safety Analysis of the Existing Alignment

Ten years of crash data on the existing alignment between MP 337.668 (Thorncreek Rd.) and MP 344.004 (Moscow) was analyzed in order to compare the safety of the existing alignment to the proposed alternatives. The crashes are shown in Appendix A.1 of this report. From January 1, 2003 through December 31, 2012, 253 crashes occurred or an average of 25.3 crashes per year.

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In addition to the high predicted number of total crashes, two of the District's top five Official High Crash Locations are located within this section of highway. Statewide, the two High Crash Locations in this section of roadway are ranked number 17 and 34. Appendix A.2 shows the list of High Crash Locations. The previous safety analysis used for the DEIS reported 3 High Crash Locations ranked 4, 6, and 16. High Crash Locations are based on three years of crash data and change annually depending upon the most recent crash data.

The crashes that have occurred on the existing alignment over the past 10 years appear to be random in nature and include head-on crashes, sideswipes, rear end turning, overturning, run off the road to the ditch and embankment, among other crash types. In the past 10 years, 6 fatalities have occurred in 5 crashes and 152 injuries have occurred in 253 crashes on US-95 between Thorncreek and Moscow. Two of the fatal crashes were head on collisions, one fatal crash was a sideswipe, one fatal crash was due to a motorist driving left of center into another car, and one was a pedestrian crash. The head-on crashes and sideswipe crashes are generally associated with passing maneuvers. The frequency of head-on, sideswipe, and driving left of center crash types is predicted to greatly decrease by replacing the 2-lane roadway with a new 4-lane roadway with a divided median. The US-95 project between the top of the Lewiston Hill and Thorncreek Road constructed a divided 4-lane roadway and has eliminated head-on crashes and sideswipes from cars traveling in the opposite direction since its completion in October 2007.

Approximately 40% of the existing crashes are from vehicles negotiating a curve. In the past 10 years, 19 crashes occurred with a motorist running off the road to the ditch, 20 crashes occurred with a motorist running off the road in an embankment area, and 89 crashes occurred with a motorist overturning a vehicle. The existing alignment does not meet AASHTO Standards for shoulder width, curve radius, sight distance, clear zone, and grade. Any action alternative will be designed to full AASHTO standards. The number of run off the road and overturning crashes is predicted to decrease if any action alternative is selected. The severity of the accidents is also predicted to decrease because the roadside clear zone will become more forgiving.

There are currently 66 at-grade intersections and approaches (public, commercial, residential, and field) in this 6.34 mile segment of US-95. Between 2003 and 2012, there were 26 crashes directly associated with private approaches, or intersections. The north end of the project is the

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most densely populated area. It has the highest number of access points and the highest number of intersection related crashes. The southern end of the project with its closely spaced approaches onto US-95, have also resulted in a high number of intersection related crashes. Currently, many approaches do not meet the ITD access control policy and contribute to intersection related conflicts. Twenty-one rear-ending crashes occurred on the existing alignment in the past 10 years. Rear ending accidents are generally associated with turning traffic to and from public roads and approaches to residencies, businesses, and industry. Any of the three proposed action alternatives would greatly reduce at grade intersections and approaches to US-95 and future approaches would not easily be granted because the access control would be purchased on the rural highway.

Currently, about 60% of the crashes on US-95 between Thorncreek Road and Moscow occur during inclement weather where the crash report lists snow, rain, fog, blowing snow, severe cross winds, or sleet/hail as the weather condition and has a road surface condition of wet, snow, ice, or slush. The number of crashes occurring during inclement weather is observed to be the greatest along curves with substandard radii. All existing alternatives will flatten curves to the AASHTO standard for radii and super-elevation, widen shoulders, widen clearzone, and construct a divided median, reducing the potential for weather related crashes.

There have been 32 wild animal crashes between Thorncreek Road and Moscow in the ten year period between January 2003 and December 2012. This is 13% of the total crashes; however, the severity of the crashes was very low, with 26 crashes being property damage only crashes, and 6 crashes being Type C Accidents (Possible Injury). The Idaho Department of Fish and Game have designated a portion of Thorncreek Road to Moscow as a low priority wildlife linkage area.

The economic cost crashes can be calculated for accidents between Thorncreek Road and Moscow based on the costs per accident type established by the NHTSA. The results of these costs are summarized in Table 5 Below:

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| Table 5: Economic Cost of All Crashes Between Thorncreek and MoscowBetween 1/1/03 and 12/31/12 | | | | | |
|--|---------------|----------------|--|--------------|--|
| Crash Type | Total Crashes | Total Injuries | Cost Per Injury or Crash (2012 Costs) | Total Cost | |
| Fatality | 5 | 6 | \$6,295,406 | \$37,772,436 | |
| Type A Accident (Serious) | 18 | 27 | \$313,516 | \$8,464,932 | |
| Type B Accident (Visible) | 34 | 52 | \$87,814 | \$4,566,328 | |
| Type C Accident (Possible) | 44 | 74 | \$58,209 | \$4,307,466 | |
| Property Damage Only | 152 | 0 | \$6,739 | \$1,024,328 | |
| Total | 253 | | | \$56,135,490 | |

From October 1, 2007, or the date the four lane divided highway from the Top of Lewiston Hill to Thorncreek Road (MP 323.36 to MP 337.668) was completed, to December 31, 2012, 27 injury crashes and no fatal crashes occurred on this new section of US-95, or 1.89 accidents per centerline mile. During the same time period on US-95 between Thorncreek Road and Moscow (MP 337.668 to MP 344.004), 55 injury and 3 fatal accidents occurred, or 9.2 injury crashes or fatal crashes per centerline mile.

During the public comment period, there were public comments to improve safety by reducing the speed limit on US-95 between Thorncreek Road and Moscow. However, reducing the speed limit would not make the roadway safer. An engineering speed study conducted in September 2012 concluded that the 85th percentile speed was 64 mph and that a 60 mph speed limit was adequate. Setting the posted speed limit at the 85th percentile speed is widely accepted and used by traffic professionals and the probability of crash occurrence is lowest for vehicles traveling at or slightly above the 85th percentile speed.

The conclusion of safety analysis of the existing alignment is that the existing crash data supports the need for the construction of an action alternative and reconstruction of US-95 between Thorncreek Road and Moscow with a four lane divided highway. The No Action Alternative is not acceptable because of the observed crash history of the existing alignment and the high economic cost of all crashes between Thorncreek Road and Moscow.

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Calculation Methodology for Action Alternatives

Standard Predictive Calculations

In order to calculate predicted number of crashes per year for proposed alternatives, Chapter 11-Predictive Method for Rural Multilane Highways and Chapter 12-Predictive Method for Urban and Suburban Arterials of the AASHTO Highway Safety Manual were followed. The Empirical Bayes method is not applicable since all three action alternatives are new and will be a different highway type than the existing facility.

The Highway Safety Manual calculates crashes using a base Safety Performance Function. The base Safety Performance Function is a regression equation that estimates the average crash frequency for a specific section of highway as a function of annual average daily traffic (AADT) and road length.

Once the base condition is calculated, Crash Modification Factors are applied to the base condition that either increase or decrease the predicted crash rate. Crash Modification Factors represent the relative change in crash frequency due to a change in one specific condition. An example of a Crash modification Factor might be a result of median width. The base condition for median width is 30 feet. Between Thorncreek and Moscow, the proposed median width is greater than the base condition, or 40 feet wide; therefore, a Crash Modification Factor of 0.99 is applied. This predicts that the 40 foot wide median will be 1% safer than the base condition of 30 feet.

After the Crash Modification Factors are applied to the base condition, a calibration factor may be applied to the overall crash data to account for local conditions. The calibration factor is multiplied by the overall crash costs after the Crash Modification Factors have been applied. At this time, the State of Idaho uses 1.0 as its calibration factor. The calibration factor may also be changed based on observed crash data. In the case of the Thorncreek to Moscow project, the proposed alternatives are new; therefore, existing data is not available and the calibration factor cannot be adjusted due to observed crash data.

Predictive Calculations on Proposed Alignments

Each of the three action alternatives has two different and distinct segments. One segment has characteristics of a rural multilane highway and the other segment has characteristics of a suburban arterial. Each segment within each alternative was modeled separately. Segments of

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highway that have a proposed 34 foot divided median (42' between the northbound and southbound travel lanes) and 65 mph speed limit were modeled as a rural divided multilane highway and segments of highway with five total lanes including a two-way left turn lane and a 45 mph speed limit were modeled as a suburban arterial. Typical sections for each proposed alternative are shown in Appendices C.1, C.2, and C.3. All public road intersections were also modeled with each proposed alternative.

In order to analyze the proposed alternatives equitably, all Crash Modification Factors and the predicted ADT for all proposed action alternatives are the same for the rural section of every action alternative and they are the same for the suburban sections of every action alternative. The Crash Modification Factors, the base conditions for the Crash Modification Factors, the input data, and other assumptions that affect the predicted number of crashes are shown on the spreadsheets shown within Appendix E. The primary factors that predict differences in safety between the action alternatives is the length of the rural section, length of the suburban section, and the number of county road approaches that intersect a proposed alternative.

Confidence intervals cannot be calculated for each of the proposed alternatives because some of the Crash Modification Factors do not have published standard deviation; however, all Crash Modification Factors used are widely accepted and published in the Highway Safety Manual. The confidence interval is nearly the same for all three proposed action alternatives because the Crash Modification Factors used for all action alternatives are identical within a specific highway type. The only slight differences between confidence intervals exist because the action alternatives have different lengths of rural and suburban highway sections.

Spreadsheets developed by Karen Dixon, PhD Civil Engineering, from Oregon State University were used for calculations and are shown in Appendix E of this report. Dr. Dixon was one of the authors of the AASHTO Highway Safety Manual.

Predictive Calculations on the Remaining US-95 Loop

As a result of public comments received during the DEIS comment period, ITD predicted crashes on the remaining US-95 Loop once one of the proposed action alternatives is constructed. Chapter 10 of the AASHTO Highway Safety Manual offers a method that will predict crashes on existing rural two-lane, two-way highways.

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The method used to predict crashes on rural two-lane, two-way highways is a multistep procedure that first splits a roadway section into numerous different sections or intersections based on roadway geometry, AADT, presence of a passing lane, or other factors. After the roadway has been divided into different segments, a Safety Performance Factor is calculated for each of the different segments. The Safety Performance Factor determines the predicted average crash frequency for a segment with certain base conditions, traffic volumes, and lengths. After the Safety Performance Factor is calculated, Crash Modification Factors are applied to measure the predicted variation in the number of crashes from the base condition. For example, the base condition for shoulder width is 6 feet. Since existing US-95 has a 2 foot wide shoulder, a Crash Modification Factor of 1.04 is applied to the Safety Performance Factor. The Crash Modification Factor increases the number of crashes by 4 % based on the reduced shoulder width. The Crash Modification Factors, the base conditions for the Crash Modification Factors, the input data, and other assumptions that affect the predicted number of crashes are shown on the spreadsheets shown within Appendix E.

A calibration factor of 1.0 was used on the remaining loop. The existing crash data set was not used to create a calibration factor, since the motorists that use the remaining loop will be different than the motorists that currently use US-95. Motorists that will use the remaining US-95 Loop if an action alternative is selected will primarily be commuters who have a destination along the remaining US-95 Loop, while the motorists who currently use US-95 will be a wide variety of motorists. Some of these motorists would be users who won't be as familiar with road conditions as commuters. A lower crash frequency would be expected with commuters and a modified calibration factor may not be appropriate. Also, since traffic volumes will be much smaller a calibration factor using existing crash data may not correlate to accurately predict crashes on the remaining US-95 Loop.

Wild Animal Crashes

To satisfy concerns about wild animal crashes, the wild animal crash rate was investigated between Thorncreek Road and Moscow and wild animal crash rates within ungulate crossing areas in Latah County identified by the Idaho Department of Fish and Game in Appendix B.1. Table 6, shown below, is a list of wild animal crashes within ungulate crossing areas that have been identified by the Idaho Department of Fish and Game.

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| Table 6: Wild Animal Crash | es at Ungulate Crossing Areas on From 1/1/03 to 12/31/12 | US-95 in Latah County | | | | | |
|--|---|-----------------------|--|--|--|--|--|
| Ungulate Crossing Area Total Wild Animal Crashes Wild Animal Crashes Per Yea | | | | | | | |
| Marsh Hill (MP 367.1 - 370.1) | 27 | 2.7 | | | | | |
| Crooks Hill (MP 356.0 - 359.0) | 19 | 1.9 | | | | | |
| Steakhouse Hill (MP 349.7 -352.7) | 47 | 4.7 | | | | | |
| Thorncreek to Moscow (MP 340.3-343.3) | 17 | 1.7 | | | | | |

Currently, 17 of the 32 wild animal crashes on the existing alignment are between Thorncreek and Moscow occur within the identified ungulate crossing area.

Different wildlife technical reports indicate Alternative E2 may have more wild animal crash potential than the Alternatives C3 and W4 because 1.98 miles of E2 are within an ungulate impact area based on the results; however, greater sight distance on Alternative E2 may offset the wild animal crash potential. Sight distance will be greater on Alternative E2 because the length and radius of horizontal curvature is greater than the other action alternatives. Greater sight distance may reduce the crash potential of the wild animal crashes of Alternative E2 and offset the additional wild animal crash potential caused from Alternative E2 being in an ungulate impact area. Appendix B.2 shows the ungulate impact area in relationship to the alternatives.

The Highway Safety Manual Analysis Technique predicts some wild animal crashes within the base formulas; however, the wild animal crashes are not quantified within the formulas. The predicted crashes for each alternative generated using the HSM within this report include wild animal crashes.

A wildlife crash countermeasure that clears the roadside of trees and brush will be constructed. The crash countermeasure is predicted to reduce the total number of wild animal crashes to a rate that is similar to the number of wild animal crashes predicted by the base rate of the Highway Safety Manual. A report included in Appendix B.3 and titled "Methods to Reduce Traffic Crashes Involving Deer: What Works and What Does Not", shows a 50% reduction in animal crashes for railway clearing. This 50% reduction was achieved with the clearing of a 40

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to 60 meter strip for railway cars to avoid moose collisions. This report also acknowledges that roadside clearing is effective, but there is limited information supporting the extent of the wild animal crash reduction.

In July 2010, ITD District 6 completed a project to widen the roadside clear width from 30 feet to 60 feet from the roadway along US-20 between MP 369 and 375.5. For the ten years prior to the clearing project 37 wild animal crashes occurred or 3.7 crashes per year. Since the project only 1 wild animal crash has occurred, or about 0.4 crashes per year. This is about a 90% per year reduction in wild animal crashes so far. The data for this ITD project is shown in Appendix B.4. It should be noted that only 2 years and 6 months have passed since the completion of this project; however, the roadside clearing used on this project has substantially reduced wild animal crashes in the short time period.

For the proposed Thorncreek Road to Moscow Project, a minimum of 240' of Right-of-Way is estimated; however, in most areas the topography of the land will require a larger purchase of land that is estimated to be up to about 600' wide. The proposed Right-of-Way will be cleared of trees and brush providing a clear area that ranges from a minimum of 75' to maximum of about 330' from the edge of traveled way to the nearest possible brush or trees. The wide clear area is predicted to reduce the wild animal crash potential on all proposed alternatives.

It is difficult to pinpoint the amount of wild animal crashes that are expected and to quantify the difference in wild animal crashes on each of the action alternatives. ITD believes that there will not be a significant difference in wild animal crashes between the different alignments. The extra possible wild animal crash potential on a section of Alternative E2 may be offset by greater sight distance by the motorists and roadside clearing will greatly minimize the frequency of wild animal crashes.

While it is difficult to predict the number of wild animal crashes, we can estimate the severity of wild animal crashes. The severity of wild animal crashes is very low compared to other crash types. Because the severity of wild animal crashes is low, the current State Highway Safety Plan does not devote an emphasis area for wild animal crashes. As mentioned below in Table 7, about 91% of wild animal accidents are crashes resulting in property damage only. Of the 476 wild animal crashes along US-95 in District 2 during the past 10 years, no fatalities have occurred as a result of a wild animal crash and only 3 crashes (less than 1%) resulted in a

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serious injury. Wild Animal Crash Data used to generate Tables 7 and 8 are shown in Appendix B.5

| Table 7: Wild Anim | nal Crashes aloi | ng US-95 in Distric Related Econ | | 003 Through 12/31 | /2012 and Their |
|-------------------------------|----------------------|-------------------------------------|-------------------------------|---------------------------------------|-----------------|
| Crash Type | Number of Crashes | Percentage of Total | Total Number of Inuries | Cost of Crash Type (2012 Costs) | Total Cost |
| Fatality | 0 | 0% | 0 | \$6,295,406 | \$0 |
| Type A Accident (Serious) | 3 | 0.6% | 3 | \$313,516 | \$940,548 |
| Type B Accident (Visible) | 11 | 2.3% | 16 | \$87,814 | \$1,405,024 |
| Type C Accident (Possible) | 31 | 6.55% | 39 | \$58,209 | \$2,270,151 |
| Property Damage Only | 431 | 90.55% | 0 | \$6,739 | \$2,965,160 |
| Total | 476 | 100.0% | 58 | | \$7,580,883 |

Table 8, shown below, shows that the total economic cost of wild animal crashes within the existing Thorncreek to Moscow Alignment from 1/1/03 to 12/31/12 is \$524,468. This cost is less than 1% of the total economic costs on the existing alignment between Thorncreek Road and Moscow during the same time period. All data used for prediction of wild animal crashes is based on crashes that have been reported to the police. Many wild animal crashes are not reported to the police because the result of the collision is not significant and does not include an injury or significant property damage. Unreported wild animal crashes are not a primary ITD safety concern, since they do not increase the number crashes with injury and the property damage is generally not significant.

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| Table 8: Economic (| Costs of Wild A | nimal Crashes Wit From 1/1/03 t | _ | Thorncreek to Mo | scow Alignment |
|-------------------------------|----------------------|------------------------------------|-----------------------|------------------|----------------|
| Crash Type | Number of Crashes | Percentage of Total | Number of Injuries | Cost of Crash | Total Cost |
| Fatality | 0 | 0% | 0 | \$6,295,406 | \$0 |
| Type A Accident (Serious) | 0 | 0% | 0 | \$313,516 | \$0 |
| Type B Accident (Visible) | 0 | 0% | 0 | \$87,814 | \$0 |
| Type C Accident (Possible) | 6 | 18.7% | 6 | \$58,209 | \$349,254 |
| Property Damage Only | 26 | 81.3% | 0 | \$6,739 | \$175,214 |
| Total | 32 | 100% | | | \$524,468 |

The Federal Highway Administration calculates the total economic cost of different crash types and estimates that property crashes resulting in property damage only are valued \$6,739 while fatalities are valued at \$6,295,406. Using these figures, 935 crashes causing property damage only are the equivalent of 1 fatality in terms of economic costs. Using this logic ITD is naturally more concerned about accident types that are likely to result in fatalities or severe accidents than accident types that generally result in property damage only.

The significance of potential additional wild animal crashes can be investigated by analyzing a hypothetical situation. If ITD was able to estimate the increased accident potential of Alternative E2 to be 1 extra wild animal accident per year, the significance of the extra crashes using the accident costs established by the FHWA and the percentages of accident types caused by wild animals can be calculated. For our 20 year crash study period, 20 additional wild animal crashes would result in an additional economic cost of \$310,000 for the 20 additional crashes. If \$310,000 is added to the estimated economic cost of crashes in Alternative E2, the total economic cost of crashes for Alternative E2 is still significantly less than the other action alternatives. In fact, 223 additional wild animal crashes in the next 20 years on Alternative E2 would be required to make the economic cost of accidents on Alternative E2 and its remaining US-95 Loop equivalent to Alternative C3 and its remaining loop. Two hundred twenty three additional wild animal crashes over the next 20 years on E2 is not a practical estimate of wild animal crashes given the fact that the roadside clearing countermeasure is being used, sight

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distance will be improved, and that no other location in Latah County has nearly as many wild animal crashes. All supporting calculations relating to these cost estimates are in Appendix D.

The conclusions about predicted wild animal crashes can be summarized in the following statements:

- Wild animal crash prediction on new alternatives is difficult to pinpoint.
- Alternative E2 may have greater wild animal crash potential than Alternatives C3 and W4 based on findings reported in the wildlife technical reports for Thorncreek to Moscow; however, greater sight distance on Alternative E2 may offset the increased wild animal crash potential. Since the greater sight distance may offset the increased wild animal crash potential on Alternative E2 and wild animal crash prediction is difficult, no factors increasing the number of wild animal crashes were applied to the crash predictions on Alternative E2.
- The roadside clearing crash countermeasure that will be used is predicted to greatly reduce the number of wild animal crashes and mitigate wild animal crash potential. Past data shows a 50% - 90% reduction in wild animal crashes when roadside clearing is used.
- The severity of wild animal crashes is very low compared to other crash types. Even if additional wild animal crashes were predicted on Alternative E2, the additional wild animal crashes would not offset the other safety benefits of Alternative E2 and Alternative E2 would still be significantly safer than the other action alternatives.

In conclusion, wild animal crashes should not be a dominant factor in selecting an alternative. Wild animal crashes have been observed to have low severity and low economic costs relative to the total amount of economic costs due to crashes and because it is predicted that the total number of wild animal crashes is not significantly greater for any of the alternatives. Alternative E2 may have more wild animal crash potential than Alternatives C3 and W4 because it is within an ungulate impact area; however, roadside clearing will reduce the wild animal crash potential. Wild animal crash rates are predicted to be similar to the wild animal crash rates that the base formulas of the HSM predict.

Crashes Relating to Unfavorable Weather Conditions

Approximately about 60% of the crashes on US-95 between Thorncreek Road and Moscow occur during inclement weather where the crash report lists snow, rain, fog, blowing snow,

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severe cross winds, or sleet/hail as the weather condition and has a road surface condition of wet, snow, ice, or slush. Therefore, the ITD commissioned Dr. Russell Qualls, Idaho State Climatologist and a Registered Professional Engineer, to study the weather patterns in the study area and make recommendations on proposed alternatives based on weather conditions. In Dr. Quall's report, he indicates that Alternative W4 would have colder temperatures and be more susceptible to frost; however, Alternative E2 and C3 would have greater precipitation than W4. Dr. Qualls suggested due to lack of a single, clearly superior alternative with regard to the impact of weather in the corridors, weather should not be a dominant factor in selecting one alternative over the other. For this report, all three alternatives are treated equally and no crash modification factors or calibration factors are applied to any of the alternatives for weather related crashes.

Crash Prediction Results for Proposed Alternatives

No Action Alternative

The existing alignment had 253 total crashes and 101 fatal and injury related crashes for the 10 year period from January 1, 2003 through December 31, 2012.

As AADTs between Thorncreek Road and Moscow grow and the two lane highway approaches its capacity, passing opportunities will decrease and crashes on US-95 are expected to increase. The frequency of crashes is predicted to increase at the same rate as the growth rate, or at 1.63% per year. Using a growth rate of 1.63% per year for crashes is reasonable because greater traffic volumes increase predicted crashes in HSM calculations. Using this method is a quick and easy way to predict future crashes by extrapolating existing crash data. The growth rate of predicted crashes used for this method compares reasonably well with the growth rate of predicted crashes on the action alternatives without completing extensive crash prediction calculations.

Between 2017 and 2036, the total number of crashes on the No Action Alternative is predicted to be 642.5 total crashes and 256.5 fatal and injury related crashes if no improvements are made. Increasing actual crash data for the existing alignment with a growth rate is a reasonable projection of crashes for the No Action Alternative. The predictions of crashes per year are shown in Appendix E.

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Alternative E2

Alternative E2 is predicted to have the fewest crashes of the three action alternatives and the No Action Alternative. Alternative E2 is the shortest alternative, has the fewest county road intersections, and has the fewest commercial and residential approaches. These factors all reduce the predicted crash rate. A grade separation is assumed at Eid Road due to the topography of the land and the turning movements in and out of the trailer park. Supporting data and assumptions used to make crash predictions are in Appendix C.1 and the crash prediction calculations used to generate the table below are in Appendix E. Table 9 shown below summarizes the crash data on Alternative E2 between 2017 and 2036.

| Table 9: HSM Crash Results for Alternative E2 | | | | | | |
|---|---------------|-----------------------------|-----------------|-----------------------------|--|--|
| ······ | Constructio | n Year 2017 | Crashes From 20 | 017 Through 2036 | | |
| | Total Crashes | Fatal and Injury Crashes | Total Crashes | Fatal and Injury Crashes | | |
| Rural Divided Multilane Segment | 6.1 | 3.3 | 142.9 | 77.1 | | |
| Suburban Segment | 0.9 | 0.3 | 22.1 | 6.6 | | |
| South Old US-95 Intersection | 0.2 | 0.1 | 5.7 | 1.9 | | |
| North Old US-95 Intersection | 0.4 | 0.1 | 8.8 | 3.4 | | |
| Total | 7.6 | 3.8 | 179.5 | 89.0 | | |

Crashes within the remaining US-95 Loop once Alternative E2 is constructed were also calculated. To calculate the crashes on the remaining US-95 Loop, Existing US-95 was separated into 23 different segments based on roadway geometry and other factors. The different segments and assumptions used for the calculations are shown in Appendix C.1. Crashes for all segments and intersections onto the remaining US-95 Loop were calculated and results are shown in Appendix E. More crashes are predicted on the remaining loop for E2 than the remaining loop for W4 and C3 because the remaining loop on E2 is longer, has a greater traffic volume, and has more intersections. Since the traffic volumes are much smaller on the remaining loop for the action alternatives, Alternative E2 and the remaining US-95 Loop still has a significant safety advantage over Alternatives C3 and W4 with their respective remaining loops.

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| Table 10: HSM | Crash Results for | Alternative E2 and | d the Remaining US | -95 Loop |
|----------------------|--------------------------|-----------------------------|--------------------------------|-----------------------------|
| | Construction Year 2017 | | Crashes From 2017 Through 2036 | |
| | Total Crashes | Fatal and Injury Crashes | Total Crashes | Fatal and Injury Crashes |
| Alternative E2 | 7.6 | 3.8 | 179.5 | 89.0 |
| Remaining US-95 Loop | 1.6 | 0.6 | 34.4 | 11.8 |
| Total | 9.2 | 4.4 | 213.9 | 100.7* |

*Note: Differences between the total number and the sum of components are due to rounding. The actual numbers that have not been rounded can be found in Appendix E.

An estimate of the economic cost of all accidents on Alternative E2 can be calculated using the HSM Crash Results shown above, the economic costs of the different crash types reported in Idaho Traffic Crashes 2012, the average frequency of the different injury and fatal accidents on Idaho's Highways, and the average multiple car crash frequency.

The estimated economic cost of all crashes on E2 between 2017 and 2036 is about \$26,000,000 and the estimated economic cost of crashes on E2 and the remaining US-95 Remaining Loop between 2017 and 2036 is about \$29,500,000. Supporting data, assumptions, and calculations used to calculate the economic cost of crashes is shown in Appendix D.

Alternative C3

Alternative C3 is predicted to be the least safe action alternative in terms of total crashes and is tied with Alternative W4 with the most fatal and injury crashes. It has the longest five lane suburban section with a two-way left turning lane of the three action alternatives. Crashes are predicted at a rate of 3.4 crashes per centerline mile for the five lane suburban section while the rural four lane divided section has a predicted rate of 1.1 crashes per mile. Alternative C3 also has the most residential and commercial approaches of the three alternatives. The numerous residential and commercial approaches result in greater numbers of predicted crashes due to vehicles turning on and off of US-95. Five at-grade intersections at Eid Road, Clyde Road, Cameron Road, North Old US-95, and South Old US-95 must be constructed to accommodate local traffic and crashes associated with the additional county road intersections are predicted.

A grade separation is currently assumed at Zeitler Road. Supporting data and assumptions used to make crash predictions are in Appendix C.2 and the crash prediction calculations used to

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generate the table is in Appendix E. Table 11, shown below, summarizes the predicted crashes for Alternative C3.

| | Table 11: HSM Crash Results for Alternative C3 | | | | | | |
|------------------------------------|--|-----------------------------|--------------------------------|-----------------------------|--|--|--|
| | Constructio | n Year 2017 | Crashes From 2017 Through 2036 | | | | |
| | Total Crashes | Fatal and Injury Crashes | Total Crashes | Fatal and Injury Crashes | | | |
| Rural Divided Multilane Segment | 4.9 | 2.7 | 115.2 | 62.1 | | | |
| Suburban Segment | 4.8 | 1.5 | 111.6 | 33.6 | | | |
| South Old US-95 Intersection | 0.3 | 0.1 | 8.2 | 3.5 | | | |
| Eid Road Intersection | 0.2 | 0.1 | 5.3 | 1.7 | | | |
| Cameron Road Intersection | 0.2 | 0.1 | 3.7 | 1.7 | | | |
| Clyde Road Intersection North | 0.2 | 0.1 | 5.6 | 2.8 | | | |
| North Old US-95 Intersection | 0.2 | 0.1 | 4.2 | 2.2 | | | |
| Total | 10.8 | 4.6* | 253.8 | 107.7 | | | |

*Note: Differences between the total number and the sum of components are due to rounding. The actual numbers that have not been rounded can be found in Appendix E.

Crashes within the remaining US-95 Loop once Alternative C3 is constructed were also calculated. To calculate the crashes on the remaining US-95 Loop, Existing US-95 was separated into 10 different segments based on roadway geometry and other factors as shown in Appendix C.2. Crashes for all segments and intersections onto the remaining US-95 Loop were calculated. Fewer crashes are predicted on the remaining loop for C3 than the remaining loop for E2 and W4 because the remaining loop on C3 is shorter, has a smaller traffic volume, and has more intersections. Since the traffic volumes are much smaller on the remaining loop for the action alternatives, the safety benefits from having a shorter remaining loop with less traffic does not offset the safety advantage of Alternative E2, but it does make Alternative C3 safer than Alternative W4 in terms of fatal and injury crashes and total economic costs as shown below. The calculations are shown in Appendix E.

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| Table 12: H | SM Crash Results | for Alternative C3 | and Remaining US-9 | 5 Loop |
|----------------------|------------------|-----------------------------|--------------------------------|-----------------------------|
| | Constructio | on Year 2017 | Crashes From 2017 Through 2036 | |
| | Total Crashes | Fatal and Injury Crashes | Total Crashes | Fatal and Injury Crashes |
| Alternative C3 | 10.8 | 4.6 | 253.8 | 107.7 |
| Remaining US-95 Loop | 0.3 | 0.1 | 6.4 | 2.3 |
| Total | 11.1 | 4.7 | 260.2 | 110.0 |

An estimate of the economic cost of all accidents on Alternative C3 can be calculated using the HSM Crash Results shown above, the economic costs of the different crash types reported in Idaho Traffic Crashes 2012, the average frequency of the different injury and fatal accidents on Idaho's Highways, and the average multiple car crash frequency.

The estimated economic cost of crashes on C3 between 2017 and 2036 is calculated to be about \$32,000,000 and the estimated economic cost of crashes on C3 and the remaining US-95 Loop between 2017 and 2036 is calculated to be about \$33,000,000. The data, assumptions, and calculations for the economic cost of crashes is shown in Appendix D.

Alternative W4

Alternative W4 is predicted to have more total crashes, fatal crashes, and injury crashes than Alternative E2, but is predicted to have fewer total crashes than Alternative C3. Alternative W4 is tied with Alternative C3 in fatal and injury crashes. Alternative W4 is the longest proposed action alternative, and has four proposed county road intersections. A grade separation at Snow Road is assumed due to the topography of the land in relation to Snow Road.

Supporting data and assumptions used to make crash predictions are in Appendix C.3 and the crash prediction calculations used to generate the table is in Appendix E. Table 15, shown below, summarizes the predicted crashes for Alternative W4.

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| | Table 13: HSM Crash Results for Alternative W4 | | | | | | |
|-------------------------|--|----------------|--------------------------------|------------------|--|--|--|
| | Constructio | n Year 2017 | Crashes From 2017 Through 2036 | | | | |
| | Total Crashes | Fatal and | Total Crashes | Fatal and Injury | | | |
| | | Injury Crashes | | Crashes | | | |
| Rural Divided Multilane | 6.9 | 3.8 | 163.1 | 88.0 | | | |
| Segment | | | | | | | |
| Suburban Segment | 1.1 | 0.3 | 26.2 | 7.9 | | | |
| Eid Road Intersection | 0.3 | 0.1 | 8.2 | 3.5 | | | |
| Jacksha Road | 0.3 | 0.1 | 7.7 | 3.3 | | | |
| Intersection | | | | | | | |
| South Old US-95 | 0.2 | 0.1 | 5.2 | 1.7 | | | |
| Intersection | | | | | | | |
| North Old US-95 | 0.4 | 0.1 | 8.8 | 3.4 | | | |
| Intersection | | | | | | | |
| Total | 9.3* | 4.6* | 219.3 | 107.7 | | | |

*Note: Differences between the total number and the sum of components are due to rounding. The actual numbers that have not been rounded can be found in Appendix E.

Crashes within the remaining US-95 Loop if Alternative W4 is constructed were also calculated. To calculate the crashes on the remaining US-95 Loop, Existing US-95 was separated into 12 different segments based on roadway geometry and other factors as shown in Appendix C.3. Crashes for all segments and intersections onto the remaining US-95 Loop were calculated. Fewer crashes are predicted on the remaining loop of W4 than the remaining loop of E2 because the remaining loop on W4 is shorter, has a smaller traffic volume, and has fewer intersections. More crashes are predicted on the remaining loop of W4 than the remaining loop of C3, because the remaining loop on C3 is shorter and has fewer intersections. Since the traffic volumes and their predicted growth rates are much smaller on the remaining loop with less traffic does not offset the safety advantage of Alternative E2, but it does make Alternative C3 safer than Alternative W4 in terms of fatal and injury crashes as shown below. Calculations are shown in Appendix D.

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| Table 14: HS | SM Crash Results | for Alternative W4 | and Remaining US-9 | 95 Loop |
|----------------------|----------------------|-------------------------|--------------------|------------------|
| | Constructio | on Year 2017 | Crashes From 20 | 017 Through 2036 |
| - | Total Crashes | Total Crashes Fatal and | | Fatal and Injury |
| | | Injury Crashes | | Crashes |
| W4 Alternative | 9.3 | 4.6 | 219.3 | 107.7 |
| Remaining US-95 Loop | 1.3 | 0.4 | 26.9 | 9.2 |
| Total | 10.5* | 5.1* | 246.2 | 116.9 |

*Note: Differences between the total number and the sum of components are due to rounding. The actual numbers that have not been rounded can be found in Appendix E.

An estimate of the economic cost of all accidents on Alternative W4 can be calculated using the HSM Crash Results shown above, the economic costs of the different crash types reported in Idaho Traffic Crashes 2012, the average frequency of the different injury and fatal accidents on Idaho's Highways, and the average multiple car crash frequency.

The estimated economic cost of crashes on Alternative W4 between 2017 and 2036 is calculated to be about \$32,000,000 and the estimated economic cost of crashes on Alternative W4 and the remaining US-95 Loop is calculated to be about \$35,000,000. Data, assumptions, and calculations used to create the total economic cost of crashes can be found in Appendix D.

Conclusion

The First Edition of the AASHTO Highway Safety Manual (2010) was used to calculate predicted crash rates for the three different alternatives carried forward on the Thorncreek to Moscow project. AASHTO and TRB Task forces recognize that that the Highway Safety Manual is the most accepted and current document that provides knowledge and practices relating to safety evaluation and management. The manual was developed as a tool for crash analysis and estimation. The following table summarizes the calculations based on the First Edition of the AASHTO Highway Safety Manual:

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| Table 15: Predicted Crashes For Proposed Alternatives | | | | | |
|---|---------------|-----------------------------|---------------|-----------------------------|--|
| Completion Year 2017 Crashes From 2017 Through 2036 | | | | | |
| Alternative | Total Crashes | Fatal and Injury Crashes | Total Crashes | Fatal and Injury Crashes | |
| No Action | 27.4 | 11.0 | 642.5 | 256.5 | |
| E2 | 7.6 | 3.8 | 179.5 | 89.0 | |
| C3 | 10.8 | 4.6 | 253.8 | 107.7 | |
| W4 | 9.3 | 4.6 | 219.3 | 107.7 | |

The ITD also calculated the crashes on each of the remaining US-95 Loops for the action alternatives. The following table shows the crash predictions for each alternative after calculations for the remaining US-95 Loop are added.

| | Completio | on Year 2017 | Crashes From 2 | 017 Through 2036 |
|-------------|---------------|-----------------------------|----------------|-----------------------------|
| Alternative | Total Crashes | Fatal and Injury Crashes | Total Crashes | Fatal and Injury Crashes |
| No Action | 27.4 | 11.0 | 642.5 | 256.5 |
| E2 | 9.2 | 4.4 | 213.9 | 100.7 |
| C3 | 11.1 | 4.7 | 260.2 | 110.0 |
| W4 | 10.5 | 5.1 | 246.2 | 116.9 |

Calculations from the AASHTO Highway Safety Manual show that all alternatives are predicted to be safer than the No Action Alternative and eliminate two High Crash Locations. Selecting any action alternative is predicted to significantly reduce fatalities and the different crash types; however, selecting Alternative E2 will result in the greatest safety benefit. Calculations show that Alternative E2 is predicted to be safer than both Alternatives C3 and W4,

both in total crashes, and fatal and injury crashes. The following are the reasons that Alternative E2 is predicted to be the safest proposed alternative:

- Alternative E2 is the shortest alternative.
- Alternative E2's suburban section is 1.18 miles shorter than Alternative C3's suburban section.

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- Alternative E2 has the fewest public road intersections.
- Alternative E2 has the fewest residential and commercial approaches.

Alternative C3 is not safer than Alternative E2 primarily because of the following:

- Alternative C3 has the longest 5 lane Suburban Section. The suburban section is 1.18 miles longer than the suburban section of Alternative E2. The suburban section generates more crashes than the rural section because the travel lanes are closer together and not separated by a median and because the five lane section has more turning movements from commercial and residential approaches that cause more crashes.
- Alternative C3 has the most residential and commercial approaches.
- Alternative C3 has the most public road intersections.

Alternative W4 is not safer than Alternative E2 primarily because of the following:

- Alternative W4 is the longest alternative and is longer than Alternative E2 by 0.84 miles.
- Alternative W4 has more county road intersections than Alternative E2.

All calculations in this report are for a 20 year design period from the time the construction of Thorncreek to Moscow is expected to be complete. Selecting the safest alignment will result in a safety benefit every year after the construction of the new highway. With time, relatively small differences in predicted crashes between the alternatives each year will grow to a significant safety benefit for an alternative that is predicted to have fewer crashes. Alternative E2 has 18.7 fewer predicted fatal and injury crashes than Alternatives C3 and W4 in the first 20 years and this difference in predicted crashes will continue to grow with time. It is not unreasonable to predict that lives will be saved and numerous injuries will be prevented over the entire life of US-95 Thorncreek to Moscow by selecting Alternative E2 using these crash predictions and the average fatality rates in Idaho.

From a safety perspective, Alternative E2 satisfies the Purpose and Need Statement to a greater extent than Alternatives C3 and W4 and is the recommended alternative based on safety because it has the lowest predicted crash rate. The reason it has the lowest predicted crash rate is because it is the shortest alternative, has the fewest public road intersections, and has the fewest approaches. Selecting Alternative E2 will result in a safety benefit every year for the entire life of the highway and will likely save lives and prevent injuries.

Appendix A.1

Crash Data

- Thorncreek Road to Moscow Crash Data From 1/03 through 12/12
- Thorncreek Road to Moscow Injury Classification Data From 1/03 through 12/12
 - Lewiston Hill to Thorncreek Road Crash Data From 10/07 through 12/12

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| Property Dmg Report | 10/16/2008 | Thursday | 0 | 0 | Dark, No Street Lights | Wet | Cloudy | None | None | None | On Roadway | Nonjunction | Animal - Domestic | Descending S | Negotiating Curve | Pickup/Van/ Panel/SUV | 338.100 | 20 |
|----------------------|--------------|-----------|----------|---------------------|---------------------------|---------|---------|------|----------------------------------|----------------------------------|---------------------------|---|------------------------|--------------|---------------------------|--------------------------|----------|----------|
| Property Dmg Report | 11/22/2004 | Monday | 0 | 0 | Day | Dry | Cloudy | None | None | Inattention | Right Shoulder | Nonjunction | Overturn | Descending S | Going Straight | Car I | 338.100 | 19 |
| B Injury Accident | 8/19/2003 | Tuesday | | 0 | Dark, No Street Lights | Dry | Clear | None | Speed Too Fast For Conditions | None | Left Shoulder | Nonjunction | | Ascending | Negotiating Curve As | Car | 338.100 | 18 |
| B Injury Accidemt | 2/22/2007 | | 0 | 0 | - | | | | None | None | Outside Right-Of- Way | Nonjunction | 6 | Descending N | Going Straight De | Pickup/Van/ Panel/SUV | 338.100 | 13 |
| B Injury Accident | 2/22/2007 | Thursday | 2 | | Dark, No Street Lights | Snow | Cloudy | None | None | None | | Nonjunction | Side Swipe Opposite | Descending S | Going Straight De | Car | 338.100 | 1 |
| Property Dmg Report | 12/4/2005 | | 0 | • | | | - | | Following Too Close | Inattention | On Roadway | Nonjunction | Rear-End | Ascending N | Going Straight As | | 338.100 | 16 |
| Property Dmg Report | 12/4/2005 | Sunday | 0 | 0 | Day | | Cloudy | None | None | None | | Nonjunction | Rear-End | Ascending N | Going Straight As | Pickup/Van/ Panel/SUV | 338.100 | 16 |
| Property Drng Report | 9/15/2008 | Monday | 0 | • | Dark, No Street Lights | Dīv | Clear | None | None | None | On Roadway | Nonjunction | Animal - Wild | Descending S | Negotiating Curve De | Car | 338.056 | 5 |
| Property Dmg Report | 11/28/2011 | Monday | • | 0 | Dawn or Dusk | Ē | Cloudy | None | None | Speed Too Fast For Conditions | Private Property | Nonjunction | Overturn | Ascending N | Going Straight As | Pickup | 338.040 | 14 |
| C Injury Accident | 4/6/2010 | Tuesday | 1 | 0 | Dark, No Street Lights | Ice | Cloudy | None | None | Speed Too Fast For Conditions | Roadside or Sidewalk | Nonjunction | Overturn | Ascending N | Going Straight As | Pickup/Van/ Panel/SUV | 338.038 | 13 |
| Property Dmg Report | 2/25/2012 | Saturday | • | 0 | Day | Snow | Blowing | None | None | Speed Too Fast For Conditions | Right Shoulder | Nonjunction | Ditch | Ascending N | Going Straight As | Pickup | 338.019 | 5 |
| Fatal Accident | 1/7/2011 | | 0 | 0 | | | | | None | None | | Nonjunction | Angle | Descending S | Going Straight De | Car | 338.012 | |
| Fatal Accident | 1/7/2011 | Friday | 4 | 1 | Dark, No Street Lights | Snow | Snow | None | Drug Impaired | Drove Left of Center | On Roadway | Nonjunction | Angle | Descending N | Going Straight Dev | Car | 338.012 | Ħ |
| C Injury Accident | 11/20/2012 | Tuesday | 1 | • | Dark, No Street Lights | Wet | Rain | None | None | Animal(s) in Roadway | On Roadway | Nonjunction | Animal - Wild | Descending S | Going Straight Des | Car | 338.004 | 10 |
| C Injury Accident | 9/30/2012 | Sunday | - | 0 | Day | Dry | Clear | None | Failed to Maintain Lane | Alcohol Impaired | Outside Right-Of- Way | Nonjunction | Overturn | Ascending N | Going Straight As | | 337.998 | و. |
| Property Dmg Report | 4/16/2010 | | 0 | • | | | | | None | None | On Roadway | Nonjunction | Animal - Wild | Descending S | Going Straight Des | Pickup/Van/ Panel/SUV | 337.973 | • |
| Property Dmg Report | 4/16/2010 | Friday | 0 | • | Dark, No Street Lights | Dıy | Clear | None | None | None | On Roadway | Nonjunction | Animal - Wild | Descending S | Going Straight Des | Car | 337.973 | |
| B Injury Accident | 8/17/2012 | | 0 | • | | | | | None | None | Roadside or Sidewalk | Nonjunction | Tree | Ascending N | Going Straight Asc | Car | 337.941 | 7 |
| B Injury Accident | 8/17/2012 | | 0 | 0 | | | | | None | None | | Nonjunction | Head-On | Ascending N | Going Straight Asc | Car | 337.941 | 7 |
| B Injury Accident | 8/17/2012 | Friday | ω | 0 | Day | Dry | Clear | None | Failed to Maintain Lane | Asleep, Drowsy, Fatigued | On Roadway | Nonjunction | Overturn | Ascending S | Going Straight Asc | < | 337.941 | - |
| B Injury Accident | 12/1/2010 | Wednesday | 4 | 0 | Day | Wet | Cloudy | None | Overcorrected | Asleep, Drowsy, Fatigued | Roadside or Sidewalk | Nonjunction | Overturn | Descending S | Going Straight Des | Pickup/Van/ Panel/SUV | 337.900 | 6 |
| C Injury Accident | 9/4/2008 | | 0 | 0 | | | | | Fallowing Tap Close | Inattention | On Roadway | Driveway/Alley/P arking Lot Related | Rear-End | Descending S | Going Straight Des | Pickup/Van/ Panel/SUV | 337.897 | v |
| C Injury Accident | 9/4/2008 | Thursday | 1 | 0 | Day | Dry | Clear | None | None | None | | Driveway/Alley/P arking Lot Related | Rear-End | Descending S | Slowing in Traffic Des | Gr | 337.897 | U |
| Property Dmg Report | 9/27/2008 | Saturday | • | 0 | Day | Dη | Clear | None | Inattention | None | Roadside or Sidewalk | Nonjunction | Fence | Ascending N | Going Straight Asc | Car | 337.800 | 4 |
| A Injury Accident | 1/30/2007 | Tuesday | 2 | • | Day | Wet | Fog | None | Inattention | Tire Defect | Roadside or Sidewalk | Nonjunction | Ditch | Ascending N | Going Straight Asc | | 337.800 | ω |
| Property Dmg Report | 3/28/2008 | Friday | 0 | 0 | Dark, No Street Lights | lce | Cloudy | None | None | None | Roadside or Sidewalk | Nonjunction | Overturn | Descending S | Going Straight Des | Pickup/Van/ Panel/SUV | 337.700 | 2 |
| Property Drng Report | 11/30/2005 | Wednesday | 0 | • | Day | Slush | Snow | None | None | Other | Right Shoulder | Nonjunction | Overturn | Ascending N | Going Straight Asc | Pickup/Van/ Panel/SUV | 337.689 | 4 |
| Severity | AccidentDate | Day | Injuries | Fatalities Injuries | Light | Surface | Weather | Road | Contributing Circumstance 2 | Contributing Circumstance 1 | Event Relation To Road | Junction | Event 1 | Lane | Driver Action Dir | Milepost Vehicle Type D | Milepost | * |

All Accidents on 03-33 between

Fatalities 6

Total Crashes 253

Injuries 152

| 47 | 46 | 45 | 4 | 43 | 42 | 41 | 8 | 39 | 38 | 37 | 36 | 35 | 35 | 34 | 34 | 33 | 32 | 31 | 30 | 8 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 22 | 22 | 12 | # |
|--------------------------|-------------------------------|-------------------------|----------------------------------|----------------------------------|--------------------------|--------------------------|----------------------------------|---------------------------|----------------------------------|---------------------------|----------------------------------|--------------------------|---------------------------|------------------------|----------------------------------|-----------------------------|--------------------------|-----------------------------|--------------------------|-----------------------------|--------------------------|--------------------------|----------------------------------|---------------------------|---------------------------|---------------------|---------------------------|-------------------|------------------------|-----------------------------|----------------------------------|--------------------------------|
| 338.700 | 338,600 | 338.600 | 338.500 | 338.500 | 338.500 | 338.400 | 338.400 | 338.400 | 338.300 | 338.300 | 00E'8EE | 338.300 | 338.300 | 338.200 | 338.200 | 338.200 | 338.200 | 338.200 | 338.200 | 338.200 | 338.200 | 338.200 | 338.200 | 338.130 | 338.100 | 338.100 | 338.100 | 338.100 | 338.100 | 338.100 | 338,100 | Milepost |
| Pickup/Van/ Panel/SUV | Pickup | Car | Pickup | Pickup/Van/ Panel/SUV | Pickup/Van/ Panel/SUV | SUV/Crossov er | SUV/Crossov er | Gar | Car | Pickup/Van/ Panel/SUV | Pickup/Van/ Panel/SUV | Pickup/Van/ Panel/SUV | Pickup/Van/ Panel/SUV | Pickup | Car | SUV/Crossov er | Car | Car | Pickup/Van/ Panel/SUV | Pickup/Van/ Panel/SUV | Pickup/Van/ Panel/SUV | Pickup/Van/ Panel/SUV | Pickup/Van/ Panel/SUV | Car | Car | Car | Car | Car | Car | Pickup/Van/ Panel/SUV | Pickup/Van/ Panel/SUV | Vehicle Type |
| Merging | Merging | Negotiating Curve | Going Straight | Going Straight | Negotiating Curve | 0 | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Negotiating | Negotiating | Negotiating | Going Straight | Going Straight | Negotiating Curve | Negotiating Curve | Negotiating Curve | Going Straight | Going Straight | Going Straight | Negotiating Curve | Going Straight | Negotiating | Negotiating | Negotiating | Negotiating Curve | Negotiating Curve | Going Straight | Driver Action |
| Descending | Descending | Descending | t Descending | t Descending | Descending | t Ascending | t Descending | t Ascending | t Ascending | Ascending | Ascending | t Descending | Descending | Descending | Descending | Ascending | Ascending | Descending | Descending | Descending | Descending | Ascending | Descending | Descending | Descending | Descending | Ascending | Descending | Descending | Descending | Ascending | Lane Direction |
| 5 | s | S | z | s | s | z | z | z | s | z | z | s | z | S | z | s. | s | S E | s | z | S A | z | z | s | SA | S | N Ar | s | s | z | z | |
| Side Swipe Same | Overturn | Guardrail Face | Overturn | Guardrail Face | Overturn | Overturn | Overturn | Overturn | Overturn | Overturn | Ditch | Head-On | Head-On | Side Swipe Opposite | Side Swipe Opposite | Overturn | Ditch | Embankment | Side Swipe Opposite | Overturn | Animal - Wild | Ditch | Overturn | Overturn | Animal - Wild | Ditch | Animal - Wild | Head-On | Side Swipe Opposite | Head-On | Overturn | Event 1 |
| Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Junction |
| | Outside Right-Of- Way | Roadside or Sidewalk | Left Shoulder | Right Shoulder | Right Shoulder | Outside Right-Of- Way | Left Shoulder | Roadside or Sidewalk | Left Shoulder | Outside Right-Of Way | Roadside or Sidewalk | | On Roadway | | On Roadway | Left Shoulder | Outside Right-Of- Way | Roadside or Sidewalk | | On Roadway | On Roadway | Roadside or Sidewalk | Left Shoulder | Roadside or Sidewalk | On Roadway | Right Shoulder | On Roadway | | | On Roadway | Roadside or Sidewalk | Event Relation To Road |
| None | Spee | Speed Too Fast Fr | Speed Too Fast For Conditions | Speed Too Fast For Conditions | | rf-1 Other | Speed Too Fast For Conditions | Alcohol Impaired | Speed Too Fast For Conditions | | Speed Too Fast For Conditions | None | None | None | Speed Too Fast For Conditions | Asleep, Drowsy, Fatigued | Inattention | Asleep, Drowsy, Fatigued | None | Asleep, Drowsy, Fatigued | None | None | Speed Too Fast For Conditions | Inattention | Animal(s) in Roadway | Other | None | None | None | Inattention | Speed Too Fast For Conditions | |
| None | or Failed to Maintain Lane | or None | None | None | None | Vision Obstruction | None | Inattention | " Drove Left of Center | None | r None | None | None | None | Drave Left of Center | None | None | None | None | Drove Left of Center | None | None | Following Too Close | None | None | None | None | None | None | Asleep, Drowsy, Fatigued | None | Contributing Circumstance 2 |
| None | None | None | None | None | None | None | None | None | None | Other | None | _ | None | | None | None | None | None | | None | None | None | | None | None | None | None | | | None | None | Road Condition |
| Clear | Cloudy | Snow | Clear | Snow | Cloudy | Snow | Clear | Clear | Snow | Snow | Cloudy | | Snow | | Clear | Clear | Cloudy | Clear | | Clear | Clear | Snow | Clear | Clear | Clear | Cloudy | Cloudy | | | Clear | Snow | Weather |
| Dry | lce | Ice | 8 | Snow | Ice | Ice | lce | Dıy | Slush | Snow | Snow | | Snow | | Ice | Dry | Slush | DIY | | Drγ | Dry | lce | R | Dry | Dıy | Slush | Dry | | | Dry | Ice | Surface |
| Day | Day | Day | Dawn or Dusk | Day | Lights | Day | Dawn or Dusk | Dark, No Street Lights | Day | Dark, No Street Lights | Day | | Dark, No Street Lights | | Dark, No Street Lights | Dark, No Street Lights | Day | Day | | Day | Lights | Dark, No Street | Day | Dark, No Street Lights | Dark, No Street Lights | Day | Dark, No Street Lights | | | Day | Day | Light |
| 0 | 0 | • | 0 | 0 | 0 | 0 | • | 0 | 0 | 0 | • | 0 | 0 | 0 | • | • | • | 0 | 0 | 0 | • | • | • | 0 | • | • | • | • | 0 | 0 | • | Fatalities Injuries |
| 0 | 0 | 0 | • | 0 | 0 | 0 | 0 | 1 | ò | 0 | 0 | • | ω | • | • | • | 0 | | • | 2 | 2 | • | - | - | | • | | • | • | w | 0 | njuries |
| Thursday | Sunday | Wednesday | Thursday | Saturday | Sunday | Saturday | Saturday | Friday | Saturday | Saturday | Tuesday | | Saturday | | Friday | Tuesday | Thursday | Sunday | | Monday | Thursday | Friday | Monday | Wednesday | Sunday | Tuesday | Monday | | | Monday | Saturday | Day |
| 8/14/2008 | 11/18/2012 | 3/14/2012 | 4/7/2011 | 12/12/2009 | 3/23/2003 | 2/25/2012 | 2/5/2011 | 5/12/2006 | 3/19/2011 | 1/10/2009 | 1/21/2003 | 12/22/2007 | 12/22/2007 | 12/7/2012 | 12/7/2012 | 6/12/2012 | 1/19/2012 | 4/17/2011 | 4/27/2009 | 4/27/2009 | 10/25/2007 | 2/23/2007 | 11/27/2006 | 10/1/2003 | 11/4/2012 | 3/20/2012 | 10/25/2010 | 3/1/2010 | 3/1/2010 | 3/1/2010 | - | AccidentDate |
| Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | B Injury Accident | Property Dmg Report | Property Dmg Report | Property Dmg Report | A Injury Accident | A Injury Accident | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | Property Dmg Report | A Injury Accident | B Injury Accident | C Injury Accident | Property Dmg Report | C Injury Accident | A Injury Accident | A Injury Accident | A Injury Accident | Property Dmg Report | Severity |

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| | | | | Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction | Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction | Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction | Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction | Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction | Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction | Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction | Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | NonJunction | Nonjunction |
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| Dry Dawn or Dusk | | | | | | | | | | | | | | | | | | | |
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| | Sunday 10/9/2011 | Thursday 5/8/2008 Sunday 11/21/2010 | | | | | | | | | | | | | | | | | |
| | D10 Property Dmg Report 11 Property Dmg Report | 08 Property Dmg Report | | ++ | | | | | | | | | | | | | | | |

| 101 | 100 | 66 | 8 | 97 | 96 | 96 | ß | 22 | S S | 9 2 | - 19 | 8 | 89 | 88 | 87 | 86 | 86 | 8 | 84 | 8 | 82 | 82 | 81 | 8 | 79 | 78 | ۲ | 76 | * |
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| 1 339.320 | 339.300 | 339.300 | 339.300 | 339.250 | 339.200 | 339.200 | 339.200 | 339.200 | 339.200 | 339.200 | 339.200 | 339.200 | 339.200 | 339.200 | 339.200 | 339,200 | 339.200 | 339.200 | 339.200 | 339.200 | 339.200 | 339.200 | 339.200 | 339.120 | 339.100 | 339.100 | 339.100 | 339.100 | Milepost |
|) SUV/Crossov er | SUV/Crossov er |) Саг |) Car | Gar |) Car | Car | SUV/Crossov er | Car | Car | Car | | Pickup/Van/ Panel/SUV | | Car | Truck - 2 Axle/6 Tires | = | Tractor - 1 Trailer | Car | Car | Car | Pickup/Van/ Panel/SUV | G | Car | Pickup/Van/ Panel/SUV | Pickup | Motorcycle | Pickup/Van/ Panel/SUV | Car | Vehicle Type |
| / Negotiating Curve | / Negotiating Curve | Negotiating Curve | Negotiating | Negotiating Curve | Negotiating Curve | Negotiating Curve | Ne | Negotiating | Negotiating Curve | Negotiating Curve | Negotiating Curve | Going Straight | Going Straight | Negotiating | Going Straight | Negotiating Curve | Negotiating | Negotiating Curve | Negotiating Curve | Negotiating Curve | Going Straight | Negotiating Curve | Negotiating Curve | Going Straight | Going Straight | Negotiating | Going Straight | Going Straight | Driver Action |
| Descending | Ascending | Ascending | Ascending | Ascending | Descending | Descending | Ascending | Ascending | Ascending | Descending | Ascending | Descending | Ascending | Descending | Ascending | Descending | Descending | Descending | Ascending | Descending | Descending | Descending | Descending | Ascending | Ascending | Descending | Ascending | Descending | Lane Direction |
| z | z | z | s | z | z | s | z | z | s | Z T | z | S G | z o | z | z | s | z | z | z | s | 2 | z | z | z | s | S GL | S Er | z G | |
| Guardrail Face | Overturn | Overturn | Ditch | Overturn | Non-Contact Unit | Ditch | Overturn | Ditch | Overturn | Concrete Traffic Barrier | Overturn | Guardrail Face | Guardrail Face | Overturn | Overturn | Side Swipe Opposite | Side Swipe Opposite | Guardrail Face | Overturn | Ditch | Side Swipe Opposite | Side Swipe Opposite | Overturn | Overturn | Tree | Guardrail Face | Embankment | Guardrail Face | Event 1 |
| Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nanjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Junction |
| Left Shoulder | Outside Right-Of- Way | Outside Right-Of- Way | Left Shoulder | Roadside or Sidewalk | On Roadway | Left Shoulder | Right Shoulder | Right Shoulder | Roadside or Sidewalk | Left Shoulder | Right Shoulder | Right Shoulder | Right Shoulder | Left Shoulder | Roadside or Sidewalk | | On Roadway | Left Shoulder | Right Shoulder | Outside Right-Of- Way | | On Roadway | Left Shoulder | Right Shoulder | Outside Right-Of- Way | Right Shoulder | Left Shoulder | Roadside or Sidewalk | Event Relation To Road |
| Speed Too Fast For Conditions | f- Speed Too Fast For Conditions | None | Speed Too Fast For Conditions | Inattention | Wrong Side or Wrong Way | Other | Speed Too Fast For Conditions | Inattention | Speed Too Fast For Conditions | None | Alcohol Impaired | Other | Speed Too Fast For Conditions | None | Speed Too Fast For Conditions | None | None | None | None | Alcohol Impaired | None | Drove Left of Center | None | Speed Too Fast For Conditions | Speed Too Fast For Conditions | Other | Speed Too Fast For Conditions | Speed Too Fast For Conditions | Contributing Circumstance 1 |
| None | None | None | None | None | None | None | r Failed to Maintain | None | None | Drove Left of Center | Speed Too Fast For Conditions | None | r None | Overcorrected | r Inattention | None | Speed Too Fast For Conditions | Drove Left of Center | Speed Too Fast For Conditions | Overcorrected | None | Speed Too Fast For Conditions | None | None | None | Inattention | None | Drove Left of Center | Contributing Circumstance 2 |
| None | None | None | None | None | | None | None | None | None | None | | None | None | None | Poor Pavement Markings | | None | None | None | None | | None | None | None | None | None | None | None | Road Condition |
| Cloudy | Snow | Clear | Snow | Cloudy | | Cloudy | Cloudy | Clear | Clear | Clear | Snow | Sleet/Hail | Snow | Clear | Snow | | Snow | Clear | Cloudy | Clear | | Cloudy | Clear | Snow | Clear | Cloudy | Clear | Severe Cross Winds | Weather |
| Ice | Snow | Ice | Ice | Dry | | Slush | Wet | ρıγ | lce | lce | Snow | Ce | Snow | Dıy | R | | Snow | Dry | lœ | Dry | | R | la | Snow | lce | Ŗ | R | Slush | Surface |
| Dark, No Street Lights | Day | Dawn or Dusk | Day | Dark, No Street Lights | | Day | Dark, No Street Lights | Day | Day | Day | Dark, No Street Lights | Dawn or Dusk | Dark, No Street Lights | Dark, No Street Lights | Day | | Day | Day | Dark, No Street Lights | Dark, No Street Lights | | Dark, No Street Lights | Day | Dark, No Street Lights | Dark, No Street Lights | Day | Dawn or Dusk | Day | Light |
| 0 | • | 0 | 0 | 0 | 0 | 0 | 0 | 0 | • | • | 0 | • | 0 | 0 | 0 | 0 | • | 0 | 0 | • | 0 | 0 | 0 | 0 | • | • | • | • | Fatalities Injuries |
| • | 0 | 0 | 0 | - | • | • | 0 | 4 | 0 | 6 | - | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | • | 0 | 0 | 0 | ц | • | 2 | Injurtes |
| Wednesday | Saturday | Sunday | Wednesday | Thursday | | Thursday | Thursday | Saturday | Friday | Saturday | Sunday | Saturday | Saturday | Sunday | Wednesday | | Tuesday | Sunday | Saturday | Friday | | Monday | Saturday | Wednesday | Thursday | Thursday | Saturday | Wednesday | Day |
| 11/16/2011 | 2/11/2012 | 11/8/2009 | 12/31/2003 | 3/24/2005 | 3/22/2012 | 3/22/2012 | 11/8/2012 | 9/15/2012 | 12/9/2011 | 12/4/2010 | 11/21/2010 | 1/9/2010 | 1/10/2009 | 12/26/2004 | 1/7/2004 | 1/6/2004 | 1/6/2004 | 2/2/2003 | 12/1/2007 | 4/13/2007 | 3/26/2007 | 3/26/2007 | 11/18/2006 | 12/10/2003 | 3/1/2012 | 4/24/2003 | 2/22/2003 | 2/6/2008 | AccidentDate |
| Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | C Injury Accident | Property Dmg Report | Property Dmg Report | Property Dmg Report | C Injury Accident | Property Dmg Report | Property Dmg Report | B Injury Accident | Property Dmg Report | Property Dmg Report | B Injury Accident | B Injury Accident | Property Dmg Report | Property Dmg Report | Property Dmg Report | B Injury Accident | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | A Injury Accident | Property Dmg Report | C Injury Accident | Severity |

| Property Dmg Report | 10/31/2005 | | • | 0 | | | | | None | None | | Nonjunction | N Rear-End | Ascending | Stopped in Traffic | Pickup/Van/ | 340.300 | 125 |
|----------------------|--------------|-----------|---------|---------------------|----------------------------|---------|---------|------------------------------|----------------------------------|----------------------------------|-------------------------------------|-------------------------|--------------------------------|--------------|-----------------------|--------------------------|----------|-----|
| Property Dmg Report | 10/31/2005 | Monday | | 0 | Day | Wet | Cloudy | None | None | None | On Roadway | Nonjunction | N Rear-End | Ascending | Going Straight | | 340.300 | 125 |
| B Injury Accident | 1/24/2007 | | - | • | | + | | | None | None | | Nonjunction | N Head-On | Ascending | Going Straight | Pickup/Van/ Panel/SUV | 340.250 | 124 |
| B Injury Accident | 1/24/2007 | Wednesday | 2 | 0 | Day | Dry | Clear | None | Drove Left of Center | Distracted IN or ON Vehicle | On Roadway | Nonjunction | S Head-On | Ascending | Negotiating Curve | Car | 340.250 | 124 |
| B Injury Accident | 5/18/2012 | Friday | - | 0 | Day | Dıy | Clear | None | None | Animal(s) in Roadway | On Roadway | Nonjunction | S Ditch | Descending | Avoiding Obstacle | Саг | 340.200 | 123 |
| C Injury Accident | 12/14/2007 | Friday | ы | 0 | Dawn or Dusk | lce | Cloudy | None | Inattention | Drove Left of Center | Roadside or Sidewalk | Nonjunction | N Overturn | Descending | Going Straight | | 340.100 | 122 |
| Property Dmg Report | 5/26/2009 | Tuesday | 0 | • | Day | Dry | Clear | None | None | None | On Roadway | Nonjunction | S Other | Descending | Going Straight | - | 340.027 | 121 |
| Property Dmg Report | 3/26/2004 | Friday | 0 | 0 | Day | Dη | Cloudy | None | None | None | On Roadway | Nonjunction | N Other Object Not Fixed | Ascending | Going Straight | | 340.000 | 120 |
| B Injury Accident | 11/12/2008 | Wednesday | 2 | 0 | Dark, No Street Lights | Wet | Rain | None | None | Other | Off Roadway- Location Unknown | Nonjunction | N Overturn | Descending | Going Straight | Pickup/Van/ Panel/SUV | 339.900 | 119 |
| Property Dmg Report | 4/9/2011 | Saturday | 0 | • | Dark, No Street Lights | Dry | Clear | None | None | None | On Roadway | Nonjunction | N Animal - Wild | Ascending | Going Straight | Pickup | 339.850 | 118 |
| C Injury Accident | 10/1/2005 | Saturday | 1 | 0 | Dark, No Street Lights | Wet | Cloudy | None | Other | None | On Roadway | Nonjunction | N Animal - Wild | Ascending | Going Straight | G | 339.800 | 117 |
| Property Dmg Report | 12/12/2004 | Sunday | 0 | 0 | Day | ice | Clear | None | None | None | Left Shoulder | Nonjunction | S Embankment | Ascending | Turning Left | Pickup/Van/ Panel/SUV | 339.731 | 116 |
| Property Dmg Report | 6/5/2005 | Sunday | 0 | 0 | Дау | Wet | Rain | Other | None | None | Right Shoulder | Nonjunction | S Traffic Sign Support | Descending | Going Straight | Pickup/Van/ Panel/SUV | 339.700 | 115 |
| Property Drng Report | 2/2/2010 | | 0 | 0 | | | | | None | None | | Intersection Related | N Rear-End Turning | Ascending | ight | Car | 339.620 | 114 |
| Property Dmg Report | 2/2/2010 | | 0 | | | 1 | | | None | None | | Intersection Related | N Rear-End | Ascending N | Slowing in Traffic | Pickup/Van/ Panel/SUV | 339.620 | 114 |
| Property Dmg Report | 2/2/2010 | Tuesday | 0 | • | Day | Dıy | Cloudy | None | None | Inattention | On Roadway | Intersection Related | N Rear-End | Ascending N | Going Straight | Pickup/Van/ Panel/SUV | 339.620 | 114 |
| A Injury Accident | 1/30/2008 | Wednesday | 2 | 0 | Day | Ice | Clear | None | None | None | Roadside or Sidewalk | Nonjunction | V Embankment | Descending | Going Straight | Pickup/Van/ Panel/SUV | 339.620 | 113 |
| C Injury Accident | 12/13/2007 | Thursday | - | • | Day | łce | Clear | None | None | None | Roadside or Sidewalk | Nonjunction | | Ascending N | Going Straight | Car | 339.620 | 112 |
| C Injury Accident | 5/31/2007 | | • | 0 | | | | | None | None | | In Intersection | Same 5 Direction Turning | Descending S | Turning Left | Pickup/Van/ Panel/SUV | 339.620 | 111 |
| C Injury Accident | 5/31/2007 | Thursday | 4 | • | Day | Dry | Clear | None | None | Inattention | On Roadway | In Intersection | | Descending S | Passing | Pickup/Van/ Panel/SUV | 339.620 | Ë |
| Property Dmg Report | 10/27/2011 | | • | 0 | | | | | None | Improper Overtaking | Roadside or Sidewalk | Nonjunction | Same Direction Turning | Ascending | Passing | Pickup | 339.600 | 110 |
| Property Dmg Report | 10/27/2011 | Thursday | • | • | Day | Dry | Clear | None | None | Failed to Signal | | Nonjunction | | Ascending N | Turning Left | SUV/Crossov er | 339.600 | 110 |
| Property Dmg Report | 1/8/2011 | Saturday | • | 0 | Day | lce | Clear | None | None | Speed Too Fast For Conditions | Right Shoulder | Nonjunction | Overturn | Descending S | Going Straight | Pickup | 339.500 | 109 |
| Property Dmg Report | 8/15/2009 | Saturday | • | • | Dark, Street Lights Off | Dry | Cloudy | None | None | Other | On Roadway | Nonjunction | Animal - Wild | Descending N | ight | Pickup/Van/ Panel/SUV | 339.500 | 108 |
| Property Dmg Report | 12/21/2008 | Sunday | • | • | Dark, No Street | Snow | Snow | None | None | None | Roadside or Sidewalk | Nonjunction | Overturn | Descending N | 'n | Pickup/Van/ Panel/SUV | 339.500 | 107 |
| Property Dmg Report | 1/14/2008 | Monday | • | • | Dark, No Street Lights | Snow | Snow | None | Speed Too Fast For Conditions | None | Roadside or Sidewalk | Nonjunction | Embankment | Ascending S | Negotiating / | ŝ | 339.500 | 106 |
| Property Dmg Report | 11/19/2005 | Saturday | • | 0 | Dark, No Street Lights | Dry | Clear | None | None | None | On Roadway | Nonjunction | Animal - Wild | Ascending N | Going Straight | Car | 339.500 | 105 |
| C Injury Accident | 8/4/2005 | Thursday | 4 | 0 | Dawn or Dusk | Dry | Clear | Loose Gravel/Seal Coat | None | None | Left Shoulder | Nonjunction | Overtum | Ascending S | Negotiating / | Car | 339.500 | 104 |
| B Injury Accident | 10/16/2004 | Saturday | 4 | 0 | Day | Wet | Cloudy | None | None | Speed Too Fast For Conditions | Right Shoulder | Nonjunction | Ditch | Descending S | ight | Pickup/Van/ Panel/SUV | 339,400 | 103 |
| Property Drng Repart | 5/10/2005 | Tuesday | • | • | Day | Wet | Cloudy | None | Other Vehicle Defect | Drove Left of Center | Left Shoulder | Nonjunction | Overturn | Descending N | Negotiating D | Car | 339.400 | 102 |
| Severity | AccidentDate | Day / | njurles | Fatalities Injuries | Light | Surface | Weather | Road Condition | Contributing Circumstance 2 | | Event Relation To Road | Junction | Event 1 | Lane | Driver Action | Vehicle Type | Milepost | * |

| 177 | 176 | 176 | 175 | 174 | 173 | 172 | 171 | 170 | 169 | 168 | 167 | 166 | 166 | 165 | 165 | 164 | 164 | 163 | 162 | 161 | 160 | 159 | 158 | 157 | 156 | 155 | 154 | 153 | 152 | 151 | 150 | # |
|-------------------------------------|-------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------|--------------------------|----------------------------------|--------------------------|--------------------------------|----------------------------------|----------------------------------|-------------------------|---------------------------|-------------------------|---------------------------|--------------------------|-------------------------|---------------------------|----------------------------------|-------------------------------------|--------------------------|----------------------------------|---------------------------|--------------------------|--------------------------|---------------------------|-----------------------------|---------------------------|--------------------------|----------------------|------------------------------|--------------------------------|
| 341.112 | 341.100 | 341.100 | 341.100 | 341.100 | 341.100 | 341.100 | 341.100 | 341.046 | 341.023 | 341.009 | 341.009 | 341.009 | 341.009 | 341.009 | 341.009 | 341.009 | 341.009 | 341.001 | 341.000 | 340,996 | 340.994 | 340.981 | 340.981 | 340.976 | 340.955 | 340.900 | 340.900 | 340,900 | 340.900 | 340.900 | 340.900 | Milepost |
| Pickup/Van/ Panel/SUV | Car | Pickup/Van/ Panel/SUV | | Pickup/Van/ Panel/SUV | | Pickup/Van/ Panel/SUV | Pickup/Van/ Panel/SUV | Pickup/Van/ Panel/SUV | Pickup/Van/ Panel/SUV | SUV/Crossov er | Pickup/Van/ Panel/SUV | Car | Pickup/Van/ Panel/SUV | Car | Pickup/Van/ Panel/SUV | Pickup/Van/ Panel/SUV | Car | Car | Car | Car | Pickup/Van/ Panel/SUV | Pickup/Van/ Panel/SUV | Pickup/Van/ Panel/SUV | Car | Pickup/Van/ Panel/SUV | Car | SUV/Crossov er | Tractor - 1 Trailer | Pickup/Van/ Panel/SUV | Car | Pickup/Van/ Panel/SUV | Vehicle Type |
| Negotiating Curve | Going Straight | Going Straight | Negotiating Curve | Going Straight | Negotiating Curve | Going Straight | Going Straight | Goi | Negotiating Curve | R | Ne | Negotiating Curve | Parked Vehicle | Going Straight | Turning Left | Turning Left | Going Straight | Negotiating Curve | Negotiating Curve | Negotiating Curve | Negotiating Curve | Going Straight | Negotiating Curve | Negotiating | Negotiating | Negotiating Curve | Going Straight | Going Straight | Negotiating | Negotiating Curve | Negotiating Curve | Driver Action |
| Ascending | Descending | Descending | Ascending | Ascending | Ascending | Ascending | Ascending | Descending | Descending | Ascending | Ascending | Descending | Descending | Descending | Descending | Descending | Descending | Ascending | Descending | Ascending | Ascending | Ascending | Descending | Ascending | Descending | Ascending | Descending | Descending | Descending | Ascending | Ascending | Lane Direction |
| z | z S | Z | z | s | z | z | s | - s | s | z | z | s | NE | ś | s | s | s | S | s | z | z | z | s | s | z | s | s | s | ۲ s | s | s | |
| Overturn | Head-On | Head-On | Tree | Tree | Embankment | Embankment | Overturn | Overturn | Embankment | Overturn | Overturn | Parked Car | Parked Car | Rear-End | Rear-End | Rear-End | Rear-End | Embankment | Delineator Post | Ditch | Animal - Wild | Overturn | Overturn | Tree | Embankment | Embankment | Overturn | Overturn | Animal - Wild | Embankment | Overturn | Event 1 |
| Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Intersection Related | Nonjunction | Nonjunction | Nonjunction | Intersection Related | Intersection Related | Intersection Related | Intersection Related | In Intersection | Intersection Related | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Junction |
| Outside Right-Of- Way | | On Roadway | Roadside or Sidewalk | Left Shoulder | Right Shoulder | Roadside or Sidewalk | Left Shoulder | Right Shoulder | Roadside or Sidewalk | Roadside or Sidewalk | Right Shoulder | On Roadway | | On Roadway | | | On Roadway | Left Shoulder | Left Shoulder | Off Roadway- Location Unknown | On Roadway | Roadside or Sidewalk | Outside Right-Of- Way | Left Shoulder | Left Shoulder | Left Shoulder | Roadside or Sidewalk | Right Shoulder | On Roadway | Left Shoulder | Left Shoulder | Event Relation To Road |
| f- Speed Too Fast For Conditions | None | Speed Too Fast For Conditions | Speed Too Fast For Conditions | None | None | None | Speed Too Fast For Conditions | Following Too Clase | Distracted IN or ON Vehicle | Speed Too Fast For Conditions | Speed Too Fast For Conditions | None | Drove Left of Center | Vision Obstruction | None | None | None | Alcohol Impaired | Alcohol Impaired | Other | None | Speed Too Fast For Conditions | | Exceeded Posted Speed | Overcorrected | Alcohol Impaired | Drug Impaired | Other | None | None | Overcorrected | Contributing |
| None | None | or Drove Left of Center | None | Speed Too Fast For Conditions | None | Inattention | None | None | Inattention | Failed to Maintain | None | None | None | None | None | None | Following Too Close | | Speed Too Fast For Conditions | None | None | None | None | Alcohol Impaired | Drove Left of Center | None | Asleep, Drowsy, Fatigued | Inattention | None | None | Drove Left of Center | Contributing Circumstance 2 |
| None | | None | | Other | None | None | None | None | None | None | None | | None | | None | | None | None | None | None | None | None | None | None | None | None | None | None | None | None | Loose Gravel/Seal Coat | Road Condition |
| Cloudy | | Snow | Cloudy | Snow | Cloudy | Clear | Sieet/Hail | Cloudy | Clear | Snow | Snow | | Snow | | Cloudy | | Clear | Rain | Clear | Rain | Clear | Cloudy | Snow | Cloudy | Cloudy | Clear | Clear | Cloudy | Cloudy | Fog | Fog | Weather |
| Ĩc | | Snow | ice. | ice i | Ice | Ice | ice. | Dry | Dry | Snow | lce | | Snow | | Wet | | Dry | Wet | Ice | Wet | Dry | lce | Slush | Dry | ĪCe | Dγ | Wet | Dγ | Dry | Ice | <u>e</u> | Surface |
| Dark, No Street Lights | | Dark, No Street Lights | Dawn or Dusk | Dark, No Street Lights | Dark, Street Lights Off | Dawn or Dusk | Dark, Street Lights Off | Day | Day | Dawn or Dusk | Dark, No Street | | Dark, No Street Lights | | Dark, No Street Lights | | Day | Dark, No Street Lights | Dark, No Street | Day | Day | Day | Dark, No Street Lights | Dawn or Dusk | Day | Dark, No Street Lights | Day | Dark, No Street Lights | Day | Day | Day | Light |
| 0 | 0 | 0 | 0 | • | 0 | 0 | 0 | 0 | • | • | 0 | • | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ٥ | 0 | 0 | 0 | • | 0 | 0 | 0 | 0 | 0 | Fatalities Injuries |
| 1 | | ω | 1 | • | 1 | 1 | 0 | 0 | 1 | • | • | 0 | 0 | • | ч | 0 | 2 | 1 | • | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 2 | ч | • | • | • | Injuries |
| Monday | | Sunday | Sunday | Saturday | Friday | Wednesday | Thursday | Friday | Friday | Tuesday | Saturday | | Saturday | | Sunday | | Monday | Saturday | Saturday | Sunday | Monday | Friday | Monday | Wednesday | Tuesday | Saturday | Thursday | Monday | Monday | Thursday | Sunday | Day |
| 11/27/2006 | 11/21/2010 | 11/21/2010 | 1/3/2010 | 1/24/2009 | 4/4/2003 | 1/30/2008 | 12/21/2006 | 3/16/2007 | 9/11/2009 | 12/18/2012 | 1/24/2009 | 12/13/2008 | 12/13/2008 | 3/2/2003 | 3/2/2003 | 5/14/2007 | 5/14/2007 | 2/18/2012 | 12/8/2012 | 5/16/2004 | 7/17/2006 | 3/28/2008 | 2/3/2003 | 5/28/2008 | 11/25/2003 | 8/18/2012 | 12/15/2011 | 11/10/2008 | 4/14/2008 | 12/13/2007 | 12/4/2005 | AccidentDate |
| A Injury Accident | B Injury Accident | B Injury Accident | B Injury Accident | Property Dmg Report | C Injury Accident | C Injury Accident | Property Dmg Report | Property Dmg Report | B Injury Accident | Property Drng Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | C Injury Accident | C Injury Accident | A Injury Accident | A Injury Accident | A Injury Accident | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | A Injury Accident | B Injury Accident | Property Dmg Report | A Injury Accident | C Injury Accident | Property Drng Report | Property Dmg Report | Property Dmg Report | Severity |

| 9/11/2010 C Injury Accident | - | 0 | 0 | | | | | Inattention | Alcohol Impaired | On Roadway | Nonjunction | N Opposite | Descending | | Car | 341.847 | 197 |
|--------------------------------|-----------|----------|------------|---------------------------|---------|-----------------------|------|----------------------------------|----------------------------------|---------------------------|-------------------------|-----------------------------|-------------------|--|--------------------------|----------|-----|
| 9/11/2010 | Saturday | 1 | • | Dark, No Street Lights | Dry | Clear | None | None | None | | Nonjunction | S Side Swipe | Descending | | Pickup/Van/ Panel/SUV | 341.847 | 197 |
| 3/30/2012 | | 0 | 0 | | | | | None | None | On Roadway | Nonjunction | N Other Object | Ascending | - | Pickup | 341.800 | 196 |
| 3/30/2012 | Friday | 0 | 0 | Day | Wet | Severe Cross Winds | None | None | Other | On Roadway | Nonjunction | S Cargo Loss/Shift | Ascending | Going Straight | Pickup | 341.800 | 196 |
| 4/18/2008 | Friday | 1 | 0 | Dark, No Street Lights | Dry | Clear | None | None | None | Right Shoulder | Nonjunction | S Overturn | Descending | Going Straight D | Pickup/Van/ Panel/SUV | 341.800 | 195 |
| 10/4/2003 Property Dmg Report | Saturday | 0 | 0 | Dark, No Street Lights | Dry | Clear | None | None | Alcohol Impaired | Left Shoulder | Nonjunction | S Overturn | Ascending | Going Straight | Pickup/Van/ Panel/SUV | 341.800 | 194 |
| 6/10/2003 Property Dmg Report | Tuesday | • | 0 | Dark, No Street Lights | Dry | Cloudy | None | None | None | On Roadway | Nonjunction | S Animal - Wild | Descending | Going Straight D | Pickup/Van/ Panel/SUV | 341.800 | 193 |
| 5/2/2007 | Wednesday | ч | ٩ | Day | DIY | Clear | None | None | Asleep, Drowsy, Fatigued | Left Shoulder | Nonjunction | N Overturn | Descending | Going Straight D | Car | 341.800 | 192 |
| 10/30/2004 | Saturday | 4 | 0 | Day | Wet | Cloudy | None | Speed Too Fast For Conditions | Inattention | Outside Right-Of- Way | Nonjunction | N Overturn | Ascending | Negotiating Curve | Car | 341.700 | 191 |
| 3/2/2012 B Injury Accident | Friday | 1 | 0 | Day | Ice | Cloudy | None | Inattention | Speed Too Fast For Conditions | Right Shoulder | Nonjunction | S Overturn | Descending | Passing D | SUV/Crossov er | 341.500 | 190 |
| 3/18/2004 Property Dmg Report | | 0 | 0 | | | | | None | Other | On Roadway | Nonjunction | S Other Object Not Fixed | Ascending | Going Straight | Pickup/Van/ Panel/SUV | 341.500 | 189 |
| 3/18/2004 Property Dmg Report | Thursday | 0 | 0 | Day | Dry | Severe Cross Winds | None | None | None | On Roadway | Nonjunction | N Other Object Not Fixed | Ascending | Going Straight A | Pickup/Van/ Panel/SUV | 341.500 | 189 |
| 3/10/2009 Property Dmg Report | | 0 | 0 | | | | | None | None | | Nonjunction | S Head-On Turning | Descending | Negotiating D Curve | Pickup/Van/ Panel/SUV | 341.481 | 188 |
| 3/10/2009 Property Dmg Report | Tuesday | 0 | 0 | Day | Slush | Clear | None | None | Inattention | On Roadway | Nonjunction | N Head-On Turning | Descending | Turning Left D | Car | 341,481 | 188 |
| 7/7/2005 Property Drng Report | Thursday | 0 | 0 | Dawn or Dusk | Dry | Clear | None | None | Speed Too Fast For Conditions | Left Shoulder | Nonjunction | S Ditch | Ascending | Going Straight 🛛 A | Car | 341.400 | 187 |
| 1/23/2009 Property Dmg Report | | 0 | 0 | | | | | None | None | On Roadway | Nonjunction | N Animal - Wild | Descending | Going Straight D | Car | 341.335 | 186 |
| 1/23/2009 Property Dmg Report | Friday | o | 0 | Dark, No Street Lights | Wet | Cloudy | None | None | None | On Roadway | Nonjunction | S Animal - Wild | Descending | Going Straight D | Car | 341.335 | 186 |
| 11/22/2010 B Injury Accident | | 0 | • | | | | | None | Following Top Close | On Roadway | Nonjunction | S Rear-End | Descending | Going Straight D | Pickup/Van/ Panel/SUV | 341.332 | 185 |
| 11/22/2010 B Injury Accident | | 0 | 0 | | | | | None | None | On Roadway | Nonjunction | S Side Swipe Opposite | Descending | Going Straight D | Pickup/Van/ Panel/SUV | 341.332 | 185 |
| 11/22/2010 B Injury Accident | Monday | 2 | 0 | Dark, No Street Lights | Ice | Cloudy | None | Following Too Close | Vision Obstruction | | Nonjunction | N Side Swipe Opposite | Descending | Going Straight D | Car | 341.332 | 185 |
| 7/8/2003 C Injury Accident | | 0 | o | | | | | None | None | | In Intersection | N Rear-End | Ascending | Slowing in A | Truck - 3+ Axle | 341.317 | 184 |
| 7/8/2003 C Injury Accident | Tuesday | 1 | 0 | Day | Dıy | Clear | None | None | None | On Roadway | In Intersection | N Rear-End | Ascending | Passing A | Car | 341.317 | 184 |
| 10/4/2007 C Injury Accident | | 0 | 0 | | | | | None | Drove Left of Center | On Roadway | In Intersection | E Angle | Ascending | Turning Right A | Pickup/Van/ Panel/SUV | 341.317 | 183 |
| 10/4/2007 C injury Accident | | 0 | 0 | | | | | None | None | | In Intersection | 4 Angle | Ascending N | Going Straight A | Car | 341.317 | 183 |
| 10/4/2007 C Injury Accident | Thursday | ω | o | Dark, No Street Lights | Dıy | Clear | None | None | None | | In Intersection | Angle | Ascending N | Going Straight A | Car | 341.317 | 183 |
| 10/22/2005 B Injury Accident | Saturday | 1 | 0 | Dark, No Street Lights | υγ | Clear | None | None | None | Right Shoulder | Intersection Related | Utility Pole | Descending S | Going Straight D | Pickup/Van/ Panel/SUV | 341.317 | 182 |
| 12/24/2012 Property Dmg Report | Monday | 0 | 0 | Dark, No Street Lights | Ice | Blowing | None | Failed to Maintain | Speed Too Fast For Conditions | Roadside or Sidewalk | Nonjunction | | Ascending N | Going Straight A | | 341.300 | 181 |
| 11/27/2010 Property Dmg Report | Saturday | Ģ | 0 | Day | Ice | Snow | None | None | Speed Too Fast For Conditions | Right Shoulder | Nonjunction | S Traffic Sign Support | Descending | ing Buli | Pickup/Van/ Panel/SUV | 341.300 | 180 |
| 9/30/2011 | | 0 | 0 | | | | | None | None | | Nonjunction | V Pedestrian | Descending W | Wałk/Ride with Traffic NO Bike Du Lane | Pedestrian | 341.200 | 179 |
| 9/30/2011 | Friday | 0 | 1 | | | | | None | None | On Roadway | Nonjunction | S Pedestrian | Descending | Going Straight Du | Pickup | 341.200 | 179 |
| 6/30/2010 Property Dmg Report | Wednesday | ٥ | 0 | Day | Dry | Clear | None | None | None | On Roadway | Nonjunction | Animal - Wild | Descending S | Going Straight D | Car | 341.200 | 178 |
| AccidentDate | Day A | Injuries | Fatalities | Light | Surface | Weather | Road | Contributing Circumstance 2 | Contributing Circumstance 1 | Event Relation To Road | Junction | Event 1 | Lane Direction | Driver Action | Vehicle Type | Milepost | 7 |

| 1 | | 0 | 0 | | - | - | | None | None | | Nonjunction | N Rear-End | Ascending | Going Straight | Gir | 342.400 | 217 |
|-----------|---------------------------------------|----------|---------------------|---------------------------|----------|-----------------------|-------------------|--------------------------------|----------------------------------|-------------------------------------|---|-----------------------|-------------------|-----------------------|--------------------------|----------|-----|
| Monday | | 0 | 0 | Lights | Snow | Snow | None | or Inattention | Speed Too Fast For Conditions | On Roadway | Nonjunction | N Rear-End | Ascending | Going Straight | Pickup | 342.400 | 217 |
| Monday | | | 0 | Dawn or Dusk | Ice | Cloudy | None | None | Speed Too Fast For Conditions | Roadside or Sidewalk | Nonjunction | N Overturn | Ascending | Going Straight | Pickup/Van/ Panel/SUV | 342.400 | 216 |
| Tuesday | | 0 | • | Dawn or Dusk | Ice | Cloudy | None | None | | Outside Right-Of- Way | Nonjunction | N Overturn | Ascending | Negotiating Curve | Pickup/Van/ Panel/SUV | 342.317 | 215 |
| Wednesday | | | | Day | s Dry | Severe Cross Winds | None | None | | Off Roadway- Location Unknown | Nanjunction | N Overturn | Ascending | Going Straight | Motorcycle | 342.300 | 214 |
| Friday | | 0 | 0 | Dark, No Street Lights | Snow | Cloudy | None | Drove Left of Center | Speed Too Fast For Conditions | Roadside or Sidewalk | Nonjunction | S Ditch | Ascending | Going Straight | Pickup/Van/ Panel/SUV | 342.200 | 213 |
| Monday | · · · · · · · · · · · · · · · · · · · | 2 | • | Day | Dıy | Clear | None | Overcorrected | Distracted IN or ON Vehicle | Off Roadway- Location Unknown | Nonjunction | s Overturn | Descending | Going Straight | Car | 342.200 | 212 |
| | 1 - | 0 | 0 | | | | | Following Too Close | None | P Right Shoulder | At Driveway/Alley/P arking Lot | S Rear-End Turning | Descending | Going Straight | Pickup/Van/ Panel/SUV | 342.200 | Z11 |
| Tuesday | | 0 | 0 | Dark, No Street Lights | Wet | Cloudy | None | None | None | | At Driveway/Alley/P arking Lot | S Rear-End Turning | Descending | Turning Right | Pickup/Van/ Panel/SUV | 342.200 | 211 |
| | 1 | 0 | • | | | | | None | Other | On Roadway | Nonjunction | S Cargo Loss/Shift | Ascending | Going Straight | Pickup/Van/ Panel/SUV | 342.100 | 210 |
| Saturday | Sat | • | - | Day | Dry | Clear | None | None | None | On Roadway | Nonjunction | N Other | Ascending | Going Straight | Pickup/Van/ Panel/SUV | 342.100 | 210 |
| | - | 0 | 0 | | | | | None | None | <u> </u> | Driveway/Alley/P arking Lot Related | N Overturn | Ascending | Going Straight | Pickup/Van/ Panel/SUV | 342.100 | 209 |
| | | - | o | | | - | | Inattention | None | P On Roadway | Driveway/Alley/P arking Lot Related | 5 Head-On | Ascending | Going Straight | Pickup/Van/ Panel/SUV | 342.100 | 209 |
| ay | Friday | ω | 0 | Day | Dη | Clear | None | None | None | P On Roadway | Driveway/Alley/P arking Lot Related | S Rear-End | Ascending S | Stopped in Traffic | Pickup/Van/ Panel/SUV | 342.100 | 209 |
| | | • | 0 | | | | | None | Νοπε | | Driveway/Alley/P arking Lot Related | Rear-End Turning | Descending S | Stopped in Traffic | Pickup/Van/ Panel/SUV | 342.030 | 208 |
| , , | Sunday | 4 | 0 | Day | Dry | Cloudy | None | None | Inattention | o On Roadway | Driveway/Alley/P arking Lot Related | Rear-End Turning | Descending S | Going Straight | Car | 342.030 | 208 |
| | | 0 | 0 | | | | | Distracted IN or ON Vehicle | Inattention | On Roadway | Nonjunction | Rear-End | Descending S | ight | G | 342.028 | 207 |
| l I | | 0 | 0 | | | | | None | None | On Roadway | Nonjunction | 5 Rear-End | Descending S | Stopped in | SUV/Crossov er | 342.028 | 207 |
| | Friday | 4 | 0 | Day | Dry | Clear | None | None | None | | Nonjunction | S Rear-End | Descending S | eft | Pickup | 342.028 | 207 |
| 1 | Thursday | • | 0 | Dark, No Street Lights | Dη | Clear | None | None | None | On Roadway | Nonjunction | Ą | Descending S | Negotiating | Pickup/Van/ Panel/SUV | 342.000 | 206 |
| | | • | • | | | | | None | None | On Roadway | Nonjunction | Rear-End Turning | Descending S | Going Straight | Pickup/Van/ Panel/SUV | 342.000 | 205 |
| | Friday | - | 0 | Day | Wet | Rain | None | None | Failed to Signal | - | At Driveway/Alley/P arking Lot | Rear-End Turning | Descending S | eft | Саг | 342.000 | 205 |
| ٩ | Wednesday | 0 | 0 | Dark, No Street Lights | Dry | Clear | None | None | None | On Roadway | Nonjunction | Animal - Wild | Ascending N | 'ng | Car | 341.900 | 204 |
| | Sunday | 0 | 0 | Day | Wet | Rain | None | None | None | Roadside or Sidewalk | Nonjunction | Embankment | Descending S | 'ng | Pickup/Van/ Panel/SUV | 341.900 | 203 |
| | Friday | 0 | 0 | Dawn or Dusk | Ice | Clear | None | None | Speed Too Fast For Conditions | der | Nonjunction | Overturn | Descending S | Negotiating Curve | Pickup/Van/ Panel/SUV | 341.900 | 202 |
| < | Saturday | <u>ь</u> | 0 | Dark, No Street Lights | Dry | Clear | None | None | Asleep, Drowsy, Fatigued | Off Roadway- Location Unknown | Nonjunction | l Tree | Descending N | | ភ្ន | 341.900 | 201 |
| 2 | Monday | 0 | 0 | Dark, No Street Lights | Dry | Clear | None | None | None | On Roadway | Nonjunction | Animal - Wild | Ascending N | Going Straight | Pickup/Van/ Panel/SUV | 341.900 | 200 |
| Å | Saturday | - | • | Dark, No Street Lights | Dry | Clear | None | None | Asleep, Drowsy, Fatigued | Left Shoulder | Nonjunction | Overturn | Ascending 5 | ight | Car | 341.900 | 199 |
| | | • | • | | | | | None | None | | Nonjunction | Head-On | Descending S | Negotiating Curve | Car | 341.899 | 198 |
| < | Tuesday | ъ | 1 | Day | Dry | Clear | None | Drove Left of Center | Asleep, Drowsy, Fatigued | On Roadway | Nonjunction | I Head-On | Descending N | | Car | 341.899 | 198 |
| | Day | Injuries | Fatalities Injuries | Light | Surface | Weather | Road Condition | Contributing Circumstance 2 | | Event Relation To Road | Junction | Event 1 | Lane Direction | Driver Action | Vehicle Type | Milepost | * |
| J. | | | | | | | | | | | | | | | | | |

| I I I I I I I I I I I I I I I I | | | - | | | | | | | | | Same | | | DichunNiani | | 2 |
|---------------------------------|--------------|----------|---------------------|---------------------------|---------|---------|----------------------|----------------------------------|----------------------------------|---------------------------|---|--------------------------------|--------------|-----------------------|----------------------------|----------|-----|
| | Saturdav 5/ | 0 | 0 | Day | Dry | Clear | None | Inattention | Failed to Yield | On Roadway | Nonjunction | Same S Direction Turning | Descending | U-Turn | Car | 343.200 | 240 |
| | 4, | 0 | 0 | | | | | None | None | | Driveway/Alley/P arking Lot Related | S Side Swipe Same | | Turning Left | Car | 343.100 | 239 |
| | Tuesday 4/ | 0 | 0 | Daγ | Wet | Cloudy | None | Failed to Yield | Inattention | o On Roadway | Driveway/Alley/P arking Lot Related | Side Swipe Same | Descending S | Going Straight | Pickup/Van/ Panel/SUV | 343.100 | 239 |
| - | Sunday 7/ | 1 | 0 | Day | Dry | Clear | None | None | None | On Roadway | Nonjunction | Animal - Wild | Ascending N | Going Straight | Car | 343.100 | 238 |
| 1/30/2003 Property Dmg Report | Thursday 1/ | • | 0 | Dark, No Street Lights | Wet | Rain | None | None | None | On Roadway | Nonjunction | N Animal - Wild | Ascending N | Going Straight | Car | 343.100 | 237 |
| 2/16/2006 Property Dmg Report | Thursday Z/ | 0 | 0 | Dark, No Street Lights | Ice | Cloudy | None | None | None | Outside Right-Of- Way | Nonjunction | | Descending S | Going Straight | Pickup/Van/ Panel/SUV | 343.095 | 236 |
| 12/6/2011 Property Dmg Report | 1 | 0 | 0 | | | | - | None | Inattention | On Roadway | Nonjunction | N Side Swipe Opposite | Descending N | ight | Tractor - 1 Trailer | 343.007 | 235 |
| 12/6/2011 Property Dmg Report | 1: | 0 | 0 | | | | | None | None | | Nonjunction | | Descending S | Stopped in Traffic | Car | 343.007 | 235 |
| 12/6/2011 Property Dmg Report | Tuesday 12 | 0 | 0 | Dark, No Street Lights | Dry | Clear | None | None | None | | Nonjunction | Side Swipe | Descending S | Stopped in Traffic | Van - 1 to 8 seats | 343.007 | 235 |
| 11/22/2010 Property Dmg Report | 11 | • | 0 | | | | | None | Failed to Yield | On Roadway | Intersection Related | E Angle Turning | Descending E | Turning Left | Pickup/Van/ Panel/SUV | 343.000 | 234 |
| 11/22/2010 Property Dmg Report | Monday 11, | • | 0 | Dark, No Street Lights | lce | Snow | None | None | None | | Intersection Related | S Angle Turning | Descending S | Going Straight | Car | 343.000 | 234 |
| 2/10/2009 B Injury Accident | Tuesday 2/ | 14 | 0 | Day | Dry | Clear | None | None | None | Left Shoulder | Nonjunction | S Embankment | Ascending S | Going Straight | Pickup/Van/ Panei/SUV | 342.996 | 233 |
| 3/27/2004 Property Dmg Report | Saturday 3/ | • | 0 | Dark, No Street Lights | Dıγ | Cloudy | None | None | Alcohol Impaired | Outside Right-Of- Way | Nonjunction | 0 | Descending S | Going Straight | ស្ន | 342.968 | 232 |
| 4/11/2011 Property Dmg Report | 4/ | - | 0 | | | | | None | None | | Nonjunction | Side Swipe | Descending S | Merging | Truck With Trailer | 342.905 | 231 |
| 4/11/2011 Property Dmg Report | Monday 4/ | • | 0 | Day | Wet | Rain | None | Failed to Yield | Inattention | On Roadway | Nonjunction | Side Swipe Same | Descending S | Merging | SUV/Crassov er | 342.905 | 231 |
| 7/13/2005 Property Dmg Report | Wednesday 7/ | 0 | 0 | Dark, No Street Lights | Dry | Clear | None | None | None | On Roadway | Nonjunction | b | Descending S | Going Straight | Car | 342.857 | 230 |
| 10/17/2006 C Injury Accident | 10 | • | 0 | | | | | Other Vehicle Defect | Inattention | On Roadway | Nonjunction | N Rear-End | Ascending N | Going Straight | Car | 342.801 | 229 |
| 10/17/2006 C Injury Accident | Tuesday 10, | 1 | • | Dark, No Street Lights | Dry | Clear | None | None | None | | Nonjunction | N Rear-End | Ascending N | Going Straight | Car | 342.801 | 523 |
| 1/6/2005 Property Dmg Report | Thursday 1, | • | 0 | Dark, No Street Lights | Snow | Snow | None | Speed Too Fast For Conditions | Tire Defect | Right Shoulder | Nonjunction | S Overturn | Descending S | Going Straight | Pickup/Van/ Panel/SUV | 342.800 | 228 |
| 12/22/2007 Property Dmg Report | Saturday 12, | 0 | • | Dawn or Dusk | Snow | Snow | None | None | Other | Roadside or Sidewalk | Nonjunction | S Embankment | Descending S | Going Straight | Car | 342.800 | 227 |
| 12/18/2012 C Injury Accident | Tuesday 12, | 1 | 0 | Dark, No Street Lights | Ge | Snow | High/Low Shoulder | r Failed to Maintain Lane | Speed Too Fast For Conditions | Left Shoulder | Nonjunction | N Overturn | Ascending N | light | SUV/Crossov er | 342.700 | 226 |
| 1/23/2012 Property Dmg Report | Monday 1/ | • | 0 | Day | Ice | Clear | None | None | Other | Private Property | Nonjunction | V Fence | Ascending N | Negotiating Curve | Pickup | 342.700 | 225 |
| 9/1/2004 Property Dmg Report | Wednesday 9, | 0 | 0 | Dark, No Street | Dry | Clear | None | None | None | On Roadway | Nonjunction | 5 Animal - Wild | Descending S | Going Straight | Car | 342.700 | 224 |
| 2/10/2007 B Injury Accident | Saturday 2/ | 2 | 0 | Dark, No Street Lights | Ice | Cloudy | None | Speed Too Fast For Conditions | Overcorrected | Left Shoulder | Nonjunction | VOverturn | Descending N | Negotiating Curve | Pickup/Van/ Panel/SUV | 342.700 | 223 |
| 12/8/2012 Property Dmg Report | Saturday 12 | 0 | 0 | Day | Slush | Cloudy | None | r Failed to Maintain | Speed Too Fast For Conditions | Right Shoulder | Nonjunction | 5 Tree | Descending S | Passing | Car | 342.600 | 222 |
| 12/22/2003 B Injury Accident | Monday 12, | 1 | 0 | Dark, No Street Lights | Īce | Clear | None | r Distracted IN or ON Vehicle | Speed Too Fast For Conditions | Roadside or Sidewalk | Nonjunction | Överturn | Descending | Negotiating Curve | Pickup/Van/ Panel/SUV | 342.600 | 221 |
| 2/5/2011 Property Dmg Report | Saturday 2/ | • | 0 | Dark, No Street Lights | Ice | Clear | None | None | Spec | Outside Right-Of- Way | Nonjunction | - | Ascending S | 69 | SUV/Crossov er | 342.500 | 220 |
| 12/2/2007 Property Dmg Report | 12 | • | • | | | | | None | Speed Too Fast For Conditions | On Roadway | Nonjunction | Side Swipe Opposite | Ascending S | Avoiding Obstacle | Pickup/Van/ Panel/SUV | 342.500 | 219 |
| 12/2/2007 Property Dmg Report | Sunday 12 | 0 | 0 | Day | Snow | Rain | None | None | Vision Obstruction | | Nonjunction | | Ascending N | Going Straight | G | 342.500 | 219 |
| 3/2/2007 Property Dmg Report | Friday 3, | 0 | 0 | Day | Dıy | Clear | None | Fatigued | Overcorrected | Roadside or Sidewalk | Nonjunction | Embankment | Ascending S | Going Straight | Gar | 342.500 | 218 |
| AccidentDate Severity | Day Acc | Injuries | Fatalities Injuries | Light | Surface | Weather | Road Condition | Contributing Circumstance 2 | Contributing Circumstance 1 | Event Relation To Road | Junction | Event 1 | Lane | | Vehicle Type Driver Action | Milepost | # |

| L | | | | | | $\left \right $ | | | Note | Indition | | - | N Same | Ascending | Turning Left | Car | 344.004 | 253 |
|------------------------|---------------|-----------|----------|---------------------|---------------------------|------------------|------------|-----------|----------------------------------|----------------------------------|--------------------------|---|----------------------|--------------|--------------------------|--------------------------|----------|-----|
| 5 Property Dmg Report | 8/24/2005 | | • | 0 | | | | | Nore | Instruction | - | Ξ | Side Swipe | _ | -+- | Iraller | | |
| 5 Property Dmg Report | y 8/24/2005 | Wednesday | 0 | 0 | Day | Dry | Clear | None | Inattention | Drove Left of Center | On Roadway | Intersection | N Side Swipe | Ascending | Turning Right | Truck With | 344.004 | 253 |
| <u> </u> | 1/20/2012 | | 0 | 0 | | + | | | None | None | On Roadway | g Nonjunction | N Angle Turning | Ascending | Going Straight | Car | 343.985 | 252 |
| | 1/20/2012 | Friday | 0 | • | Day | Slush | Cloudy | None | Speed Too Fast For Conditions | Failed to Yield | | g Nonjunction | E Angle Turning | Ascending E | Turning Left | Car | 343.985 | 252 |
| - | 1/11/2004 | Sunday | • | 0 | Day | lce | Clear | None | - | Speed Too Fast For Conditions | Right Shoulder | Nonjunction | 5 Overturn | Descending S | Going Straight | Pickup/Van/ Panel/SUV | 343,981 | 251 |
| | 1/13/2012 | Friday | - | 0 | Lights | Dıy | Clear | None | None | Vision Obstruction | Parking Lot Access Rd | Nonjunction | Ditch | Descending | Turning Left | Car | 343.900 | 250 |
| - | 5/28/2004 | | 0 | 0 | Dark No Street | + | | | None | None | | Driveway/Alley/P arking Lot Related | Side Swipe Same | Ascending | Stopped in Traffic | Car | 343.800 | 249 |
| 4 Property Drng Report | 5/28/2004 | | 0 | 0 | + | +- | | | None | None | | Driveway/Alley/P arking Lot Related | J Side Swipe Same | Ascending N | Stopped in Traffic | Pickup/Van/ Panel/SUV | 343.800 | 249 |
| Property Dmg Report | 5/28/2004 | Friday | 0 | 0 | Day | Wet | Cloudy | None | None | Inattention | On Roadway | Driveway/Alley/P arking Lot Related | Side Swipe Same | Ascending N | Going Straight | Tractor - 1 Trailer | 343.800 | 249 |
| 2 C Injury Accident | 1/23/2012 | Monday | 4 | • | Dark, No Street Lights | <u>.</u> | Clear | None | None | Speed Too Fast For Conditions | Roadside or Sidewalk | Nonjunction | Overturn | Ascending | Going Straight | Pickup | 343.700 | 248 |
| B Injury Accident | 9/10/2006 | Sunday | 1 | ٥ | Day | Div | Clear | None | None | Inattention | Outside Right-Of- Way | Nonjunction | | Descending S | Going Straight D | Car | 343.616 | 247 |
| C Injury Accident | 1/9/2010 | | 0 | 0 | | | | | Improper Lane Change | Improper Overtaking | On Roadway | Nonjunction | Sic | Descending S | Going Straight D | Pickup/Van/ Panel/SUV | 343.500 | 246 |
| C Injury Accident | 1/9/2010 | Saturday | 1 | 0 | Day | lce | Sleet/Hail | None | None | Speed Too Fast For Conditions | | Nonjunction | Side Swipe Same | Descending S | Going Straight D | Car | 343.500 | 246 |
| | 2/26/2003 | | 0 | 0 | | | | | Inattention | None | On Roadway | At Driveway/Alley/P arking Lot | Rear-End | Descending S | Going Straight D | Pickup/Van/ Panel/SUV | 343.500 | 245 |
| Property Dmg Report | 2/26/2003 | Wednesday | 0 | 0 | Day | Dry | Clear | None | None | None | | Driveway/Alley/P arking Lot Related | Rear-End | Descending S | Turning Left D | Pickup/Van/ Panel/SUV | 343.500 | 245 |
| C Injury Accident | 4007/CT /2 | Apuns | | • | Day | Snow | Cloudy | None | Overcorrected | Inattention | Sidewalk | Nonjunction | Utility Pale | Descending S | Going Straight D | | 343.481 | 244 |
| + | 10/30/2005 | Sunday | 1 | | Day | Dry | Cloudy | None | None | Other | On Roadway | Nonjunction | Overturn | Descending S | Going Straight D | Pickup/Van/ Panel/SUV | 343.400 | 243 |
| + | 12/13/2012 | | 0 | • | | | | | None | None | | Driveway/Alley/P arking Lot Related | Rear-End | Descending S | Slowing in Traffic | ស្ន | 343.300 | 242 |
| A Injury Accident | 12/13/2012 | | 0 | • | | | | | None | None | On Roadway | Driveway/Alley/P arking Lot Related | Rear-End | Descending S | Slowing in Traffic De | Car | 343.300 | 242 |
| A Injury Accident | 12/13/2012 | Thursday | s | 0 | Dark, No Street Lights | Dry | Cloudy | None | Following Too Close | Inattention | On Roadway | Driveway/Alley/P arking Lot Related | Rear-End | Descending S | Going Straight De | Pickup | 343.300 | 242 |
| Property Dmg Report | 5/10/2006 | | 0 | 0 | | | | | Following Too Close | None | On Roadway | At Driveway/Alley/P arking Lot | Rear-End | Descending S | Going Straight De | Pickup/Van/ Panel/SUV | 343,300 | 241 |
| Property Dmg Report | 5/10/2006 | Wednesday | • | 0 | Day | Dη | Clear | None | None | None | | At Driveway/Alley/P arking Lot | Rear-End | Descending S | Turning Left De | Pickup/Van/ Panel/SUV | 343.300 | 241 |
| a Severity | Accidentinate | Uay | Injuries | Fatalities Injuries | Light | Surface | Weather | Condition | Circumstance 2 | Circumstance 1 | Road | Junction | Event 1 | Lane | Driver Action D | Milepost Vehicle Type | Milepost | # |
| | | | | | | | | Prad | | | | | | | | | | |

| Injury Type | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | Total |
|------------------------|------|------|------|------|------|------|------|------|------|------|-------|
| Dead | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 0 | 6 |
| Incapacitating | 1 | 1 | 1 | 8 | 5 | 3 | 0 | 3 | 3 | 2 | 27 |
| Non- Incapacitating | 5 | 4 | 5 | 2 | 12 | 3 | 3 | 11 | 1 | 6 | 52 |
| Possible | 6 | 4 | 7 | 1 | 13 | 8 | 5 | 9 | 5 | 15 | 73 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |

Accident Injury Classification for US-95 between Thorncreek Road and Moscow (MP337.668 and 344.004) between 1/1/03 and 12/31/12

*From Data provided by ITD Headquarters Office of Highway Safety on Webcars.

| Indext Chromatismer Constrained Name Analy input dip Name Constrained Name Constrained Name | | | | - | | | | | None | None | | Related | S Rear-End | Descending | Going Straight | | 326.300 | |
|---|--------------------|----------|----------|------------|---------------------------|----------|----------|------------------------------|--------------------------------|---------------------------------|---------------------------|-------------------------|---------------------------|-------------------|----------------------|--------------------------|----------|------------|
| Image Conveniences | | | , | + , | LIBING | + | + | | : | | | Intersection | Τ | | | Panel/SUV | | |
| Next Conversion Conversion </td <td></td> <td></td> <td>0</td> <td></td> <td>Dark, No Street</td> <td></td> <td>Clear</td> <td>None</td> <td>Inattention</td> <td>None</td> <td>On Roadway</td> <td>Intersection</td> <td>S Rear-End</td> <td>Descending</td> <td>Going Straight</td> <td></td> <td>326.300</td> <td>26</td> | | | 0 | | Dark, No Street | | Clear | None | Inattention | None | On Roadway | Intersection | S Rear-End | Descending | Going Straight | | 326.300 | 26 |
| Instant Conversions of the sector series of the sector series of the sector sect | +- | | • | | | | | | None | None | On Roadway | Nonjunction | E Head-On | Ascending | Going Straight | Pickup | 326.111 | |
| Not Chronic Stand 7 Condition 7 | | | 0 | 0 | Day | Dry | Clear | None | | Asleep, Drowsy, Fatigued | On Roadway | Nonjunction | W Overturn | Ascending | Going Straight | - | 326.111 | 25 |
| Next Crosswert Construct of Construct construct of Construct construct of Construct constr | | | 0 | • | : | | | | None | None | On Roadway | Intersection Related | N Rear-End | Ascending | Going Straight | _ | 326.100 | |
| Node Crometerio Crometerio Construction Number Algorithy inpaired Construction Space Explaine Space Explaine Space S | | | ۰. ۱ | 0 | | <u> </u> | Cloud | None | Failed to Yield | Inattention | | Intersection Related | N Overturn | Ascending | Turning Left | Pickup/Van/ Panel/SUV | 326.100 | 24 |
| Nome Commentation 2 Commentation 2 </td <td><u> </u></td> <td>+</td> <td>•</td> <td></td> <td></td> <td></td> <td>Cloud</td> <td>None</td> <td>Overcorrected</td> <td>Inattention</td> <td>Roadside or Sidewalk</td> <td>Nonjunction</td> <td>N Overturn</td> <td>Descending</td> <td>Negotiating</td> <td>ស្ន</td> <td>326.016</td> <td>23</td> | <u> </u> | + | • | | | | Cloud | None | Overcorrected | Inattention | Roadside or Sidewalk | Nonjunction | N Overturn | Descending | Negotiating | ស្ន | 326.016 | 23 |
| Name Croumstance 1 Condition Winder Name Condition Winder Name According on the state | | | • | | Dark, No Street | - | | High/Lov Shoulde | None | | Right Shoulder | Nonjunction | S Embankment | Descending | Going Straight | Car | 326.000 | 22 |
| Name Circumstance 1 Circumstance 2 Condition Windler Nume | - | + - | • | | _ | | | None | None | Inattention | Left Shoulder | Nonjunction | N Jackknifed | Ascending | Negotiating Curve | Tractor - 2 Trailers | 325.987 | 12 |
| Name Circumstance 1 Circumstance 2 Condition Wather Summe Final Res Intrust Intrust <td></td> <td>+</td> <td>•</td> <td>0</td> <td></td> <td></td> <td>Snow</td> <td>None</td> <td></td> <td>Speed Too Fast Fe Conditions</td> <td>Roadside or Sidewalk</td> <td>Nonjunction</td> <td>N Traffic Sign Support</td> <td>Ascending</td> <td>Going Straight</td> <td>Car</td> <td>325.986</td> <td>20</td> | | + | • | 0 | | | Snow | None | | Speed Too Fast Fe Conditions | Roadside or Sidewalk | Nonjunction | N Traffic Sign Support | Ascending | Going Straight | Car | 325.986 | 20 |
| None Circumstance 1 Circumstance 2 Condition Weetler Suffree Light Failure Nume Nume <td></td> <td></td> <td>-</td> <td></td> <td>Dark, No Street Lights</td> <td>┢─</td> <td>Clear</td> <td>None</td> <td></td> <td>Speed Too Fast Fc Conditions</td> <td>Roadside or Sidewalk</td> <td>Nonjunction</td> <td>S Overturn</td> <td>Descending</td> <td>Negotiating Curve</td> <td>Car</td> <td>325.900</td> <td>19</td> | | | - | | Dark, No Street Lights | ┢─ | Clear | None | | Speed Too Fast Fc Conditions | Roadside or Sidewalk | Nonjunction | S Overturn | Descending | Negotiating Curve | Car | 325.900 | 19 |
| None Circumstance 1 Circumstance 2 Condition Weether Suffrage Light Failure 1 Unite 1 <thunit 1<="" th=""> Unite 1<td>-</td><td>-</td><td>1</td><td></td><td>Day</td><td></td><td>Cloud)</td><td>None</td><td></td><td>Alcohol Impaired</td><td>Roadside or Sidewalk</td><td>Nonjunction</td><td>S Overturn</td><td>Descending</td><td>Negotiating Curve</td><td>Gr</td><td>325.800</td><td>18</td></thunit> | - | - | 1 | | Day | | Cloud) | None | | Alcohol Impaired | Roadside or Sidewalk | Nonjunction | S Overturn | Descending | Negotiating Curve | Gr | 325.800 | 18 |
| None Circumstance 1. Circumstance 2. Condition Weether Survee Failures Intention Failures Intention Failures Intention Pailures Intention Pailures | - | - | 0 | • | Day | Dıy | Clear | None | _ | Failed to Maintai | Left Shoulder | Nonjunction | S Ditch | Ascending | Going Straight | G | 325.500 | 17 |
| Nand Circumstance 1 Circumstance 2 Condition Weather Surface Light Feature 5 Input e Sector 100 | - | | 0 | | Dark, No Street | lce | Clear | | | | Right Shoulder | Nonjunction | N Ditch | Ascending | Going Straight | Pickup | 325.200 | 16 |
| Nand Circumstance 1 Pathelie Failable Fa | - | | D | 0 | Dawn or Dusk | - | Cloud) | None | | | Private Property | Nonjunction | N Fence | Ascending | Negotiating | Pickup | 324.995 | 15 |
| NaedCircumstance 1Circumstance 2ConditionWeatherSurfaceLightFatilitesInpuresDay | + | + | 1 | | Dark, No Street Lights | | Cloudy | None | Inattention | Asleep, Drowsy, Fatigued | Roadside or Sidewalk | Nonjunction | N Overturn | Ascending | Negotiating | Car | 324.900 | 14 |
| NoneCircumstance 1Circumstance 2ConditionWeatherSurfaceLightFatalitiesInjuriesJayAccommunesMedianNoneLipol ImpairedNoneCloudyDryDay01Monday $2/16/2009$ On RoadwaySpeed To Fast ForNoneNoneNoneSonwSnowDay00Wednasday $1/2/29/2010$ Ueft ShoulderDistracted IN OrNoneNoneNoneNoneCloudyDryDay00Wednasday $1/2/29/2010$ Ueft ShoulderDistracted IN OrNoneNoneNoneNoneCloudyDryDay00U $1/2/29/2010$ Ueft ShoulderDistracted IN OrNoneNoneNoneCloudyDryDay00U $1/2/29/2010$ NoneDistracted IN OrNoneNoneNoneCloudyDryDay001Monday $1/2/29/2010$ NoneDistracted IN OrNoneNoneNoneCloudyDryDay01Monday $1/2/29/2010$ NoneNoneNoneNoneNoneNoneCloudyDryDark, No Street00Saturday $1/2/2010$ NoneNoneNoneNoneNoneNoneCloudyDryDay01Wednasday $2/12/2010$ NoneNoneNoneNoneNoneNoneCloudyDryDay01 | | <u> </u> | 0 | | Dark, No Street Lights | Dry | Clear | None | None | None | On Roadway | Nonjunction | N Animal - Wild | Ascending | Going Straight | Pickup/Van/ Panel/SUV | 324.800 | 13 |
| NoadCircumstance 1Circumstance 2ConditionWeatherStraceLightFatalitiesInpuresDayAccomentanceMedianNoneAlcohol ImpairedNoneCloudyDryDay01Monday $2/16/2009$ On RoadwaySpeed Too Fast ForNoneNoneSnowSnowDay00Wednasday $1/2/29/2010$ I eff. ShoulderDistracted IN orNoneNoneNoneNoneCloudyDryDay00Wednasday $1/2/29/2010$ I eff. ShoulderDistracted IN orNoneNoneNoneNoneCloudyDryDay01Monday $1/2/29/2010$ I eff. ShoulderDistracted IN orNoneNoneNoneCloudyDryDark, No Street001Monday $1/2/29/2010$ I eff. ShoulderSpeed Too Fast ForNoneNoneNoneCloudyDryDark, No Street00Saturday $1/2/29/2010$ I sidewalkConditionsNoneNoneNoneNoneCloudyDryDark, No Street00Saturday $1/2/29/2010$ I sidewalkSpeed Too Fast ForNoneNoneNoneCloudyDryDark, No Street00Friday $1/2/20209$ I eff. ShoulderSpeed Too Fast ForNoneNoneNoneCloudyDryDay01Wednesday $2/16/2011$ I sidewalkAlex, Dirotavi | - | - | 0 | | Day | | Cloudy | None | | Speed Too Fast Fo Conditions | Median | Nonjunction | N Embankment | Ascending | Passing | Car | 324.800 | 12 |
| Read Circumstance 1 Circumstance 2 Condition Weather Surface User Fatalities Injuries Day Fatalities Injuries Day Accomentations Median None Accolorinpaired None Cloudy Dry Day 0 1 Monday $2/16/2009$ On Roadway Speed Too Fast For None None Snow Snow Day 0 0 Wednasday $1/29/2010$ On Roadway Speed Too Fast For None None Cloudy Dry Day 0 0 Wednasday $1/29/2010$ Unf Soulder Distracted II Nor None None Cloudy Dry Day 0 0 $1/2/29/2010$ None Distracted II Nor None None Cloudy Dry Day 0 1 Monday $1/2/29/2010$ Median None None Cloudy Dry Dark, No Street 0 0 Saturday $1/2/21/2008$ <t< td=""><td></td><td>1</td><td>0</td><td></td><td>Dark, No Street Lights</td><td>8</td><td>Fog</td><td>None</td><td></td><td></td><td>Right Shoulder</td><td>Nonjunction</td><td>N Traffic Sign Support</td><td>Ascending</td><td>Going Straight</td><td>Car</td><td>324.750</td><td>11</td></t<> | | 1 | 0 | | Dark, No Street Lights | 8 | Fog | None | | | Right Shoulder | Nonjunction | N Traffic Sign Support | Ascending | Going Straight | Car | 324.750 | 11 |
| RoadCircumstance 1Circumstance 2ConditionWeatherSurfaceLightFatalitiesInjuriesDayFatalitiesInjuriesDayFatalitiesInjuriesAccomentanceMedianNoneLiphtNoneAlcohol ImpairedNoneCloudyDayDay01Monday $2/16/2009$ On RoadwaySpeed To Fast For On RoadwaySpeed To Fast For On WehideNoneNoneNoneCloudyDayDay00Uednasday $1/2/29/2010$ On RoadwaySpeed To Fast For ON WehideNoneNoneCloudyDryDayDay01Monday $1/2/29/2010$ Ueft ShoulderDistracted IN or ON RoadwayNoneNoneCloudyDryDayDo1Monday $1/2/29/2010$ No RoadwaySpeed Too Fast For On RoadwayNoneNonePoor PavementSnowCloudyDryDark, No Street UghtsDDSaturday $1/2/13/2008$ No RoadwayNoneNoneNoneClearDryDark, No Street UghtsDOSaturday $7/2/2010$ No RoadwayNoneNoneNoneCloudyDryDark, No Street UghtsDOFriday $2/16/2011$ Roadide or SteretSpeed Too Fast For Roadide orNoneNoneCloudyDryDark, No Street Dark, No StreetDOFriday $2/16/2011$ Roadide or SteretSpeed Too Fast For <br< td=""><td></td><td></td><td></td><td></td><td></td><td>Snow</td><td>Snow</td><td></td><td></td><td>Inattention</td><td>Left Shoulder</td><td>Nonjunction</td><td>N Cross Median</td><td>Ascending</td><td>Changing Lanes</td><td>Саг</td><td>324.700</td><td>10</td></br<> | | | | | | Snow | Snow | | | Inattention | Left Shoulder | Nonjunction | N Cross Median | Ascending | Changing Lanes | Саг | 324.700 | 10 |
| RoadCircumstance 1Circumstance 2ConditionWeatherSurfaceLightFatalitiesInpuriesDayCatalitiesInpuriesDayCatalitiesInpuriesDayCatalitiesInpuriesDayCatalitiesInpuriesDayCatalitiesConcentorereMedianToo Slow for TafficNoneAlcohol ImpairedNoneCloudyDnyDay01Monday2/16/2009On RoadwaySpeed To FafficNoneNoneSnowSnowDay00Used nasday1/2/29/2010On RoadwaySpeed Too Fast For ConditionsNoneNoneCloudyDnyDay001Monday10/11/2010On RoadwaySpeed Too Fast For ConditionsNoneNoneCloudyDnyDark, No Street00Sunday10/25/2009MedianSpeed Too Fast For ConditionsNonePoor PavementSonwIceDark, No Street00Saturday12/12/2010On RoadwayNoneNoneNoneCloudyDnyDark, No Street00Friday12/12/2010MedianSpeed Too Fast For ConditionsNoneNoneCloudyDnyDark, No Street00Saturday12/12/2010On RoadwayNoneNoneNoneNoneCloudyDnyDark, No Street00Friday12/12/2010SidewalkSpeed Too Fast For SidewalkNoneNone </td <td>+</td> <td><u> </u></td> <td>1</td> <td>0</td> <td>Day</td> <td></td> <td>Cloudy</td> <td>None</td> <td>None</td> <td>None</td> <td>Median</td> <td>Nonjunction</td> <td>s Overturn</td> <td>Descending</td> <td>Negotiating</td> <td>Pickup/Van/ Panel/SUV</td> <td>324.700</td> <td>9</td> | + | <u> </u> | 1 | 0 | Day | | Cloudy | None | None | None | Median | Nonjunction | s Overturn | Descending | Negotiating | Pickup/Van/ Panel/SUV | 324.700 | 9 |
| Road Circumstance 1 Circumstance 2 Condition Weather Surface Light Fatalities Inpuries Paccenture Median None Alcohol Impaired None Cloudy Dry Day 0 1 Monday $2/16/2009$ Median Traffic None Snow Snow Day 0 0 Wednasday $2/16/2009$ On Roadway Speed Too Fast For None None Snow Day 0 0 Wednasday $1/29/2010$ On Roadway Speed Too Fast For None None Cloudy Dry Day 0 0 $1/29/2010$ Left Shoulder Distracted IN or Overcorrected None Cloudy Dry Day 0 1 Monday $10/11/2010$ None None None None Cloudy Dry Dark, No Street 0 0 Saturday $10/21/2010$ No Roadway None None None None | | | 1 | 0 | Day | | Cloudy | None | Inattention | Asleep, Drowsy, Fatigued | Right Shoulder | Nonjunction | N Overturn | Ascending | Going Straight | Car | 324.523 | 8 |
| Road Circumstance 1 Circumstance 2 Condition Weather Stratee Light Fatalities Inpuries Day Accommunes < | - | | 0 | | Dark, No Street Lights | lce | Clear | None | | Speed Too Fast Fo Conditions | Roadside or Sidewalk | Nonjunction | S Overturn | Descending | Negotiating | SUV/Crossov er | 324.500 | 7 |
| Road Circumstance 1 Circumstance 2 Condition Weather Stratee Light Fatalities Inpuries Day Accommune Accommu | - | - | 0 | | Dark, No Street Lights | Dry | | None | None | None | On Roadway | Nonjunction | N Animal - Wild | Ascending | Going Straight | Car | 324.200 | 6 |
| Road Circumstance 1 Circumstance 2 Condition Weather Surface Light Fatalities Injuries Day Accommuter Median None Alcohol Impaired None Cloudy Dry Day 0 1 Monday 2/16/2009 Median Too Slow for Taffic None None Cloudy Dry Day 0 0 Wednasday 2/16/2009 On Roadway Speed Too Fast For On Vehicle None Snow Snow Day 0 0 Wednasday 12/29/2010 Left Shoulder Distracted IN or ON Vehicle Overcorrected None Cloudy Dry Dark, NStreet 0 1 Monday 10/12/2009 On Roadway None None Cloudy Dry Dark, NStreet 0 1 10/12/2009 | <u> </u> | <u> </u> | • | 0 | Dark, No Street Lights | | <u> </u> | Poor Pavement Markings | | Speed Too Fast Fo Conditions | Median | Nonjunction | N Overturn | Ascending | Going Straight | Pickup/Van/ Panel/SUV | 324.200 | σ |
| Road Circumstance 1 Circumstance 2 Condition Weather Surface Light Fatalities Injuries Day Accenture Median None Alcohol Impaired Wone Cloudy Dry Day 0 1 Monday 2/16/2009 Transfer None Snow Snow Snow Day 0 0 Weansaday 12/29/2010 On Roadway Speed Too Fast For On Vehicle None Snow Snow Day 0 0 12/29/2010 Left Shoulder Distracted IN on Overcorrected None Cloudy Dry Day 0 1 Monday 12/29/2010 | | + | • | • | Dark, No Street Lights | - | Cloudy | None | None | None | On Roadway | Nonjunction | N Animal - Wild | Ascending | Negotiating | Pickup/Van/ Panel/SUV | 324.100 | 4 |
| Road Circumstance 1 Circumstance 2 Condition Weather Surface Light Fatalities Injuries Day Accomputer Median None Alcohol Impaired None Cloudy Dry Day 0 1 Monday 2/16/2009 Too Slow for None Cloudy Snow Snow Day 0 0 Wednesday 12/29/2010 Tor Solw for None Snow Snow Day 0 0 Wednesday 12/29/2010 On Roadway Speed Too Fast For None 0 0 12/29/2010 | - | | - | 0 | Day | Dry | Cloudy | None | Overcorrected | Distracted IN or ON Vehicle | Left Shoulder | Nonjunction | N Ditch | Ascending | Avoiding | Car | 324.010 | ω |
| Road Circumstance 1 Circumstance 2 Condition Weather Surface Light Fatalities Injuries Day Accoentuate | | 12 | • | 0 | | | | - | | Speed Too Fast Fo Conditions | On Roadway | Nonjunction | S Rear-End | Descending | Going Straight | Tractor - 1 Trailer | 323.900 | |
| Road Circumstance 1 Circumstance 2 Condition Weather Surface Light Fatalities Injuries Day Accedenciate Saturation | _ | | • | 0 | Day | Snow | Snow | | None | Too Slow for Traffic | | Nonjunction | S Rear-End | Descending | Going Straight | Саг | 323.900 | 2 |
| Circumstance 1 Circumstance 2 Condition Weather Surface Light Fatalities Injuries Day AccidentUate | - | <u> </u> | | 0 | Day | Dry | Cloudy | | Alcohol Impaired | None | Median | Nonjunction | S Overturn | gri | 7 | | | 1 |
| Road | identDate Severity | | Injuries | Fatalities | | Surface | Weather | Road Condition | Contributing Circumstance 2 | Contributing Circumstance 1 | Event Relation Tc Road | Junction F | Most Harmful Event | Lane Direction | Driver Action | Vehicle Type | Milepost | Accident # |

All Crashes on US-95 Between the Lewiston Hill and Thorncreek Road (323.36 to 337.668) from 10/01/07 to 12/31/12

Total Crashes: 71 Total Fatalities: 0 Total Injuries: 37

| 002.200 20 |
|----------------------|
| |
| Ascending N |
| Overturn Nonjunction |
| Off Roadway- |
| |
| |
| |
| |
| |
| |
| |
| 3/7/2009 |

| B Injury Accident | 7/16/2011 | | • | 0 | | | | | Failed to Yield | Inattention | On Roadway | In Intersection | S Non-Contact Unit | Descending | Turning Left | Car | 337.180 | |
|------------------------|------------|-----------|-----|---|----------------|------|--------|------|-----------------|----------------------------------|--------------------------|-----------------|-----------------------|--------------|----------------|--------------------------|---------|----|
| B Injury Accident | 7/16/2011 | Saturday | - | 0 | Day | Div | Cloudy | None | None | None | Roadside or Sidewalk | In Intersection | 5 Overturn | Descending | Negotiating | | 337.180 | 71 |
| C Injury Accident | 1/7/2009 | Wednesday | 2 | 0 | Lights | Wet | Cloudy | None | None | None | On Roadway | In Intersection | S Animal - Wild | Descending | Negotiating | Pickup/Van/ Panel/SUV | 337.180 | 70 |
| Property Dmg Report | 10/21/2008 | | | 0 | | | | | Inattention | None | On Roadway | In Intersection | Same Direction | Descending | Going Straight | Car | 336.981 | |
| Property Drng Report | 10/21/2008 | Tuesday | 0 | 0 | Day | Dry | Clear | None | None | None | | In Intersection | Same Direction | Descending | Going Straight | Car | 336.981 | 69 |
| Property Dmg Report | 1/9/2009 | Friday | 0 | • | Lights | Dry | Clear | None | None | None | On Roadway | Nonjunction | 5 Animal - Wild | Descending S | Going Straight | Pickup/Van/ Panel/SUV | 336.600 | 68 |
| Linheith mills inshare | 6007 /c/c | Idesoay | c | c | Day | DIV | Cloudy | None | None | None | On Roadway | Nonjunction | 5 Animal - Wild | Descending S | Going Straight | Car | 335.300 | 67 |
| C Injury Accident | 12/9/2007 | Sunday | ы ш | 1 | Lights | lœ | Snow | None | None | Speed Too Fast For Conditions | Roadside or Sidewalk | Nonjunction | V Overturn | Ascending N | Going Straight | Pickup/Van/ Panel/SUV | 334.800 | 66 |
| C Injury Accident | 1/4/2010 | Monday | - | • | Lights | Wet | Cloudy | None | None | Inattention | Outside Right-Of- Way | Nonjunction | 4 Overturn | Ascending N | Going Straight | Car | 334.732 | 65 |
| B Injury Accident | 10/1/2007 | Monday | 1 | 0 | Day | Dry | Cloudy | None | Overcorrected | Inattention | Left Shoulder | in intersection | Overturn | Ascending N | Negotiating | Pickup/Van/ Panel/SUV | 334.621 | 64 |
| C Injury Accident | 2/28/2011 | Monday | 2 | 0 | Lights | lce | Snow | None | None | Speed Too Fast For Conditions | Outside Right-Of- Way | Nonjunction | Overturn | Descending N | Going Straight | Pickup | 334.500 | 63 |
| Property Dmg Report | 8/7/2010 | Saturday | 0 | 0 | Lights | Diy | Clear | None | None | None | On Roadway | Nonjunction | Animal - Wild | Ascending N | Going Straight | Pickup/Van/ Panel/SUV | 334,500 | 62 |
| Property Umg Report | | Saturday | 0 | 0 | Lights | Snow | Cloudy | None | None | Speed Too Fast For Conditions | Median | Nonjunction | Overturn | Ascending N | Going Straight | Pickup | 334.200 | 61 |
| Property Drng Report | _ | | 0 | 0 | Dark No Street | | | | None | None | | In Intersection | Side Swipe Same | Descending S | Passing | Pickup/Van/ Panel/SUV | 334.160 | |
| Property Ding Report | 12/5/2009 | Saturday | • | 0 | Day | Snow | Cloudy | None | Improper Turn | Inattention | On Roadway | In Intersection | Side Swipe Same | Descending S | Turning Left | Car | 334.160 | 60 |
| Property Dmg Report | | Friday | 0 | 0 | Lights | lce | Snow | None | None | Speed Too Fast For Conditions | Median | Nonjunction | Overturn | Descending S | Going Straight | Pickup/Van/ Panel/SUV | 334.017 | 59 |
| Property Dmg Report | 9/30/2009 | Wednesday | 0 | 0 | Dawn or Dusk | Ру | Cloudy | None | None | Vision Obstruction | On Roadway | Nonjunction | Animal - Wild | Descending S | Going Straight | Pickup/Van/ Panel/SUV | 334.003 | 58 |
| C Injury Accident | 12/30/2010 | Thursday | - | • | Day | Ice | Cloudy | None | None | Other | Roadside or Sidewalk | Nonjunction | 0 | Descending S | Going Straight | Pickup/Van/ Panel/SUV | 333.400 | 57 |
| Property Dmg Report | 2/15/2011 | | 0 | 0 | | | | | None | None | | Nonjunction | ŝ | Descending S | Going Straight | Pickup | 333.200 | |
| Property Dmg Report | 2/15/2011 | Tuesday | • | 0 | Day | Snow | Cloudy | None | None | Drove Left of Center | On Roadway | Nonjunction | Side Swipe Same | Descending S | Going Straight | Pickup | 333.200 | 56 |
| | | | | | | | | | | | | | | | | | | |

Appendix A.2

Official High Crash Location List for District 2

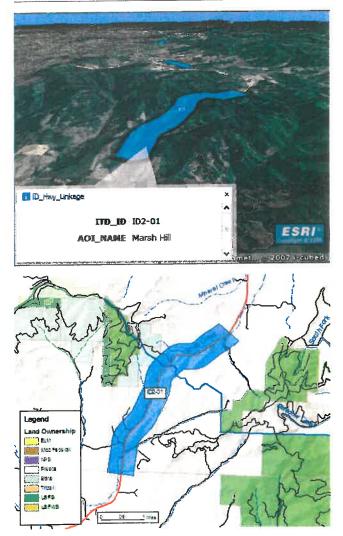


Idaho Transportation Department Office of Highway Safety Cluster Summary Non-Interstate District Report

| | 9 | | | Cluster Summar | ry Non-Int | erstate Dis | strict Report | | | Rate |
|----------|-------|-------|--------------|-------------------|------------|-------------|---------------|------------------|-----------------|-------------------|
| District | Rank | Route | Segment Code | & Milepost Range | Length | County | City | Frequenc Rank | Severit Rank | Multiplie Rank |
| | | | | | | | | | | |
| <u>2</u> | 8.5 | 95 | 001540 | 344.568 - 344.767 | 0.199 | Latah | Moscow | 24 | 35 | 41 |
| | 12 | 12 | 001910 | 33,325 - 33.825 | 0.500 | Nez Perce | | 42.5 | 37 | 33 |
| | 17.5 | 95 | 001540 | 340.620 - 341.620 | 1.000 | Latah | | 52 | 10 | 104 |
| | 28.5 | 95 | 001540 | 282,601 - 283,101 | 0,500 | Lewis | | 98.5 | 28 | 83 |
| | 34 | 95 | 001540 | 337.668 - 339.620 | 1.952 | Latah | | 60 | 41 | 106 |
| | 37 | 12 | 001910 | 123.508 - 127.008 | 1,500 | Idaho | | 159 | 32 | 30 |
| | 38 | 8 | 001870 | 17.980 - 18.480 | 0.500 | Latah | | 72.5 | 86 | 9 |
| | 65 | 95 | 001540 | 368,736 - 369,236 | 0.500 | Latah | | 140.5 | 46 | 96 |
| | 69 | 95 | 001540 | 303.581 - 304.081 | 0.500 | Nez Perce | | 38 | 121 | 53 |
| | 76 | 8 | 001870 | 9.812 - 10.312 | 0.500 | Latah | | 98.5 | 58 | 139 |
| | 82 | 12 | 001910 | 21.640 - 22.640 | 1.000 | Nez Perce | | 163.5 | 6 | 191.5 |
| | 83,5 | 3 | 001800 | 15,050 - 15,550 | 0.500 | Latah | | 140.5 | 95 | 40 |
| | 101 | 12 | 001910 | 36.818 - 37.818 | 1.000 | Nez Perce | | 98.5 | 104 | 128.5 |
| | 119 | 66 | 002530 | .000992 | 0.992 | Latah | | 221 | 100 | 54 |
| | 132 | 95 | 001540 | 349,863 - 351,863 | 2.000 | Latah | | 85.5 | 129 | 172 |
| | 133.5 | 12 | 001910 | 30.825 - 31.825 | 1.000 | Nez Perce | | 163.5 | 81 | 191.5 |
| | 133.5 | 12 | 001890 | .503972 | 0.469 | Nez Perce | Lewiston | 84 | 119 | 195 |
| | 141 | 6 | 001840 | 100.550 - 101.050 | 0.500 | Latah | | 193 | 168 | 15 |
| | 146 | 8 | 001870 | 7.942 - 8.800 | 0.858 | Latah | | 122 | 108 | 214 |
| | 147 | 3 | 001800 | 26.439 - 26.842 | 0.403 | Latah | | 158 | 169 | 59 |
| | 148 | 3 | 001800 | 16.550 - 17.050 | 0.500 | Latah | | 193 | 148 | 67 |
| | 154 | 13 | 001960 | 11.269 - 11.769 | 0.500 | Idaho | | 193 | 178 | 16 |
| | 155 | 95 | 001540 | 355.930 - 356.430 | 0.500 | Latah | | 72.5 | 176 | 142 |
| | 158 | 95 | 001540 | 190.626 - 191.126 | 0.500 | Idaho | | 193 | 115 | 150 |
| | 178.5 | 8 | 001870 | 5.800 - 6.300 | 0.500 | Latah | | 140.5 | 133 | 221 |
| | 180 | 12 | 001910 | 18.450 - 18.950 | 0,500 | Nez Perce | | 140.5 | 158 | 173 |
| | 189 | 95 | 001540 | 280.101 - 280.601 | 0.500 | Lewis | | 140.5 | 187 | 140 |
| | 191 | 12 | 001910 | 99.508 - 100.508 | 1.000 | Idaho | | 226 | 131 | 170.5 |
| | 200 | 95 | 001540 | 367.736 - 368.236 | 0.500 | Latah | | 140.5 | 223.5 | 96 |
| | 202 | 162 | | 5.427 - 6.427 | 1.000 | Idaho | | 226 | 208 | 50 |
| | 203 | 12 | | 46.893 - 47.393 | 0.500 | Clearwater | | 140.5 | 218 | 117.5 |
| | 205 | 12 | | 28.825 - 29.325 | 0.500 | Nez Perce | | 140.5 | 209 | 165 |
| | 210 | 95 | | 196.189 - 196.689 | 0.500 | Idaho | | 193 | 189 | 156 |
| | 212 | 95 | | 370,736 - 371,236 | 0.500 |) Latah | | 193 | 205.5 | 161.5 |
| | 225 | 12 | | 138.008 - 139.008 | 1.000 |) Idaho | | 226 | | 170.5 |
| | 226 | 6 | | 2.748 - 3.248 | 0.500 |) Latah | | 193 | 213 | 178 |
| | 227 | 3 | | 6.000 - 8.000 | 1,000 |) Latah | Juliaetta | 218.5 | 211 | 202.5 |
| | 221 | 5 | | - | | | | | | |

Appendix B.1

Wildlife Crossing Areas on US-95 in Latah County Identified by Idaho Fish and Game



ITD2_ID: ID2-01

AOI_NAME: Marsh Hill

PRIORITY: Moderate

SPECIES: mule deer/ elk/ moose/ black bear/ small mammals

MIG_POP:

LOC_POP: Yes

SCALE:

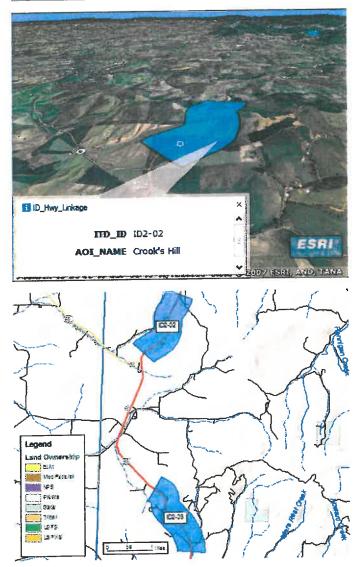
HWY_MORT:

SEASON: Spring, Summer, Fall, Winter

ATTRACT:

AGENCIES:

ADDITIONAL COMMENTS: Not a high kill area.Herd of elk by rest area.



ITD2_ID: ID2-02

AOI_NAME: Crook's Hill

PRIORITY: Low

SPECIES: mule deer/ elk/ moose/ small mammals

MIG_POP:

LOC_POP:

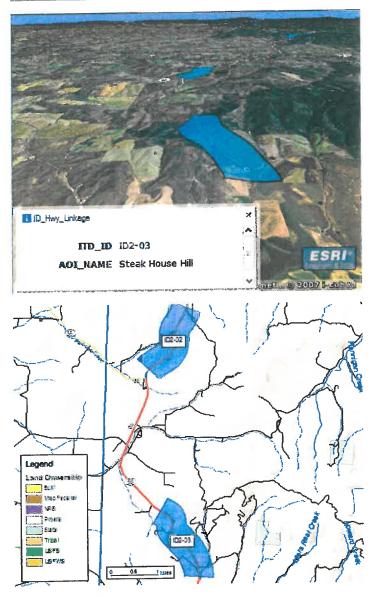
SCALE:

HWY_MORT:

SEASON:

ATTRACT:

AGENCIES:



ITD2_ID: ID2-03

AOI_NAME: Steak House Hill

PRIORITY: Moderate

SPECIES: mule deer/ elk/ moose/ small mammals

MIG_POP:

LOC_POP:

SCALE:

HWY_MORT:

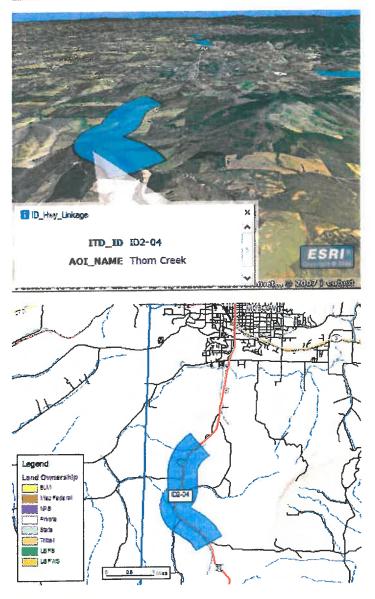
SEASON:

ATTRACT:

AGENCIES:

ADDITIONAL COMMENTS:

High kill area. Potential highway safety issue.



ITD2_ID: ID2-04

AOI_NAME: Thorn Creek

PRIORITY: Low

SPECIES: mule deer/ elk/ moose/ short-eared owls/ small mammals

MIG_POP:

LOC_POP:

SCALE:

HWY_MORT:

SEASON:

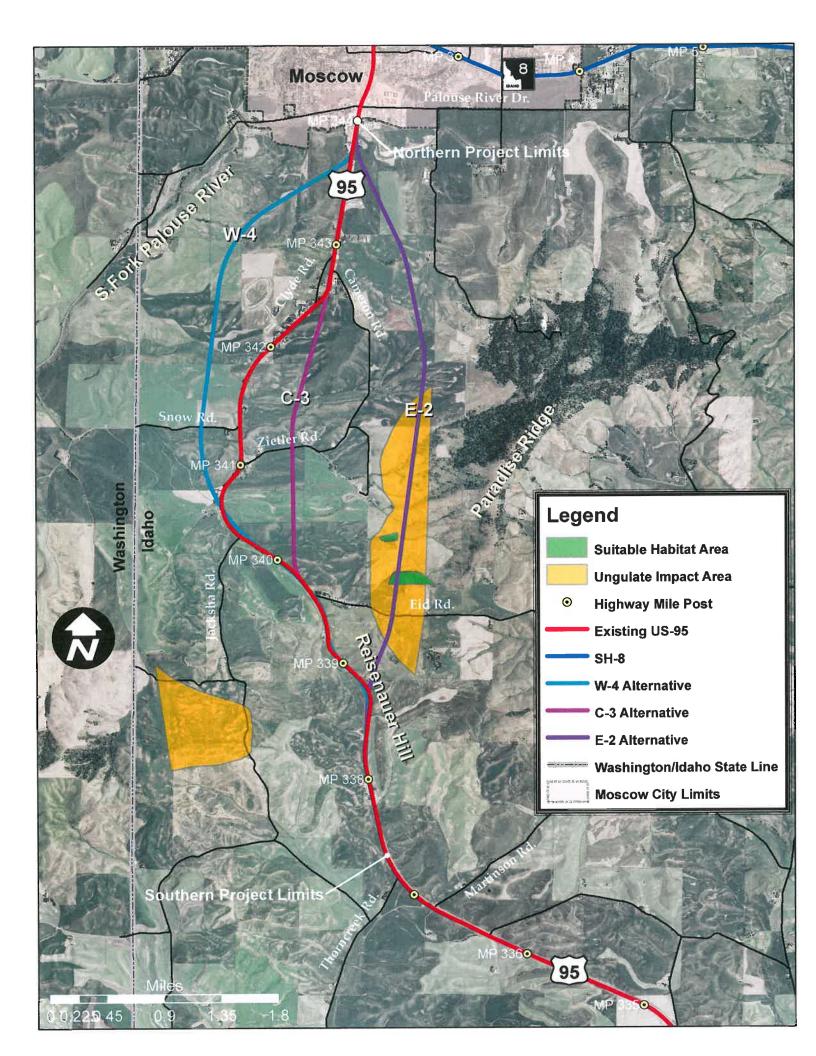
ATTRACT: water/riparian

AGENCIES:

ADDITIONAL COMMENTS:

Moose population increasing in this area. Private ponds act as an attractant. Plans to make hwy wider and relocate.

Appendix B.2 Ungulate Impact Area



Appendix B.3

Methods to Reduce Traffic Crashes Involving Deer: What Works and What Does Not

Methods to Reduce Traffic Crashes Involving Deer: What Works and What Does Not

James H. Hedlund* Paul D. Curtis** Gwen Curtis** Allan F. Williams

October 2003

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ABSTRACT

More than 1.5 million traffic crashes involving deer are estimated to occur each year in the United States. These crashes produce at least \$1.1 billion in vehicle damage and about 150 fatalities annually. Deer-related crashes are increasing as both deer populations and vehicular travel increase. Many methods have been used in attempts to reduce deer crashes, often with little scientific foundation and limited evaluation. This paper summarizes the methods and reviews the evidence of their effectiveness and the situations in which each may be useful. The only widely accepted method with solid evidence of effectiveness is well-designed and maintained fencing, combined with underpasses or overpasses as appropriate. Herd reduction is controversial but can be effective. Deer whistles appear useless. Roadside reflectors appear to have little long-term effect, although additional well-designed evaluations are needed before firm conclusions can be drawn. Both temporary passive signs and active signs appear promising in specific situations, but considerable research is required to evaluate long-term driver response and to improve and test deer detection technology for active signs. Other methods using advanced technology require substantial additional research and evaluation.

INTRODUCTION

Deer and motor vehicles do not share the nation's highways gracefully or safely. Although precise data are not available, the best estimates suggest that more than 1.5 million deer-vehicle crashes (DVCs) in the United States in 2002 produced at least \$1.1 billion in vehicle damage, about 150 human fatalities, and at least 1.5 million dead deer (Conover et al., 1995; DeerCrash, 2003; Williams, 2003a). These numbers are rising every year as both the number of deer and the amount of motor vehicle travel continue to increase.

Many methods have been proposed and implemented in attempts to reduce DVCs. Few have been documented or evaluated well. This summary reviews the methods and evidence of their effectiveness. For the methods with solid evidence we discuss conditions most appropriate for their use. For promising methods we suggest additional research. Finally, we provide data collection and reporting recommendations that, if implemented, will help to understand the DVC problem more clearly and evaluate DVC control methods more accurately.

Deer Population and Crash Trends

Deer inhabit all of the United States, including Hawaii, where they have escaped from captivity. White-tailed deer are common east of the Rocky Mountains, especially in northeastern, southeastern, and midwestern states; mule deer are found from the Rocky Mountains west, with smaller populations of black-tailed deer in some locations. In southern areas, white-tailed deer usually occupy fixed range areas year-round. In northern areas with deep snow, white-tailed deer may travel many miles between summer

ranges and winter deer yards. These movements depend somewhat on winter severity and spring greenup. Mule deer have regular migratory routes between summer and winter ranges.

Deer population totals are difficult to estimate, but there is abundant evidence that deer populations have increased over the past century. McCabe and McCabe (1997) estimated a North American white-tailed population of 24-33 million in 1500, before European settlement began, which dropped below 2 million by 1900 and then rose to 16-17 million by 1997. Other estimates placed the total U.S. deer population at 25-30 million by the end of the twentieth century; for example, Knapp (2001) estimated more than 27 million deer. Knox (1997) estimated that Virginia's deer population increased from about 25,000 in 1923 to about 900,000 in 1994.

Nationwide DVC counts also are difficult to estimate, but there is strong evidence that they are increasing. Most state crash data files record crashes with animals but do not distinguish deer from other animals such as moose, elk, horses, and cattle. The National Highway Traffic Safety Administration (NHTSA) Fatality Analysis Reporting System, a census of all fatal traffic crashes, shows an average of 154 fatal crashes involving animals in the four years 1998-2001, compared with an average of 111 in the four years 1992-95, an increase of 39 percent. NHTSA's General Estimates System estimates about 274,000 total police-reported crashes with animals annually in 2000-01 compared with 222,000 in 1992-93, an increase of 24 percent (Williams, 2003a). Data from states that distinguish deer from other animals suggest that most animal crashes involve deer: 99.7 percent in Michigan (Highway Safety Information System (HSIS), 1995), more than 90 percent in Minnesota (HSIS, 1995), and 93 percent in Pennsylvania (Williams, 2003a).

DVCs increased by 54 percent in Pennsylvania from 1994 to 2000 (Williams, 2003a), by 51 percent in Iowa from 1990 to 1997 (Hubbard et al., 2000), and by 69 percent in five states combined (Illinois, Maine, Michigan, Minnesota, and Utah) from 1985 to 1991 (HSIS, 1995). In 1999, 16 percent of all reported traffic crashes in Wisconsin were DVCs, up from 5 percent in 1978 (DVCR Working Group, 2000). The number of DVC claims at a major automobile insurance company rose 21 percent from 1998 to 2001 (Williams, 2003b).

Many DVCs are not reported to police. In a small telephone survey in New York, Decker et al. (1990) found that police were notified of about half, and insurance companies of less than half, of the DVCs. Taking the police underreporting into account, Conover et al. (1995) estimated that about 1.5 million DVCs occurred annually in the mid-1990s. The reported crashes alone produced more than \$1.1 billion in vehicle damage (in 1993 dollars); the unreported crashes added additional vehicle damage costs. More recently, an estimated 131,500 DVCs occurred in 2000 in the five upper midwest states of Illinois, Iowa, Michigan, Minnesota, and Wisconsin, producing 23 deaths, 4,650 injuries, and \$222 million in vehicle damage (DeerCrash, 2003).

DVCs are seasonal. White-tailed deer DVCs peak in October and November during the breeding season, with a secondary peak in May and June as yearling deer disperse from their birth ranges (Allen and McCullough, 1976 (Michigan data); Decker et al., 1990 (New York data); Puglisi et al., 1974 (Pennsylvania data); HSIS, 1995 (data for five states combined)). Mule deer DVCs are most frequent during the spring and fall migrations (Messmer et al., 2000). DVCs occur predominantly in darkness, on high-speed, two-lane, rural roads (HSIS, 1995; Williams, 2003a), especially when forest cover is close to the roadway (Finder et al., 1999).

Study Approach

We reviewed both published studies and other information obtained from highway safety, motor vehicle insurance, and natural resources sources. Three review studies were especially useful: Danielson and Hubbard (1998), DeerCrash (2003), and Putman (1997). The DeerCrash website (deercrash.com) contains an extensive bibliography and periodically updates summaries of information on specific methods. Studies involving animals other than deer were not reviewed systematically but were included when appropriate.

Three general strategies to reduce DVCs are to modify driver behavior, modify deer behavior, or reduce the number of deer. Each can be attempted in several ways. We summarize the theoretical basis and supporting evidence for each method and assess the available evaluation studies. We did not conduct a formal meta-analysis with specific criteria to define high-quality studies. Rather, we give more weight to methods with evidence from studies with sound designs, controls for potentially confounding influences, adequate sample sizes, and consideration of how the method's effectiveness may change over time.

METHODS TO AFFECT DRIVER BEHAVIOR

Three methods to affect driver behavior are to increase driver awareness of deer and the possibility of DVCs, improve the visibility of deer on or approaching roadways, and reduce driving speeds so drivers have more time to avoid crashes.

General Education

General education consists of efforts to provide information about DVC dangers so drivers will watch more carefully for deer and drive more slowly. Typical methods include news stories and public awareness campaigns in peak DVC seasons. About half the states use some form of general education (Romin and Bissonette, 1993; Sullivan and Messmer, 2003).

None of the general education campaigns has been evaluated. In other traffic safety areas such as impaired driving and occupant protection, stand-alone general education campaigns have not been effective in modifying driver behavior (O'Neill, 2001; Williams, 1994). Campaigns can be effective

when they present new information that directly affects drivers and that is reinforced by something drivers can observe. For example, publicity announcing increased enforcement of a safety belt use law can be effective when the publicity is followed with extensive law enforcement presence. It is unlikely that DVC general education is useful unless it provides information on very specific and time-sensitive situations, such as the beginning of mule deer migration across a short road segment. In these situations, either temporary passive or active signs may be more effective than general campaigns.

Signs

Roadside signs attempt to warn drivers of specific locations and even times when deer may be present. Passive signs have a fixed message at all times, though they may use lights or animation to attract attention. Active signs are lighted when deer are detected on or near the roadway.

Passive signs: Roadway signs warning drivers of deer-crossing locations are used in almost all states (Romin and Bissonette, 1993; Sullivan and Messmer, 2003). Most are passive: fixed signs in fixed locations, with the same message in words or pictures at all times and in all seasons, usually a standard yellow diamond sign with the figure of a deer, as specified in the *Manual of Uniform Traffic Control Devices*.

No studies have evaluated the effectiveness of standard deer warning signs in increasing driver awareness of deer, in reducing driving speeds, or in reducing DVCs. Because passive signs are used so frequently at locations where deer are present only occasionally, drivers probably ignore them (Putman 1997, Sullivan and Messmer, 2003).

Lighted and animated signs: Three methods have been used to attempt to increase the effect of deer warning signs. The first is to make the signs more visible with lights, flags, or even a lighted and animated figure of a deer. In a small study of lighted and animated signs, Pojar et al. (1975) found a slight effect on vehicle speeds but no effect on DVCs.

Temporary passive signs: The second method, used on roads crossed by mule deer migration corridors, installs or uncovers passive signs only during migration periods. Messmer et al. (2000) used large warning signs with battery-powered flashing amber lights at the ends of a two-mile and a four-mile roadway section, together with smaller flashing signs at each milepost within the two sections. Travel speeds during three migration periods when the signs were displayed and activated dropped about 8 mph from pre-migration levels, and DVCs dropped by 50 percent in the spring and 70 percent in the fall migration compared with three previous years. In a more extensive study of the same technique, using a more powerful research design, Sullivan et al. (preprint) placed similar temporary lighted signs on five roadway sections in three states with an adjacent section, separated by a buffer section, as a control. DVCs were about 50 percent lower in signed than in control sections across all sites. Vehicle speeds also were lower in signed sections.

Active signs: The final method uses signs that are activated only when deer are detected near the roadway. Detection methods include infrared light (in Minnesota), radar (Wyoming), laser (Washington), radio frequency beams parallel to the roadway (Indiana), and heat detection cameras (British Columbia). In Washington, radio collars have been attached to 8 elk in a herd of 80 near a segment of Highway 101. Flashing "elk warning" signs are activated when any of the collared elk come within one-quarter mile of the roadway (DeerCrash, 2003).

The only evaluation of these methods to date is a small study of a segment of U.S. 30 in Nugget Canyon, Wyoming (Gordon et al., 2001). An eight-foot fence was erected along both sides of the roadway, with a 300-foot gap through which migrating deer could cross. Two deer detection systems were used: infrared heat sensors, and geophones that detect ground vibrations combined with infrared light beams that detect motion across the beam. Both systems detected almost all deer (very few false negatives). The heat sensor system also was activated by birds and snow (more than 50 percent false positives), while the combined geophone and infrared system had no false positives. Vehicle speeds dropped by about 4 mph when the "deer on road when lights are flashing" sign was lighted, regardless of whether the sign was triggered by a deer, a false positive, or remotely by a researcher. DVC data were not collected, and it is unclear whether the observed speed reduction would be large enough to affect DVCs.

In summary, standard passive signs, although low-cost and low-maintenance, are unlikely to have any effect, though no evaluations substantiate this conclusion. The one study of lighted signs showed no effect on DVCs. Initial results are encouraging for temporary passive signs used in defined mule deer migratory corridors during migratory periods, which can vary from year to year. More testing is needed before the potential of active signs can be evaluated accurately. The two main issues are to refine detection technology to minimize false positives and false negatives and to determine the effects of these signs on driver behavior and DVCs.

Deer Visibility

The sooner a driver sees a deer on or approaching a roadway, the better the chance of avoiding a crash. Deer visibility can be improved through roadway lighting, roadside clearing, or methods to enhance drivers' nighttime vision.

Roadway lighting: Roadway lighting is commonly used to improve driver vision in urban areas, freeway interchanges, and other potentially dangerous locations. Because most DVCs occur at night, roadway lighting is an obvious potential countermeasure. In the only study of the effect of roadway lighting on DVCs, Reed and Woodard (1981) studied a single three-quarter-mile section in Colorado using a one week on/one week off design. The lighting did not affect overall deer crossings or driving speeds, and the study was too small to detect an effect on DVCs.

Roadway lighting is expensive. Only two states reported using lighting to control DVCs (Romin and Bissonette, 1996). It is unlikely to be useful except in very specialized situations.

Roadside clearing: A broad clear roadside area allows drivers to see deer that may enter the road and reduces forage that may attract deer close to the roadway. Finder et al. (1999) found that the most important landscape or topographical feature predicting high DVC sites in Illinois was the distance between the roadway and forest cover. In a study in Norway, Jaren et al. (1991) found that a clear 20-30 meter strip reduced crashes between railway trains and moose by more than 50 percent. Putman (1997) and Bruinderink and Hazebroek (1996) recommend reducing forage near the roadside. Roadside clearing raises many issues beyond DVC control, such as the costs of acquiring roadside right-of-way and of maintaining a clear area, the potential safety benefits if trees adjacent to the roadway are removed, and the aesthetics of cleared areas along secondary roads.

Infrared detection from vehicles: A potential long-term strategy to improve drivers' night vision is to equip vehicles with infrared technology that can detect deer and other heat-emitting objects and transmit information to drivers on heads-up displays. These systems have been introduced recently in Cadillacs (General Motors, 2000) and as aftermarket equipment for heavy trucks (Bendix, 2002), but their effects on DVCs have not been evaluated. Any strategy involving vehicle modifications requires many years to implement in the majority of the vehicle fleet.

Speed Limits

An approach often suggested to reduce traffic crashes in many situations is to attempt to reduce travel speeds through lower speed limits. Unfortunately, lower speed limits do not necessarily produce lower travel speeds (Transportation Research Board, 1998). The only study to evaluate the effects of speed limit changes on wildlife crashes involved short road segments in the highly regulated environment of Jasper National Park. Bertwistle (1999) compared sheep and elk crashes for eight years before and eight years after the speed limit was reduced from 90 to 70 km/h on three highway segments of 2.5 km, 4 km, and 9 km. He found that sheep crashes *increased* on these segments and decreased on adjoining segments where the speed limit remained at 90 km/h. Elk crashes increased on the speed-limit-reduction segments and increased more on the unchanged segments. No travel speed data were collected to measure the direct effect of the speed limit change. Bertwistle notes that differences in sheep and elk behavior likely explain the crash result differences.

Speed limit reductions together with deer warning signs may be useful in very specific locations with high deer populations or migration routes. However, unless speed limits are actively enforced, they are unlikely to affect travel speeds significantly, and perhaps not even then. Although seven states reported reducing speed limits in an attempt to control DVCs (Romin and Bissonette, 1996), the effects of these speed limit reductions have not been evaluated.

METHODS TO AFFECT DEER BEHAVIOR

Deer behavior management strategies attempt to either physically block deer from the roadway or make the roadway less attractive to deer by appealing to their senses of sight, sound, or smell.

Physical Control

Fencing: Fencing provides a physical barrier that attempts to prevent deer from entering the roadway. Every review of DVC control methods during the past 20 years has concluded that properly designed and maintained fencing, used together with appropriate underpasses, overpasses, and one-way deer gates, is the most effective method for reducing DVCs both in the United States (Danielson and Hubbard, 1998; Reed et al., 1979) and in Europe (Bruinderink and Hazebroek, 1996; Putman, 1997; Staines et al., 2001). State wildlife administrators agree, while state highway administrators rank fencing second to reducing deer herd size (Sullivan and Messmer, 2003). In 1992, 11 states had erected fencing to reduce DVCs (Romin and Bissonette, 1996). Crashes with moose were reduced by 80 percent after about 1,300 km of main roads in Sweden were fenced (Lavsund and Sandegren, 1991).

Aside from herd reduction, fencing is the only DVC method that unquestionably is effective if applied properly. Fencing that is sufficiently high, strong, long, and well-anchored with no gaps or tunnels will prevent deer from crossing a fenced road section. The issues with fencing involve the details and side effects.

- Physical characteristics: Fencing must be sufficiently high and long. Several studies have found 2.4 m (7.8 ft) fencing effective (Ward, 1982 (in Wyoming); Reed et al., 1982 (in Colorado); Ludwig and Bremicker, 1983 (in Minnesota)). White-tailed deer will jump a 2.2 m (7.4 ft) fence in search of food (Bellis and Graves, 1978). Fencing must extend far enough along a roadway to discourage deer from detouring around the ends of the fenced section. The necessary length depends on deer movement patterns. After one year's experience, Ward (1982) extended a fenced section from 6.7 to 7.8 miles and reduced end runs substantially. Electric fencing, currently being studied in Michigan, may provide an effective alternative to chain-link fencing (DVCR Working Group, 2000). Curtis et al. (1994) summarized the characteristics and effectiveness of various fencing types used to prevent deer from damaging crops.
- *Maintenance:* Regular checks are required to repair tunnels and breaks caused by erosion, animals, falling trees, and people. Deer regularly test a fence and are quick to pass through any breaks or gaps (Ward, 1982). Deer can crawl though openings less than 10 inches high under a fence (Bellis and Graves, 1978; Falk et al., 1978).
- *Effect on deer movements:* Fencing design should consider deer movement patterns and provide safe passage routes, as appropriate, through underpasses or other methods.

- Escape routes: Deer that manage to enter a fenced roadway need some way to escape. One-way
 gates have been found generally successful (Reed et al., 1974; Ward, 1982; Ludwig and
 Bremicker, 1983).
- *Costs:* Effective fencing is costly to construct and maintain. Iowa recently estimated construction costs for 8 ft chain-link fence on one side of a roadway at \$42,000 per mile (Danielson and Hubbard, 1998).
- *Other effects:* Roadway fencing or more substantial physical barriers may have other benefits such as reducing noise in adjacent properties or preventing pedestrian access to high-speed roads. Fencing and barriers may have positive or negative aesthetic implications.

Underpasses and overpasses: Deer underpasses, and more rarely used overpasses, allow deer to cross a roadway without encountering vehicles. Deer sometimes use underpasses or overpasses created when highways cross rivers or tunnel through ridges. Seven states report using underpasses specifically to allow deer crossings (Romin and Bissonette, 1996). Olbrich (1984) noted 824 under- and overpasses for animals on 823 km of federal highway in West Germany. To be effective, fencing or other barriers are required to channel deer to underpasses and overpasses.

Ward (1982) describes how a system of fencing and six underpasses was used along 7.8 miles of interstate highway crossing a mule deer migration route. The system did not disrupt deer movement and virtually eliminated DVCs. Other studies consider whether and how underpasses and overpasses are used rather than how they affect DVCs. Deer can be reluctant to use them, even when highly motivated to move along a migration route or to forage (Reed et al., 1975). Deer can remain wary or frightened even after several years of experience with the same underpass (Reed, 1981). Ward (1982) placed forage in underpasses to attract deer.

Factors affecting the use of underpasses and overpasses include their locations in relation to natural deer paths, size (wide openings and short lengths), design (earth floors), visual appearance (exit clearly visible from entrance, light walls and ceiling), and woody cover at the entrances (Danielson and Hubbard, 1998; Hartmann, 2003; Putman, 1997). In particular, some studies propose a minimum acceptable underpass "openness factor" of entrance area divided by underpass length (Putman, 1997).

Fencing and underpasses have been used to assist various species. Hartmann (2003) summarizes several case studies of underpass and overpass use by elk, bear, panther, mountain goats, and even salamanders. Singer and Doherty (1985) describe an underpass construction for mountain goats that directed almost all goats under rather than across the highway. Foster and Humphrey (1995) review other useful studies.

Underpasses and overpasses are expensive when included in original highway construction. Adding them to an existing highway is even more expensive. At-grade crosswalks: Crosswalks may provide a middle ground between a fully separated underpass or overpass and uncontrolled crossings marked only with signs. In the only study to date, Lehnert and Bissonette (1997) installed nine crosswalks on about 13 miles of two-lane and 4 miles of divided four-lane highways in Utah, with similar adjacent roads used as controls. At each crosswalk, fencing and landscaping directed deer to the crosswalk area. Because fencing was not permitted on the highway shoulder, the deer were channeled to the highway on a dirt path bordered by cobblestones. A similar path bordered by cobblestones crossed the divided highway's median strip. White painted cattleguard lines bounded the path across the highway surface. One-way gates in the fencing near the crosswalks allowed deer that moved beyond the crosswalk area to leave the roadway. Passive signs warned drivers to expect deer in the crosswalk areas.

The crosswalks appeared to decrease DVCs by about 40 percent, although the small sample size precluded any definitive conclusions. The crosswalk design of cobblestones and cattleguard stripes directed many, but not all, deer across the road as intended. Although drivers may have been more alert for deer at crosswalk areas, fewer than 5 percent responded to crosswalk signs by slowing down or turning on their high-beam headlights.

Crosswalks may be worth additional study to determine if design improvements can contain deer more effectively and if active signs that detect deer in the crosswalk area can improve driver awareness and actions.

Crosswalks, underpasses, and overpasses are more likely to be effective for western mule deer than eastern white-tails. Mule deer have defined migratory routes across highways, so DVCs are confined to relatively few locations where these expensive control methods can be justified. In contrast, white-tailed deer crashes occur throughout substantial lengths of two-lane, rural roads (Maine Department of Transportation, 2002). Further, DVCs occur most frequently in the fall breeding season, when antlered males are chasing females. At these times, crosswalks or other methods short of the complete physical control provided by substantial fences are unlikely to keep deer off the highway.

Sensory Control

Reflectors: Reflectors, used in Europe and some areas of the United States for more than 30 years, are the most contentious DVC control method. They have strong advocates, strong opponents, and conflicting results from more than 10 studies. The most commonly used and most frequently evaluated system, manufactured by Swareflex, consists of reflectors installed on posts at regular intervals along the roadway. Light from vehicle headlights is reflected to form a continuous "visual fence" of red, blue-green, or white light that deer are expected not to cross. Red reflectors form a visual barrier that humans cannot detect, so that it does not distract drivers. In 1992, 22 states reported using reflectors (Romin and Bissonette, 1997).

The basic behavioral questions about reflectors are whether deer can see light in the wavelengths used, whether deer are reluctant to cross such light beams, and whether deer become habituated to light beams over time. Zacks (1986) studied the effect of red and white light from Swareflex reflectors on penned white-tailed deer. He found no evidence that a beam of red or white light produced by reflectors from a static source, as opposed to a moving vehicle, affected deer behavior. Ujvari et al. (1998) exposed fallow deer in a large forested area to light from WEGU reflectors (a design similar to Swareflex) during a period of 15 nights. They found the proportion of deer that did not react to the reflected light increased over time: on the first night, 99 percent of the deer fled from low-intensity reflected light, while on the final three nights about 40 percent were completely indifferent to higher intensity light.

DeerCrash (2003) describes and summarizes 10 studies that attempt to evaluate the effect of roadside reflectors on DVCs using different study designs. The overall results are at best ambiguous.

- Four studies used designs that alternately cover and uncover the reflectors along a roadway segment. One found reflectors effective and three did not.
- Four studies used before/after designs. One found reflectors effective, one did not, and two had inconclusive results.
- Two studies used treatment/control designs. One found that reflectors were effective at some sites but not at others and the other study found no effect.

The best study in terms of its design, size, and power is Reeve and Anderson (1993), who used a cover/uncover design with control segments for three years on a 24.1 km segment of U.S. 30 in Wyoming that crosses a major mule deer migration route. They recorded 126 DVCs when the reflectors were uncovered, 64 when covered, and 147 on control segments. They concluded that the reflectors had no effect on DVCs.

Schafer and Penland (1985) provide the most positive site-specific evidence of effectiveness. They studied four roadway sections totaling 3.68 km in Washington during three years, in an area populated largely by white-tailed deer. They also used a cover/uncover design but with no control segments. They recorded 52 DVCs when reflectors were covered and only 6 when uncovered, concluding that the reflectors were highly effective.

Pafko and Kovach (1996) summarize results from a larger but less controlled application in Minnesota. Reflectors were installed at 16 road segments totaling 16.35 miles, four segments each in coniferous forest, prairie farmland, central hardwood, and metropolitan hardwood habitats. Average annual DVC counts on these segments for several years before and seven years after installation show 79 to 90 percent reductions in DVCs in the three rural habitats from pre-installation DVC averages of 98 to 214. In the metropolitan habitat, DVCs increased by 87 percent from a pre-installation average of 11.8.

These three examples illustrate the difficulties of drawing definitive conclusions from even the best studies. The very substantial reductions from high DVC totals found by Pafko and Kovach (1996)

suggest significant effects even though their simple before/after design does not control for other factors that may influence DVCs and their DVC counts may not be completely accurate. However, the authors note that estimated statewide deer populations were increasing during the study, DVCs did not decrease substantially on other roads, and the reductions appeared stable for several years. The increase in metropolitan areas may be due to small sample sizes, traffic volume increases, or reflector ineffectiveness on heavily traveled roads. Reeve and Anderson (1993) and Schafer and Penland (1985) reach very different conclusions from similar studies. Schafer and Penland had a considerably smaller study, with no control area, in an area populated largely by whitetails, while Reeve and Penland's study was on a mule deer migratory route.

If reflectors are effective, they offer obvious advantages. They are cheaper to install and maintain than physical barriers created with fencing and underpasses, though their cost is not insignificant — an estimated \$8,000 to \$10,000 per mile for installation (Danielson and Hubbard, 1998) plus annual maintenance to repair or replace damaged reflectors. Reflectors form a barrier only when vehicle headlights are present, so they allow deer to cross roads freely during daylight hours. However, the evaluations to date leave many questions unanswered. There appears to be no solid behavioral evidence that deer are reluctant to cross a light beam produced by reflectors. Do deer cross a beam at will, as suggested by Zacks (1986)? Do deer become habituated to such a beam, as found by Ujvari et al. (1998)? Are reflectors effective on high-volume roadways where there are few breaks in traffic to permit deer to cross? Are they effective on migratory routes or low-volume roads through established range areas where deer move freely?

Simple metal mirrors to reflect vehicle headlights as white light flashes also have been installed in a manner similar to reflectors. It appears that deer rapidly become accustomed to them, and they corrode quickly (Gilbert, 1982; Putman, 1997). Lavsund and Sandegren (1991) concluded from a large experiment that mirrors had no effect whatsoever on moose crashes in Sweden.

Flagging: An early attempt to influence deer behavior through sight was based on the observation that white-tailed deer raise their tails as a warning sign to other deer. Graves and Bellis (1978) placed rear-view silhouette models of deer with raised tails along a highway. These deer flag models did not affect deer movements (see also DeerCrash, 2003).

Whistles: Deer warning whistles have been available to the public for more than 20 years. A typical whistle is attached to a vehicle and produces ultrasonic noise in the range of 16-20 kHz when vehicle speed exceeds about 30 mph (DeerCrash, 2003). Whistles are based on the presumption that deer can hear and will be warned away from noise in this range. Twenty states reported using whistles in 1992 (Romin and Bissonette, 1997), although state wildlife agency and transportation department administrators ranked whistle effectiveness lowest of all common methods (Sullivan and Messmer, 2003).

Romin and Dalton (1992) conducted the only high-quality study of whistle effects. They drove past 150 groups of deer at distances up to 100 meters and a speed of 65 km/h, observing deer behavioral responses. Two common brands of whistles had no effect on deer behavior, even when deer were within 10 meters of the road. Romin and Dalton were unaware of any research demonstrating that deer are frightened by sound in the range produced by whistles. In a review of the effects of sound on animals and birds of many species, Bomford and O'Brien (1990) concluded that sounds of the type produced by whistles (steady noise rather than specific alarm or distress signals) may influence movements in the short term but that mammals and birds become accustomed to these sounds after long or frequent exposure.

Several less scientific reports and considerable anecdotal evidence either support or deny the effectiveness of whistles. For example, Cline (1989) reported on a one-year test of whistles attached to 42 Michigan State Police vehicles in five locations; 43 vehicles in five other locations served as controls. There were 14 DVCs involving police vehicles in the test locations and 5 in the control locations during the prior year; during the experimental year, there were 5 DVCs in each location. Based on these results, Cline concluded that the whistles were effective.

Roadside whistles, as opposed to vehicle-mounted whistles, are being tested in Saskatchewan (Beaupré, 2002). A series of noisemaking devices together with vehicle detection sensors was mounted along a 5 km section of highway. When the sensors detect a vehicle, the device warns deer with either sound or light signals.

In summary, there is no firm evidence that whistles are effective and considerable evidence that they are not. In the only high-quality study (Romin and Dalton, 1992), deer were not affected by whistles. It is unclear whether deer can hear whistles, whether whistle noise is covered by traffic noise, or whether deer become accustomed to whistle noise over time. In the absence of any solid studies that whistles are effective, they cannot be recommended.

Repellents: Chemical and biological substances attempt to repel deer in two ways. Contact repellents with unpleasant tastes applied to a food source seek to reduce or eliminate feeding. Area repellants with unpleasant smells, such as predator urine, seek to prevent deer from entering or crossing an area.

Several studies, summarized in El Hani and Conover (1995) and DeerCrash (2003), evaluated the effectiveness of various repellents on the feeding patterns of white-tailed and mule deer. Some repellents reduced feeding, but none completely stopped deer from feeding or entering an area. The studies also showed that deer habituate to repellents and will not be deterred by them if sufficiently hungry. No study in the United States has evaluated the effects of repellents in reducing DVCs, and repellents are not used systematically in any state to control DVCs (Romin and Bissonette, 1996). Putman (1997) reported that repellent "scent fences" have been studied in Germany, with mixed results. Early results from a repellent "odor fence" installed along 53 km of roadway in British Columbia, using posts and boxes every 0.25 km,

reportedly showed a 36 percent DVC reduction from the prior 10 years, and a test of four different repellents along 16 km of roadway on Vancouver Island began in 1999 (DVCR Working Group, 2000).

Repellents are most likely to hinder deer movements when applied in conjunction with fences or other physical barriers (Curtis et al., 1994). Jordan and Richmond (1992) demonstrated that an electric fence treated with repellents was more effective in deterring deer from feeding on apples than an electric fence alone, although repellent effectiveness decreased significantly after several weeks. The combination of repellents and fences has proved useful for home gardens and agricultural fields (Curtis et al., 1994) but would be expensive to install and maintain along highways.

Intercept feeding: In certain locations, deer regularly cross roadways to feed. Wood and Wolfe (1988) studied three such road sections in Utah for two years. On the treatment portion of each section, they established and maintained feeding stations more than 1,200 feet away from the roadway. They found lower DVCs in some, but not all, treatment areas. They noted that a feeding program has continuing costs, may make deer dependent on the food provided, and may attract more deer to the roadside. They concluded that intercept feeding may be useful only temporarily in specific situations.

Salt alternatives: Some authors suggest that deer may be attracted to roadways by salt applied to melt ice in the winter and that other deicing substances should be used instead (Feldhamer et al., 1986; DeerCrash, 2003). However, no studies have investigated the issue.

METHODS TO AFFECT DEER POPULATIONS

If there were no deer, or no deer near highways, there would be no DVCs. Deer herd reduction has long been considered an appropriate strategy for reducing DVCs as well as crop and garden losses caused by deer (DeNicola et al., 2000). State transportation department administrators rated herd management as potentially the most effective DVC control strategy, while state wildlife administrators rated it second only to fencing (Sullivan and Messmer, 2003).

The only herd reduction strategy that would completely eliminate DVCs would be to eliminate all deer, which the general public would not accept. Indeed, even in a high DVC area, only a minority of the public wished to reduce the deer population (Stout et al., 1993). In a survey of 10 randomly selected large metropolitan areas, 63 percent of respondents wanted no change in the number of deer in their neighborhoods, 27 percent wanted more deer, and only 10 percent wanted fewer deer (Conover, 1997).

Two reports document how local deer herd management policies can affect DVCs. In 1972, Princeton, New Jersey, passed a no-firearms-discharge ordinance. DVCs then increased by 436 percent in 10 years, from 33 in 1972 to 144 in 1982, compared with no statistically significant change in two adjoining townships where firearms hunting continued to be allowed (Kuser, 1995). Princeton then tried to reduce DVCs and other deer-related problems with deer whistles, reflectors, and increased bowhunting, but DVCs continued to rise, to 167 in 1991 and 227 in 1992. Irondequoit, New York, began a selective deer culling and bowhunting program in 1993. About 125 deer were removed in each of the next eight years. DVCs dropped from 227 in 1992 to about 100 annually in the late 1990s (Eckler, 2001).

Although herd reduction can be controversial, common sense and expert opinion agree that substantial and continued herd reductions will reduce DVCs (Danielson and Hubbard 1998; DVCR Working Group, 2000). But many questions remain, including the effectiveness of herd reductions over a large area on DVCs, the amount of herd reduction necessary to reduce DVCs substantially, how deer range and migration patterns influence the effect of herd reductions on DVCs, and how to design costeffective herd reduction programs (Brown et al., 2000). Wisconsin and other states are pursuing aggressive deer herd reduction programs (DVCR Working Group, 2000). Data from these programs may help address these questions.

SUMMARY AND CONCLUSIONS

Effective Methods with Solid Scientific Evidence

Fencing, combined with underpasses and overpasses as appropriate, is the only broadly accepted method that is theoretically sound and proven to be effective. Fencing is expensive to construct and maintain, and even the best fencing will not prevent all deer from entering a roadway.

Promising Methods Where More Information Is Needed

Herd reduction is unquestionably effective in reducing DVCs if the deer population in a specific area is reduced by a substantial amount. More research is needed on the minimum area needed for herd reduction to have a substantial effect and on the expected impact of a given amount of herd reduction on DVCs. A herd reduction strategy should be part of an overall wildlife management program that balances the costs and benefits of maintaining wildlife populations.

Roadside clearing may be effective, although there is very limited information supporting it. Roadside clearing must be part of a broader strategy of roadway design and maintenance.

Both temporary passive signs and active signs appear promising in specific situations, but considerable research is required to evaluate long-term driver response and to improve and test deer detection technology for active signs.

At-grade crossings for deer, perhaps combined with active signs, offer a long-shot chance at providing greater safety than uncontrolled crossings marked only with passive signs. At-grade crossings are most promising for highways crossing mule deer migration routes in western states.

Infrared driver vision technology in vehicles may be effective in the future. Its development and implementation will depend on its usefulness in improving driver night vision overall, not on its effect on DVCs.

Methods With Limited Demonstrated Effectiveness

Although reflectors have been studied fairly often, most studies were not designed or conducted well. The balance of the available evidence is that reflectors have little long-term effect, especially for white-tailed deer in suburban areas. Additional high-quality studies would be useful to investigate deer response and habituation to light beams and the effectiveness of reflectors when implemented.

Roadside lighting and intercept feeding may have limited effectiveness in specialized situations. Both methods are costly and have side effects that must be considered carefully.

Deer repellents can have limited effectiveness in modifying deer feeding and movement patterns. It is unlikely that repellents will be useful in roadway applications.

Methods that Appear Ineffective Based on Available Evidence

General education, passive signs, and lower speed limits appear ineffective in influencing driver behavior and reducing DVCs. The lack of good studies proving their ineffectiveness probably results from the unwillingness of funding organizations to allocate resources to study methods that are so unpromising.

Ineffective Methods with Evidence from Controlled or Experimental Situations

Deer whistles and deer flagging signs are not effective.

DISCUSSION AND RECOMMENDATIONS

Previous reviews of DVC control methods (Reed et al., 1979; Bruinderink and Hazebroek, 1996; Putman, 1997; Danielson and Hubbard, 1998; Staines et al., 2001) reached conclusions similar to ours, as did a review of moose-vehicle crashes in Sweden (Lavsund and Sandegren, 1991). There is no quick, cheap method to reduce DVCs. Fencing and herd reduction programs can be effective if they are designed and maintained well, but they are neither cheap nor quick.

DVC control must be part of an overall environmental strategy that balances the competing needs of humans and wildlife. For example, there is a trend in suburban areas to preserve or create green space and wildlife corridors (Houck, 1990). These areas must be carefully planned and coordinated by transportation, natural resource, and urban planning agencies to avoid attracting more deer and increasing DVCs.

Data Collection and Reporting

States should identify crashes involving deer on their state crash report forms and crash data files rather than aggregating crashes involving all animals. Without this, it is difficult to track DVC totals, trends, and patterns. States also should record precise DVC locations, as Maine does (Maine Department of Transportation, 2002), using GIS or other methods, to identify areas with high DVC frequencies. This

information is critical in deciding where fencing, herd reduction, active signs, or other DVC control methods are needed.

Research

Research is needed in the following areas.

- *Herd reduction:* minimum geographic area needed to be effective, effect of different amounts of herd reduction on DVCs in various settings
- Active signs: improved deer detection technology, long-term driver response
- Temporary passive signs and at-grade crossings: additional field trials under varying circumstances
- Reflectors: deer response and habituation, effect of reflector systems as implemented
- Intensive general education: effects of intensive driver awareness programs for DVCs in targeted communities
- Integrated DVC program: effects of coordinated program including signs, roadside clearing, and general education in specific high DVC locations
- Data: multi-state survey of DVC reporting to police, insurance companies, and wildlife agencies

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REFERENCES

Allen, R.E. and McCullough, D.R. 1976. Deer-car accidents in southern Michigan. Journal of Wildlife Management 40:317-25.

Beaupré, V.G. 2002. Pilot project to deter wildlife-vehicle collisions. Press release. Regina, Saskatchewan: Saskatchewan Department of Highways and Transportation. Available: http://www.gov.sk.ca/newsrel/releases/2002/05/09-326.html.

Bellis, E.D. and Graves, H.B. 1978. Highway fences as deterrents to vehicle-deer collisions. *Transportation Research Record* 674:53-58. Washington, DC: Transportation Research Board.

Bendix. 2002. Bendix begins sale of XVision[™] infrared nighttime vision system. Press release. Elyria, OH. Available: http://www.bendix.com/products/XVisionPR.shtml.

Bertwistle, J. 1999. The effects of reduced speed zones on reducing bighorn sheep and elk collisions with vehicles on the Yellowhead Highway in Jasper National Park. *Proceedings of the 1999 International Conference on Wildlife Ecology and Transportation*. Tallahassee, FL: Florida Department of Transportation.

Bomford, M. and O'Brien, P.H. 1990. Sonic deterrents in animal damage control: a review of device tests and effectiveness. *Wildlife Society Bulletin* 18:411-22.

Brown, T.L.; Decker, D.J.; Riley, S.J.; Enck, J.W.; Lauber, T.B.; Curtis, P.C. and Mattfeld, G.F. 2000. The future of hunting as a mechanism to control white-tailed deer populations. *Wildlife Society Bulletin* 28:797-807.

Bruinderink, G.W.T.A. and Hazebroek, E. 1996. Ungulate traffic collisions in Europe. *Conservation Biology* 10:1059-67.

Cline, B.C. 1989. The State of Michigan's Car-Deer Whistle Research Project. Lansing, MI: Michigan Department of Management and Budget.

Conover, M.R. 1997. Wildlife management by metropolitan residents in the United States: practices, perceptions, costs, and values. *Wildlife Society Bulletin* 25:306-11.

Conover, M.R.; Pitt, W.C.; Kessler, K.K.; DuBow, T.J. and Sanborn, W.A. 1995. Review of human injuries, illnesses, and economic losses caused by wildlife in the United States. *Wildlife Society Bulletin* 23:407-14.

Curtis, P.D.; Fargione, M.J. and Richmond, M.E. 1994. Preventing deer damage with barrier, electrical, and behavioral fencing systems. *Proceedings of the 16th Vertebrate Pest Conference* (eds. W.S. Halverson and A.C. Crabb), 16:223-227. Davis, CA: University of California, Davis

Danielson, B.J. and Hubbard, M.W. 1998. A literature review for assessing the status of current methods of reducing deer-vehicle collisions. Ames, IA: Iowa Department of Transportation and Iowa Department of Natural Resources.

Decker, D.J.; Loconti Lee, K.M. and Connelly, N.A. 1990. Deer-related vehicular accidents in Tompkins County, New York: incidence, costs, and implications for deer management *Transactions of the Northeast Section of the Wildlife Society* 47:21-26.

DeerCrash. 2003. Countermeasures toolbox. Madison, WI: University of Wisconsin, Madison, Deer-Vehicle Crash Information Clearinghouse. Available: http://www.deercrash.com/toolbox/index.htm.

DeNicola, A.J.; VerCauteren, K.C.; Curtis, P.D. and Hyngstrom, S.C. 2000. *Managing White-Tailed Deer in Suburban Environments: A Technical Guide*. Ithaca, NY: Cornell Cooperative Extension.

DVCR Working Group. 2000. Final Report: Deer Vehicle Collision Reduction Working Group Conference. Madison, WI: Sand County Foundation.

Eckler, J. 2001. Irondequoit Live Deer Spotliight Survey, Fall 2000. Albany NY: New York State Department of Environmental Conservation.

El Hani, A. and Conover, M.R. 1995. Comparative analysis of deer repellents. *Repellents in Wildlife Management Symposium Proceedings*. Fort Collins, CO: National Wildlife Research Center, Animal and Plant Health Inspection Service.

Falk, N.W.; Graves, H.B. and Bellis, E.D. 1978. Highway right-of-way fences as deer deterrents. Journal of Wildlife Management 42:646-50.

Feldhamer, G.A.; Gates, J.E.; Harman, D.M.; Loranger, A.J. and Dison, K.R. 1986. Effects of interstate highway fencing on white-tailed deer activity. *Journal of Wildlife Management* 50:497-503.

Finder, R.A.; Roseberry, J.L. and Woolf, A. 1999. Site and landscape conditions at white-tailed deer/vehicle collision locations in Illinois. *Landscape and Urban Planning* 44:77-85.

Foster, M.L. and Humphrey, S.R. 1995. Use of highway underpasses by Florida panthers and other wildlife. *Wildlife Society Bulletin* 23:95-100.

General Motors. 2000. DeVille becomes first car to offer safety benefits of night vision. Detroit, MI. Available: http://www.gm.com/company/gmability/safety/crash_avoidance/newfeatures/night_vision.html.

Gilbert, J.R. 1982. Evaluation of deer mirrors for reducing deer-vehicle collisions. Report no. FHWA-RD-82-061. Washington, DC: Federal Highway Administration.

Gordon, K.M.; Anderson, S.H.; Gribble, B. and Johnson, M. 2001. Evaluation of the FLASH (Flashing Light Animal Sensing Host) system in Nugget Canyon, Wyoming. Report no. FHWA-WY-01/03F. Laramie, WY: University of Wyoming.

Graves, H.B. and Bellis, D.E. 1978. The effectiveness of deer flagging models as deterrents to deer entering highway rights-of-way. Report no. FHWA-PA-78-12. Washington, DC: Federal Highway Administration.

Hartmann, M. 2003. Evaluation of wildlife crossing structures: their use and effectiveness. Missoula, MT: Wildlands Center for Preventing Roads. Available: http://www.wildlandscpr.org/resourcelibrary/reports/ EvaluationByMaureenHartmann.htm.

Houck, M.C. 1990. Metropolitan wildlife refuge system: a strategy for regional natural resource planning. *Wildlife Conservation in Metropolitan Environments* (eds. L.W. Adams and D.L. Leedy), 225-29. Columbia, MD: National Institute for Urban Wildlife.

Highway Safety Information System. 1995. Investigation of crashes with animals. Report no FHWA-RD-94-156. Washington, DC: Federal Highway Administration.

Hubbard, M.W.; Danielson, B.J. and Schmitz, R.A. 2000. Factors influencing the location of deer-vehicle accidents in Iowa. *Journal of Wildlife Management* 64:707-13.

Jaren, V.; Andersen, R.; Ulleberg, M.; Pedersen, P.H. and Wiseth, B. 1991. Moose-train collisions: the effects of vegetation removal with a cost-benefit analysis. *Alces* 27:93-99.

Jordan, D.M. Jr. and Richmond, M.E. 1992. Effectiveness of a vertical 3-wire electrical fence modified with attractants or repellents as a deer exclosure. *Proceedings of the Fifth Eastern Wildlife Damage Control Conference*, 44-47.

Knapp, K. 2001. Midwest deer-vehicle crash facts. Madison, WI: University of Wisconsin, Madison, Deer-Vehicle Crash Information Clearinghouse.

Knox, W.M. 1997. Historical changes in the abundance and distribution of deer in Virginia. *The Science of Overabundance* (eds. W.J. McShea, H.B. Underwood, and J.H. Rappole). Washington, DC: Smithsonian Institution Press.

Kuser, J. 1995. Deer and people in Princeton, New Jersey, 1971-1993. Urban Deer: A Manageable Resource? Proceedings of the 1993 Symposium of the North Central Section, the Wildlife Society (ed. J.B. McAninch), 47-50.

Lavsund, S. and Sandegren, F. 1991. Moose-vehicle relations in Sweden: a review. Alces 27:118-26.

Lehnert, M.E. and Bissonette, J.A. 1997. Effectiveness of highway crosswalk structures at reducing deervehicle collisions. *Wildlife Society Bulletin* 25:809-18.

Ludwig, J. and Bremicker, T. 1983. Evaluation of 2.4m fences and one-way gates for reducing deervehicle collisions in Minnesota. *Transportation Research Record* 913:19-22. Washington, DC: Transportation Research Board.

Maine Department of Transportation. 2002. Maine deer crashes, 1999-2001. Augusta ME: Maine Department of Transportation.

McCabe. T.R. and McCabe, R.D. 1997. Recounting whitetails past. *The Science of Overabundance* (eds. W.J. McShea, H.B. Underwood, and J.H. Rappole). Washington, DC: Smithsonian Institution Press.

Messmer, T.A.; Hendricks, C.W. and Klimack, P.W. 2000. Modifying human behavior to reduce wildlifevehicle collisions using temporary signage. *Wildlife and Highways: Seeking Solutions to an Ecological and Socio-Economic Dilemma* – Seventh Annual Meeting of the Wildlife Society, 134-47.

Olbrich, P. 1984. Untersuchung der Wirksamkeit von Woldwarnreflektoren und der Eignung von Wilddurchlassen. Zeitschrift für Jagdwissenschaft 30:101-16.

O'Neill, B. 2001. Seat belt use: where we've been, where we are, and what's next. 2001 Seat Belt Summit: Policy Options for Increasing Seat Belt Use in the United States in 2001 and Beyond, Appendix A. Arlington, VA: Automotive Coalition for Traffic Safety.

Pafko, F. and Kovach, B. 1996. Minnesota experience with deer reflectors. Proceedings of Transportation and Wildlife: Reducing Wildlife Mortality and Improving Wildlife Passageways Across Transportation Corridors, 116-124. Tallahassee, FL: Florida Department of Transportation.

Pojar, T.M.; Reed, D.F.; Reseigh, T.C. and Woodard, T.N. 1975. Effectiveness of a lighted, animated deer crossing sign. *Journal of Wildlife Management* 39:87-91.

Puglisi, M.J.; Lindzey, J.S. and Bellis, E.D. 1974. Factors associated with highway mortality of whitetailed deer. *Journal of Wildlife Management* 38:799-807.

Putman, R.J. 1997. Deer and road traffic accidents: options for management. Journal of Environmental Management 51:43-57.

Reed, D.F. 1981. Mule deer behavior at a highway underpass exit. Journal of Wildlife Management 45:542-43.

Reed, D.F.; Beck, T.D. and Woodard, T.N. 1982. Methods of reducing deer-vehicle accidents: benefitcost analysis. *Wildlife Society Bulletin* 10:349-54.

Reed, D.F.; Pojar, T.M. and Woodard, T.N. 1974. Use of one-way gates by mule deer. Journal of Wildlife Management 38:9-15.

Reed, D.F. and Woodard, T.N. 1981. Effectiveness of highway lighting in reducing deer-vehicle collisions. *Journal of Wildlife Management* 45:721-26.

Reed, D.F.; Woodard, T.N. and Beck, T.D.I. 1979. Regional deer-vehicle accident research. Report no. FHWA-CO-RD-79-11. Denver, CO: Colorado Division of Wildlife.

Reed, D.F.; Woodard, T.N. and Pojar, T.M. 1975. Behavioral response of mule deer to a highway underpass. *Journal of Wildlife Management* 39:361-67.

Reeve, A.F. and Anderson, S.H. 1993. Ineffectiveness of Swareflex reflectors at reducing deer-vehicle collisions. *Wildlife Society Bulletin* 21:127-32.

Romin, L.A. and Bissonette, J.A. 1997. Deer-vehicle collisions: status of state monitoring activities and mitigation efforts. *Wildlife Society Bulletin* 24:276-83.

Romin, L.A. and Dalton, L.B. 1992. Lack of response by mule deer to wildlife warning whistles. *Wildlife Society Bulletin* 20:382-84.

Schafer, J.A. and Penland, S.T. 1985. Effectiveness of Swareflex reflectors in reducing deer-vehicle accidents. *Journal of Wildlife Management* 49:774-76.

Singer, F.J. and Doherty, J.L. 1985. Managing mountain goats at a highway crossing. *Wildlife Society Bulletin* 13:469-77.

Staines, B.; Langbein, J. and Putman, R. 2001. Road traffic accidents and deer in Scotland. Aberdeen, UK: University of Aberdeen.

Stout, R.J.; Stedman, R.C.; Decker, D.J. and Knuth, A.B. 1993. Perception of risk from deer-related vehicle accidents: implications for public preferences for deer herd size. *Wildlife Society Bulletin* 21: 237-49.

Sullivan, T.L. and Messmer, T.A. 2003. Perceptions of deer-vehicle collision management by state wildlife agency and department of transportation administrators. *Wildlife Society Bulletin* 31:163-73.

Sullivan, T.L.; Williams, A.F.; Messmer, T.A.; Nelson, L.A. and Kyrychenko, S.Y. 2003. Effectiveness of temporary warning signs in reducing deer-vehicle collisions during mule deer migrations (preprint). Arlington, VA: Insurance Institute for Highway Safety.

Transportation Research Board. 1998. Managing speed: review of current practice for setting and enforcing speed limits. Special Report 254. Washington, DC: Transportation Research Board.

Ujvari, M.; Baagoe, H.J. and Madsen, A.B. 1998. Effectiveness of wildlife warning reflectors in reducing deer-vehicle collisions: a behavioral study. *Journal of Wildlife Management* 62:1094-99.

Ward, A.L. 1982. Mule deer behavior in relation to fencing and underpasses on Interstate 80 in Wyoming. *Transportation Research Record* 859:8-13. Washington, DC: Transportation Research Board.

Williams, A.F. 1994. The contribution of education and public information to reducing alcohol-impaired driving. *Alcohol, Drugs, and Driving* 10:197-205.

Williams, A.F. 2003a. Motor vehicle/animal collisions. Internal memorandum. Arlington, VA: Insurance Institute for Highway Safety.

Williams, A.F. 2003b. Personal communication.

Wood, P. and Wolfe, M.L. 1988. Intercept feeding as a means of reducing deer-vehicle collisions. *Wildlife Society Bulletin* 16:376-80.

Zacks, J.L. 1986. Do white-tailed deer avoid red? An evaluation of the premise underlying the design of Swareflex wildlife reflectors. *Transportation Research Record* 1075:35-43. Washington, DC: Transportation Research Board.

Appendix B.4

Roadside Clearing Crash Modification Factor

- Wild Animal Crash Data on US-20 From MP 369 to 375.5
 Between 7/1/2000 and 3/9/2013
 - Photographs of US-20 Before, During, and After the Tree Clearing Project During July 2010

Wild Animal Related Crashes on US-20 from MP 369 to 375.5 from 7/14/2000 to 8/11/2012

Total Crashes 38

Fatalities 0

Injuries 7

| 38 | 37 | 36 | 35 | 34 | 33 | 32 | 31 | 30 | 29 | 28 | + | ╀ | ┢ | ╎ | ╋ | ╈ | ╉ | 22 | ╉ | -+ | + | - | | + | - | + | + | ┽ | + | ╉ | - | ╉ | + | ╉ | -+ | + | 2 36 | 1 36 | # M |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|------------------------|---------------------|-------------------|----------------------|------------------------|------------------------|------------------------|------------------------|---------------------------|------------------------|-------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|----------------------|----------------------|------------------------|----------------------|----------------------|------------------------|------------------------|---------------------|------------------------|----------------------|-------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|---------------------|
| 375.011 | 375.000 | 375.000 | 375.000 | 375.000 | 374.800 | 374.037 | 374.000 | 374.000 | 374.000 | 374.000 | 373.900 | - | + | + | +- | ╀ | _ | 372.002 | ╇ | -+ | - | - | _ | 371.132 | -+ | _ | 371.000 | 370 998 | 370.500 | -+ | _ | | -+ | -+ | _ | _ | - | _ | Milepost |
| Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Tractor - 1 Trailer | Motor Home | Pickup/Van/Panel/SUV | Motor Home | Car | Car | Pickup/Van/Panel/SUV | Car | Pickup/van/Panel/suv | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | PICKUP/ Vall/ Fallel/ SOV | Pickup/vaii/Paiiei/30v | Pickup/ Vari/Fariel/30V | hickup/varijtanci/suv | Dickup/van/Danel/SUV | Pickun/Van/Panel/SUV | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Car | Tractor - 1 Trailer | Pickup/Van/Panel/SUV | Tractor - 1 Trailer | Car | Tractor - 1 Trailer | Tractor - 1 Trailer | Pickup/Van/Panel/SUV | Motorcycle | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Car | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Vehicle Type |
| Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Coing Straight | Going Straight | Coing Straight | Consocasht | Going Straight | Coing Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Driver Action |
| Descending | Ascending | Ascending | Ascending | Descending | Ascending | Ascending | Ascending | Ascending | Ascending | Descending | Decrending | Ascending | Accending | Deconding | Ascending | Descending | Ascending | Descending | Ascending | Ascending | Descending | Descending | Descending | Descending | Ascending | Descending | Descending | Descending | Ascending | Descending | Ascending | Ascending | Ascending | Descending | Ascending | Descending | Descending | Ascending | Lane Direction |
| Animal - Wild | Animai - wild | Animai - Wild | Animai - Wild | Allitudi - vvild | Animal - Wild | Animal Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animai - Wild | Animal - Wild | Event 1 |
| Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjulicuon | Nonjunction | Noniunction | Nonjunction | Noniunction | Noniunction | Noniunction | Noniunction | Noniunction | Noniunction | Noniunction | Noniunction | Nonjunction | Nonjunction | Nanjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Intersection |
| On Roadway | Un Roadway | Un Roadway | Un Roadway | On Roadway | On Boodway | On Boodway | On Roadway | On Roadway | On Roadway | On Roadway | On Roadway | On Roadway | On Roadway | On Roadwav | On Roadway | On Roadway | On Roadway | On Roadway | On Roadway | On Roadway | On Roadway | On Roadway | On Roadway | On Roadway | On Roadway | On Roadway | On Roadway | On Roadway | On Roadway | On Roadway | On Roadway | On Roadway | On Roadway | On Roadway | On Roadway | On Roadway | On Roadway | On Roadway | Roadway |
| Clear | Clear | Katn | Clear | | Clear | Cloudy | Clear | Cloudy | Clear | Snow | Clear | Clear | Clear | Clear | Cloudy | Clear | Clear | Clear | Clear | Snow | Clear | Clear | Rain | Clear | Clear | Clear | Clear | Clear | Cloudy | Snow | Clear | Clear | Clear | Clear | Cloudy | Clear | Clear | Clear | weather |
| YIU | Wet | Wet | Wo+ | | | חיי | Drv | Drv | Drv | lce | Ργ | Dry | Dry | Dη | lce | Dry | Dry | Dry | Dry | lce | Dry | Dry | Wet | PV | Dry | Dry | Dry | Dry | Dry | Snow | Dry | Dry | Dry | Dry | DIV | Dry | + | + | ň |
| Dain, no street abits | Dark No Street Lights | Dav | Dark. No Street Lights | Dav | | Day | Dark, No Street Lights | Day | Dark, No Street Lights | Dark, No Street Lights | Dark, No Street Lights | Day | Dark, No Street Lights | Dark, No Street Lights | Dark, No Street Lights | Day | Uay | Dark, No Street Lights | Dawn or Dusk | Dawn or Dusk | Dark, No Street Lights | Dark, No Street Lights | Dawn or Dusk | Dark, No Street Lights | Day | Day | Dark, No Street Lights | Day | Dark, No Street Lights | - |
| | 9/7/2004 | 10/22/2004 | 10/10/2004 | 6/16/2003 | 8/14/2005 | 9/1/2008 | 8/29/2001 | 6/8/2009 | 8/7/2002 | 12/30/2005 | 10/25/2000 | 8/20/2001 | 10/16/2002 | 6/19/2006 | 11/18/2002 | 9/5/2001 | 8/31/2002 | 7/12/2004 | 8/18/2009 | 11/13/2010 | 1/3/2002 | 6007 /8/0T | +002/01/01 | 6002/CT/8 | 6/29/2003 | 6/22/2003 | 8/23/2005 | 6/15/2008 | 5/18/2008 | 11/21/2003 | 9/3/2000 | 8/30/2003 | ┢ | + | ľ | + | ╉ | _ | - 1 |
| | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | B Injury Accident | B Injury Accident | Property Dmg Report | Property Dmg Report | C Injury Accident | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Umg Report | | Clearner Accident | Property Ome Report | Property Dring Report | Property Jing Report | B INJURY ACCIDENC | Property Dmg Report | Property Umg Report | Property Dmg Report | Property Dmg Kepon | Property Dmg Report | A Injury Accident | Property Umg Keport | Property Unig Report | Property Ding Report | Property Ding Report | Cilijaly Accident | Claims Accident | Droppety Dmg Report |





Appendix B.5

Wild Animal Crashes on US-95 in District 2

Between January 1, 2003 and December 31, 2012

| 42 | 41 | 40 | 6 E | 38 | 37 | 36 | 35 | 34 | 33 | 32 | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | ω | 2 | 1 | Accident # | |
|----------------------|------------------------|---------------------|------------------------|----------------------|------------------------|---------------------|---------------------|----------------------|------------------------|------------------------|----------------------|----------------------|---------------------|------------------------|---------------------|------------------------|------------------------|----------------------|---------------------|------------------------|------------------------|------------------------|----------------------|------------------------|---------------------|----------------------|---------------------|------------------------|------------------------|---------------------|------------------------|------------------------|---------------------|------------------------|------------------------|---------------------|------------------------|------------------------|------------------------|---------------------|------------------------|-------------------------|----------------------|
| 218.590 | 218.400 | 218.300 | 218.100 | 217.000 | 216.700 | 216.500 | 215.900 | 215.800 | 215.700 | 215.000 | 214.009 | 213.200 | 210.100 | 210.049 | 209.600 | 208.600 | 208.100 | 204.800 | 204.500 | 203.012 | 202.300 | 199.019 | 195.003 | 194.129 | 193.500 | 192.200 | 192.018 | 192.000 | 191.000 | 190.900 | 190.500 | 189.300 | 188.426 | 187.500 | 187.000 | 186.500 | 185.600 | 185.000 | 183.601 | 183.500 | 182.700 | Milepost | |
| Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | SUV/Crossover | SUV/Crossover | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | SUV/Crossover | SUV/Crossover | Pickup/Van/Panel/SUV | Truck - 2 Axle/6 Tires | Car | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | SUV/Crossover | Pickup | Car | Pickup/Van/Panel/SUV | SUV/Crossover | Pickup/Van/Panel/SUV | SUV/Crossover | Car | Pickup/Van/Panel/SUV | Pickup | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Car | Pickup/Van/Panel/SUV | Car | Car | Tractor - 1 Trailer | Car | Car | Car | Car | Pickup | Pickup/Van/Panel/SUV | Tractor - 1 Trailer | Car | Car | Car | Van - 1 to 8 seats | Pickup/Van/Panel/SUV | Vehicle Type | |
| Going Straight | Going Straight | Negotiating Curve | Going Straight | Going Straight | Going Straight | Turning Left | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Negotiating Curve | Going Straight | Avoiding Obstacle | Negotiating Curve | Going Straight | Going Straight | Negotiating Curve | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Negotiating Curve | Going Straight | Negotiating Curve | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Negotiating Curve | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Negotiating Curve | Going Straight | Driver Action | |
| Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Event | Most Harmful |
| Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | _ | Intersection | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Junction | Event Relation to |
| Clear | Cloudy | Clear | Clear | Clear | Cloudy | Clear | Clear | Cloudy | Rain | Cloudy | Clear | Clear | Clear | Clear | Clear | Clear | Cloudy | Cloudy | Cloudy | Clear | Clear | Clear | Clear | Cloudy | Clear | Clear | Clear | Clear | Cloudy | Clear | Clear | Clear | Clear | Clear | Cloudy | Cloudy | Claudy | Clear | Cloudy | Cloudy | Cloudy | Weather | |
| Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Wet | Wet | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Wet | Dry | Dry | Dry | Dry | Dry | Dry | Dry | DIV | Dry | Dry | Dry | Dry | Dry | Wet | Dry | Ice | Dry | Wet | Dry | Dry | Dry | Dry | Surface | |
| Day | Dark, No Street Lights | Day | Dark, No Street Lights | Day | Dark, No Street Lights | Day | Day | Day | Dawn or Dusk | Dark, No Street Lights | Day | Day | Dawn or Dusk | Dark, No Street Lights | Day | Dark, No Street Lights | Dark, No Street Lights | Dawn or Dusk | Day | Dark, No Street Lights | Dark, No Street Lights | Dark, No Street Lights | Day | Dark, Street Lights On | Dawn or Dusk | Dawn or Dusk | Day | Dark, No Street Lights | Dark, No Street Lights | Dawn or Dusk | Dark, No Street Lights | Dark, No Street Lights | Dawn or Dusk | Dark, No Street Lights | Dark, No Street Lights | Day | Dark, No Street Lights | Dark, No Street Lights | Dark, No Street Lights | Day | Dark, No Street Lights | Light | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Fatalities | |
| 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | | | 0 | 0 | 0 | | 0 | | | 0 | | | 0 | 0 | | 0 | 0 | 0 | 0 | | | | 0 | | 0 | | | | | | | | Fatalities Injuries Day | |
| 0 Saturday | 0 Friday | 0 Friday | 0 Friday | 0 Tuesday | 0 Thursday | 0 Saturday | 0 Friday | 0 Monday | 0 Thursday | 0 Thursday | 0 Tuesday | 0 Sunday | 0 Saturday | 0 Wednesday | 0 Saturday | 0 Saturday | 0 Monday | 0 Sunday | 0 Monday | 0 Friday | 0 Sunday | 0 Monday | 0 Friday | 0 Monday | 0 Sunday | 0 Saturday | 0 Monday | 0 Tuesday | 0 Wednesday | 0 Friday | 0 Friday | 0 Friday | 0 Sunday | 0 Friday | 0 Tuesday | 0 Saturday | 0 Sunday | 0 Monday | 0 Sunday | 0 Saturday | 0 Monday | Day | |
| 8/30/2003 | 9/16/2005 | 7/13/2012 | 7/27/2012 | 6/12/2007 | 5/1/2003 | 7/21/2012 | 8/17/2012 | 2/3/2003 | 4/26/2012 | 9/2/2004 | 10/2/2007 | 8/8/2004 | 10/6/2012 | 1/4/2012 | 6/25/2011 | 3/13/2004 | 4/23/2012 | 9/21/2008 | 1/17/2011 | 11/23/2012 | 7/20/2008 | 8/13/2012 | 8/26/2005 | 2/1/2010 | 4/26/2009 | 8/14/2004 | 5/24/2010 | 10/21/2008 | 11/16/2005 | 5/18/2012 | 12/24/2010 | 12/29/2006 | 11/28/2010 | 12/16/2011 | 12/23/2008 | 1/14/2012 | 12/23/2007 | 2/18/2008 | 2/10/2008 | 7/16/2011 | 2/16/2009 | តី | |
| Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Severity | • • |

Wild Animal Crashes on US-95 in District 2 between 1/1/2003 and 12/32/2012

Total Crashes: 476 Total Fatalities: 0 Total Injuries: 58

| Γ | | | | | | | | _ | | | Π | | | | | | Ţ | Τ | Τ | | | T | | | | T | | | | | | | | | | | | T | | | | | | | | Ţ | | |
|-------------------|------------------------|---------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|---------------------|------------------------|------------------------|------------------------|------------------------|------------------------|---------------------|------------------------|------------------------|------------------------|------------------------|---------------------|---------------------|------------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|---------------------|----------------------|------------------------|------------------------|---------------------|---------------------|----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|----------------------|----------------------|
| 91 | 90 | 89 | 88 | 87 | 3 8 | 85 | 84 | 83 | 82 | 81 | 80 | 79 | 78 | 17 | 76 | 75 | 74 | 73 | 72 | 71 | 8 | 69 | 8 | 67 | 66 | ទ | 2 | ខ | 62 | 61 | 8 | ទ | 20 | 3 2 | ۲ (S | 14 | 5 2 | 3 | 3 | 51 | 2 | 49 | 48 | 47 | 8 | \$ 1 | Bt | 23 |
| 271.000 | 270.300 | 269.758 | 269.732 | 269.732 | 269.700 | 268.800 | 268.600 | 268.500 | 267.500 | 266.400 | 260.180 | 260.040 | 259.000 | 257.912 | 256.600 | 256.300 | 254.400 | 250.100 | 248.000 | 247.034 | 240.700 | 239.250 | 239.000 | 238.943 | 237.800 | 236,400 | 236.082 | 235.900 | 234.700 | 234.438 | 234.100 | 234.000 | 233.700 | 232.000 | 224.000 | 000 112 | 222. JUU | 2001 200 | 221 962 | 221.924 | 221.900 | 221.800 | 221.400 | 221.005 | 220.700 | 219.600 | 219 500 | 219 000 |
| Car | Car | Car | Pickup/Van/Panel/SUV | Car | Car | Car | SUV/Crossover | Car | SUV/Crossover | Pickup/Van/Panel/SUV | Car | Car | Car | Pickup/Van/Panel/SUV | Pickup | Pickup/Van/Panel/SUV | SUV/Crossover | Car | Car | Pickup | SUV/Crossover | Pickup/Van/Panel/SUV | Car | Car | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Car | SUV/Crossover | Car | Pickup/Van/Panel/SUV | Van - 1 to 8 seats | Tractor - 1 Trailer | Pickup | Car | Pirkun/Van/Panel/SUV | | Dickin (Van /Panel/SHV | | SUV/Crossover | Pickup/Van/Panel/SUV | Car | Pickup | Car | Pickup/Van/Panel/SUV | Car | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV |
| Negotiating Curve | Going Straight | Going Straight | Going Straight | Going Straight | Negotiating Curve | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Negotiating Curve | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Negotiating Curve | Going Straight | Going Straight | Going Straight | | | INe | | Going Straight |
| Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wiłd | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animai - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild |
| Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | | | | | | | | Nonjunction | Nonjunction | | | Nonjunction | | | Nonjunction |
| Clear | Cloudy | Clear | Cloudy | Cloudy | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Cloudy | Clear | Clear | Clear | Clear | Cloudy | Cloudy | Clear | Clear | Clear | Clear | Cloudy | Clear | Clear | Clear , | Cloudy | Clear | Rain | Clear | Cloudy | Clear | Clear | Clear | Clear | Clear | Clear | Cloudy | Clear |
| yul | Dry | Dry | Dry | Dry | Dry | Dry | Dry | UN Y | P UN | Y | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Wet | Dry | Drv | Dry | ק | Dry | Wet | Dry | Dry | Dry | Dry | Dry | Dry | Wet | Dry | Wet | Dry |
| Uay | Dark, No Street Lights | Day | Dark, No Street Lights | Dawn or Dusk | Dark, No Street Lights | Dark, No Street Lights | Dark, Street Lights Un | Dark, No Street Lights | Dark, No Street Lights | Day | Dark, No Street Lights | Dawn or Dusk | Day | Dark, No Street Lights | Dawn or Dusk | Dark, No Street Lights | Day | Day | Dark, No Street Lights | Dark, No Street Lights | Dav | Dawn or Dusk | Dawn or Dusk | Dark, No Street Lights | Dark, No Street Lights | Dark, No Street Lights | Day | Dark, No Street Lights | Dark, No Street Lights | Dawn or Dusk | Dawn or Dusk |
| | | | | | | 0 | 0 | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| UFFICAY | Saturday | Sunday | 1 hursday | 0 Saturday | U Friday | UFriday | 0 Saturday | | O cridav | Orillay | 0 Saturday | | 0 Inursday | 0 Friday | 0 Friday | 0 Tuesday | 0 Friday | 0 Wednesday | 0 Wednesday | 0 Thursday | 0 Saturday | 0 Wednesday | 0 Sunday | 0 Wednesday | | 0 Monday | 0 Sunday | 0 Saturday | 0 Monday | Jay | 0 Friday | 0 Sunday | | 0 Thursday | < | 0 Sunday | 0 Saturday | 0 Saturday | Tuesday | Monday | Friday | 0 Thursday | Thursday | 0 Monday | Wednesday | | × | 0 Sunday |
| 0/07/27/C | 9/18/2004 | / 12/2007 | 4/19/2007 | 3/24/2007 | 8007/81// | 2/10/2022 | 3/3/2012 | CO07 15 101 | 71/2/01/1/ | +002/0C/# | 5007/5/6 | 5007 /8/0 | 6002/2/1 | 7/9/2010 | 7/15/2011 | 9/27/2005 | 8/12/2011 | 10/3/2012 | 7/18/2007 | 7/12/2012 | 7/16/2011 | 9/10/2003 | 7/22/2007 | 10/20/2010 | 9/3/2007 | 9/6/2004 | 10/31/2010 | 9/1/2012 | 8/27/2007 | 5/14/2008 | 9/7/2012 | 7/18/2004 | 11/15/2012 | 5/12/2005 | 8/14/2008 | 10/23/2011 | 7/24/2004 | 5/1/2010 | 8/7/2012 | 6/1/2009 | 5/8/2009 | 7/5/2012 | 12/23/2010 | 6/16/2008 | 12/26/2012 | 8/21/2010 | 6/2/2005 | 10/26/2003 |
| | Property Umg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Ding Report | Property Umg Report | | Property Dmg Report | Property Ding Report | Property Drig Report | Property Dill nepur | Property Dmg Report | Property Umg Report | Property Dmg Report | Property Umg Report | Property Umg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report |

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|------------------------|---------------------|------------------------|---------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|---------------------|----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|---------------------|------------------------|------------------------|---------------------|------------------------|------------------------|------------------------|------------------------|------------------------|----------------------|------------------------|---------------------|------------------------|------------------------|------------------------|------------------------|---------------------|---------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|---------------------|------------------------|------------------------|
| 140 | 139 | 138 | 137 | 136 | 135 | 134 | 133 | 132 | 131 | 130 | 129 | 128 | | 126 | | | 123 | 122 | 121 | | | 118 | | | | | Ì | | | | Ì | | | | | | | | | ĺ | | | ĺ | | | | |
| 296.743 | 296.100 | 295.800 | 295.600 | 295.000 | 294.900 | 294.700 | 294.500 | 294.500 | 294.400 | 294.100 | 293,900 | 293.600 | 293.500 | 293.150 | 293.100 | 292.800 | 292.200 | 292.156 | 292.000 | 291.914 | 291.900 | 291.500 | 291.500 | 290.500 | 289.600 | 289.000 | 289.000 | 288.981 | 288.400 | 288.300 | 287.000 | 285.500 | 285.200 | 283 500 | 279.000 | 066'8'7 | 278.700 | 278.102 | 278.000 | 277.000 | 276.200 | 275.987 | 275,766 | 274.572 | 274.100 | 274.100 | 272.000 |
| Car | Car | Car | Pickup | Car | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | SUV/Crossover | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Car | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Car | Car | Pickup/Van/Panel/SUV | Car | Car | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Pickup | Car | Car | Car | Pickup/Van/Panel/SUV | Car | Pickup/Van/Panel/SUV | Car | Car | Car | Tractor - 1 Trailer | Pickup/Van/Panel/SUV | Pickun/Van/Panel/SUIV | Car | | Pickup/Van/Panel/SUV | Car | Car | Car | Pickup/Van/Panel/SUV | Car | Pickup/Van/Panel/SUV | Car | SUV/Crossover | Car | Car |
| Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Negotiating Curve | Going Straight | Going Straight | Going Straight | Going Straight | Avoiding Obstacle | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Negotiating Curve | Going Straight | Going Straight | Going Straight | Negotiating Curve | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | | Negotiating Curve |
| Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | | | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal Wild | Animal - Wild | | | ┶ | Animal - Wild | Animal - Wild | | | | | Animal - Wild |
| Nonjunction | Ł | Nonjunction | | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | | Nonjunction | Nonjunction | Nonjunction | Nonjunction | _ 1 | Nonjunction | | Nonjunction | | Nonjunction | Nonjunction | Nonjunction | Nonjunction | | | | Noniunction | | | | | | Nonjunction | Nonjunction | | Nonjunction | | | Nonjunction (|
| Clear | Clear | Clear | Cloudy | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Cloudy | Clear | Clear | Cloudy | Fog | Clear | Clear | Cloudy | Cloudy | Rain | Clear | Clear | Cloudy | Clear | Clear | Cloudy | Clear | Clear | Cloudy | Clear | Clear | Clear | Cloudy | Close | Clear | Clear | Clear | Clear | Clear | Cloudy | Clear | Rain | Cloudy | Cloudy | Cloudy |
| Dry | Dry | Dry | VQ VQ | Dry | Dry | Dry | Dη | Dry | Dry | Dry | P7 | DIV | Dry | Dry | Dry | Dry | Wet | Dη | Dη | Dry | Dry | Wet | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry . | | | | | VIO | UN | Dry | Wet | Dry | Wet | Dry | Dry | Dry |
| Dark, No Street Lights | Day | Dark, No Street Lights | | Dark, No Street Lights | Day | Dark, No Street Lights | Day | Dawn or Dusk | Dark, No Street Lights | Dawn or Dusk | Dark, No Street Lights | Dark, No Street Lights | Day | Dark, No Street Lights | Dawn or Dusk | Dark, No Street Lights | Day | Dark, No Street Lights | Dawn or Dusk | Dav | Dark, NO Street Lights | Dark, ND Street Lights | Day | Dark, No Street Lights | Dawn or Dusk | Dark, No Street Lights | Dark, No Street Lights |
| 0 | 0 | 0 | , | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <u> </u> | - | | 5 c | , c | , | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | , 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <u> </u> | 00 | | | | 0 | 0 | 07 | 000 | 10 | 0 1 | 0 |
| OThursday | Tuesday | Tuesday | Sunday | Wednesday | Saturday | Friday | 0 Monday | Tuesday | 0 Sunday | 0 Tuesday | Friday | Saturday | Tuesday | Saturday | Saturday | Wednesday | 1 | 7 | | 0 Wednesday | | 0 Monday | 0 Monday | ļ | Friday | 0 Sunday | 0 Sunday | 0 Friday | 0 Monday | Saturday | Friday | | ' | Thursday | ₹ | | Tuesday | Y | | | | | Monday | | Monday | Tuesday 2 | Monday |
| 7/10/2003 | 7/12/2005 | 10/14/2008 | 10/12/2011 | 3/14/2007 | 6/21/2008 | 2/22/2008 | 1/24/2005 | //27/2004 | 12/11/2011 | 5/02/6/6 | 7/4/2008 | 6/24/2006 | 4/19/2005 | 12/6/2003 | 10/6/2012 | 12/26/2012 | 10/31/2008 | 9/25/2010 | 3/15/2004 | 9/10/2003 | 10/5/2003 | 4/25/2011 | 7/17/2006 | 8/19/2011 | 10/7/2005 | 10/30/2005 | 10/30/2005 | 6/15/2007 | 5/19/2003 | 5/10/2008 | 9/17/2004 | 11/6/2004 | 8/6/2008 | 11/16/2006 | 11/17/2010 | 8/5/2004 | 10/14/2008 | 2102/02/02/02 | 5/31/2003 7/36/2013 | | 10/1/2009 | 10/28/2012 | 7/19/2010 | 5/25/2003 | 11/21/2011 | 10/25/2005 | 7/13/2009 |
| Property Dmg Report | Property Dmg Report | Ргорегту Итд Керогт | Property Umg Report | Property Umg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Umg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dring Report | Property Ding Report | Property Drag Deport | Property Umg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report |

| Π | | | | | | | | | | | | | | | | T | | | | | | | | | ſ | 1 | T | | T | Τ | | | Τ | | | Γ | Γ | | | | | | | Τ | | | |
|------------------------|----------------------|------------------------|-------------------------|------------------------|---------------------|--------------------|---------------------|----------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|---------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|---------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|---------------------|-----------------------|----------------------|------------------------|----------------------|------------------------|----------------------|----------------------|------------------------|------------------------|------------------------|------------------------|
| 189 | 188 | 187 | 186 | 185 | 184 | 183 | 182 | 181 | 180 | 179 | 178 | 177 | 176 | 175 | 174 | 173 | 172 | 171 | 170 | 169 | 168 | 167 | 166 | 165 | 164 | 163 | 162 | 161 | 160 | 159 | 158 | 157 | 156 | 7 5 | 15 | 152 | 151 | 150 | 149 | 148 | 147 | 146 | 145 | 144 | 143 | 142 | 141 |
| 309.400 | 309.100 | 308.999 | 308.976 | 308.900 | 308.800 | 308.700 | 308.700 | 308.700 | 308.680 | 308.600 | 308.600 | 308,500 | 308.400 | 307.549 | 307.500 | 307.300 | 307.100 | 306.800 | 306.700 | 306.500 | 306.000 | 306.000 | 305.800 | 305.800 | 305.800 | 305.300 | 304.900 | 304.900 | 303.900 | 303.700 | 303.500 | 303.300 | 303.100 | 900 505 | 302.800 | 302.800 | 302.700 | 302.600 | 302.500 | 302.300 | 301.800 | 301.000 | 298.600 | 298.100 | 298.039 | 297.400 | 297.100 |
| SUV/Crossover | Pickup/Van/Panel/SUV | Car | Motorcycle | Car | Car | SUV/Crossover | Car | Pickup/Van/Panel/SUV | Car | Pickup/Van/Panel/SUV | Motorcycle | Pickup/Van/Panel/SUV | Car | Van - 1 to 8 seats | Car | Car | Car | Car | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Car | Fickup/Van/Panel/SUV | Car | Pickup/Van/Panel/SUV | Car | Car | Car | Car | Car | Car | Pickup/Van/Panel/SUV | SUV/Crossover | Pickup/Van/Panel/SUV | SI IV/Crossover | Dickin/Van/Danel/SHV | Car | Pickup/Van/Panel/SUV | SUV/Crossover | Car | Pickup | Car | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | SUV/Crossover | Pickup/Van/Panel/SUV | Car | Pickup |
| Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Negotiating Curve | Negotiating Curve | Negotiating Curve | Negotiating Curve | Negotiating Curve | Negotiating Curve | Going Straight | Going Straight | Negotiating Curve | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Negotiating Curve | Negotiating Curve | Going Straight | Going Straight | Going Straight | Negotiating Curve | Negotiating Curve | Negotiating Curve | Going Straight | Going Straight | Going Straight | Negotiating Curve | Going Straight | Negotiating Curve | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight |
| Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animai - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animai - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild |
| Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | | | Noniunction | Noniunction | | | | | | | Nonjunction | Nonjunction | Nonjunction | | | Nonjunction |
| Clear | Clear | Clear | Clear | Clear | Clear | Clear | Cloudy | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Cloudy | Cloudy | Clear | Clear | Clear | Clear | Clear | Clear | Cloudy | Cloudy | Clear | Clear | Cloudy | Clear | Clear | Cloudy | Rain | Cloudy | Clear | Clear | Cloudy | Clear | Cloudy | Clear |
| Dry | Dry | Dry | Dry | Dry | DN | Dry | Wet | Dγ | Dry | νu | P | Dry | DIV | Dry | Dry | Dry | Dry | Dry | Wet | Dry | Dry | Dry | Dry | Snow | Snow | Dry | Dry | Dry | Dry | Dry | Dry | Wet | Dη | ק | Dry | | UN VIV | UN VU | VIU | Wet | Dry | Dry | Dry | Dry | Dry | Wet | Dry |
| Dark, No Street Lights | Day | Dark, No Street Lights | Dark, Street Lights Off | Dark, No Street Lights | Dawn or Dusk | Day | Dawn or Dusk | Day | Dark, No Street Lights | рау | Dark, No Street Lights | Dark, Street Lights On | Dark, No Street Lights | Day | Dark, No Street Lights | Dark, Street Lights On | Dawn or Dusk | Dark, No Street Lights | | Davin or Durk | рау | Dark, No Street Lights | Dawn or Dusk | Dark, No Street Lights | Day | Day | Dark, No Street Lights |
| 0 | 0 | 0 | 0 | | | | 0 | 0 | , c | | , 0 | | 0 | 0 | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <u>,</u> | | , c | <u> </u> | , c | 0 | 0 | | 0 | 0 | 0 | 0 |
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| 0 Wednesday | 0 Saturday | 0 Sunday | OFriday | | U Monday | 0 Monday | Saturday | Ulhursday | Friday | | Wednesday | UFriday | Sunday | Wednesday | Saturday | Thursday | Monday | Tuesday | Monday | 0 Monday | Wednesday | 0 Wednesday | 0 Wednesday | 1 | Tuesday | 0 Saturday | Thursday | Saturday | 0 Wednesday | 0 Tuesday | Saturday | | | | | Thursday | | NOUNDAY | | | | | | | Thursday 9 | Thursday : | Sunday S |
| 5/4/2011 | 8/19/2006 | 2/7/2010 | TT07/5/8 | 2/5/2011 | 6/16/2008 | P/72/2017 | 2/14/2009 | 8007/71/9 | 0102/81/9 | 0T07/17/6 | 9/07/01/5 | 8007/67/8 | 7/13/2003 | 6/13/2012 | 5/13/2006 | 6/11/2009 | 5/5/2008 | 5/11/2010 | 3/6/2006 | 4/21/2003 | 6/2/2004 | 6/11/2003 | 9/22/2010 | 12/23/2008 | 12/23/2008 | 5/19/2012 | 9/1/2011 | 6/5/2004 | 6/8/2005 | 9/28/2010 | 11/24/2007 | 11/24/2012 | 11/14/2004 | 8/4/2012 | 8/7/2005 | 7/26/2012 | 5/8/2008 | 71/77 /1 /01 | CLUC/ 1/UT | 2102/1002 | 12/1/2012 | 5/12/2006 | 6/12/2005 | 10/30/2012 | 9/16/2010 | 12/15/2011 | 9/9/2012 |
| Property Dmg Report | Property Dmg Report | Property Umg Report | Property Umg Report | Property Umg Report | Property Umg Report | Ргоренту итв кероп | Property Dmg Report | Ргоретту итв кероп | Property Umg Report | Property Ding report | Property Umg Report | Property Umg Report | Property Umg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dring Report | Property Ding Report | Property Ding Report | Property Ding Report | Property Dmg Report | Ргоренту имд керопт | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report |

| 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 6 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 219 | 218 | 217 | 216 | 215 | 214 | 213 | 212 | 211 | 210 | 209 | 208 | 207 | 206 | 205 | 204 | 202 | 102 | 200 | 199 | 198 | 197 | 196 | 195 | 194 | 193 | 192 | 191 | 190 |
|----------------------|------------------------|----------------------|----------------------|----------------------|------------------------|------------------------|----------------------|------------------------|------------------------|----------------------|------------------------|------------------------|---------------------|------------------------|------------------------|------------------------|---------------------|------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|---------------------|----------------------|------------------------|------------------------|------------------------|------------------------|---------------------------|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|----------------------|------------------------|------------------------|----------------------|----------------------|
| 195.003 | 194.129 | 193.500 | 192.200 | 192.018 | 192.000 | 191.000 | 190.900 | 190.500 | 189.300 | 188.426 | 187.500 | 187.000 | 186.500 | 185.600 | 185.000 | 183.601 | 183.500 | 182.700 | 318.100 | 318.000 | 317.500 | 317.458 | 317.400 | 315.000 | 315.000 | 314.985 | 314.800 | 314.800 | 314.500 | 314,160 | 314.100 | 314.000 | 313,800 | 313 400 | 313.200 | 313.100 | 313.100 | 313.018 | 312.800 | 312.500 | 311.500 | 311.000 | 310.800 | 310.500 | 309,900 | 309.700 | 309.433 |
| Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Car | Pickup/Van/Panel/SUV | Car | Car | Tractor - 1 Trailer | Car | Car | Car | Car | Pickup | Pickup/Van/Panel/SUV | Tractor - 1 Trailer | Car | Car | Car | Van - 1 to 8 seats | Pickup/Van/Panel/SUV | Car | Bus - 16 or more seats | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Car | Pickup/Van/Panel/SUV | Car | Car | Car | Pickup/Van/Panel/SUV | Car | Pickup/Van/Panel/SUV | Car | Car | Car | Car | Fickup/ vali/ raite/ 30 v | | Car | Car | SUV/Crossover | Car | Car | Car | Car | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV |
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| Dry | Dry | Dry | Dry | Dr | - Ury | Dry | Dry | - DIV | Dry | Wet | Dry | lce | PV | Wet | Dry | Dry | Dry | Dry | | Dry | Wet | Wet | Dry | Wet | Dry | Dry | Dry | Wet | | | | | | VIU | YUU | Dry | Dry | Dry | Ϋ́ |
| Day | Dark, Street Lights On | Dawn or Dusk | Dawn or Dusk | Day | Dark, No Street Lights | Dark, No Street Lights | Dawn or Dusk | Dark, No Street Lights | Dark, No Street Lights | Dawn or Dusk | Dark, No Street Lights | Dark, No Street Lights | Day | Dark, No Street Lights | Dark, No Street Lights | Dark, No Street Lights | Day | Dark, No Street Lights | Dark, Street Lights Off | Dark, No Street Lights | Day | Dawn or Dusk | Dark, No Street Lights | Dark, No Street Lights | Dark, No Street Lights | Dark, Street Lights On | Dark, No Street Lights | Dark. No Street Lights | Dark No Street Lights | Dark No Streat Lights | Dark No Street Lights | Dark Street Lights On | Dark, No Street Lights | Dark, No Street Lights | Day | Dark, No Street Lights | Dark, Street Lights On | Dawn or Dusk | |
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| 8/26/2005 | 2/1/2010 | 4/26/2009 | 4/11/2/0004 | 5/24/2004 | 0007 /T 7 /NT | | _ | T7/24/2010 | 010C/ 12/ 21 | 0102/92/1T | TTU2/91/71 | 12/23/2008 | 1/14/2012 | 12/23/2007 | 2/18/2008 | 2/10/2008 | 7/16/2011 | 2/16/2009 | 10/17/2009 | 9/10/2005 | 10/13/2007 | 9/29/2006 | 1/26/2005 | 10/27/2003 | 10/14/2005 | 12/8/2012 | 10/29/2004 | 10/14/2003 | 4/12/2003 | 12/2/2007 | 10/18/2005 | 12/5/2003 | 11/8/2007 | 11/9/2012 | 11/9/2012 | 9/10/2005 | 6/22/2012 | 11/12/2006 | 10/20/2008 | 10/10/2011 | 5/78/2012 | 0100/1/00/0 | | 0107/87/9 | PLUT/2010 | 5007/a/DT | 10 (C /2007 |
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| 00T'/55 | 356.700 | 356.700 | 356.018 | 356.005 | 355.500 | 355.430 | 355.100 | 354.705 | 354.100 | 353.636 | 352.800 | 352.400 | 352.300 | 352.300 | 352.200 | 352.100 | 351.965 | 351.800 | 351.500 | 351.500 | 351.500 | 351.500 | 351.400 | 351.400 | 351.300 | 351.200 | 351.100 | 351.070 | 351.000 | 351.000 | 351.000 | 350.981 | 350.964 | 350.650 | 350.600 | 350.600 | 350.500 | 350.500 | 350.500 | 350.500 | 350.500 | 350.400 | 350.400 | 350.400 | 350.300 | 350.100 |
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| PICKUP/V | Car | Car | Car | Pickup/V | SUV/Crossover | SUV/Crossover | Car | Pickup/Va | Pickup/Va | Pickup/Va | Car | Car | Car | Pickup/Va | Pickup/Va | Pickup/Va | Pickup/Va | Car | Pickup | Car | Car | Pickup/Van/Panel/SUV | Car | Pickup/Van/Panel/SUV | Car | Car | SUV/Crossover | Pickup/Van/Panel/SUV | Car | Pickup/Van/Panel/SUV | Car | Pickup/Van/Panel/SUV | Car la | Pickup/van/Panel/SUV | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Car | Pickup/Van/Panel/SUV | Car | Car | Car | FICKUP/ Vall/ Fallel/ 30 V |
| Pickup/van/Panel/SUV | 5 | | | Pickup/Van/Panel/SUV | sover | sover | | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | | | | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | | | | | n/Panel/S | | n/Panel/S | | | iover | n/Panel/S | | n/Panel/S | | n/Panel/S | | n/Panel/S | n/Panel/S | n/Panel/S | n/Panel/S | n/Panel/S | n/Panel/S | n/Panel/Si | | n/Panel/SI | | | | 17 I WINCH O |
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| | | | Anim | Anim | | Anim | Anim | Anim | Anim | Anim | | _ | Anim | Anim | Anim | Anim | Anim | | | | Anim | Anim | Anim | Anim | Anim | | | Anima | Anima | | Anima | Anima | Anima | Anim | Anima | Anima | Anima | Anima | Anima | Anima | Anima | Anima | Anima | Anima | Anima | |
| | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animai - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | |
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| 385 | 384 | 383 | 382 | 381 | 380 | 379 | 378 | 377 | 376 | 375 | 374 | 373 | 372 | 371 | 370 | 69£ | 895 | 367 | 366 | 365 | 364 | 363 | 362 | 361 | 360 | 359 | 358 | 357 | 356 | 355 | 354 | 353 | 352 | 351 | 350 | 349 | 348 | 347 | 346 | 345 | 344 | 343 | 342 | 341 | 340 | 339 | 338 | 337 |
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| Tractor - 2 Trailers | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Car | Pickup/Van/Panel/SUV | Car | Car | Car | Car | Van - 1 to 8 seats | Car | Pickup/Van/Panel/SUV | Car | Pickup/Van/Panel/SUV | Car | Car | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Car | Pickup/Van/Panel/SUV | Car | SUV/Crossover | Car | Pickup/Van/Panel/SUV | Car | Car | Pickup | Car | Car | Pickup/Van/Panel/SUV | Car | Pickup/Van/Panel/SUV | Pickup | Matorcycle | Pickup/Van/Panel/SUV | Car | Pickup/Van/Panel/SUV | Car | Pickup/Van/Panel/SUV | Car | Pickup/Van/Panel/SUV | Car | Pickup | SUV/Crossover | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Car | Pickup/Van/Panel/SUV |
| Negotiating Curve | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Negotiating Curve | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Negotiating Curve | Going Straight | Negotiating Curve | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | | | | | | | | | Going Straight |
| Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animał - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild |
| Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Intersection | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | | Nonjunction | Nonjunction | Nonjunction | | | | | | | - | | | Nonjunction | Nonjunction | Nonjunction | | | | | Nonjunction |
| Clear | Clear | Clear | Cloudy | Cloudy | Cloudy | | Cloudy | Rain | Rain | Clear | Clear | Rain | Clear | Cloudy | Cloudy | Cloudy | Snow | Clear | Clear | Rain | Clear | Clear | Clear | Clear | Clear | Cloudy | Clear | Cloudy | Cloudy | Clear | Snow | Clear | Clear | Clear | Clear | Cloudy | Clear | Clear | Cloudy | Clear | Clear | Cloudy | Clear | Rain | Clear | Clear | Cloudy | Clear |
| Dry | Dry | Dry | Dry | Dry | Wet | Dry | Dry | Wet | Wet | Dry | Dry | Wet | Dry | Dry | Dry | Wet | Wet | Dry | Dry | Wet | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Snow | Dry | Dry | Dry | Dry | Dı | Dγ | Dry | Dry | Dη | Dry | Dry | Dry | Wet | Dry | Wet | Dry | Dry |
| Dark, No Street Lights | Dark, No Street Lights | Dark, No Street Lights | Day | Dark, No Street Lights | Dark, No Street Lights | | Day | Dark, No Street Lights | Dawn or Dusk | Dark, No Street Lights | Dark, No Street Lights | Day | Dark, No Street Lights | Day | Dark, No Street Lights | Day | Dark, No Street Lights | Dawn or Dusk | Dark, No Street Lights | Dark, Street Lights On | Dark, No Street Lights | Dawn or Dusk | Dawn or Dusk | Dark, No Street Lights | Dark, No Street Lights | Dawn or Dusk | Dark, No Street Lights | Dark, No Street Lights | Dawn or Dusk | Dark, No Street Lights | Day | Day | Dark, No Street Lights | Dark, No Street Lights |
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| Tuesday | Saturday | 0 Monday | Saturday | Monday | Thursday |) Sunday | Tuesday | 0 Friday | 0 Saturday | 0 Sunday | 0 Saturday | 0 Monday | 0 Friday | 0 Saturday | 0 Saturday | 0 Sunday | Thursday | 0 Saturday | 0 Wednesday | 0 Thursday | 0 Friday | 0 Tuesday | 0 Monday | 0 Friday | 0 Saturday | 0 Tuesday | 0 Wednesday | 0 Friday | 0 Saturday | Tuesday | Saturday | 0 Saturday | Wednesday | 0 Sunday | 0 Thursday | 0 Friday | 0 Thursday | 0 Wednesday | 0 Wednesday | 0 Sunday | 0 Saturday | Thursday | Saturday | Tuesday | 0 Sunday | 0 Friday | 0 Saturday | 0 Wednesday |
| 10/30/2007 | 11/3/2007 | 4/12/2004 | 11/15/2008 | 11/19/2007 | 3/15/2007 | 8/28/2005 | 6/26/2012 | 5/6/2011 | 10/1/2011 | 9/16/2012 | 6/7/2003 | 11/12/2007 | 4/2/2004 | 1/31/2009 | 11/20/2004 | 12/20/2009 | 12/11/2003 | 6/30/2007 | 5/24/2006 | 10/29/2009 | 11/14/2003 | 8/7/2012 | 1/12/2009 | 10/1/2004 | 3/6/2010 | 11/15/2005 | 9/21/2011 | 11/30/2012 | 9/17/2005 | 5/25/2010 | 11/25/2006 | 10/31/2009 | 8/31/2011 | 9/16/2012 | 9/9/2004 | 10/12/2007 | 9/10/2009 | 10/22/2008 | 5/14/2008 | 7/26/2009 | 9/25/2004 | 10/9/2008 | 8/11/2012 | 11/20/2012 | 6/22/2003 | 12/19/2003 | 11/3/2012 | 6/24/2009 |
| Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report | Property Dmg Report |

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Thursday 0 Saturday 0 Friday 0 Friday 0 Friday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Saturday 0 Friday 0 Saturday 0 Saturday 0 Saturday 0 Saturday 0 Friday 0 Friday 0 Friday 0 Friday 0 Friday 0 Friday 0 Friday 0 Saturday 0 Friday 0 Friday 0 Friday 0 Saturday 0 Saturday 0 Saturday 0 Saturday 0 Saturday 0 Saturday 0 Friday 0 Friday 0 Friday 0 Friday 0 Saturday 0 Saturday | 0 Truesday 0 Saturday 0 Saturday 0 Friday 0 Friday 0 Friday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Saturday 0 Friday 0 Friday 0 Friday 0 Friday 0 Friday 0 Friday 0 Saturday 0 Saturday 0 Saturday 0 Saturday 0 Saturday 0 Friday 0 Friday 0 Friday 0 Friday 0 Saturday 0 Friday 0 Friday 0 Saturday 0 Saturday 0 Saturday 0 Friday 0 Saturday 0 Friday 0 Friday 0 Saturday 0 Saturday 0 Friday 0 Friday 0 Friday 0 Saturday 0 Friday 0 Saturday 0 Saturday 0 Friday 0 Saturday 0 Friday 0 Friday 0 Friday 0 Saturday 0 Saturday | 0 Thursday 0 Thursday 0 Sunday 0 Sunday 0 Sunday 0 Friday 0 Friday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Saturday 0 Saturday 0 Saturday 0 Saturday 0 Saturday 0 Saturday 0 Saturday 0 Saturday 0 Saturday 0 Friday 0 Friday 0 Friday 0 Friday 0 Friday 0 Sunday 0 Sunday 0 Saturday 0 Saturday 0 Saturday 0 Friday 0 Saturday 0 Friday 0 Saturday 0 Friday 0 Friday 0 Friday 0 Friday 0 Saturday 0 Friday 0 Friday | 0 Saturday 0 Thursday 0 Thursday 0 Saturday 0 Saturday 0 Friday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Saturday 0 Friday 0 Friday 0 Friday 0 Friday 0 Friday 0 Saturday 0 Saturday 0 Sunday 0 Saturday 0 Saturday 0 Friday 0 Friday 0 Friday 0 Saturday 0 Saturday 0 Saturday 0 Friday 0 Friday 0 Friday 0 Saturday 0 Saturday 0 Saturday 0 Saturday 0 Saturday 0 Friday 0 Friday 0 Friday 0 Friday 0 Saturday 0 Saturday 0 Saturday 0 Saturday 0 Friday 0 Saturday 0 Saturday | 0 Sunday 0 Saturday 0 Thursday 0 Thursday 0 Thursday 0 Saturday 0 Friday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Saturday 0 Sunday 0 Saturday 0 Saturday 0 Friday 0 Friday 0 Friday 0 Friday 0 Friday 0 Friday 0 Friday 0 Sunday 0 Friday 0 Friday 0 Friday 0 Friday 0 Friday 0 Friday 0 Friday 0 Friday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Friday 0 Friday 0 Friday 0 Friday 0 Saturday 0 Friday 0 Saturday 0 Saturday 0 Saturday 0 Sunday 0 Saturday 0 Sunday 0 Sunday | 0 Thursday 0 Saturday 0 Thursday 0 Thursday 0 Thursday 0 Thursday 0 Friday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Saturday 0 Sunday 0 Saturday 0 Sunday 0 Sunday 0 Saturday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Friday 0 Friday 0 Friday 0 Friday 0 Friday 0 Sunday 0 Friday 0 Sunday 0 Friday 0 Sunday 0 Sunday | 0 Monday 0 Thursday 0 Sunday 0 Thursday 0 Thursday 0 Thursday 0 Thursday 0 Friday 0 Sunday 0 Saturday 0 Saturday 0 Saturday 0 Saturday 0 Saturday 0 Saturday 0 Saturday 0 Sunday 0 Saturday 0 Sunday 0 Sturday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Friday 0 Friday 0 Friday 0 Friday 0 Friday 0 Sunday 0 Friday 0 Friday 0 Friday 0 Friday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Sunday 0 Friday 0 Sunday 0 Sunday |
| + | y 6/11/2012 sdav 7/6/2011 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | A Injury Accident | | Ű | | | | | | | | | 44 | 44 | 4 4 | 44 | | H H | | 7 | 11 | 11 | 111 | | | | | | | | | | | | | | | | | | | | | |

| 476 | 475 | 474 | 473 | 472 | 471 | 470 | 469 | 468 | 467 | 466 | 465 | 464 | 463 | 462 | 461 | 460 | 459 | 458 | 457 | 456 | 455 | 454 | 453 | 452 | 451 | 450 | 449 | 448 | 447 | 446 | 445 | 444 | 443 | 442 | 441 | 440 | 439 | 438 | 437 | 436 | 435 |
|------------------------|------------------------|-------------------|------------------------|------------------------|------------------------|------------------------|----------------------|------------------------|----------------------|------------------------|------------------------|------------------------|-------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------|------------------------|------------------------|-------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|----------------------|-------------------|------------------------|
| 375.942 | 374.500 | 374.000 | 372.733 | 372.037 | 370.300 | 368.100 | 357.800 | 356.100 | 356.100 | 350.700 | 350.600 | 350.346 | 343.100 | 339.800 | 338.200 | 338.100 | 338.100 | 338.004 | 337.180 | 315.024 | 310,300 | 308.800 | 303,700 | 302.995 | 281.400 | 278.520 | 275.100 | 268.100 | 208.900 | 188.000 | 373.001 | 368.003 | 353.990 | 328.400 | 319.600 | 318.500 | 315.000 | 309.000 | 283.004 | 226.800 | 183.600 |
| Car | Car | Matorcycle | Car | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | SUV/Crossover | Pickup/Van/Panel/SUV | Car | Car | Car | Car | Car | Pickup/Van/Panel/SUV | Car | Car | Car | Pickup/Van/Panel/SUV | Саг | Car | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Car | Car | SUV/Crossover | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Car | Car | Car | Car | Pickup | Pickup/Van/Panel/SUV | Car | Car | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Pickup/Van/Panel/SUV | Car | Car |
| Avoiding Obstacle | Going Straight | Going Straight | Going Straight | Negotiating Curve | Going Straight | Negotiating Curve | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Going Straight | Negotiating Curve | Going Straight | Negotiating Curve | Negotiating Curve | Going Straight | Going Straight | Going Straight | Negotiating Curve | Negotiating Curve | Going Straight | Going Straight | Negotiating Curve | Negotiating Curve | Going Straight | Going Straight | Negotiating Curve | Going Straight | Going Straight | Going Straight | Going Straight | Negotiating Curve | Going Straight | Going Straight | Going Straight | Going Straight |
| Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animai - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild | Animal - Wild |
| Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Intersection | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction | Nonjunction |
| Clear | Cloudy | Clear | Clear | Cloudy | Clear | Clear | Clear | Clear | Cloudy | Clear | Clear | Cloudy | Clear | Cloudy | Clear | Clear | Cloudy | Rain | Cloudy | Cloudy | Clear | Cloudy | Clear | Clear | Cloudy | Clear | Clear | Clear | Clear | Clear | Cloudy | Clear | Clear | Clear | Clear | Cloudy | Clear | Clear | Clear | Clear | Clear |
| Dry | Wet | Dry | Dry | Dry | Dry | Dry | ΡŊ | Dry | Wet | PZ | Dry | Wet | Dry | Wet | Dry | Dry | Dry | Wet | Wet | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry | Dry |
| Dark, No Street Lights | Dark, No Street Lights | Day | Dark, No Street Lights | Day | Dark, No Street Lights | Day | Dark, No Street Lights | Dark, No Street Lights | Dark, No Street Lights | Day | Dark, No Street Lights | Dark, Street Lights On | Dark, No Street Lights | Dawn or Dusk | Dark, No Street Lights | Dark, No Street Lights | Day | Dark, No Street Lights | Dark, Street Lights On | Dark, No Street Lights | Dark, No Street Lights | Dark, No Street Lights | Dark, Street Lights Off | Day | Day | Dark, No Street Lights |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 |
| | | 1 | 2 | | | | | 1 | -1 | 1 | 4 | 4 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | ц | н | μ | 1 | 4 | 1 | <u> </u> | 1 |
| 3 Monday | 2 Friday | 1 Friday | 2 Tuesday | 1 Wednesday | 2 Friday | 1 Wednesday | Thursday | Tuesday | Monday | Friday | Sunday | Tuesday | Sunday | Saturday | 2 Thursday | 1 Sunday | 1 Monday | Tuesday | 2 Wednesday | 1 Wednesday | Thursday | Tuesday | Wednesday | Wednesday | Sunday | Friday | Tuesday | Friday | Friday | Monday | Tuesday | Sunday | Friday | Saturday | Friday | Monday | Thursday | Sunday | Saturday | Monday | Monday |
| 8/18/2008 | 2/10/2012 | 7/25/2008 | 11/10/2009 | 9/15/2010 | 9/10/2010 | 12/15/2010 | 8/23/2007 | 9/27/2011 | 4/5/2010 | 10/20/2006 | 2/17/2008 | 12/14/2010 | 7/25/2004 | 10/1/2005 | 10/25/2007 | 11/4/2012 | 10/25/2010 | 11/20/2012 | 1/7/2009 | 10/24/2007 | 10/12/2006 | 11/4/2008 | 1/23/2008 | 10/29/2003 | 11/1/2009 | 9/23/2011 | 6/19/2007 | 12/25/2009 | 9/15/2006 | 1/23/2006 | 10/12/2010 | 7/8/2007 | 9/7/2012 | 8/7/2010 | 6/18/2004 | 11/17/2008 | 5/15/2008 | 10/3/2004 | 5/10/2008 | 7/4/2011 | 1/16/2012 |
| C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | C Injury Accident | B Injury Accident | B Injury Accident | B Injury Accident | B Injury Accident | B Injury Accident | B Injury Accident | B Injury Accident | B Injury Accident | B Injury Accident | B Injury Accident | B Injury Accident |

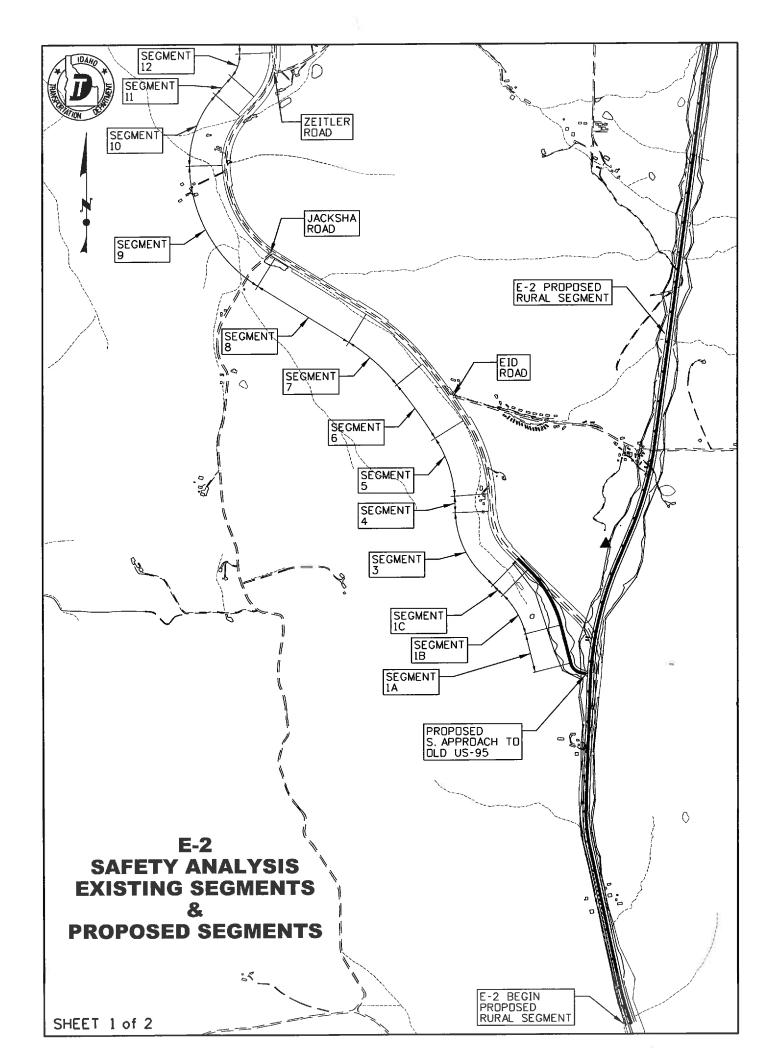
Accident Injury Classification for Wild Animal Crashes Along US-95 in District 2 Having Multiple Injuries Between 1/1/03 and 12/31/12

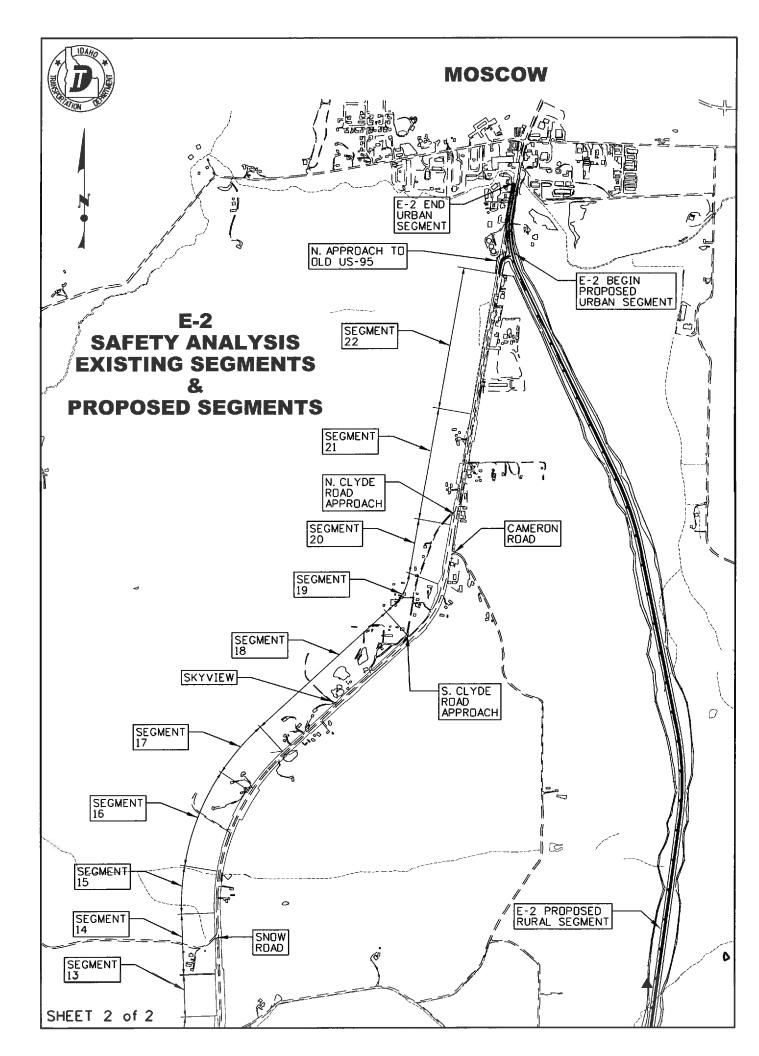
- Accident 433 1 Type A Incapacitating Injury, 1 Type B Non Incapacitating Injury
- Accident 438 4 Type B Non Incapacitating Injuries
- Accident 443 2 Type B Non Incapacitating Injuries

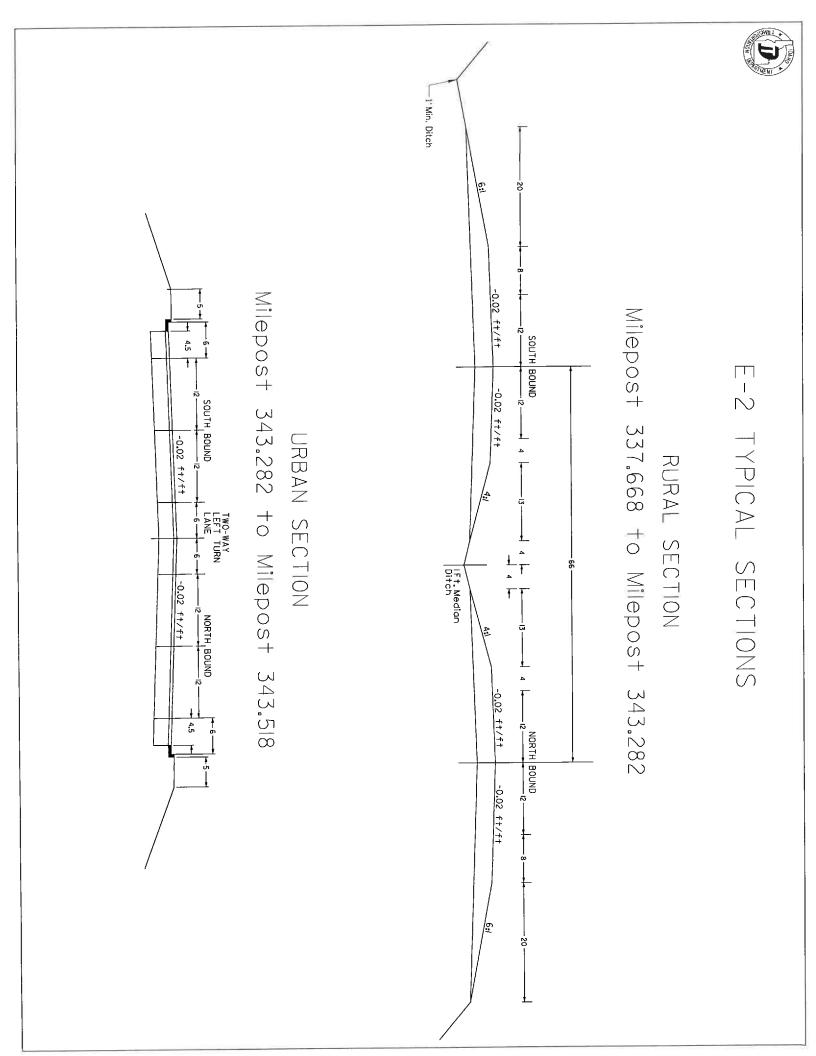
*From Data provided by ITD Headquarters Office of Highway Safety on Webcars.

Appendix C.1

Segment Breakdown, Proposed Typical Sections, and Predictions For Alternative E2







Predicted 2017 ADT for Proposed US-95 and County Roads for Safety Analysis

<u>Rural US-95</u> – **5920** From ITD Traffic Volume Report <u>Suburban US-95</u> – **7465** From ITD Traffic Volume Report <u>Eid Road</u> – **65** – From Current North Latah Highway District Plan <u>Jacksha Road</u> – **50** – Volume is predicted to be less than Eid Road Volume <u>Zeitler Road</u> – **50** – Volume is predicted to be less than Eid Road Volume <u>Snow Road</u> – **25** – Volume is predicted to be very light due to few residences <u>Skyview Drive</u> – **25** – The private drive currently services only 1 home <u>North Clyde Road</u> – **50** – Volume predicted to be greater than other rural roads based on proximity to Moscow and the number of homes <u>South Clyde Road</u> – **50** – Volume of traffic predicted to be light and less than Eid Road Volume

Predicted 2017 ADT on Existing US-95 Loop If Alternative E2 Was Constructed

Segments 1a - 19 - 300 (For Predictions See Below)

27 Approaches generate 10 trips per day = 270 Eid Road = 65, Jacksa Road = 50, Zeitler Road = 50, Snow Road = 25, Skyline Drive = 25, Clyde Road South = 50 / Total = 265

Predict an Even Directional Split – (270+265)/2 = 267.5

Predict about 32.5 commuters that drive through on Old US-95 per day – 267.5 + 32.5 = 300

Segments 20-22 - 1545 from Differences in ITD Traffic Volume Report (7465 – 5920 = 1545)

Predicted Traffic Growth Rates

Proposed US-95 Rural – 1.63% From ITD Traffic Volume Report
Proposed US-95 Suburban – 1.58% From ITD Traffic Volume Report
Segment 22 on Existing US-95 Loop – 0.91% Growth Rate of Moscow from Latah County Comprehensive
Plan because the segment is within the area of impact of Moscow
Segments 20,21 on Existing US-95 Loop – 0.53% Growth Rate of Unincorporated Latah County from
Latah County Comprehensive Plan because the segments are near the area of impact of Moscow
Segments 1a-19 – 0.19% Growth Rate within the Thorncreek to Moscow Corridor based on Census
Bureau Data in the Thorncreek to Moscow – This is a new subdivision so growth is predicted to be
greater than other areas within the corridor
All County Roads Except Skyline Drive – 0.19% Growth Rate within the Thorncreek to Moscow Corridor based on Census

Assumed E2 ADTs

| E2 Ru | ral ADT | E2 Subu | rban ADT | Г | E2 Segmen | t 21,20 ADT | | E2 Segme | nt 22 ADT |
|-------|---------|---------|--------------|--------|--------------|-------------|----|----------|-----------|
| Year | ADT | Үеаг | ADT | | Year | ADT | | Year | ADT |
| 2017 | 5920 | 2017 | 7465 | | 2017 | 1545 | | 2017 | 1545 |
| 2018 | 6016 | 2018 | 7583 | | 2018 | 1553 | | 2018 | 1559 |
| 2019 | 6114 | 2019 | 7703 | | 2019 | 1561 | | 2019 | 1573 |
| 2020 | 6214 | 2020 | 7825 | | 2020 | 1570 | | 2020 | 1588 |
| 2021 | 6315 | 2021 | 7949 | \sim | 2021 | 1578 | | 2021 | 1602 |
| 2022 | 6417 | 2022 | 8075 | | 2022 | 1586 | | 2022 | 1617 |
| 2022 | 6522 | 2023 | 8203 | | 2023 | 1594 | | 2023 | 1631 |
| 2023 | 6628 | 2024 | 8333 | | 2024 | 1603 | | 2024 | 1646 |
| 2024 | 6736 | 2025 | 8465 | | 2025 | 1611 | | 2025 | 1661 |
| 2025 | 6845 | 2026 | 8599 | | 2026 | 1620 | | 2026 | 1677 |
| 2020 | 6957 | 2027 | 8735 | | 2027 | 1628 | | 2027 | 1692 |
| 2027 | 7070 | 2027 | 8873 | | 2028 | 1637 | | 2028 | 1707 |
| | 7185 | 2028 | 9014 | | 2028 | 1646 | | 2029 | 1723 |
| 2029 | 7302 | 2029 | 9014 9157 | | 2020 | 1654 | | 2030 | 1738 |
| 2030 | | 2030 | 9302 | | 2030 | 1663 | | 2030 | 1754 |
| 2031 | 7421 | | | | | 1672 | | 2031 | 1770 |
| 2032 | 7541 | 2032 | 9449 | | 2032 | 1672 | | 2032 | 1786 |
| 2033 | 7664 | 2033 | 9598 | | 2033 | | | 2033 | 1788 |
| 2034 | 7789 | 2034 | 9750 | | 2034 | 1689 | | | |
| 2035 | 7915 | 2035 | 9905 | | 2035 | 1698 | | 2035 | 1819 |
| 2036 | 8044 | 2036 | 10062 | | 2036 | 1707 | | 2036 | 1836 |
| 2037 | 8175 | 2037 | 10221 | | 2037 | 1716 | | 2037 | 1853 |
| 2038 | 8308 | 2038 | 10383 | | 2038 | 1725 | | 2038 | 1869 |
| 2039 | 8443 | 2039 | 10547 | | 2039 | 1734 | | 2039 | 1886 |
| 2040 | 8581 | 2040 | 10714 | | 2040 | 1743 | | 2040 | 1904 |
| 2041 | 8720 | 2041 | 10884 | | 2041 | 1753 | | 2041 | 1921 |
| 2042 | 8862 | 2042 | 11056 | | 2042 | 1762 | | 2042 | 1939 |
| 2043 | 9006 | 2043 | 11231 | | 2043 | 1771 | | 2043 | 1956 |
| 2044 | 9153 | 2044 | 11409 | | 2044 | 1780 | | 2044 | 1974 |
| 2045 | 9302 | 2045 | 11590 | | 2045 | 1790 | | 2045 | 1992 |
| 2046 | 9453 | 2046 | 11773 | | 2046 | 1799 | | 2046 | 2010 |
| 2047 | 9607 | 2047 | 11960 | | 2047 | 1809 | | 2047 | 2029 |
| 2048 | 9763 | 2048 | 12149 | | 2048 | 1818 | | 2048 | 2047 |
| 2049 | 9922 | 2049 | 12342 | | 2049 | 1828 | | 2049 | 2066 |
| 2050 | 10083 | 2050 | 12537 | | 2050 | 1837 | | 2050 | 2085 |
| 2051 | 10247 | 2051 | 12736 | | 2051 | 1847 | | 2051 | 2104 |
| 2052 | 10414 | 2052 | 12937 | 1 | 2052 | 1857 | | 2052 | 2123 |
| 2052 | 10583 | 2053 | 13142 | | 2053 | 1867 | | 2053 | 2142 |
| 2055 | 10755 | 2054 | 13350 | | 2054 | 1876 | | 2054 | 2162 |
| 2054 | 10930 | 2055 | 13562 | | 2055 | 1886 | | 2055 | 2181 |
| 2055 | 11108 | 2055 | 13776 | 1 | 2055 | 1896 | | 2056 | 2201 |
| 2056 | 11289 | 2050 | 13994 | | 2057 | 1906 | | 2057 | 2221 |
| 2057 | 11209 | 2057 | 13334 | | 2058 | 1916 | | 2058 | 2242 |
| 2058 | 11475 | 2058 | 14210 | | 2059 | 1926 | | 2059 | 2262 |
| 2059 | 11859 | 2039 | 14441 | | 2055 | 1927 | | 2060 | 2283 |
| | | 2060 | 14870 | | 2060 | 1947 | | 2061 | 2303 |
| 2061 | 12042 | 2061 | 14902 | | 2061 | 1947 | | 2062 | 2324 |
| 2062 | 12238 | | | | 2062 | 1957 | | 2063 | 2346 |
| 2063 | 12437 | 2063 | 15378 | | 2063 | 1967 | | 2063 | 2340 |
| 2064 | 12639 | 2064 | 15621 | | | 1978 | | 2064 | 2389 |
| 2065 | 12845 | 2065 | 15869 | | 2065 2066 | 1988 | | 2065 | 2389 |
| 2066 | 13054 | 2066 | 16120 | JL | 2000 | 1999 | ł. | 2.000 | 2410 |

Assumed E2 Old US-95 Highway ADTs

| Old US- | -95 ADT | Eid R | d. ADT | Jacksha | Rd. ADT | Zeitler l | Rd. ADT |
|--------------|------------|--------------|----------|--------------|----------|--------------|----------|
| Year | ADT | Year | ADT | Year | ADT | Year | ADT |
| 2017 | 300 | 2017 | 65 | 2017 | 50 | 2017 | 50 |
| 2018 | 301 | 2018 | 65 | 2018 | 50 | 2018 | 50 |
| 2019 | 301 | 2019 | 65 | 2019 | 50 | 2019 | 50 |
| 2020 | 302 | 2020 | 65 | 2020 | 50 | 2020 | 50 |
| 2021 | 302 | 2021 | 65 | 2021 | 50 | 2021 | 50 |
| 2022 | 303 | 2022 | 66 | 2022 | 50 | 2022 | 50 |
| 2022 | 303 | 2023 | 66 | 2023 | 51 | 2023 | 51 |
| 2024 | 304 | 2024 | 66 | 2024 | 51 | 2024 | 51 |
| 2024 | 305 | 2025 | 66 | 2025 | 51 | 2025 | 51 |
| 2025 | 305 | 2026 | 66 | 2026 | 51 | 2026 | 51 |
| 2020 | 306 | 2027 | 66 | 2027 | 51 | 2027 | 51 |
| 2027 | 306 | 2028 | 66 | 2028 | 51 | 2028 | 51 |
| 2028 | 307 | 2028 | 67 | 2029 | 51 | 2029 | 51 |
| 2029 | 308 | 2020 | 67 | 2030 | 51 | 2030 | 51 |
| 2030 | 308 | 2030 | 67 | 2031 | 51 | 2031 | 51 |
| | 309 | 2031 | 67 | 2032 | 51 | 2032 | 51 |
| 2032 | 309 | 2032 | 67 | 2032 | 52 | 2033 | 52 |
| 2033 2034 | 309 310 | 2033 | 67 | 2033 | 52 | 2034 | 52 |
| | | 2034 | 67 | 2035 | 52 | 2035 | 52 |
| 2035 | 310 | 2035 | 67 | 2035 | 52 | 2036 | 52 |
| 2036 | 311 | 2038 | 68 | 2030 | 52 | 2037 | 52 |
| 2037 | 312 | 2037 | 68 | 2037 | 52 | 2038 | 52 |
| 2038 | 312 | 2038 | 68 | 2038 | 52 | 2038 | 52 |
| 2039 | 313 | 2039 | 68 | 2039 | 52 | 2035 | 52 |
| 2040 | 313 | | 68 | 2040 | 52 | 2040 | 52 |
| 2041 | 314 | 2041 2042 | 68 | 2041 | 52 | 2041 | 52 |
| 2042 | 315 | | | | | 2042 | 53 |
| 2043 | 315 | 2043 | 68 | 2043 | 53 | 2043 | 53 |
| 2044 | 316 | 2044 | 68 | 2044 | 53 | | |
| 2045 | 316 | 2045 | 69 | 2045 | 53 | 2045 | 53 53 |
| 2046 | 317 | 2046 | 69 | 2046 | 53 | 2046 | 53 |
| 2047 | 318 | 2047 | 69 | 2047 | 53 | 2047 | 53 |
| 2048 | 318 | 2048 | 69 | 2048 | 53 | 2048 2049 | 53 |
| 2049 | 319 | 2049 | 69 | 2049 | 53 | 2049 | 53 |
| 2050 | 319 | 2050 | 69 | 2050 | 53 53 | 2050 | 53 |
| 2051 | 320 | 2051 | 69 69 | 2051 | 53 | 2051 | 53 |
| 2052 | 321 | 2052 | 69 70 | 2052 | 54 | 2052 | 54 |
| 2053 | 321 | 2053 | 70 70 | 2053 2054 | 54 54 | 2055 | 54 54 |
| 2054 | 322 | 2054 | | | 54 54 | 2054 | 54 54 |
| 2055 | 323 | 2055 | 70 70 | 2055 | 54 54 | 2055 | 54 54 |
| 2056 | 323 | 2056 | 70 70 | 2056 | 54 54 | 2056 | 54 54 |
| 2057 | 324 | 2057 | 70 | 2057 | 54 54 | 2057 | 54 54 |
| 2058 | 324 | 2058 | 70 70 | 2058 2059 | 54 | 2058 | 54 |
| 2059 | 325 | 2059 | | 2059 | 54 | 2059 | 54 54 |
| 2060 | 326 | 2060 | 71 71 | 2060 | 54 54 | 2060 | 54 |
| 2061 | 326 | 2061 | | 2061 | 54 54 | 2061 | 54 |
| 2062 | 327 | 2062 | 71 | 2062 | 54 55 | 2062 | 55 |
| 2063 | 327 | 2063 | 71 | 2063 | 55 | 2065 | 55 |
| 2064 | 328 | 2064 | 71 | 2064 | 55 | 2064 | 55 |
| 2065 | 329 | 2065 2066 | 71 71 | 2065 | 55 | 2065 | 55 |
| 2066 | 329 | 2066 | /1 | 2000 | 55 | 2000 | |

| Snow F | Rd. ADT | Skyviev | v Dr. ADT | I I | Clyde I | Rd. ADT | | Cameror | Rd. ADT |
|-----------|----------|---------|-----------|-----|---------|---------|----|---------|---------|
| Year | ADT | Year | ADT | 11 | Year | ADT | 1 | Year | ADT |
| 2017 | 25 | 2017 | 25 | 1 1 | 2017 | 50 | 1 | 2017 | 100 |
| 2018 | 25 | 2018 | 25 | | 2018 | 50 | | 2018 | 100 |
| 2019 | 25 | 2019 | 25 | | 2019 | 50 | | 2019 | 100 |
| 2020 | 25 | 2020 | 26 | | 2020 | 50 | | 2020 | 101 |
| 2020 | 25 | 2021 | 26 | | 2021 | 50 | | 2021 | 101 |
| 2021 | 25 | 2022 | 26 | | 2022 | 50 | | 2022 | 101 |
| 2022 | 25 | 2022 | 26 | | 2023 | 51 | | 2023 | 101 |
| 2023 | 25 | 2023 | 20 | | 2023 | 51 | | 2023 | 101 |
| 2024 2025 | 25 | 2024 | 27 | | 2024 | 51 | | 2024 | 101 |
| 2025 | 25 | 2025 | 27 | | 2025 | 51 | | 2025 | 102 |
| | | | | | 2020 | 51 | | 2027 | 102 |
| 2027 | 25 | 2027 | 27 | | 2027 | 51 | | 2027 | 102 |
| 2028 | 26 | 2028 | 28 | | | 1 | | | 102 |
| 2029 | 26 | 2029 | 28 | | 2029 | 51 | | 2029 | |
| 2030 | 26 | 2030 | 28 | 11 | 2030 | 51 | | 2030 | 103 |
| 2031 | 26 | 2031 | 28 | | 2031 | 51 | | 2031 | 103 |
| 2032 | 26 | 2032 | 29 | | 2032 | 51 | | 2032 | 103 |
| 2033 | 26 | 2033 | 29 | | 2033 | 52 | | 2033 | 103 |
| 2034 | 26 | 2034 | 29 | | 2034 | 52 | | 2034 | 103 |
| 2035 | 26 | 2035 | 29 | | 2035 | 52 | | 2035 | 103 |
| 2036 | 26 | 2036 | 30 | | 2036 | 52 | | 2036 | 104 |
| 2037 | 26 | 2037 | 30 | 11 | 2037 | 52 | | 2037 | 104 |
| 2038 | 26 | 2038 | 30 | | 2038 | 52 | | 2038 | 104 |
| 2039 | 26 | 2039 | 31 | | 2039 | 52 | | 2039 | 104 |
| 2040 | 26 | 2040 | 31 | | 2040 | 52 | | 2040 | 104 |
| 2041 | 26 | 2041 | 31 | | 2041 | 52 | | 2041 | 105 |
| 2042 | 26 | 2042 | 31 | 11 | 2042 | 52 | | 2042 | 105 |
| 2043 | 26 | 2043 | 32 | | 2043 | 53 | | 2043 | 105 |
| 2044 | 26 | 2044 | 32 | | 2044 | 53 | | 2044 | 105 |
| 2045 | 26 | 2045 | 32 | | 2045 | 53 | | 2045 | 105 |
| 2046 | 26 | 2046 | 33 | | 2046 | 53 | | 2046 | 106 |
| 2047 | 26 | 2047 | 33 | | 2047 | 53 | | 2047 | 106 |
| 2048 | 27 | 2048 | 33 | | 2048 | 53 | | 2048 | 106 |
| 2049 | 27 | 2049 | 33 | | 2049 | 53 | | 2049 | 106 |
| 2050 | 27 | 2050 | 34 | | 2050 | 53 | | 2050 | 106 |
| 2050 | 27 | 2050 | 34 | | 2051 | 53 | | 2051 | 107 |
| 2051 | 27 | 2051 | 34 | | 2052 | 53 | | 2052 | 107 |
| 2052 | 27 | 2052 | 35 | | 2052 | 54 | | 2052 | 107 |
| 2053 | 27 | 2053 | 35 | | 2055 | 54 | | 2055 | 107 |
| 2054 | 27 | 2055 | 35 | | 2055 | 54 | | 2055 | 107 |
| 2055 | 27 | 2055 | 36 | | 2055 | 54 | | 2055 | 108 |
| 2056 | 27 | 2056 | 36 | | 2057 | 54 | | 2050 | 108 |
| 2057 | 27 27 | 2058 | 36 | | 2057 | 54 | | 2057 | 108 |
| 2058 | 27 27 | 2058 | 37 | | 2058 | 54 | | 2058 | 108 |
| | | | | | 2059 | 54 | | 2039 | 108 |
| 2060 | 27 | 2060 | 37 | | | | 10 | | 109 |
| 2061 | 27 | 2061 | 37 | | 2061 | 54 | | 2061 | |
| 2062 | 27 | 2062 | 38 | | 2062 | 54 | | 2062 | 109 |
| 2063 | 27 | 2063 | 38 | | 2063 | 55 | | 2063 | 109 |
| 2064 | 27 | 2064 | 38 | | 2064 | 55 | | 2064 | 109 |
| 2065 | 27 | 2065 | 39 | | 2065 | 55 | | 2065 | 110 |
| 2066 | 27 | 2066 | 39 | ιL | 2066 | 55 | | 2066 | 110 |

| J 16, 2011 | 7 | | | 2037 | | | | 2017 | | | | 2010 | Year | | | | | ADT |
|-------------|----------|---------|-------------------|-------------------|----------|---------|-------------------|-------------------|----------|---------|-------------------|-------------------|------------------|----------|---------------------|-----------------------|--------------|------------------------------|
| | 2037 | | 001540 | 001539 | 2017 | | 001540 | 001539 | 2010 | | 001540 | 001539 | l | Seg | Segment To | Segment From | | ADT Volume Projection Report |
| | | | 001540 001540 | 001539 | | | 001540 | 001539 | | | 001540 | 001539 001539 | 5 | Segment | | _ | Route L | me P |
| | Weighted | 339.620 | 337.668 | 337.180 | Weighted | 339.620 | 337.668 | 337.180 | Weighted | 339.620 | 337.668 | 337.180 337.668 | From | Milepost | 1540 | 1539 | US095 | rojec |
| | hted | 342.930 | 339.620 | 337.180 337.668 | hted | 342.930 | 339.620 | 337.668 | hted | 342.930 | 339.620 | 337.668 | То | post | Milepost To | Milepost From | | tion I |
| | 8,175 | 8,437 | 7,821 | 7,809 | 5,920 | 6,113 | 5,657 | 5,654 | 5,130 | 5,300 | 4,900 | 4,900 | AADT | | ost To | From | | Repo |
| | 1,318 | 1,323 | 1,323 | 1,264 | 843 | 8 | 8 | 8 | 677 | 9 | 9 | 9 | CAADT | | 342.930 | 337.180 | | T |
| | 18 925 | 23 954 | 23 886 | 64 885 | 43 679 | 847 700 | 847 650 | 809 650 | 77 593 | 680 611 | 680 567 | 650 567 | DHV | | _ | - | | |
| 1 | 5 11.30 | 4 11.3 | 5 11.3 | 5 11.3 | 9 11.40 | 0 11.4 |) 11.4 | 0 11.4 | 11.50 | 11.5 | 7 11.5 | 11.5 | % NHD | | End | Start | _ | |
| | 0 104 | .3 105 | .3 105 | .3 100 | 0 68 | .4 68 | .4 68 | .4 65 | 0 55 | .5 55 | .5 55 | 5 53 | CDHV | | End Projection 2037 | Start Projection 2017 | Traffic Data | |
| a | 7.91 | 7.912 | 7.933 | 7.934 | 8.01 | 8.014 | 8.044 | 8.044 | 8.07 | 8.071 | 8.106 | 8.106 | CDHV % | | n 2037 | n 2017 | a 2010 | |
| | | 60/40% | 60/40% | 60/40% | | 60/40% | 60/40% | 60/40% | | 60/40% | 60/40% | 60/40% | DIR | | | | | |
| | | eid rd | END NEW ALIGNMENT | THORN CREEK RD | | EID RD | END NEW ALIGNMENT | THORN CREEK RD | | EID RD | END NEW ALIGNMENT | THORN CREEK RD | From Description | | | | | |
| Page 1 of 1 | | | EID RD | END NEW ALIGNMENT | | | EID RD | END NEW ALIGNMENT | | | EID RD | END NEW ALIGNMENT | To Description | | | | | |

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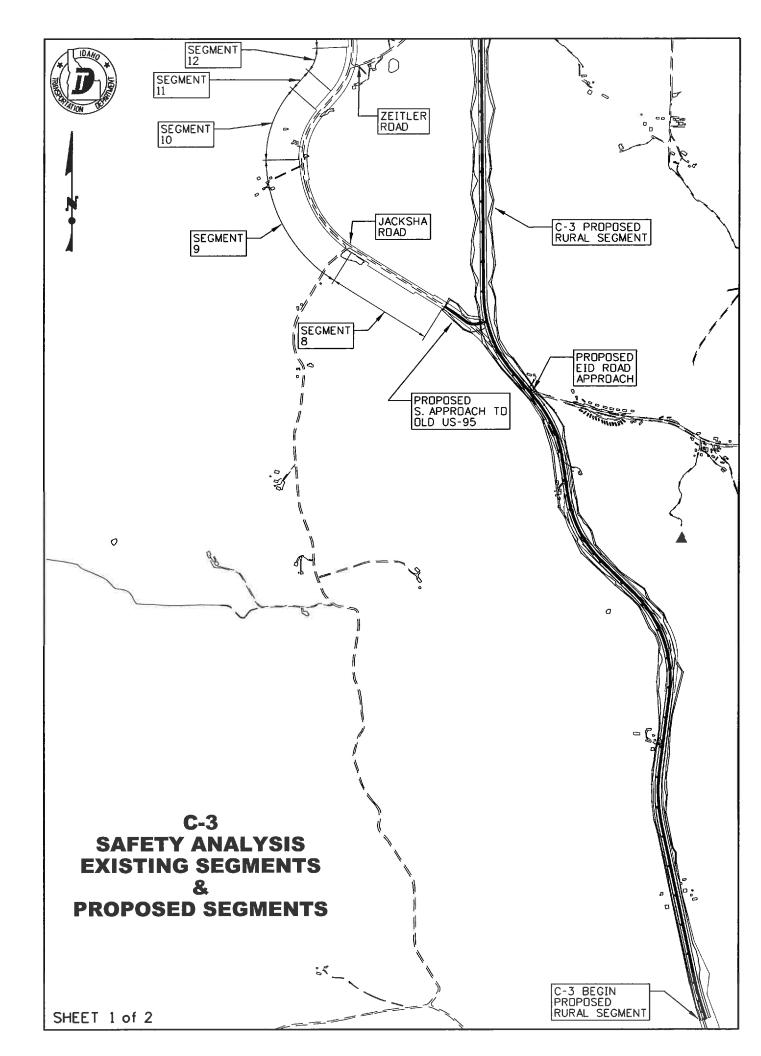
| ADT Volume Projection Report | olume' | e Proj | ection | Repo | it | | | | | | | | |
|------------------------------|--------------|-----------------|-------------------|---------------|--------------------|-------------------------|-------|-----------------------|---------------------|----------|--------|------------------|------------------|
| | | Route US095 | S095 | | | | | Traf | Traffic Data 2010 | 2010 | | | |
| | Segment From | t From 1540 | 540 | Milepost From | | 342.93 | | Start Projection 2017 | ojection | 2017 | | | |
| | Segme | Segment To 1540 | 540 | Milepo | Milepost To 344.11 | 344.11 | | End Pr | End Projection 2037 | 2037 | | | |
| | Seg | Segment | Milepost | ost | | | | | 2 | | | | |
| Year | From | То | From | Το | AADT | CAADT | DHV | о С | CDHV % | | DIR | From Description | To Description |
| 2010 | 001540 | 001540 | 342.933 | 344.116 | 6,500. | 520 | 742 | 11.4 | 42 7 | | 60/40% | 60/40% CLYDE RD | PALOUSE RIVER DR |
| | 2010 | Wei | Weighted averages | ages | 6,500 | 520 | 742 | 11.4 | 42 | 7.99 | | | |
| 2017 | | 001540 | 342.933 | 344.116 | 7,465 | 647 | 848 | 11.3 | 51 | 51 7.947 | 60/40% | 60/40% CLYDE RD | PALOUSE RIVER DR |
| | 2017 | Wei | Weighted averages | ages | 7,465 | 647 | 848 | 11.3 | 51 | 7.95 | | | |
| 2037 | | 001540 | 342.933 | 344.116 | 10,221 | 1,011 | 1,148 | 11.2 | 80 7.865 | | 60/40% | 60/40% CLYDE RD | PALOUSE RIVER DR |
| | 2037 | We | Weighted averages | ages | 10,221 | 10,221 1,011 1,148 11.2 | 1,148 | 11.2 | 80 7.87 | 7.87 | | | |
| | | | | | | | | | | | | | |

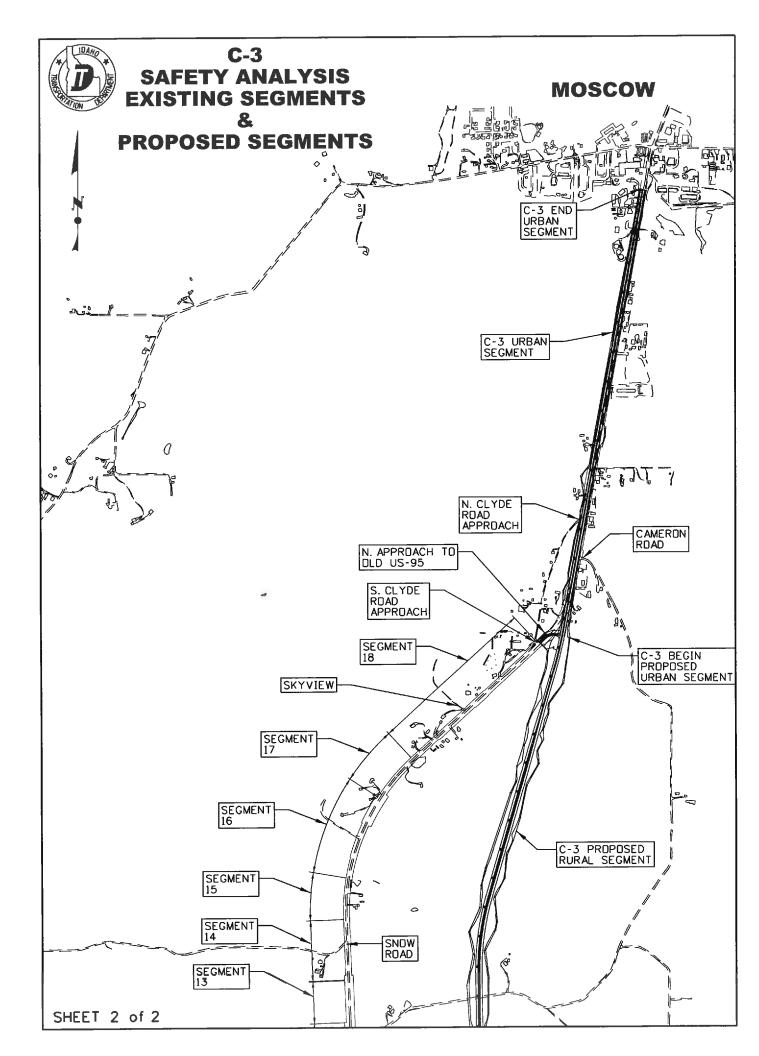
June 16, 2011

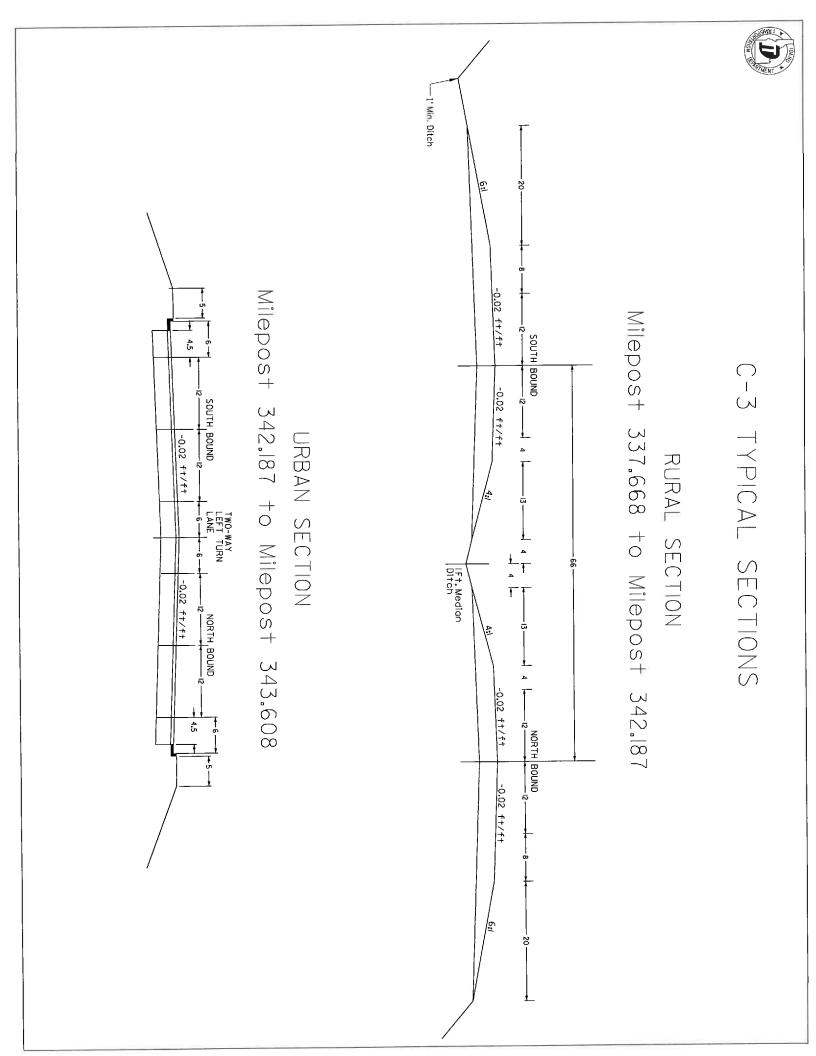
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Appendix C.2

Segment Breakdown, Proposed Typical Sections, and Predictions For Alternative C3







Predicted 2017 ADT for Proposed US-95 and County Roads for Safety Analysis

<u>Rural US-95</u> – **5920** From ITD Traffic Volume Report <u>Suburban US-95</u> – **7465** From ITD Traffic Volume Report <u>Eid Road</u> – **65** – From Current North Latah Highway District Plan <u>Jacksha Road</u> – **50** – Volume is predicted to be less than Eid Road Volume <u>Zeitler Road</u> – **50** – Volume is predicted to be less than Eid Road Volume <u>Snow Road</u> – **25** – Volume is predicted to be very light due to few residences <u>Skyview Drive</u> – **25** – The private drive currently services only 1 home <u>North Clyde Road</u> – **50** – Volume predicted to be greater than other rural roads based on proximity to Moscow and the number of homes <u>South Clyde Road</u> – **50** – Volume of traffic predicted to be light and less than Eid Road Volume

Predicted 2017 ADT on Existing US-95 Loop If Alternative C3 Was Constructed

Segments 8 – 18 – 220 (For Predictions See Below)

17 Approaches generate 10 trips per day = 170 Jacksa Road = 50, Zeitler Road = 50, Snow Road = 25, Skyline Drive = 25, Clyde Road South = 50 / Total = 200

Predict an Even Directional Split – (170+200)/2 = 187.5

Predict about 32.5 commuters that drive through on Old US-95 per day – 187.5 + 32.5 = 220

Predicted Traffic Growth Rates

Proposed US-95 Rural – 1.63% From ITD Traffic Volume Report

Proposed US-95 Suburban - 1.58% From ITD Traffic Volume Report

<u>Segments 8-18</u> – **0.19%** Growth Rate within the Thorncreek to Moscow Corridor based on Census Bureau Data in the Thorncreek to Moscow Community Impact Technical Report

<u>Skyline Drive</u> – **0.91%** Growth Rate of Moscow – This is a new subdivision so growth is predicted to be greater than other areas within the corridor

All County Roads Except Skyline Drive – **0.19%** Growth Rate within the Thorncreek to Moscow Corridor based on Census Bureau Data in the Thorncreek to Moscow Community Impact Technical Report

Assumed C3 ADTs

| ſ | E2 Ru | | E2 Subur | ban ADT |
|---|--------------|--------------|--------------|----------------|
| | Year | ADT | Year | ADT |
| ł | 2017 | 5920 | 2017 | 7465 |
| | 2017 | 6016 | 2017 | 7583 |
| | 2018 | 6114 | 2018 | 7703 |
| | 2019 | 6214 | 2019 | 7825 |
| | 2020 | 6315 | 2020 | 7949 |
| | 2021 | 6417 | 2021 | 8075 |
| | | | 2022 | 8203 |
| | 2023 | 6522 6628 | 2025 | 8333 |
| | 2024 | 6736 | 2024 | 8355 |
| | 2025 2026 | 6756 | 2025 | 8599 |
| | 2026 | 6957 | 2028 | 8735 |
| | | 7070 | 2027 | 8873 |
| | 2028 | | | |
| | 2029 | 7185 | 2029 | 9014 |
| | 2030 | 7302 | 2030 | 9157 |
| | 2031 | 7421 | 2031 | 9302 |
| | 2032 | 7541 | 2032 | 9449 |
| | 2033 | 7664 | 2033 2034 | 9598 9750 |
| | 2034 | 7789 | | |
| 1 | 2035 | 7915 | 2035 | 9905 |
| | 2036 | 8044 | 2036 | 10062 |
| | 2037 | 8175 | 2037 | 10221 |
| | 2038 | 8308 | 2038 | 10383 |
| | 2039 2040 | 8443 8581 | 2039 2040 | 10547 10714 |
| | | | 2040 | 10714 |
| | 2041 2042 | 8720 8862 | 2041 2042 | 10884 |
| | 2042 | 9006 | 2042 | 11030 |
| | 2043 | 9008 9153 | 2043 | 11231 |
| | 2044 | 9302 | 2044 | 11405 |
| | 2045 | 9453 | 2045 | 11773 |
| | 2040 | 9607 | 2048 | 11960 |
| | 2048 | 9763 | 2048 | 12149 |
| | 2040 | 9922 | 2049 | 12342 |
| | 2050 | 10083 | 2050 | 12537 |
| | 2051 | 10247 | 2051 | 12736 |
| | 2052 | 10414 | 2052 | 12937 |
| | 2053 | 10583 | 2053 | 13142 |
| | 2054 | 10755 | 2054 | 13350 |
| | 2055 | 10930 | 2055 | 13562 |
| | 2056 | 11108 | 2056 | 13776 |
| | 2057 | 11289 | 2057 | 13994 |
| | 2058 | 11473 | 2058 | 14216 |
| | 2059 | 11659 | 2059 | 14441 |
| | 2060 | 11849 | 2060 | 14670 |
| | 2061 | 12042 | 2061 | 14902 |
| | 2062 | 12238 | 2062 | 15138 |
| | 2063 | 12437 | 2063 | 15378 |
| | 2064 | 12639 | 2064 | 15621 |
| | 2065 | 12845 | 2065 | 15869 |
| | 2066 | 13054 | 2066 | 16120 |

Assumed C3 Old US-95 Highway ADTs

| Old US | -95 ADT | Jacksha | Rd. ADT | Zeitler F | Rd. ADT | Snow F | Rd. ADT |
|--------------|------------|---------|---------|-----------|---------|--------|---------|
| Year | ADT | Year | ADT | Year | ADT | Year | ADT |
| 2017 | 220 | 2017 | 50 | 2017 | 50 | 2017 | 25 |
| 2018 | 220 | 2018 | 50 | 2018 | 50 | 2018 | 25 |
| 2019 | 221 | 2019 | 50 | 2019 | 50 | 2019 | 25 |
| 2020 | 221 | 2020 | 50 | 2020 | 50 | 2020 | 25 |
| 2021 | 222 | 2021 | 50 | 2021 | 50 | 2021 | 25 |
| 2022 | 222 | 2022 | 50 | 2022 | 50 | 2022 | 25 |
| 2023 | 223 | 2023 | 51 | 2023 | 51 | 2023 | 25 |
| 2023 | 223 | 2024 | 51 | 2024 | 51 | 2024 | 25 |
| 2025 | 223 | 2025 | 51 | 2025 | 51 | 2025 | 25 |
| 2026 | 224 | 2026 | 51 | 2026 | 51 | 2026 | 25 |
| 2027 | 224 | 2027 | 51 | 2027 | 51 | 2027 | 25 |
| 2028 | 225 | 2028 | 51 | 2028 | 51 | 2028 | 26 |
| 2029 | 225 | 2029 | 51 | 2029 | 51 | 2029 | 26 |
| 2029 | 225 | 2025 | 51 | 2030 | 51 | 2030 | 26 |
| 2030 | 226 | 2030 | 51 | 2030 | 51 | 2031 | 26 |
| 2031 | 226 | 2031 | 51 | 2032 | 51 | 2032 | 26 |
| 2032 | 220 | 2032 | 52 | 2033 | 52 | 2033 | 26 |
| 2033 | 227 | 2033 | 52 | 2033 | 52 | 2035 | 26 |
| 2034 | 227 | 2034 | 52 | 2035 | 52 | 2035 | 26 |
| 2035 | 228 | 2033 | 52 | 2035 | 52 | 2035 | 26 |
| 2036 | 228 | 2038 | 52 | 2030 | 52 | 2030 | 26 |
| | 229 | 2037 | 52 | 2037 | 52 | 2038 | 26 |
| 2038 2039 | 229 | 2038 | 52 | 2038 | 52 | 2038 | 26 |
| 2039 | 229 | 2039 | 52 | 2039 | 52 | 2035 | 26 |
| | | 2040 | 52 | 2040 | 52 | 2040 | 26 |
| 2041 | 230 | 2041 | 52 | 2041 | 52 | 2041 | 26 |
| 2042 | 231 | 2042 | 53 | 2042 | 53 | 2042 | 26 |
| 2043 2044 | 231 232 | 2043 | 53 | 2043 | 53 | 2043 | 26 |
| 2044 | 232 | 2044 | 53 | 2044 | 53 | 2044 | 26 |
| 2045 | 232 | 2045 | 53 | 2045 | 53 | 2045 | 26 |
| 2046 | 233 | 2040 | 53 | 2040 | 53 | 2040 | 26 |
| 2047 | 233 | 2047 | 53 | 2047 | 53 | 2048 | 27 |
| 2048 | 233 | 2048 | 53 | 2048 | 53 | 2048 | 27 |
| 2049 | 234 | 2049 | 53 | 2050 | 53 | 2050 | 27 |
| 2050 | 234 | 2050 | 53 | 2050 | 53 | 2051 | 27 |
| 2051 | 235 | 2051 | 53 | 2051 | 53 | 2052 | 27 |
| 2052 | 235 | 2052 | 54 | 2052 | 54 | 2053 | 27 |
| 2054 | 236 | 2053 | 54 | 2053 | 54 | 2054 | 27 |
| 2055 | 230 | 2054 | 54 | 2055 | 54 | 2055 | 27 |
| 2056 | 237 | 2055 | 54 | 2056 | 54 | 2056 | 27 |
| 2050 | 237 | 2050 | 54 | 2057 | 54 | 2057 | 27 |
| 2057 | 237 | 2057 | 54 | 2058 | 54 | 2058 | 27 |
| 2058 | 238 | 2058 | 54 | 2059 | 54 | 2059 | 27 |
| 2059 | 238 | 2053 | 54 | 2059 | 54 | 2055 | 27 |
| 2060 | 239 | 2000 | 54 | 2000 | 54 | 2061 | 27 |
| 2061 | 239 | 2061 | 54 | 2062 | 54 | 2062 | 27 |
| 2062 | 240 | 2062 | 55 | 2063 | 55 | 2062 | 27 |
| 2063 | 240 | 2063 | 55 | 2064 | 55 | 2064 | 27 |
| 2064 | 241 | 2065 | 55 | 2065 | 55 | 2065 | 27 |
| 2065 | 241 242 | 2065 | 55 | 2065 | 55 | 2065 | 27 |
| 2000 | 242 | 2000 | | 2000 | | | |

| Skyview | Dr. ADT | Clyd | e Rd. ADT | Eid Ro | . ADT | Cameron | Rd. ADT |
|---------|----------|------|-----------|--------|-------|---------|---------|
| Year | ADT | Year | ADT | Year | ADT | Year | ADT |
| 2017 | 25 | 2017 | 50 | 2017 | 65 | 2017 | 100 |
| 2018 | 25 | 2018 | 50 | 2018 | 65 | 2018 | 100 |
| 2019 | 25 | 2019 | 50 | 2019 | 65 | 2019 | 100 |
| 2020 | 26 | 2020 | 50 | 2020 | 65 | 2020 | 101 |
| 2021 | 26 | 2021 | 50 | 2021 | 65 | 2021 | 101 |
| 2022 | 26 | 2022 | 50 | 2022 | 66 | 2022 | 101 |
| 2023 | 26 | 2023 | 51 | 2023 | 66 | 2023 | 101 |
| 2024 | 27 | 2024 | 51 | 2024 | 66 | 2024 | 101 |
| 2025 | 27 | 2025 | 51 | 2025 | 66 | 2025 | 102 |
| 2026 | 27 | 2026 | 51 | 2026 | 66 | 2026 | 102 |
| 2027 | 27 | 2027 | 51 | 2027 | 66 | 2027 | 102 |
| 2028 | 28 | 2028 | 51 | 2028 | 66 | 2028 | 102 |
| 2029 | 28 | 2029 | 51 | 2029 | 67 | 2029 | 102 |
| 2030 | 28 | 2030 | 51 | 2030 | 67 | 2030 | 103 |
| 2031 | 28 | 2031 | 51 | 2031 | 67 | 2031 | 103 |
| 2032 | 29 | 2032 | 51 | 2032 | 67 | 2032 | 103 |
| 2033 | 29 | 2033 | 52 | 2033 | 67 | 2033 | 103 |
| 2035 | 29 | 2034 | 52 | 2034 | 67 | 2034 | 103 |
| 2035 | 29 | 2035 | 52 | 2035 | 67 | 2035 | 103 |
| 2035 | 30 | 2035 | 52 | 2036 | 67 | 2036 | 104 |
| 2030 | 30 | 2030 | 52 | 2037 | 68 | 2037 | 104 |
| 2037 | 30 | 2038 | 52 | 2038 | 68 | 2038 | 104 |
| 2038 | 30 31 | 2038 | 52 | 2030 | 68 | 2039 | 104 |
| 2035 | 31 | 2040 | 52 | 2040 | 68 | 2040 | 104 |
| 2040 | 31 | 2040 | 52 | 2041 | 68 | 2041 | 105 |
| 2041 | 31 | 2041 | 52 | 2041 | 68 | 2042 | 105 |
| 2042 | 32 | 2042 | 53 | 2042 | 68 | 2043 | 105 |
| 2043 | 32 | 2043 | 53 | 2044 | 68 | 2044 | 105 |
| 2044 | 32 | 2044 | 53 | 2045 | 69 | 2045 | 105 |
| 2045 | 33 | 2045 | 53 | 2046 | 69 | 2046 | 106 |
| 2040 | 33 | 2040 | 53 | 2047 | 69 | 2047 | 106 |
| 2047 | 33 | 2048 | 53 | 2048 | 69 | 2048 | 106 |
| 2048 | 33 | 2049 | 53 | 2049 | 69 | 2049 | 106 |
| 2050 | 34 | 2050 | 53 | 2050 | 69 | 2050 | 106 |
| 2050 | 34 | 2051 | 53 | 2051 | 69 | 2051 | 107 |
| 2052 | 34 | 2052 | 53 | 2052 | 69 | 2052 | 107 |
| 2052 | 35 | 2053 | 54 | 2053 | 70 | 2053 | 107 |
| 2054 | 35 | 2054 | 54 | 2054 | 70 | 2054 | 107 |
| 2054 | 35 | 2055 | 54 | 2055 | 70 | 2055 | 108 |
| 2056 | 36 | 2056 | 54 | 2056 | 70 | 2056 | 108 |
| 2057 | 36 | 2057 | 54 | 2057 | 70 | 2057 | 108 |
| 2058 | 36 | 2057 | 54 | 2058 | 70 | 2058 | 108 |
| 2059 | 37 | 2059 | 54 | 2059 | 70 | 2059 | 108 |
| 2060 | 37 | 2060 | 54 | 2060 | 71 | 2060 | 109 |
| 2061 | 37 | 2061 | 54 | 2061 | 71 | 2061 | 109 |
| 2062 | 38 | 2062 | 54 | 2062 | 71 | 2062 | 109 |
| 2062 | 38 | 2063 | 55 | 2063 | 71 | 2063 | 109 |
| 2064 | 38 | 2064 | 55 | 2064 | 71 | 2064 | 109 |
| 2065 | 39 | 2065 | 55 | 2065 | 71 | 2065 | 110 |
| 2066 | 39 | 2066 | 55 | 2066 | 71 | 2066 | 110 |

r.

| ADT | ADT Volume Projection Report | ne P | rojec | tion F | Repo | rt | | | | | | | |
|------------|------------------------------|---------|-----------------|-----------------|-------|---------|-----|------------------|----------------|--------|--------|-------------------|-------------------|
| | 71 | Route L | US095 | | | | | Traf | Traffic Data | 2010 | | | |
| | Segment From | _ | 1539 | Milepost From | From | 337.180 | | Start Projection | ojection | 2017 | | | |
| | Segment To | - | 1540 | Milepost To | st To | 342.930 | | End Pr | End Projection | 2037 | | | |
| | Segment | ment | Milepost | oost | | | | | | | | | |
| Year | From | To | From | То | AADT | CAADT | DHV | DHV % | CDHV | CDHV % | DIR | From Description | To Description |
| 2010 | 001539 | 001539 | 337.180 337.668 | 337,668 | 4,900 | 650 | 567 | 11.5 | 53 | 8.106 | 60/40% | THORN CREEK RD | END NEW ALIGNMENT |
| | 001540 | 001540 | 337.668 | 339.620 | 4,900 | 680 | 567 | 11.5 | 55 | 8.106 | 60/40% | END NEW ALIGNMENT | EID RD |
| | | | 339.620 | 342.930 | 5,300 | 089 | 611 | 11.5 | 55 | 8.071 | 60/40% | EID RD | |
| | 2010 | | Weighted | hted | 5,130 | 677 | 593 | 11.50 | 55 | 8.07 | | | |
| 2017 | 001539 | 001539 | 337.180 | 337.180 337.668 | 5,654 | 608 | 650 | 11.4 | 65 | 8.044 | 60/40% | THORN CREEK RD | END NEW ALIGNMENT |
| | 001540 | 001540 | 337.668 | 339,620 | 5,657 | 847 | 650 | 11.4 | 89 | 8.044 | 60/40% | END NEW ALIGNMENT | EID RD |
| | | | 339.620 | 342.930 | 6,113 | 847 | 700 | 11.4 | 89 | 8.014 | 60/40% | EID RD | |
| | 2017 | | Weighted | hted | 5,920 | 843 | 679 | 11.40 | 89 | 8.01 | | | |
| 2037 | 001539 | 001539 | 337.180 | 337,180 337,668 | 7,809 | 1,264 | 885 | 11.3 | 100 | 7.934 | 60/40% | THORN CREEK RD | END NEW ALIGNMENT |
| | 001540 | 001540 | 337.668 | 339.620 | 7,821 | 1,323 | 988 | 11.3 | 105 | 7.933 | 60/40% | END NEW ALIGNMENT | EID RD |
| | | | 339,620 | 342.930 | 8,437 | 1,323 | 954 | 11.3 | 105 | 7.912 | 60/40% | EID RD | |
| | 2037 | | Weighted | hted | 8,175 | 1,318 | 925 | 11.30 | 104 | 7.91 | | | |
| J 16, 2011 | | | | | | | | | | | | | |

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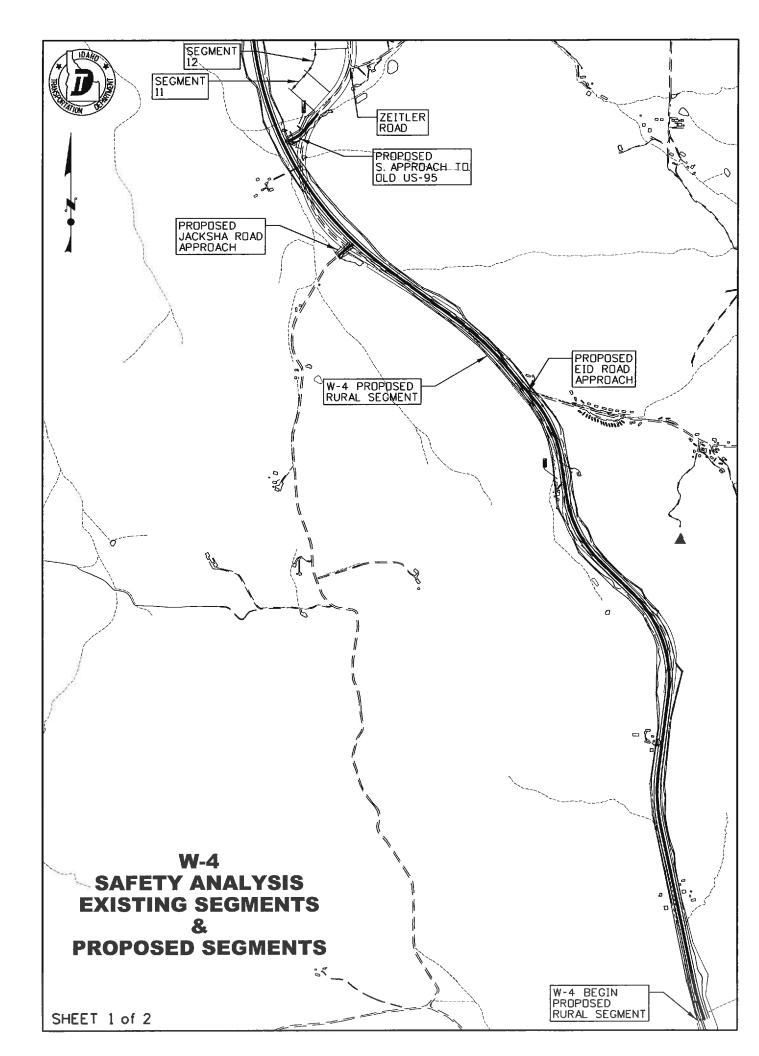
| | 2037 001540 342.933 | 2017 Weighted averages | 2017 001540 342.933 | 2010 Weighted averages | 2010 001540 001540 342.933 | Segment M Year From To From | Segment To 1540 | Segment From 1540 | Route US095 | AD1 Volume Projection Report |
|-------------------------|---------------------|------------------------|---------------------|------------------------|----------------------------|--------------------------------|---------------------|-----------------------|-------------------|------------------------------|
| | 33 344,116 | verages | 33 344.116 | verages | 33 344.116 | Milepost m To | Milepost To | Milepost From | | on Repo |
| 10,221 | 10,221 | 7,465 | 7,465 | 6,500 | 6,500. | AADT | ist To | | | F |
| 10,221 1,011 1,148 11.2 | 1,011 | 647 | 647 | 520 | 520 | CAADT | 344.11 | 342.93 | | |
| 1,148 | 1,148 | 848 | 848 | 742 | 742 | DHV | | | | |
| 11.2 | 11.2 | 848 11.3 | 11.3 | 742 11.4 | 11.4 | DHV | End P | Start Projection 2017 | Tra | |
| 80 | 80 | 51 | 51 | 42 | 42 | CDHV | End Projection 2037 | rojectio | Traffic Data 2010 | |
| 80 7.87 | 80 7.865 | 51 7.95 | 51 7.947 | 42 7.99 | 7.992 | HV CDHV | n 2037 | n 2017 | a 2010 | |
| | 60/40% | | 60/40% | | 60/40% | DIR | | | | |
| | 60/40% CLYDE RD | | 60/40% CLYDE RD | | CLYDE RD | From Description | | | | |
| | PALOUSE RIVER DR | | PALOUSE RIVER DR | | PALOUSE RIVER DR | To Description | | | | |

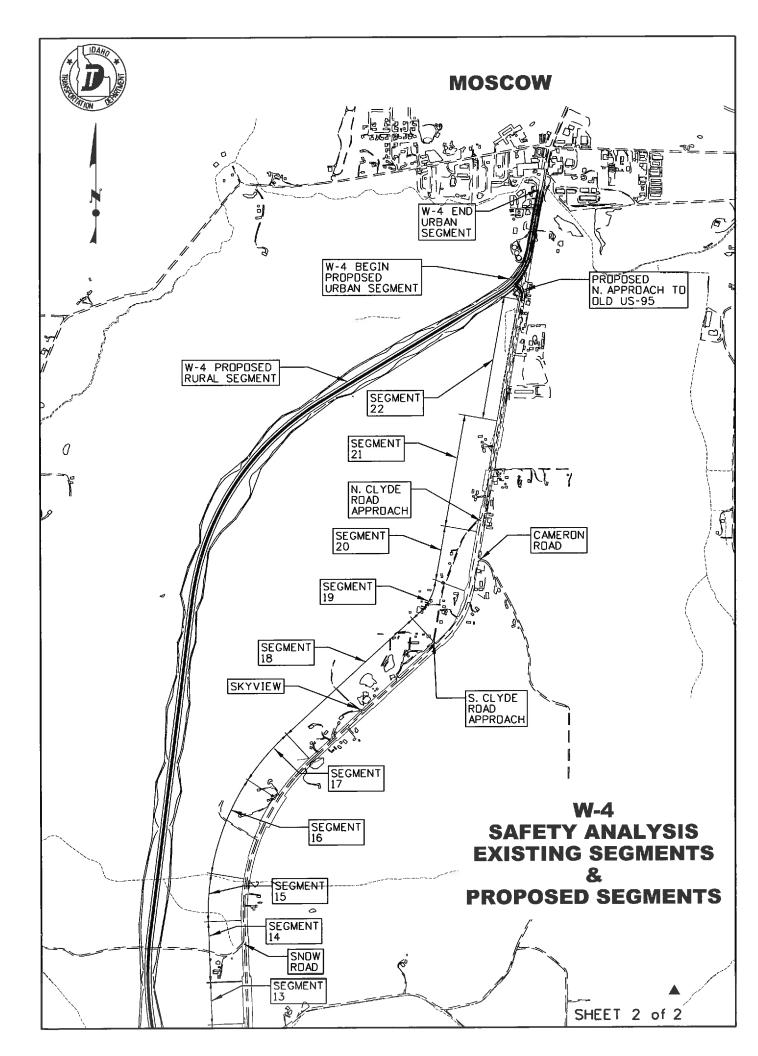
June 16, 2011

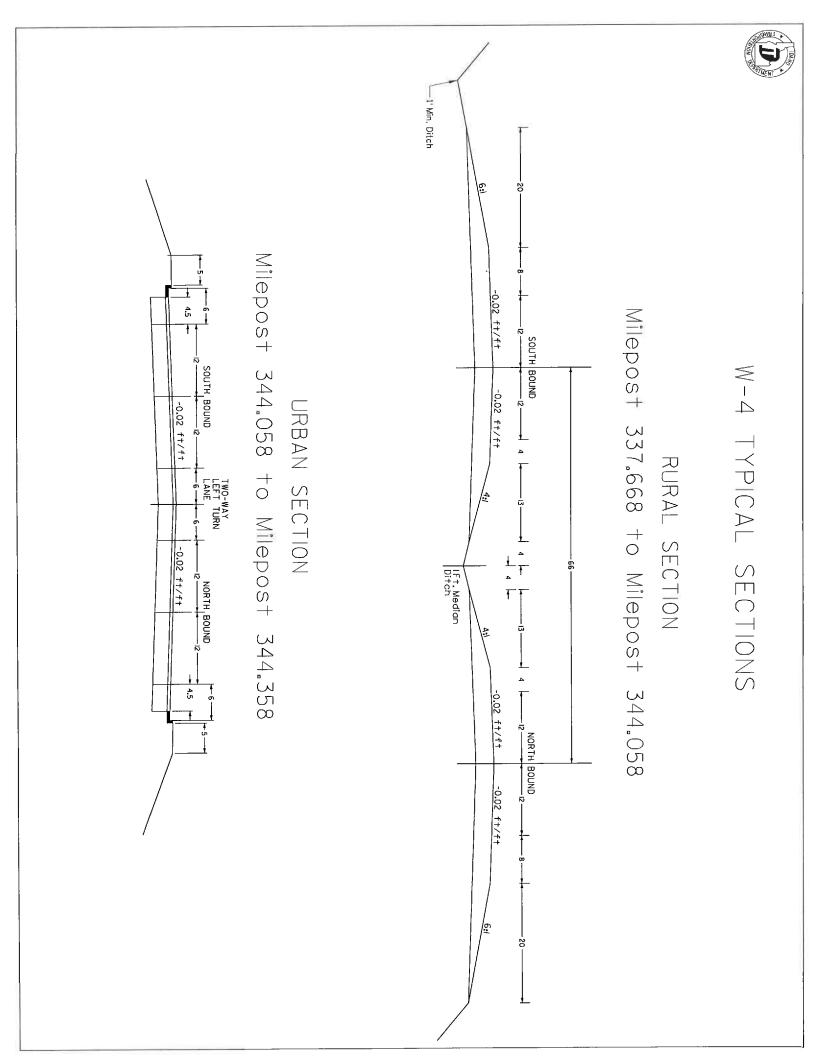
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Appendix C.3

Segment Breakdown, Proposed Typical Sections, and Predictions For Alternative W4







Predicted 2017 ADT for Proposed US-95 and County Roads for Safety Analysis

<u>Rural US-95</u> – **5920** From ITD Traffic Volume Report <u>Suburban US-95</u> – **7465** From ITD Traffic Volume Report <u>Eid Road</u> – **65** – From Current North Latah Highway District Plan <u>Jacksha Road</u> – **50** – Volume is predicted to be less than Eid Road Volume <u>Zeitler Road</u> – **50** – Volume is predicted to be less than Eid Road Volume <u>Snow Road</u> – **25** – Volume is predicted to be very light due to few residences <u>Skyview Drive</u> – **25** – The private drive currently services only 1 home <u>North Clyde Road</u> – **50** – Volume predicted to be less than Eid Road Volume <u>Cameron Road</u> – **100** – Volume predicted to be greater than other rural roads based on proximity to Moscow and the number of homes South Clyde Road – **50** – Volume of traffic predicted to be light and less than Eid Road Volume

Predicted 2017 ADT on Existing US-95 Loop If Alternative W4 Was Constructed

Segments 11-19-200 (For Predictions See Below)

18 Approaches generate 10 trips per day = 180 Zeitler Road = 50, Snow Road = 25, Skyline Drive = 25, Clyde Road South = 50 / Total = 150

Predict an Even Directional Split -(180+150)/2 = 165

Predict about 35 commuters that drive through on Old US-95 per day – 165 + 35 = 200

Segments 20-22 - 1545 from Differences in ITD Traffic Volume Report (7465 – 5920 = 1545)

Predicted Traffic Growth Rates

<u>Proposed US-95 Rural</u> – 1.63% From ITD Traffic Volume Report
<u>Proposed US-95 Suburban</u> – 1.58% From ITD Traffic Volume Report
<u>Segment 22 on Existing US-95 Loop</u> – 0.91% Growth Rate of Moscow from Latah County Comprehensive
Plan because the segment is within the area of impact of Moscow
<u>Segments 20,21 on Existing US-95 Loop</u> – 0.53% Growth Rate of Unincorporated Latah County from
Latah County Comprehensive Plan because the segments are near the area of impact of Moscow
<u>Segments 11-19</u> – 0.19% Growth Rate within the Thorncreek to Moscow Corridor based on Census
Bureau Data in the Thorncreek to Moscow – This is a new subdivision so growth is predicted to be
greater than other areas within the corridor
All County Roads Except Skyline Drive – 0.19% Growth Rate within the Thorncreek to Moscow Corridor based on Census

Assumed W4 ADTs

| W4 Ru | ral ADT | W4 Subu | rban ADT | W4 Segm | ent 22 ADT | W4 Segmer | 1t 21,20 ADT |
|-------|---------|---------|--------------|---------|------------|-----------|--------------|
| Year | ADT | Year | ADT | Year | ADT | Year | ADT |
| 2017 | 5920 | 2017 | 7465 | 2017 | 1545 | 2017 | 1545 |
| 2018 | 6016 | 2018 | 7583 | 2018 | 1559 | 2018 | 1553 |
| 2019 | 6114 | 2019 | 7703 | 2019 | 1573 | 2019 | 1561 |
| 2020 | 6214 | 2020 | 7825 | 2020 | 1588 | 2020 | 1570 |
| 2021 | 6315 | 2021 | 7949 | 2021 | 1602 | 2021 | 1578 |
| 2022 | 6417 | 2022 | 8075 | 2022 | 1617 | 2022 | 1586 |
| 2023 | 6522 | 2023 | 8203 | 2023 | 1631 | 2023 | 1594 |
| 2024 | 6628 | 2024 | 8333 | 2024 | 1646 | 2024 | 1603 |
| 2025 | 6736 | 2025 | 8465 | 2025 | 1661 | 2025 | 1611 |
| 2026 | 6845 | 2026 | 8599 | 2026 | 1677 | 2026 | 1620 |
| 2020 | 6957 | 2027 | 8735 | 2027 | 1692 | 2027 | 1628 |
| 2027 | 7070 | 2028 | 8873 | 2028 | 1707 | 2028 | 1637 |
| 2028 | 7185 | 2028 | 9014 | 2029 | 1723 | 2029 | 1646 |
| 2029 | 7302 | 2025 | 9157 | 2020 | 1738 | 2030 | 1654 |
| | 7421 | 2030 | 9302 | 2030 | 1754 | 2031 | 1663 |
| 2031 | 7541 | 2031 | 9502 9449 | 2031 | 1734 | 2031 | 1672 |
| 2032 | | | | 2032 | 1786 | 2032 | 1680 |
| 2033 | 7664 | 2033 | 9598 9750 | 2033 | 1803 | 2033 | 1689 |
| 2034 | 7789 | 2034 | | | | 2034 | 1698 |
| 2035 | 7915 | 2035 | 9905 | 2035 | 1819 | | |
| 2036 | 8044 | 2036 | 10062 | 2036 | 1836 | 2036 | 1707 |
| 2037 | 8175 | 2037 | 10221 | 2037 | 1853 | 2037 | 1716 |
| 2038 | 8308 | 2038 | 10383 | 2038 | 1869 | 2038 | 1725 |
| 2039 | 8443 | 2039 | 10547 | 2039 | 1886 | 2039 | 1734 |
| 2040 | 8581 | 2040 | 10714 | 2040 | 1904 | 2040 | 1743 |
| 2041 | 8720 | 2041 | 10884 | 2041 | 1921 | 2041 | 1753 |
| 2042 | 8862 | 2042 | 11056 | 2042 | 1939 | 2042 | 1762 |
| 2043 | 9006 | 2043 | 11231 | 2043 | 1956 | 2043 | 1771 |
| 2044 | 9153 | 2044 | 11409 | 2044 | 1974 | 2044 | 1780 |
| 2045 | 9302 | 2045 | 11590 | 2045 | 1992 | 2045 | 1790 |
| 2046 | 9453 | 2046 | 11773 | 2046 | 2010 | 2046 | 1799 |
| 2047 | 9607 | 2047 | 11960 | 2047 | 2029 | 2047 | 1809 |
| 2048 | 9763 | 2048 | 12149 | 2048 | 2047 | 2048 | 1818 |
| 2049 | 9922 | 2049 | 12342 | 2049 | 2066 | 2049 | 1828 |
| 2050 | 10083 | 2050 | 12537 | 2050 | 2085 | 2050 | 1837 |
| 2051 | 10247 | 2051 | 12736 | 2051 | 2104 | 2051 | 1847 |
| 2052 | 10414 | 2052 | 12937 | 2052 | 2123 | 2052 | 1857 |
| 2053 | 10583 | 2053 | 13142 | 2053 | 2142 | 2053 | 1867 |
| 2054 | 10755 | 2054 | 13350 | 2054 | 2162 | 2054 | 1876 |
| 2055 | 10930 | 2055 | 13562 | 2055 | 2181 | 2055 | 1886 |
| 2056 | 11108 | 2056 | 13776 | 2056 | 2201 | 2056 | 1896 |
| 2057 | 11289 | 2057 | 13994 | 2057 | 2221 | 2057 | 1906 |
| 2058 | 11473 | 2058 | 14216 | 2058 | 2242 | 2058 | 1916 |
| 2059 | 11659 | 2059 | 14441 | 2059 | 2262 | 2059 | 1926 |
| 2060 | 11849 | 2060 | 14670 | 2060 | 2283 | 2060 | 1937 |
| 2061 | 12042 | 2061 | 14902 | 2061 | 2303 | 2061 | 1947 |
| 2062 | 12238 | 2062 | 15138 | 2062 | 2324 | 2062 | 1957 |
| 2063 | 12437 | 2063 | 15378 | 2063 | 2346 | 2063 | 1967 |
| 2064 | 12639 | 2064 | 15621 | 2064 | 2367 | 2064 | 1978 |
| 2065 | 12845 | 2065 | 15869 | 2065 | 2389 | 2065 | 1988 |
| 2066 | 13054 | 2066 | 16120 | 2066 | 2410 | 2066 | 1999 |

Assumed W4 Old US-95 ADTs

| Old US | -95 ADT | Jacksha | Rd. ADT | | Zeitler | Rd. ADT | | Snow F | d. ADT |
|--------|---------|---------|---------|---|--------------|----------|---|--------------|----------|
| Year | ADT | Year | ADT | | Year | ADT | | Year | ADT |
| 2017 | 200 | 2017 | 50 | | 2017 | 50 | | 2017 | 25 |
| 2018 | 200 | 2018 | 50 | | 2018 | 50 | | 2018 | 25 |
| 2019 | 201 | 2019 | 50 | | 2019 | 50 | | 2019 | 25 |
| 2020 | 201 | 2020 | 50 | | 2020 | 50 | | 2020 | 25 |
| 2021 | 202 | 2021 | 50 | | 2021 | 50 | | 2021 | 25 |
| 2022 | 202 | 2022 | 50 | | 2022 | 50 | | 2022 | 25 |
| 2023 | 202 | 2023 | 51 | | 2023 | 51 | | 2023 | 25 |
| 2024 | 203 | 2024 | 51 | | 2024 | 51 | | 2024 | 25 |
| 2025 | 203 | 2025 | 51 | | 2025 | 51 | | 2025 | 25 |
| 2026 | 203 | 2026 | 51 | | 2026 | 51 | | 2026 | 25 |
| 2020 | 203 | 2027 | 51 | | 2027 | 51 | | 2027 | 25 |
| 2028 | 204 | 2028 | 51 | | 2028 | 51 | | 2028 | 26 |
| 2028 | 204 | 2029 | 51 | | 2029 | 51 | | 2029 | 26 |
| 2029 | 205 | 2020 | 51 | | 2030 | 51 | | 2030 | 26 |
| 2030 | 205 | 2030 | 51 | | 2030 | 51 | | 2031 | 26 |
| 2031 | 203 | 2031 | 51 | | 2031 | 51 | | 2031 | 26 |
| 2032 | 206 | 2032 | 52 | | 2032 | 52 | | 2032 | 26 |
| 2033 | 208 | 2033 | 52 | | 2033 | 52 | | 2035 | 26 |
| 2034 | 207 | 2034 | 52 | | 2034 | 52 | | 2034 | 26 |
| | 1 1 | 2035 | 52 | | 2035 | 52 | | 2035 | 26 |
| 2036 | 207 | | | | 2036 | 52 | | 2030 | 26 |
| 2037 | 208 | 2037 | 52 | | | 52 52 | | 2037 | 26 |
| 2038 | 208 | 2038 | 52 | | 2038 | | | 2038 | |
| 2039 | 209 | 2039 | 52 | | 2039 | 52 | | 2039 | 26 |
| 2040 | 209 | 2040 | 52 | | 2040 | 52 | | | 26 |
| 2041 | 209 | 2041 | 52 | | 2041 | 52 | | 2041 | 26 |
| 2042 | 210 | 2042 | 52 | | 2042 | 52 | | 2042 | 26 |
| 2043 | 210 | 2043 | 53 | | 2043 | 53 | | 2043 | 26 |
| 2044 | 211 | 2044 | 53 | | 2044 | 53 | | 2044 | 26 |
| 2045 | 211 | 2045 | 53 | | 2045 | 53 | | 2045 | 26 |
| 2046 | 211 | 2046 | 53 | | 2046 | 53 | | 2046 | 26 |
| 2047 | 212 | 2047 | 53 | | 2047 | 53 | | 2047 2048 | 26 |
| 2048 | 212 | 2048 | 53 | | 2048 | 53 | | 2048 2049 | 27 |
| 2049 | 213 | 2049 | 53 | | 2049 | 53 52 | | 2049 | 27 27 |
| 2050 | 213 | 2050 | 53 | | 2050 | 53 | • | 2050 | 27 |
| 2051 | 213 | 2051 | 53 | | 2051 | 53 | | | 27 |
| 2052 | 214 | 2052 | 53 | | 2052 | 53 | İ | 2052 | |
| 2053 | 214 | 2053 | 54 | | 2053 2054 | 54 54 | | 2053 2054 | 27 27 |
| 2054 | 215 | 2054 | 54 | | | | | | |
| 2055 | 215 | 2055 | 54 | | 2055 | 54 | | 2055 | 27 7 |
| 2056 | 215 | 2056 | 54 | | 2056 | 54 | | 2056 | 27 |
| 2057 | 216 | 2057 | 54 | | 2057 | 54 | | 2057 | 27 |
| 2058 | 216 | 2058 | 54 | | 2058 | 54 | | 2058 | 27 |
| 2059 | 217 | 2059 | 54 | | 2059 | 54 | | 2059 | 27 |
| 2060 | 217 | 2060 | 54 | | 2060 | 54 54 | | 2060 | 27 |
| 2061 | 217 | 2061 | 54 | | 2061 | 54 | | 2061 | 27 |
| 2062 | 218 | 2062 | 54 | | 2062 | 54 | | 2062 | 27 |
| 2063 | 218 | 2063 | 55 | | 2063 | 55 | | 2063 | 27 |
| 2064 | 219 | 2064 | 55 | 1 | 2064 | 55 | | 2064 | 27 |
| 2065 | 219 | 2065 | 55 | | 2065 | 55 | | 2065 | 27 |
| 2066 | 220 | 2066 | 55 | | 2066 | 55 | | 2066 | 27 |

| Skyview | Dr. ADT | Civde I | Rd. ADT | | Eid Ro | I. ADT | Cameron | Rd. ADT |
|--------------|----------|--------------|-----------|-----|--------------|----------|--------------|------------|
| Үеаг | ADT | Year | ADT | [] | Year | ADT | Year | ADT |
| 2017 | 25 | 2017 | 50 | | 2017 | 65 | 2017 | 100 |
| 2018 | 25 | 2018 | 50 | | 2018 | 65 | 2018 | 100 |
| 2019 | 25 | 2019 | 50 | | 2019 | 65 | 2019 | 100 |
| 2020 | 26 | 2020 | 50 | | 2020 | 65 | 2020 | 101 |
| 2021 | 26 | 2021 | 50 | | 2021 | 65 | 2021 | 101 |
| 2022 | 26 | 2022 | 50 | | 2022 | 66 | 2022 | 101 |
| 2023 | 26 | 2023 | 51 | | 2023 | 66 | 2023 | 101 |
| 2024 | 27 | 2024 | 51 | | 2024 | 66 | 2024 | 101 |
| 2025 | 27 | 2025 | 51 | | 2025 | 66 | 2025 | 102 |
| 2026 | 27 | 2026 | 51 | | 2026 | 66 | 2026 | 102 |
| 2027 | 27 | 2027 | 51 | | 2027 | 66 | 2027 | 102 |
| 2028 | 28 | 2028 | 51 | | 2028 | 66 | 2028 | 102 |
| 2029 | 28 | 2029 | 51 | | 2029 | 67 | 2029 | 102 |
| 2030 | 28 | 2030 | 51 | | 2030 | 67 | 2030 | 103 |
| 2031 | 28 | 2031 | 51 | | 2031 | 67 | 2031 | 103 |
| 2032 | 29 | 2032 | 51 | | 2032 | 67 | 2032 | 103 |
| 2033 | 29 | 2033 | 52 | | 2033 | 67 | 2033 | 103 |
| 2034 | 29 | 2034 | 52 | | 2034 | 67 | 2034 | 103 |
| 2035 | 29 | 2035 | 52 | | 2035 | 67 | 2035 | 103 |
| 2036 | 30 | 2036 | 52 | | 2036 | 67 | 2036 | 104 |
| 2037 | 30 | 2037 | 52 | | 2037 | 68 | 2037 | 104 |
| 2038 | 30 | 2038 | 52 | | 2038 | 68 | 2038 | 104 |
| 2039 | 31 | 2039 | 52 | | 2039 | 68 | 2039 | 104 |
| 2040 | 31 | 2040 | 52 | | 2040 | 68 | 2040 | 104 |
| 2041 | 31 | 2041 | 52 | | 2041 | 68 | 2041 | 105 |
| 2042 | 31 | 2042 | 52 | | 2042 | 68 | 2042 | 105 |
| 2043 | 32 | 2043 | 53 | | 2043 | 68 | 2043 | 105 |
| 2044 | 32 | 2044 | 53 | | 2044 | 68 | 2044 | 105 |
| 2045 | 32 | 2045 | 53 | | 2045 | 69 | 2045 | 105 |
| 2046 | 33 | 2046 | 53 | | 2046 | 69 | 2046 | 106 |
| 2047 | 33 | 2047 | 53 | | 2047 | 69 | 2047 | 106 |
| 2048 | 33 | 2048 | 53 | | 2048 | 69 | 2048 | 106 |
| 2049 | 33 | 2049 | 53 | | 2049 | 69 | 2049 | 106 |
| 2050 | 34 | 2050 | 53 | | 2050 | 69 | 2050 | 106 |
| 2051 | 34 | 2051 | 53 | | 2051 | 69 | 2051 | 107 |
| 2052 | 34 | 2052 | 53 | | 2052 | 69 | 2052 | 107 |
| 2053 | 35 | 2053 | 54 | | 2053 | 70 | 2053 | 107 |
| 2054 | 35 | 2054 | 54 | | 2054 | 70 | 2054 | 107 |
| 2055 | 35 | 2055 | 54 | | 2055 | 70 | 2055 | 108 |
| 2056 | 36 | 2056 | 54 | | 2056 | 70 | 2056 | 108 |
| 2057 | 36 | 2057 | 54 | | 2057 | 70 | 2057 | 108 |
| 2058 | 36 | 2058 | 54 | | 2058 | 70 | 2058 | 108 |
| 2059 | 37 | 2059 | 54 | | 2059 | 70 | 2059 | 108 |
| 2060 | 37 | 2060 | 54 | | 2060 | 71 | 2060 | 109 |
| 2061 | 37 | 2061 | 54 54 | | 2061 | 71 | 2061 | 109 109 |
| 2062 | 38 | 2062 | 54 | | 2062 | 71 71 | 2062 | 109 |
| 2063 | 38 | 2063 | 55 | | 2063 | 71 71 | 2063 | 109 109 |
| 2064 | 38 | 2064 2065 | 55 | | 2064 2065 | 71 71 | 2064 2065 | 109 110 |
| 2065 2066 | 39 39 | 2065 | 55 55 | | 2065 | 71 | 2065 | 110 |
| 2000 | 59 | 2000 | <u>در</u> | | 2000 | /1 | 2000 | 110 |

| J 16, 2011 | | | | 2037 | | | | 2017 | | | | 2010 | Year | | | | | ADT |
|---|----------|---------|-------------------|-------------------|----------|---------|-------------------|-------------------|----------|---------|-------------------|-------------------|------------------|----------|---------------------|------------------|--------------|------------------------------|
| 5 | 2037 | | 001540 | 001539 | 2017 | | 001540 | 001539 | 2010 | | 001540 | 001539 | From | Segment | Segment To | Segment From | п | ADT Volume Projection Report |
| | | | 001540 | 001539 | | | 001540 | 001539 | | | 001540 | 001539 | 5 | nent | | | Route | ne P |
| | Weig | 339.620 | 337.668 | 337.180 | Weig | 339.620 | 337.668 | 337.180 | Weig | 339.620 | 337.668 | 337.180 | From | Mile | 1540 | 1539 | US095 | rojec |
| | Weighted | 342.930 | 339.620 | 337.180 337.668 | Weighted | 342.930 | 339.620 | 337.180 337.668 | Weighted | 342.930 | 339.620 | 337.180 337.668 | ъ | Milepost | Milep | Milepost From | | tion |
| | 8,175 | 8,437 | 7,821 | 7,809 | 5,920 | 6,113 | 5,657 | 5,654 | 5,130 | 5,300 | 4,900 | 4,900 | AADT | | Milepost To | t From | | Repo |
| | 1.3 | | 1 | 1, | | | | | 0 | | | | CAADT | | 342.930 | 337.180 | | ň |
| | 1,318 | 1,323 | 1,323 | 1,264 | 843 (| 847 | 847 | 809 | 677 (| 680 | 680 | 650 | DHV | | ö | ö | | |
| | 925 | 954 | 886 | 885 | 679 | 700 | 650 | 650 | 593 | 611 | 567 | 567 | | | | | | |
| | 11.30 | 11.3 | 11.3 | 11.3 | 11.40 | 11.4 | 11.4 | 11.4 | 11.50 | 11.5 | 11.5 | 11.5 | DHV % (| | End Projection 2037 | Start Projection | Traf | |
| | 104 | 105 | 105 | 100 | 89 | 68 | 68 | 65 | 55 | 55 | 55 | 53 | CDHV | | ojectior | ojectior | Traffic Data | |
| in the second | 7.91 | 7.912 | 7.933 | 7.934 | 8.01 | 8.014 | 8.044 | 8.044 | 8.07 | 8.071 | 8.106 | 8.106 | CDHV % | | 1 2037 | | 1 2010 | |
| 5 | | 60/40% | 60/40% | 60/40% | | 60/40% | 60/40% | 60/40% | | 60/40% | 60/40% | 60/40% | DIR | | | | | |
| : | | EID RD | END NEW ALIGNMENT | THORN CREEK RD | | EID RD | END NEW ALIGNMENT | THORN CREEK RD | | EID RD | END NEW ALIGNMENT | THORN CREEK RD | From Description | | | | | |
| Page 1 of 1 | | | EID RD | END NEW ALIGNMENT | | | EID RD | END NEW ALIGNMENT | | | EID RD | END NEW ALIGNMENT | To Description | | | | | Ĩ |

| DT V 2010 | Olume Pr Route Segment From Segment To From To 001540 001540 | ume Project Route US095 syment From 1540 Segment To 1540 Segment From To Fro | ADT Volume Projection Report Route US095 Segment From 1540 Milepost Fro Segment To 1540 Milepost Year From To From To Av 2010 001540 342.933 344.116 | ion Report Milepost From 342.93 Milepost To 344.11 Milepost <u>To AADT CAAD</u> 2.933 344.116 6,500. 5 | eport lepost From 342.93 Milepost To 344.11 <u>A.116 6,500</u> <u>6</u> | 342.93 344.11 CAADT 520 | DHV 742 | Tra Start P End P <u>11.4</u> | affic Da Projecti Project | <u> </u> | Traffic Data 2010 rt Projection 2017 d Projection 2037 d CDHV CDHV .4 42 7.992 | | 81 |
|--------------|---|---|---|---|--|----------------------------------|------------|--|---------------------------------|---------------|--|-----------------|----|
| 00154 | 00154 | 5 0 | 0 342.933 344 Weighted averages | 344.116 rages | 6,500. 6,500 | | 742 742 | 11.4 | | 7.992 7.99 | 60/40% | CLYDE RD | |
| | | 001540 | 342.933 | 344.116 | 7,465 | 647 | 848 | 11.3 | 5 | 51 7.947 | | 60/40% CLYDE RD | |
| | 2017 | × | Weighted averages | rages | 7,465 | 647 | 848 | 11.3 | 51 | 7.95 | | | |
| | | 001540 | 342.933 | 344.116 | 10,221 | 1,011 | 1,148 | 11.2 | 80 | 80 7.865 | 60/40% | 60/40% CLYDE RD | ō |
| 1 | 2037 | 5 | Weighted averages | brages | 10,221 | 10,221 1,011 1,148 11.2 | 1,148 | 11.2 | 80 | 80 7.87 | | | |

June 16, 2011

Appendix D

Economic Cost of Crashes

- Economic Cost of Predicted Crashes on Alternative E2
- Economic Cost of Predicted Crashes on Alternative C3
- Economic Cost of Predicted Crashes on Alternative E4
- Economic Cost of Predicted Crashes No Action Alternative
 - Economic Cost Relating to Wild Animal Crashes
- Percentages and Factors Used to Determine Economic Costs of Alternatives and Wild Animal Crashes

Economic Cost of Predicted Crashes on Alternative E2

| Total Predicted Crashes on Alternative E2: | 179.5 |
|---|-------|
| Total Predicted Fatal and Injury Crashes on Alternative E2: | 89 |

| | Estimated | Economic Cos | t of Crashes on | Alternative E2 Between | 2017 and 2036 | |
|-----------------|-----------|--------------------------|----------------------------|------------------------|------------------------------|-----------------|
| Crash Type | Crashes | Percentage of Crashes | Multiple Car Multiplier | Fatalities or Injuries | 2012 FHWA Cost of Crashes | Total Cost |
| Fatality | 1.93 | 1.1% | 1.09 | 2.11 | \$6,295,406 | \$13,252,566.19 |
| Type A | 11.88 | 6.6% | 1.24 | 14.73 | \$313,516 | \$4,619,050.04 |
| Туре В | 29.39 | 16.4% | 1.33 | 39.09 | \$87,814 | \$3,432,278.16 |
| Type C | 45.81 | 25.5% | 1.56 | 71.46 | \$58,209 | \$4,159,670.32 |
| Property Damage | 90.5 | 50.4% | 1.00 | 0.00 | \$6,739 | \$609,879.50 |
| Total: | 179.5 | 100.0% | | | | \$26,073,444.21 |

| Total Predicted Crashes on Alternative E2 and US-95 Loop: | 213.9 |
|--|-------|
| Total Predicted Fatal and Injury Crashes on Alternative E2 and US-95 Loop: | 100.7 |

| Estimate | d Economic | Cost of Crashe | es on Alternati | ve E2 and the US-95 Loop | Between 2017 and | 2036 |
|-----------------|------------|--------------------------|----------------------------|--------------------------|------------------------------|-----------------|
| Crash Type | Crashes | Percentage of Crashes | Multiple Car Multiplier | Fatalities or Injuries | 2012 FHWA Cost of Crashes | Total Cost |
| Fatality | 2.19 | 1.0% | 1.09 | 2.38 | \$6,295,406 | \$14,994,757.48 |
| Type A | 13.44 | 6.3% | 1.24 | 16.67 | \$313,516 | \$5,226,273.47 |
| Type B | 33.25 | 15.5% | 1.33 | 44.22 | \$87,814 | \$3,883,487.76 |
| Type C | 51.83 | 24.2% | 1.56 | 80.86 | \$58,209 | \$4,706,503.39 |
| Property Damage | 113.2 | 52.9% | 1.00 | 0.00 | \$6,739 | \$762,854.80 |
| Total: | 213.9 | 100.0% | | | | \$29,573,876.90 |

Economic Cost of Predicted Crashes on Alternative E2

| Total Predicted Crashes on Alternative E2: | 7.6 |
|---|-----|
| Total Predicted Fatal and Injury Crashes on Alternative E2: | 3.8 |

| | Est | timated Econo | omic Cost of Cra | shes on Alternative E2 Fe | or 2017 | |
|-----------------|----------------------|--------------------------|----------------------------|-------------------------------------|------------------------------|----------------|
| Crash Type | Predicted Crashes | Percentage of Crashes | Multiple Car Multiplier | Predicted Fatalities or Injuries | 2012 FHWA Cost of Crashes | Total Cost |
| Fatality | 0.08 | 1.1% | 1.09 | 0.09 | \$6,295,406 | \$565,839.90 |
| Type A | 0.51 | 6.7% | 1.24 | 0.63 | \$313,516 | \$197,217.87 |
| Type B | 1.25 | 16.5% | 1.33 | 1.67 | \$87,814 | \$146,546.71 |
| Type C | 1.96 | 25.7% | 1.56 | 3.05 | \$58,209 | \$177,603.90 |
| Property Damage | 3.8 | 50.0% | 1.00 | 0.00 | \$6,739 | \$25,608.20 |
| Total: | 7.6 | 100.0% | | | | \$1,112,816.58 |

| Total Predicted Crashes on Alternative E2 and US-95 Loop: | 9.2 |
|--|-----|
| Total Predicted Fatal and Injury Crashes on Alternative E2 and US-95 Loop: | 4.4 |

| | Estimated Economic Cost of Crashes on Alternative E2 and the US-95 Loop For 2017 | | | | | | | | |
|-----------------|--|--------------------------|----------------------------|-------------------------------------|------------------------------|----------------|--|--|--|
| Crash Type | Predicted Crashes | Percentage of Crashes | Multiple Car Multiplier | Predicted Fatalities or Injuries | 2012 FHWA Cost of Crashes | Total Cost | | | |
| Fatality | 0.10 | 1.0% | 1.09 | 0.10 | \$6,295,406 | \$655,183.05 | | | |
| Type A | 0.59 | 6.4% | 1.24 | 0.73 | \$313,516 | \$228,357.53 | | | |
| Type B | 1.45 | 15.8% | 1.33 | 1.93 | \$87,814 | \$169,685.66 | | | |
| Type C | 2.26 | 24.6% | 1.56 | 3.53 | \$58,209 | \$205,646.62 | | | |
| Property Damage | 4.8 | 52.2% | 1.00 | 0.00 | \$6,739 | \$32,347.20 | | | |
| Total: | 9.2 | 100.0% | | | | \$1,291,220.06 | | | |

Economic Cost of Predicted Crashes on Alternative C3

| Total Predicted Crashes on Alternative C3: | 253.8 |
|---|-------|
| Total Predicted Fatal and Injury Crashes on Alternative C3: | 107.7 |

| | Estimated | Economic Cos | t of Crashes or | Alternative C3 Between | 2017 and 2036 | |
|-----------------|-----------|--------------------------|----------------------------|------------------------|------------------------------|-----------------|
| Crash Type | Crashes | Percentage of Crashes | Multiple Car Multiplier | Fatalities or Injuries | 2012 FHWA Cost of Crashes | Total Cost |
| Fatality | 2.3694 | 0.9% | 1.09 | 2.58 | \$6,295,406 | \$16,258,805.12 |
| Type A | 14.70105 | 5.7% | 1.24 | 18.23 | \$313,516 | \$5,715,177.85 |
| Type B | 36.34875 | 14.2% | 1.33 | 48.34 | \$87,814 | \$4,245,265.75 |
| Type C | 56.6502 | 22.1% | 1.56 | 88.37 | \$58,209 | \$5,144,180.33 |
| Property Damage | 146.1 | 57.0% | 1.00 | 0.00 | \$6,739 | \$984,567.90 |
| Total: | 256.1694 | 100.0% | | | | \$32,347,996.94 |

| Total Predicted Crashes on Alternative C3 and US-95 Loop: | 260.2 |
|--|-------|
| Total Predicted Fatal and Injury Crashes on Alternative C3 and US-95 Loop: | 110 |

| Estimate | Estimated Economic Cost of Crashes on Alternative C3 and the US-95 Loop Between 2017 and 2036 | | | | | | | | |
|-----------------|---|--------------------------|----------------------------|------------------------|------------------------------|-----------------|--|--|--|
| Crash Type | Crashes | Percentage of Crashes | Multiple Car Multiplier | Fatalities or Injuries | 2012 FHWA Cost of Crashes | Total Cost | | | |
| Fatality | 2.42 | 0.9% | 1.09 | 2.64 | \$6,295,406 | \$16,606,021.95 | | | |
| Туре А | 15.015 | 5.7% | 1.24 | 18.62 | \$313,516 | \$5,837,229.00 | | | |
| Type B | 37.125 | 14.1% | 1.33 | 49.38 | \$87,814 | \$4,335,926.02 | | | |
| Туре С | 57.86 | 22.0% | 1.56 | 90.26 | \$58,209 | \$5,254,037.47 | | | |
| Property Damage | 150.2 | 57.2% | 1.00 | 0.00 | \$6,739 | \$1,012,197.80 | | | |
| Total: | 262.62 | 100.0% | | | | \$33,045,412.24 | | | |

Economic Cost of Predicted Crashes on Alternative C3

| Total Predicted Crashes on Alternative C3: | 10.8 |
|---|------|
| Total Predicted Fatal and Injury Crashes on Alternative C3: | 4.6 |

| | Estimated Economic Cost of Crashes on Alternative C3 For 2017 | | | | | | | | |
|-----------------|---|--------------------------|----------------------------|-------------------------------------|------------------------------|----------------|--|--|--|
| Crash Type | Predicted Crashes | Percentage of Crashes | Multiple Car Multiplier | Predicted Fatalities or Injuries | 2012 FHWA Cost of Crashes | Total Cost | | | |
| Fatality | 0.1012 | 0.9% | 1.09 | 0.11 | \$6,295,406 | \$694,433.65 | | | |
| Type A | 0.6279 | 5.8% | 1.24 | 0.78 | \$313,516 | \$244,102.30 | | | |
| Type B | 1.5525 | 14.2% | 1.33 | 2.06 | \$87,814 | \$181,320.54 | | | |
| Туре С | 2.4196 | 22.2% | 1.56 | 3.77 | \$58,209 | \$219,714.29 | | | |
| Property Damage | 6.2 | 56.9% | 1.00 | 0.00 | \$6,739 | \$41,781.80 | | | |
| Total: | 10.9012 | 100.0% | | | | \$1,381,352.59 | | | |

| Total Predicted Crashes on Alternative C3 and US-95 Loop: | 11.1 |
|--|------|
| Total Predicted Fatal and Injury Crashes on Alternative C3 and US-95 Loop: | 4.7 |

| Estimated Economic Cost of Crashes on Alternative C3 and the US-95 Loop For 2017 | | | | | | | | |
|--|----------------------|--------------------------|----------------------------|-------------------------------------|------------------------------|----------------|--|--|
| Crash Type | Predicted Crashes | Percentage of Crashes | Multiple Car Multiplier | Predicted Fatalities or Injuries | 2012 FHWA Cost of Crashes | Total Cost | | |
| Fatality | 0.1034 | 0.9% | 1.09 | 0.11 | \$6,295,406 | \$709,530.03 | | |
| Type A | 0.64155 | 5.7% | 1.24 | 0.80 | \$313,516 | \$249,408.88 | | |
| Type B | 1.58625 | 14.2% | 1.33 | 2.11 | \$87,814 | \$185,262.29 | | |
| Type C | 2.4722 | 22.1% | 1.56 | 3.86 | \$58,209 | \$224,490.69 | | |
| Property Damage | 6.4 | 57.1% | 1.00 | 0.00 | \$6,739 | \$43,129.60 | | |
| Total: | 11.2034 | 100.0% | | | | \$1,411,821.49 | | |

Economic Cost of Predicted Crashes on Alternative W4

| Total Predicted Crashes on Alternative W4: | 219.3 |
|---|-------|
| Total Predicted Fatal and Injury Crashes on Alternative W4: | 107.7 |

| Estimated Economic Cost of Crashes on Alternative W4 Between 2017 and 2036 | | | | | | | |
|--|----------|--------------------------|----------------------------|------------------------|------------------------------|-----------------|--|
| Crash Type | Crashes | Percentage of Crashes | Multiple Car Multiplier | Fatalities or Injuries | 2012 FHWA Cost of Crashes | Total Cost | |
| Fatality | 2.3694 | 1.1% | 1.09 | 2.58 | \$6,295,406 | \$16,258,805.12 | |
| Type A | 14.70105 | 6.6% | 1.24 | 18.23 | \$313,516 | \$5,715,177.85 | |
| Type B | 36.34875 | 16.4% | 1.33 | 48.34 | \$87,814 | \$4,245,265.75 | |
| Type C | 56.6502 | 25.6% | 1.56 | 88.37 | \$58,209 | \$5,144,180.33 | |
| Property Damage | 111.6 | 50.3% | 1.00 | 0.00 | \$6,739 | \$752,072.40 | |
| Total: | 221.6694 | 100.0% | | | | \$32,115,501.44 | |

Total Predicted Crashes on Alternative W4 and US-95 Loop:246.2Total Predicted Fatal and Injury Crashes on Alternative W4 and US-95 Loop:116.9

| Estimate | Estimated Economic Cost of Crashes on Alternative W4 and the US-95 Loop Between 2017 and 2036 | | | | | | | | |
|-----------------|---|--------------------------|----------------------------|------------------------|------------------------------|-----------------|--|--|--|
| Crash Type | Crashes | Percentage of Crashes | Multiple Car Multiplier | Fatalities or Injuries | 2012 FHWA Cost of Crashes | Total Cost | | | |
| Fatality | 2.5718 | 1.0% | 1.09 | 2.80 | \$6,295,406 | \$17,647,672.41 | | | |
| Type A | 15.95685 | 6.4% | 1.24 | 19.79 | \$313,516 | \$6,203,382.45 | | | |
| Type B | 39.45375 | 15.9% | 1.33 | 52.47 | \$87,814 | \$4,607,906.83 | | | |
| Type C | 61.4894 | 24.7% | 1.56 | 95.92 | \$58,209 | \$5,583,608.92 | | | |
| Property Damage | 129.3 | 52.0% | 1.00 | 0.00 | \$6,739 | \$871,352.70 | | | |
| Total: | 248.7718 | 100.0% | | | | \$34,913,923.31 | | | |

Economic Cost of Predicted Crashes on Alternative W4

| Total Predicted Crashes on Alternative W4: | 9.3 |
|---|-----|
| Total Predicted Fatal and Injury Crashes on Alternative W4: | 4.6 |

| | Esti | mated Econor | mic Cost of Cra | shes on Alternative W4 F | or 2017 | |
|-----------------|----------------------|--------------------------|----------------------------|-------------------------------------|------------------------------|----------------|
| Crash Type | Predicted Crashes | Percentage of Crashes | Multiple Car Multiplier | Predicted Fatalities or Injuries | 2012 FHWA Cost of Crashes | Total Cost |
| Fatality | 0.1012 | 1.1% | 1.09 | 0.11 | \$6,295,406 | \$694,433.65 |
| Type A | 0.6279 | 6.7% | 1.24 | 0.78 | \$313,516 | \$244,102.30 |
| Туре В | 1.5525 | 16.5% | 1.33 | 2.06 | \$87,814 | \$181,320.54 |
| Type C | 2.4196 | 25.7% | 1.56 | 3.77 | \$58,209 | \$219,714.29 |
| Property Damage | 4.7 | 50.0% | 1.00 | 0.00 | \$6,739 | \$31,673.30 |
| Total: | 9.4012 | 100.0% | | | | \$1,371,244.09 |

| Total Predicted Crashes on Alternative W4 and US-95 Loop: | 10.5 |
|--|------|
| Total Predicted Fatal and Injury Crashes on Alternative W4 and US-95 Loop: | |

| E | stimated Eco | onomic Cost o | f Crashes on Al | ternative W4 and the US- | 95 Loop For 2017 | |
|-----------------|----------------------|--------------------------|----------------------------|-------------------------------------|------------------------------|----------------|
| Crash Type | Predicted Crashes | Percentage of Crashes | Multiple Car Multiplier | Predicted Fatalities or Injuries | 2012 FHWA Cost of Crashes | Total Cost |
| Fatality | 0.1122 | 1.1% | 1.09 | 0.12 | \$6,295,406 | \$769,915.56 |
| Type A | 0.69615 | 6.6% | 1.24 | 0.86 | \$313,516 | \$270,635.16 |
| Туре В | 1.72125 | 16.2% | 1.33 | 2.29 | \$87,814 | \$201,029.30 |
| Type C | 2.6826 | 25.3% | 1.56 | 4.18 | \$58,209 | \$243,596.28 |
| Property Damage | 5.4 | 50.9% | 1.00 | 0.00 | \$6,739 | \$36,390.60 |
| Total: | 10.6122 | | | | | \$1,521,566.91 |

Economic Cost of Wild Animal Crashes

Extra Wild Animal Crashes (1 Per Year for 20 Years):

20

| Crash Type | Crashes | Percentage of Crashes | Multiple Car Multiplier | Fatalities or Injuries | 2012 FHWA Cost of Crashes | Total Cost |
|-----------------|---------|--------------------------|----------------------------|-------------------------|------------------------------|--------------|
| Crash Type | Number | Percentage | Multiplier | Fatalities and Injuries | Cost of Crashes | Total Cost |
| Fatality | 0 | 0.00% | 1.00 | 0.00 | \$6,295,406 | \$0.00 |
| Type A | 0.12 | 0.60% | 1.00 | 0.12 | \$313,516 | \$37,621.92 |
| Type B | 0.46 | 2.30% | 1.45 | 0.67 | \$87,814 | \$58,571.94 |
| Type C | 1.31 | 6.55% | 1.26 | 1.65 | \$58,209 | \$96,079.78 |
| Property Damage | 18.11 | 90.55% | 1.00 | | \$6,739 | \$122,043.29 |
| Total: | 20 | 100.0% | | | | \$314,316.92 |

Extra Wild Animal Crashes: 2

223

| How Many Wild | l Animal Cras | shes Would Be | | Nake Economic Cost of Cra ative C3 | ashes for Alternative | E2 Equal to |
|-----------------|---------------|--------------------------|----------------------------|---------------------------------------|------------------------------|----------------|
| Crash Type | Crashes | Percentage of Crashes | Multiple Car Multiplier | Fatalities or Injuries | 2012 FHWA Cost of Crashes | Total Cost |
| Fatality | 0 | 0.00% | 1.00 | 0.00 | \$6,295,406 | \$0.00 |
| Type A | 1.338 | 0.60% | 1.00 | 1.34 | \$313,516 | \$419,484.41 |
| Type B | 5.129 | 2.30% | 1.45 | 7.44 | \$87,814 | \$653,077.11 |
| Type C | 14.6065 | 6.55% | 1.26 | 18.40 | \$58,209 | \$1,071,289.50 |
| Property Damage | 201.9265 | 90.55% | 1.00 | | \$6,739 | \$1,360,782.68 |
| Total: | 223 | 100.0% | | | | \$3,504,633.70 |

*The economic cost of crashes estimated is based on crash costs from the Office of Highway Safety Publication titled Idaho Highway Crashes 2012. The percentage of fatal and injury crashes and property damage only crashes, and the factor increasing the number of fatalities or injuries is based on wild animal crash data along US-95 in District 2 between 1/1/03 and 12/31/12.

Percentages and Factors Used to Determine Economic Costs of Alternatives and Wild Animal Crashes

| | Number of Crashes of | Percentage of Crash |
|-------------------|-------------------------|---------------------------|
| | Different Severity From | Type Compared to Total |
| | ITD Database | Fatal and Injury* Crashes |
| Fatal Crashes | 169 | 2.17% |
| A Crashes | 1042 | 13.35% |
| B Crashes | 2577 | 33.02% |
| C Crashes | 4017 | 51.47% |
| Total F+I Crashes | 7805 | 100.00% |

*The percentage of crash type compared to total Fatal and Injury Crashes is used to help estimated the percentage of Fatal and Injury Crashes on the different alternatives

| | Total Number of Injuries or Fatalities in Idaho in 2012* | Crash Multiplication Factor** |
|-------------------------|--|----------------------------------|
| Total Fatalities (2012) | 184 | 1.09 |
| Total A Injuries (2012) | 1287 | 1.24 |
| Total B Injuries (2012) | 3428 | 1.33 |
| Total C Injuries (2012) | 6273 | 1.56 |
| Total F+I (2012) | 11172 | |

*This Number is from Table 3 of Section 1 of Idaho Traffic Crashes 2012 by the Idaho Transportation Department Office of Highway Safety

**The Crash Multiplication Factor is the total number of the injuries or fatalities of a given crash type divided by the total number of crashes listed with the corresponding severity level. The Crash Multiplication Factor is used to account for numerous injuries in a given crash event and is used to help estimate the estimated economic cost of crashes for different accident types.

| | Crashes Resulting in a Fatal or Injury Accident Caused By Animal Crashes Between 1/03 and 12/31 | Injuries or Fatalities for Wild Animal Crashes Between 1/03 and 12/31 | Crash Multiplication Factor** |
|-------------------------|---|---|----------------------------------|
| Total Fatalities (2012) | 0 | 0 | 0.00 |
| Total A Injuries (2012) | 3 | 3 | 1.00 |
| Total B Injuries (2012) | 11 | 16 | 1.45 |
| Total C Injuries (2012) | 31 | 39 | 1.26 |
| Total F+I (2012) | 45 | 58 | |

*This Number is from Table 3 of Section 1 of Idaho Traffic Crashes 2012 by the Idaho Transportation Department Office of Highway Safety

**The Crash Multiplication Factor is the total number of the injuries or fatalities of a given crash type divided by the Total number of crashes listed with the corresponding severity level. The Crash Multiplication Factor is used to account for numerous injuries in a given crash event and is used to help estimate the estimated economic cost of crashes for different accident types.

Economic Cost of No Action Alternative

| Economi | c Cost of No |
|------------|---------------|
| Action A | Alternative |
| Year | Cost Per Year |
| 2013 | \$5,613,549 |
| 2014 | \$5,705,050 |
| 2015 | \$5,798,042 |
| 2016 | \$5,892,550 |
| 2017 | \$5,988,599 |
| 2018 | \$6,086,213 |
| 2019 | \$6,185,418 |
| 2020 | \$6,286,241 |
| 2021 | \$6,388,706 |
| 2022 | \$6,492,842 |
| 2023 | \$6,598,676 |
| 2024 | \$6,706,234 |
| 2025 | \$6,815,546 |
| 2026 | \$6,926,639 |
| 2027 | \$7,039,543 |
| 2028 | \$7,154,288 |
| 2029 | \$7,270,903 |
| 2030 | \$7,389,418 |
| 2031 | \$7,509,866 |
| 2032 | \$7,632,277 |
| 2033 | \$7,756,683 |
| 2034 | \$7,883,117 |
| 2035 | \$8,011,611 |
| 2036 | \$8,142,201 |
| Total 2017 | \$140,265,019 |
| to 2036: | , , |

^{*}This table is based on a 10 year crash average from Thorncreek Road to Moscow between 2003 and 2012, the 2012 economic cost of crashes, and a growth factor of 1.63%.

Appendix E Crash Predictions

- Total Predicted Crashes Between 2017 and 2036 and Total Predicted Fatal and Injury Crashes Between 2017 and 2036
- Summary of Crash Predictions for Alternatives E2, C3, and W4
 - E2 Total Crash Summary
 - E2 Fatal and Injury Cash Summary
 - C3 Total Crash Summary
 - C3 Fatal and Injury Cash Summary
 - W4 Total Crash Summary
 - W4 Fatal and Injury Cash Summary
 - Crash Prediction for No Action Alternative

(2017 – 2036 Crash Data is Bound Separately)

| 246 | 14.3 | 14.0 | 13.8 | 13.6 | 13.4 | 13.2 | 13.0 | 12.8 | 12.6 | 12.4 | 12.2 | 12.0 | 11.8 | 11.6 | 11.4 | 11.2 | 11.1 | 10.9 | 10.7 | 10.5 | W4 |
|-------|------|------|------|------|-------------|------|------|------------|-----------|-------------|--------------|-------------|-----------|----------|------|----------|------|------|------|------|----|
| 260. | 15.1 | 14.9 | 14.6 | 14.4 | 14.2 | 13.9 | 13.7 | 13.5 | 13.3 | 13.1 | 12.8 | 12.6 | 12.4 | 12.2 | 12.0 | 11.9 | 11.7 | 11.5 | 11.3 | 11.1 | ß |
| 213 | 12.3 | 12.1 | 11.9 | 11.8 | 11.6 | 11.4 | 11.2 | 11.1 | 10.9 | 10.7 | 10.6 | 10.4 | 10,3 | 10.1 | 10.0 | 9.8 | 9.7 | 9.5 | 9.4 | 9.2 | Ð |
| Total | 2036 | 2035 | 2034 | 2033 | 2032 | 2031 | 2030 | 2029 | 2028 | 2027 | 2026 | 2025 | 2024 | 2023 | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | |
| | | | | | | | | ry by Year | ash Summa | op Total Cr | 8 US-95 Lot | and Existin | Alignment | Proposed | | | | | | | |
| : | | | | | | | | | | | | | | | | | | | | | |
| 219 | 12.8 | 12.6 | 12.4 | 12.2 | 12.0 | 11.8 | 11.6 | 11.4 | 11.2 | 11.0 | 10.8 | 10.6 | 10.5 | 10.3 | 10.1 | 9.9 | 9.8 | 9.6 | 9.4 | 9.3 | W4 |
| 253.8 | 14.8 | 14.5 | 14.3 | 14.1 | 13.8 | 13.6 | 13.4 | 13.2 | 12.9 | 12.7 | 12.5 | 12.3 | 12.1 | 11.9 | 11.7 | 11.5 | 11.3 | 11.2 | 11.0 | 10.8 | G |
| 179. | 10.5 | 10.3 | 10.1 | 10.0 | <u>9.</u> 8 | 9.6 | 9.5 | 9.3 | 9.2 | 9.0 | 8.9 | 8.7 | 8.6 | 8.4 | 8.3 | 8. -1 | 8.0 | 7.9 | 7.7 | 7.6 | ß |
| Total | 2036 | 2035 | 2034 | 2033 | 2032 | 2031 | 2030 | 2029 | 2028 | 2027 | 2026 | 2025 | 2024 | 2023 | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | |
| | | | | | ÷ | | | | y by Year | sh Summar | t Total Cras | d Allgnmen | Propose | | | | | | | | |

Total Predicted Crashes Between 2017 and 2037

Total Predicted Fatal and Injury Crashes Between 2017 and 2037

| Proposed Alignment Total Fatal and Injury Crash Summary by Year 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2030 2031 2032 2033 2034 2035 3.9 3.9 4.0 4.1 4.2 4.3 4.3 4.5 4.5 4.6 4.7 4.8 4.9 5.0 5.1 5.2 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.8 5.9 6.0 6.1 4.7 4.8 4.9 5.0 5.1 5.2 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.8 5.9 6.0 6.1 4.7 4.8 4.9 5.0 5.1 5.2 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.8 5.9 6.0 6.1 4.7 4.8 4.9 5.0 5.1 5.2 5.2 5.3 5.4 | 100.7 | 5.8 | 5.7 | 5.6 | 5.5 | 5.4 | 5.4 | 5.3 | 5.2 | 5.1 | 5.1 | 5.0 | 4.9 | 4.8 | 4.8 | 4.7 | 4.6 | 4.6 | 4 5 | 4.4 | 44 | 3 |
|--|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|---|
| Proposed Alignment Total Fatal and Injury Crash Summary by Year 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2030 2031 2032 2033 2034 2035 2036 3.8 3.9 3.9 4.0 4.1 4.2 4.3 4.3 4.5 4.5 4.6 4.7 4.8 4.9 5.0 5.1 5.2 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.8 5.9 6.0 6.1 6.2 4.6 4.7 4.8 4.9 5.0 5.1 5.2 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.8 5.9 6.0 6.1 6.2 4.6 4.7 4.8 4.9 5.0 5.1 5.2 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.8 5.9 6.0 6.1 6.2 | | | | | | | | | | | | | | | | | | | | | | |

| 116.9 | 6.7 | 6.6 | 6.5 | 6.4 | 6.3 | 6.2 | 6.1 | 6.0 | 6.0 | 5.9 | 5.8 | 5.7 | 5.6 | 5,5 | 5.4 | 5.4 | 5.3 | 5.2 | 5.1 | <u>5</u> | W4 |
|-------|------|------|------|------|------|------|----------|-------------|---------------|-------------|-------------|--------------|--------------|-----------|------|------|------|------|------|----------|----|
| 110.0 | 6.3 | 6.2 | 6.1 | 6.0 | 6.0 | 5.9 | 5.8 | 5.7 | 5.6 | 5.5 | 5.4 | 5,4 | 5.3 | 5.2 | 5.1 | 5.0 | 5.0 | 4.9 | 4.8 | 4.7 | ឩ |
| 100.7 | 5.8 | 5.7 | 5.6 | 5.5 | 5.4 | 5.4 | 5.3 | 5.2 | 5.1 | 5.1 | 5.0 | 4.9 | 4.8 | 4.8 | 4.7 | 4.6 | 4.6 | 4.5 | 4.4 | 4.4 | 62 |
| Total | 2036 | 2035 | 2034 | 2033 | 2032 | 2031 | 2030 | 2029 | 2028 | 2027 | 2026 | 2025 | 2024 | 2023 | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | |
| | * * | | | | | | AA I COL | Amount in A | in the second | TOUR POLOT | tons door | co-co Suno | WHIT ONLY EA | HIGHN DAS | Stau | | | | | | |
| | | | | | | | bur Veas | Cummany | tinner Frach | Estal and b | I ann Tatal | tion I to DE | ane and Evi | a finance | | | | | | | |

| | 11.8 1 | 11.6 | | | | | | | | | | | | | | | | |
|-------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| | | | | 11.2 | 11.1 | 10.9 | 10.7 | 10.6 | 10.4 | 10.3 | 10.1 | 10.0 | 9.8 | 9.7 | 9.5 | 9.4 | 9.2 | Total (Crashes/year) |
| | 1.8 | 1.8 | 1.8 | 1.8 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.6 | 1.6 | Total |
| | | 0.127 | 0.126 | 0,125 | 0.125 | 0.124 | 0.124 | 0.123 | 0.122 | 0.122 | 0.121 | 0.120 | 0.120 | 0.119 | 0.119 | 0.118 | 0.117 | North Clyde |
| | 0.086 0 | 0.086 | 0.085 | 0.085 | 0.084 | 0.084 | 0.084 | 0.083 | 0.083 | 0.082 | 0.082 | 0.081 | 0.081 | 0.081 | 0.080 | 0.080 | 0.079 | Cameron |
| | 0.033 0 | 0.033 | 0.033 | 0.033 | 0.033 | 0.033 | 0.033 | 0.033 | 0.033 | 0.033 | 0.033 | 0.033 | 0.032 | 0.032 | 0.032 | 0.032 | 0.032 | South Clyde |
| | | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | Skyline |
| | | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | Snow |
| | | 0.038 | 0.038 | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 | 0.036 | 0.036 | 0.036 | Zeitler |
| 0.040 | | 0.040 | 0.040 | 0.040 | 0.040 | 0.040 | 0.039 | 0.039 | 0.039 | 0.039 | 0.039 | 0.039 | 0.039 | 0.039 | 0.039 | 0.039 | 0.038 | Jacksha |
| | | 0.048 | 0.048 | 0.048 | 0.048 | 0.048 | 0.048 | 0.048 | 0.047 | 0.047 | 0.047 | 0.047 | 0.047 | 0.047 | 0.047 | 0.047 | 0.046 | Ð |
| | 2033 2 | 2032 | 2031 | 2030 | 2029 | 2028 | 2027 | 2026 | 2025 | 2024 | 2023 | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | Intersection |
| 0.557 | 0.547 0 | 0.542 | 0.536 | 0.531 | 0.526 | 0.521 | 0.517 | 0.512 | 0.507 | 0.502 | 0.497 | 0.493 | 0.488 | 0.484 | 0.479 | 0.475 | 0.470 | 22 |
| 0.285 | 0.282 0 | 0.281 | 0.279 | 0.278 | 0.276 | 0.275 | 0.273 | 0.272 | 0.270 | 0.269 | 0.267 | 0.266 | 0.264 | 0.263 | 0.261 | 0.260 | 0.259 | 21 |
| 0.101 | 0.100 0 | 0.100 | 0.099 | 0.099 | 0.098 | 0.098 | 0.097 | 0.097 | 0.096 | 0.096 | 0.096 | 0.095 | 0.095 | 0.094 | 0.094 | 0.093 | 0.093 | 20 |
| 0.017 0.017 0.017 | 0.017 0 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 19 |
| 0.061 0.061 0.061 | 0.060 0 | 0.060 | 0.060 | 0.060 | 0.060 | 0.060 | 0.060 | 0.060 | 0.060 | 0.059 | 0.059 | 0.059 | 0.059 | 0.059 | 0.059 | 0.059 | 0.059 | 18 |
| 0.019 | | 0.019 | 0.019 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 17 |
| 0.030 | | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | 0.029 | 0.029 | 0.029 | 0.029 | 16 |
| 0.014 | | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 15 |
| 0.024 | | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 14 |
| 0.011 | | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 13 |
| 0.024 | | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 12 |
| 0.009 | | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 11 |
| 0.022 | | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.021 | 0.021 | 10 |
| | | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.034 | 9 |
| | | 0.033 | 0.033 | 0.033 | 0.033 | 0.032 | 0.032 | 0.032 | 0.032 | 0.032 | 0.032 | 0.032 | 0.032 | 0.032 | 0.032 | 0.032 | 0.032 | 68 |
| | | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 7 |
| | | 0.021 | 0.021 | 0.021 | 0.021 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 6 |
| | | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.028 | 0.028 | 0.028 | 0.028 | 0.028 | 0.028 | 0.028 | 0.028 | C1 |
| | | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 4 |
| 0.017 | | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | ω |
| 0.005 | | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 1c |
| 0.027 | | 0.027 | 0.027 | 0.027 | 0.027 | 0.027 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 1b |
| | | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 1a |
| 2034 2035 | 2033 | 2032 | 2031 | 2030 | 2029 | 2028 | 2027 | 2026 | 2025 | 2024 | 2023 | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | Segment |
| | | | | | | | | | | | | | | | | | | Existing US-95 |
| 10.1 10.3 | 10.0 | 9,8 | 9.6 | 9.5 | 9.3 | 9.2 | 9.0 | 8.9 | 8.7 | 8.6 | 8.4 | 8.3 | 8.1 | 8.0 | 7.9 | 7.7 | 7.6 | Total |
| 0.502 0.511 | 0.493 (| 0.484 | 0.475 | 0.466 | 0.458 | 0.450 | 0.442 | 0.434 | 0.426 | 0.419 | 0.411 | 0.404 | 0.397 | 0.390 | 0.383 | 0.376 | 0.370 | North Old US-95 |
| | | 0.315 | 0.309 | 0.303 | 0.297 | 0.291 | 0.285 | 0.280 | 0.274 | 0.269 | 0.264 | 0.258 | 0.253 | 0.248 | 0.243 | 0.239 | 0.234 | South Old US-95 |
| 2034 2035 | | 2032 | 2031 | 2030 | 2029 | 2028 | 2027 | 2026 | 2025 | 2024 | 2023 | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | Intersection |
| 1.240 1.260 | 1.220 1 | 1.200 | 1.181 | 1.162 | 1.143 | 1.125 | 1.107 | 1.089 | 1.072 | 1.055 | 1.038 | 1.022 | 1.005 | 0.989 | 0.974 | 0.958 | 0.943 | Suburban |
| | | 7.808 | 7.677 | 7.548 | 7.421 | 7.297 | 7.174 | 7.054 | 6.935 | 6.819 | 6.704 | 6.592 | 6.481 | 6.373 | 6.266 | 6.160 | 6.057 | Rural Divided |
| 2034 2035 | 2033 | 2032 | 2031 | 2030 | 2029 | 2028 | 2027 | 2026 | 2025 | 2024 | 2023 | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | Segment |

E-2 Total Crash Summary

| | Total (Crashes/year) | Total | South Clyde | Skyline | Snow | Zeitler | Jacksha | Intersection | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 80 | Segment | Existing US-95 | Total | North Old US-95 | North Clyde | Cameron | Eid | South Old US-95 | Intersection | Suburban | Rural Divided | Segment | New Alignment |
|-------------------------------------|----------------------|-------|-------------|---------|-------|---------|---------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|----------------|--------------|-----------------|-------------|---------|-------|-----------------|--------------|----------|---------------|---------|---------------|
| | 11.1 | 0.3 | 0.025 | 0.009 | 0.018 | 0.028 | 0.030 | 2017 | 0.039 | 0.014 | 0.023 | 0.010 | 0.018 | 0.008 | 0.018 | 0.006 | 0.017 | 0.027 | 0.025 | 2017 | | 10.8 | 0.179 | 0.241 | 0.158 | 0.217 | 0.339 | 2017 | 4.790 | 4.880 | 2017 | |
| | 11.3 | 0.3 | 0.025 | 0.009 | 0.018 | 0.028 | 0.030 | 2018 | 0.039 | 0.014 | 0.023 | 0.010 | 0.018 | 0.008 | 0.018 | 0.006 | 0.017 | 0.027 | 0.025 | 2018 | | 11.0 | 0.182 | 0.245 | 0.160 | 0.222 | 0.345 | 2018 | 4.865 | 4.963 | 2018 | |
| | 11.5 | 0.3 | 0.025 | 0.009 | 0.018 | 0.029 | 0.030 | 2019 | 0.039 | 0.014 | 0.023 | 0.010 | 0.018 | 0.008 | 0.018 | 0.006 | 0.017 | 0.027 | 0.025 | 2019 | | 11.2 | 0.185 | 0.249 | 0.163 | 0.226 | 0.352 | 2019 | 4.941 | 5.048 | 2019 | |
| | 11.7 | 0.3 | 0.025 | 0.009 | 0.018 | 0.029 | 0.030 | 2020 | 0.039 | 0.014 | 0.023 | 0.010 | 0.018 | 0.008 | 0.018 | 0.006 | 0.017 | 0.027 | 0.025 | 2020 | | 11.3 | 0.188 | 0.252 | 0.165 | 0.231 | 0.359 | 2020 | 5.019 | 5.134 | 2020 | |
| | 11.9 | 0.3 | 0.025 | 0.009 | 0.018 | 0.029 | 0.030 | 2021 | 0.039 | 0.014 | 0.023 | 0.010 | 0.018 | 0.008 | 0.018 | 0.006 | 0.017 | 0.027 | 0.025 | 2021 | | 11.5 | 0.191 | 0.256 | 0.168 | 0.235 | 0.367 | 2021 | 5.098 | 5.222 | 2021 | |
| | 12.0 | 0.3 | 0.025 | 0.009 | 0.018 | 0.029 | 0.031 | 2022 | 0.039 | 0.014 | 0.023 | 0.010 | 0.018 | 0.008 | 0.018 | 0.006 | 0.017 | 0.027 | 0.025 | 2022 | | 11.7 | 0.194 | 0.260 | 0.171 | 0.240 | 0.374 | 2022 | 5.178 | 5.311 | 2022 | |
| | 12.2 | 0.3 | 0.026 | 0.009 | 0.018 | 0.029 | 0.031 | 2023 | 0.039 | 0.014 | 0.023 | 0.010 | 0.018 | 0.008 | 0.018 | 0.006 | 0.017 | 0.027 | 0.025 | 2023 | | 11.9 | 0.197 | 0.265 | 0.173 | 0.245 | 0.382 | 2023 | 5.260 | 5.402 | 2023 | |
| | 12.4 | 0.3 | 0.026 | 0.009 | 0.018 | 0.029 | 0.031 | 2024 | 0.039 | 0.014 | 0.023 | 0.010 | 0.019 | 0.008 | 0.018 | 0.006 | 0.017 | 0.027 | 0.025 | 2024 | | 12.1 | 0.200 | 0.269 | 0.176 | 0.250 | 0.389 | 2024 | 5.343 | 5.494 | 2024 | |
| | 12.6 | 0.3 | 0.026 | 0.009 | 0.018 | 0.029 | 0.031 | 2025 | 0.040 | 0.014 | 0.023 | 0.010 | 0.019 | 0.008 | 0.018 | 0.006 | 0.017 | 0.027 | 0.025 | 2025 | | 12.3 | 0.203 | 0.273 | 0.179 | 0.255 | 0.397 | 2025 | 5.427 | 5.588 | 2025 | |
| _ | 12.8 | 0.3 | 0.026 | 0.009 | 0.018 | 0.029 | 0.031 | 2026 | 0.040 | 0.014 | 0.023 | 0.011 | 0.019 | 0.008 | 0.019 | 0.006 | 0.017 | 0.027 | 0.025 | 2026 | | 12.5 | 0.206 | 0.277 | 0.181 | 0.260 | 0.405 | 2026 | 5.513 | 5.683 | 2026 | |
| | 13.1 | 0.3 | 0.026 | 0.009 | 0.018 | 0.029 | 0.031 | 2027 | 0.040 | 0.014 | 0.023 | 0.011 | 0.019 | 0.008 | 0.019 | 0.006 | 0.017 | 0.027 | 0.025 | 2027 | | 12.7 | 0.210 | 0.282 | 0.184 | 0.265 | 0.413 | 2027 | 5.601 | 5.780 | 2027 | |
| 7 | 13.3 | 0.3 | 0.026 | 0.009 | 0.018 | 0.029 | 0.031 | 2028 | 0.040 | 0.014 | 0.023 | 0.011 | 0.019 | 0.008 | 0.019 | 0.006 | 0.017 | 0.027 | 0.025 | 2028 | | 12.9 | | 0.286 | 0.187 | 0.271 | 0.421 | 2028 | 5.690 | 5.879 | 2028 | |
| Total crashes between 2017 and 2036 | 13.5 | 0.3 | 0.026 | 0.009 | 0.018 | 0.029 | 0.031 | 2029 | 0.040 | 0.014 | 0.023 | 0.011 | 0.019 | 0.008 | 0.019 | 0.007 | 0.017 | 0.027 | 0.025 | 2029 | | 13.2 | 0.216 | 0.291 | 0.190 | 0.276 | 0.430 | 2029 | 5.780 | 5.979 | 2029 | |
| shes b | 13.7 | 0.3 | 0.026 | 0.009 | 0.018 | 0.029 | 0.031 | 2030 | 0.040 | 0.014 | 0.023 | 0.011 | 0.019 | 0.008 | 0.019 | 0.007 | 0.017 | 0.027 | 0.025 | 2030 | | 13.4 | 0.220 | 0.295 | 0.193 | 0.282 | 0.439 | 2030 | 5.872 | 6.081 | 2030 | |
| etween | 13.9 | 0.3 | 0.026 | 0.009 | 0.019 | 0.029 | 0.031 | 2031 | 0.040 | 0.014 | 0.023 | 0.011 | 0.019 | 0.008 | 0.019 | 0.007 | 0.017 | 0.027 | 0.025 | 2031 | | 13.6 | 0.224 | 0.300 | 0.196 | 0.287 | 0.447 | 2031 | 5.965 | 6.185 | 2031 | |
| 2017 a | 14.2 | 0.3 | 0.026 | 0.009 | 0.019 | 0.029 | 0.031 | 2032 | 0.040 | 0.014 | 0.023 | 0.011 | 0.019 | 0.008 | 0.019 | 0.007 | 0.017 | 0.027 | 0.025 | 2032 | | 13.8 | 0.227 | 0.305 | 0.199 | 0.293 | 0.456 | 2032 | 6.061 | 6.291 | 2032 | |
| nd 203 | 14.4 | 0.3 | 0.026 | 0.009 | 0.019 | 0.030 | 0.031 | 2033 | 0.040 | 0.014 | 0.023 | 0.011 | 0.019 | 0.008 | 0.019 | 0.007 | 0.017 | 0.027 | 0.025 | 2033 | | 14.1 14.1 | 0.231 | 0.310 | 0.202 | 0.299 | 0.465 | 2033 | 6.157 | 6.398 | 2033 | |
| 6 | 14.6 | 0.3 | 0.026 | 0.010 | 0.019 | 0.030 | 0.031 | 2034 | 0.040 | 0.014 | 0.023 | 0.011 | 0.019 | 0.008 | 0.019 | 0.007 | 0.017 | 0.027 | 0.025 | 2034 | | 14.3 | 0.235 | 0.315 | 0.205 | 0.305 | 0.475 | 2034 | 6.256 | 6.507 | 2034 | |
| | 14.9 | 0.3 | 0.026 | 0.010 | 0.019 | 0.030 | 0.031 | 2035 | 0.040 | 0.014 | 0.023 | 0.011 | 0.019 | 0.008 | 0.019 | 0.007 | 0.017 | 0.028 | 0.025 | 2035 | | 14.5 | 0.238 | 0.320 | 0.209 | 0.311 | 0.484 | 2035 | 6.356 | 6.619 | 2035 | |
| 260.2 | 15.1 | 0.3 | 0.026 | 0.010 | 0.019 | 0.030 | 0.032 | 2036 | 0.040 | 0.014 | 0.023 | 0.011 | 0.019 | 0.008 | 0.019 | 0.007 | 0.017 | 0.028 | 0.025 | 2036 | | 14.8 | 0.242 | 0.325 | 0.212 | 0.317 | 0.494 | 2036 | 6.458 | 6.732 | 2036 | |

| С. |
|---------|
| Total |
| Crash |
| Summary |
| |

| W-4 |
|-------|
| Total |
| Crash |
| Sumn |
| nary |

| | liotal (Crasnes/year) | | Total | | | South Chul | Shuling | Zeitler | Intersection | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | Segment | Existing US-95 | Total | North Old US-95 | South Old US-95 | Jacksha | Eid | Intersection | Suburban | Rural Divided | Segment | New Alignment |
|-------------------------------------|-----------------------|--------|------------------|-------|-------|------------|---------|----------------|--------------|---------|-------|---------|---------|-------|-------|-------|---------|---------|---------|---------|---------|---------|----------------|--------|-----------------|-----------------|----------|---------|--------------|----------|---------------|---------|---------------|
| | /year) | | 1 | • | đ | | | | Š | | | | | | | | | | | | | | | | -95 | -95 | | | ă | | ä | | |
| | 10.5 | 5 | 4 - | 0.079 | | | | 0.026 | 2017 | 0.470 | 0.259 | 0.093 | 0.015 | 0.051 | 0.016 | 0.026 | 0.012 | 0.021 | 0.009 | 0.021 | 0.007 | 2017 | | 9.3 | 0.370 | 0.213 | 0.318 | 0.339 | 2017 | 1.123 | 6.910 | 2017 | |
| | 10.7 | ī | 4 TO | 0.000 | | | | 0.026 | 2018 | 0.475 | 0.260 | 0.093 | 0.015 | 0.051 | 0.016 | 0.026 | 0.012 | 0.021 | 0.009 | 0.021 | 0.007 | 2018 | | 9,4 | 0.376 | 0.217 | 0.325 | 0.345 | 2018 | 1.141 | 7.028 | 2018 | |
| | 10.9 | Ī | 4.3 | | 0.023 | | | 0.026 | 2019 | 0.479 | 0.261 | 0.094 | 0.015 | 0.051 | 0.016 | 0.026 | 0.012 | 0.021 | 0.009 | 0.021 | 0.007 | 2019 | | 9.6 | 0.383 | 0.221 | 0.331 | 0.352 | 2019 | 1.159 | 7.148 | 2019 | |
| | 11.1 | | 4 1 1 | 0.001 | 0.024 | 0.000 | 0.011 | 0.027 | 2020 | 0.484 | 0.263 | 0.094 | 0.015 | 0.051 | 0.016 | 0.026 | 0.012 | 0.021 | 0.009 | 0.021 | 0.007 | 2020 | | 9.8 | 0.390 | 0.226 | 0.338 | 0.359 | 2020 | 1.178 | 7.270 | 2020 | |
| | 11.2 | Ī | 4.5 | 0.00 | 0.024 | 0.000 | 0.017 | 0.027 | 2021 | 0.488 | 0.264 | 0.095 | 0.015 | 0.052 | 0.016 | 0.026 | 0.012 | 0.021 | 0.009 | 0.021 | 0.007 | 2021 | | 9.9 | 0.397 | 0.230 | 0.345 | 0.367 | 2021 | 1.196 | 7.394 | 2021 | |
| | 11.4 | | | | | | | 0.027 | | | | | 0.015 | | | | 0.012 | | 0.009 | 0.021 | 0.007 | 2022 | | 10.1 | 0,404 | 0.235 | 0.352 | 0.374 | 2022 | | | 2022 | |
| | 4 11.6 | | | | | | | | | | | 5 0.096 | | | | | | 1 0.021 | 9 0.009 | 1 0.021 | 7 0.007 | 2 2023 | | 10.3 | 4 0.411 | 5 0.240 | 2 0.359 | 4 0.382 | 2 2023 | | | 2 2023 | |
| | | | ł | | | | - | | | | | | | | | | | | | | | | | | ľ | 10 0.244 | 59 0.366 | | | | | | |
| | 11.8 | | | | | | | 0.027 0 | | 0.502 0 | | | 0.015 0 | | | | 0.012 0 | 0.021 0 | 0.009 0 | 0.021 0 | 0.007 0 | 2024 2 | | 10.5 | 0.419 0 | - | | 0.389 0 | 2024 2 | | | 2024 2 | |
| | 12.0 | 1 | 4.3 | | | | | | | | | | | | | | 0.012 | 0.021 | 0.009 | 0.021 | 0.007 | 2025 | | 10.6 | 0.426 | 0.249 | 0.373 | 0.397 | 2025 | | 7.912 | 2025 | |
| | 12.2 | 1 | 1 20 | | 0.024 | | | 0.027 D D17 | 2026 | 0.512 | 0.272 | 0.097 | 0.015 | 0.052 | 0.016 | 0.026 | 0.012 | 0.021 | 0.009 | 0.021 | 0.007 | 2026 | | 10.8 | 0.434 | 0.254 | 0.381 | 0.405 | 2026 | 1.296 | 8.047 | 2026 | |
| | 12.4 | ī | , <u>C</u> . I∠4 | 0.004 | 0.024 | | | 0.027 | 2027 | 0.517 | 0.273 | 0.097 | 0.015 | 0.052 | 0.016 | 0.026 | 0.012 | 0.021 | 0.009 | 0.021 | 0.007 | 2027 | | 11.0 | 0.442 | 0.259 | 0.388 | 0.413 | 2027 | 1.317 | 8,184 | 2027 | |
| | 12.6 | ī | 0.124 | 0.004 | 0.024 | 0.003 | 0.017 | 0.027 | 2028 | 0.521 | 0.275 | 0.098 | 0.015 | 0.052 | 0.016 | 0.026 | 0.012 | 0.021 | 0.009 | 0.021 | 0.007 | 2028 | | 11.2 | 0.450 | 0.265 | 0.396 | 0.421 | 2028 | 1.338 | 8.324 | 2028 | |
| Tota | 12.8 | - | 0,120 | 0.004 | 0.024 | | 0.017 | 0.027 | 2029 | 0.526 | 0.276 | 0.098 | 0.015 | 0.052 | 0.016 | 0.026 | 0.012 | 0.021 | 0.009 | 0.021 | 0.007 | 2029 | | 11.4 | 0.458 | 0.270 | 0.404 | 0.430 | 2029 | 1.360 | 8.466 | 2029 | |
| Total crashes between 2017 and 2036 | 13.0 | 5 | C21.0 | 0.000 | 0.024 | | 0.017 | 0.027 | 2030 | 0.531 | 0.278 | 0.099 | 0.015 | 0.052 | 0.016 | 0.026 | 0.012 | 0.021 | 0.009 | 0.021 | 0.007 | 2030 | | 11.6 | 0.466 | 0.275 | 0.412 | 0.439 | 2030 | 1.382 | 8.611 | 2030 | |
| betwee | 13.2 | - | 0.120 | | 0.024 | | 0.017 | 0.027 | 2031 | 0.536 | 0.279 | 0.099 | 0.015 | 0.053 | 0,016 | 0.026 | 0.012 | 0.021 | 0.009 | 0.021 | 0.007 | 2031 | | 11.8 | 0.475 | 0.281 | 0.420 | 0.447 | 2031 | 1.404 | 8.758 | 2031 | |
| 1 2017 ar | 13.4 | - | 0.127 | | 0.024 | | | 0.027 | 2032 | 0.542 | 0.281 | 0,100 | 0.015 | 0.053 | 0.016 | 0.026 | 0.012 | 0.021 | 0.009 | 0.021 | 0.007 | 2032 | | 12.0 | 0.484 | 0.287 | 0.429 | 0.456 | 2032 | 1.427 | 8.907 | 2032 | |
| 1d 2036 | 13.6 | | | | | | | 0.027 | | | | | | | | | | | 0.009 | | 0.007 | 2033 | | 12.2 | 0.493 | 0.29 | 0.438 | 0.46 | 2033 | 1.45 | 9.055 | 2033 | |
| | 5 13.8 | | | | | | | 7 0.027 | | | | | | | | | | | | | _ | 3 2034 | | 12,4 | | | 8 0.446 | | 3 2034 | | | 3 2034 | |
| | 8 14.0 | | | | | | | 27 0.028 | | | | | | | | | | | | | | | | 4 12.6 | | | | | 4 2035 | | | 4 2035 | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | - | | | |
| 246.2 | 14.3 | - + | 129 1129 | 100/ | 024 | 0.008 | | 028 | 2036 | 563 | 287 | 102 | 0.015 | 053 | 016 | 026 | 012 | 021 | 600 | 0.021 | 0.007 | 2036 | | 12.8 | 0.521 | 0.310 | 0.464 | 0.494 | 2036 | 1.522 | 9.531 | 2036 | |

| Total (Crashes/year) | Total | North Clyde | Cameron | South Clyde | Skyline | Snow | Zeitler | Jacksha | | Intersection | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | . 9 | 00 | 7 | л Л | - C1 | 4 | ω | 1c | 1b | 1a | Segment | Existing US-95 | Total | North Old US-95 | South Old US-95 | Intersection | Suburban | Rural Divided | Segment | New Alignment |
|----------------------|-------|-------------|---------|-------------|---------|-------|---------|---------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|---------|----------------|----------|-----------------|-----------------|--------------|----------|---------------|---------|---------------|
| 4.4 | 0.6 | 0.049 | 0.033 | 0.013 | 0.005 | 0.010 | 0.015 | 0.016 | 0.019 | 2017 | 0.151 | 0.083 | 0.030 | 0.005 | 0.019 | 0.006 | 0.009 | 0.004 | 0.008 | 0.003 | 0.008 | 0.003 | 0.007 | 0.011 | 0.010 | 0.008 | 0.006 | 0.009 | 0.001 | 0.005 | 0.001 | 0.008 | 0.004 | 2017 | | ა. 8 | 0.142 | 0.078 | 2017 | 0.286 | 3.316 | 2017 | |
| 4.4 | 0.6 | 0.049 | 0.033 | 0.013 | 0.005 | 0.010 | 0.015 | 0.016 | 0.019 | 2018 | 0.152 | 0.083 | 0.030 | 0.005 | 0.019 | 0.006 | 0.009 | 0.004 | 0.008 | 0.003 | 0.008 | 0.003 | 0.007 | 0.011 | 0.010 | 0.008 | 0.006 | 0.009 | 0.001 | 0.005 | 0.001 | 0.008 | 0.004 | 2018 | | 3.9 | 0.145 | 0.079 | 2018 | 0.290 | 3.368 | 2018 | |
| 4.5 | 0.6 | 0.049 | 0.033 | 0.013 | 0.005 | 0.010 | 0.015 | 0.016 | 0.019 | 2019 | 0.154 | 0.084 | 0.030 | 0.005 | 0.019 | 0.006 | 0.009 | 0.004 | 0.008 | 0.003 | 0.008 | 0.003 | 0.007 | 0.011 | 0.010 | 0.008 | 0.006 | 0.009 | 0.001 | 0.005 | 0.001 | 0.008 | 0.004 | 2019 | | 3.9 | 0.147 | 0.080 | 2019 | 0.294 | 3,420 | 2019 | |
| 4.6 | 0.6 | 0.049 | 0.033 | 0.013 | 0.005 | 0.010 | 0.015 | 0.016 | 0.019 | 2020 | 0.155 | 0.084 | 0.030 | 0.005 | 0.019 | 0.006 | 0.009 | 0.004 | 0.008 | 0.003 | 0.008 | 0.003 | 0.007 | 0.011 | 0.010 | 0.008 | 0.006 | 0.009 | 0.001 | 0.005 | 0.001 | 0.008 | 0.004 | 2020 | | 4.0 | 0.149 | 0.082 | 2020 | 0.299 | 3.473 | 2020 | |
| 4,6 | 0.6 | 0.050 | 0.034 | 0.013 | 0.005 | 0.010 | 0.015 | 0.016 | 0.019 | 2021 | 0.157 | 0.085 | 0.030 | 0.005 | 0.019 | 0.006 | 0.009 | 0.004 | 0.008 | 0.003 | 0.008 | 0.003 | 0.007 | 0.011 | 0.010 | 0.008 | 0.006 | 0.009 | 0.001 | 0.005 | 0.001 | 0.008 | 0.004 | 2021 | | 4:1 1 | 0.152 | 0.083 | 2021 | 0.303 | 3.528 | 2021 | |
| 4.7 | 0.6 | 0.050 | 0.034 | 0.014 | 0.005 | 0.010 | 0.015 | 0.016 | 0.020 | 2022 | 0.158 | 0.085 | 0.031 | 0.005 | 0.019 | 0.006 | 0.009 | 0.004 | 0.008 | 0.003 | 0.008 | 0.003 | 0.007 | 0.011 | 0.010 | 0.008 | 0.007 | 0.009 | 0.002 | 0.005 | 0.002 | 0.008 | 0.004 | 2022 | | 4.1 | 0.154 | 0.085 | 2022 | 0.308 | 3.583 | 2022 | |
| 4.8 | 0.6 | 0.050 | 0.034 | 0.014 | 0.005 | 0.010 | 0.015 | 0.016 | 0.020 | 2023 | 0,160 | 0.086 | 0.031 | 0.005 | 0.019 | 0.006 | 0.010 | 0.004 | 0.008 | 0.003 | 0.008 | 0.003 | 0.007 | 0.011 | 0.010 | 0.008 | 0.007 | 0.009 | 0.002 | 0.005 | 0.002 | 0.008 | 0.004 | 2023 | | 4.2 | 0.157 | 0.087 | 2023 | 0.313 | 3.638 | 2023 | |
| 4.8 | 0.6 | 0.050 | 0.034 | 0.014 | 0.005 | 0.010 | 0.015 | 0.016 | 0.020 | 2024 | 0.161 | 0.086 | 0.031 | 0.005 | 0.019 | 0.006 | 0.010 | 0.004 | 0.008 | 0.003 | 0.008 | 0.003 | 0.007 | 0.011 | 0.010 | 0.008 | 0.007 | 0.009 | 0.002 | 0.005 | 0.002 | 0.008 | 0.004 | 2024 | | 4.3 | 0.160 | 0.088 | 2024 | 0.317 | 3.695 | 2024 | |
| 4.9 | 0.6 | 0.051 | 0.034 | 0.014 | 0.005 | 0.010 | 0.015 | 0.016 | 0.020 | 2025 | 0.163 | 0.087 | 0.031 | 0.005 | 0.019 | 0.006 | 0.010 | 0.004 | 0.008 | 0.003 | 0.008 | 0.003 | 0.007 | 0.011 | 0.010 | 0.008 | 0.007 | 0.009 | 0.002 | 0.005 | 0.002 | 0.008 | 0.004 | 2025 | | 4,3 | 0.162 | 0.090 | 2025 | 0.322 | 3.753 | 2025 | |
| 5.0 | 0.6 | 0.051 | 0.034 | 0.014 | 0.005 | 0.010 | 0.015 | 0.016 | 0.020 | 2026 | 0.164 | 0.087 | 0.031 | 0.005 | 0.019 | 0.006 | 0.010 | 0.004 | 0.008 | 0.003 | 0.008 | 0.003 | 0.007 | 0.011 | 0.010 | 0.008 | 0.007 | 0.009 | 0.002 | 0.005 | 0.002 | 0.008 | 0.004 | 2026 | | 4.4 | 0.165 | 0.091 | 2026 | 0.327 | 3.811 | 2026 | |
| 5.1 | 0.6 | 0.051 | 0.035 | 0.014 | 0.005 | 0.010 | 0.015 | 0.016 | 0.020 | 2027 | 0.166 | 0.088 | 0.031 | 0.005 | 0.019 | 0.006 | 0.010 | 0.004 | 0.008 | 0.003 | 0.008 | 0.003 | 0.007 | 0.011 | 0.010 | 0.008 | 0.007 | 0.009 | 0.002 | 0.006 | 0.002 | 0.008 | 0.004 | 2027 | | 4.5 | 0.168 | 0.093 | 2027 | 0.332 | 3.870 | 2027 | 2 |
| 5.1 | 0.6 | 0.052 | 0.035 | 0.014 | 0.005 | 0.010 | 0.015 | 0.016 | 0.020 | 2028 | 0.167 | 0.088 | 0.031 | 0.005 | 0.019 | 0.006 | 0.010 | 0.004 | 0.008 | 0.003 | 0.008 | 0.003 | 0.007 | 0.011 | 0.010 | 0.008 | 0.007 | 0.009 | 0.002 | 0.006 | 0.002 | 0.009 | 0.004 | 2028 | | 4.5 | 0.171 | 0.095 | 2028 | 0.337 | 3.931 | 2028 | |
| 5.2 | 0.6 | 0.052 | 0.035 | 0.014 | 0.005 | 0.010 | 0.015 | 0.016 | 0.020 | 2029 | 0.169 | 0.089 | 0.032 | 0.005 | 0.019 | 0.006 | 0.010 | 0.004 | 0.008 | 0.003 | 0.008 | 0.003 | 0.007 | 0.011 | 0.010 | 0.008 | 0.007 | 0.009 | 0.002 | 0.006 | 0.002 | 0.009 | 0.004 | 2029 | | 4.6 | 0.174 | 0.097 | 2029 | 0.343 | 3.992 | 2029 | |
| 5.3 | 0.6 | 0.052 | 0.035 | 0.014 | 0.005 | 0.010 | 0.016 | 0.016 | 0.020 | 2030 | 0.171 | 0.089 | 0.032 | 0.005 | 0.019 | 0.006 | 0.010 | 0.004 | 0.008 | 0.003 | 0.008 | 0.003 | 0.007 | 0.011 | 0.010 | 0.008 | 0.007 | 0.009 | 0.002 | 0.006 | 0.002 | 0.009 | 0.004 | 2030 | | 4.7 | 0.177 | 0.098 | 2030 | 0.348 | 4.054 | 2030 | |
| 5.4 | 0.6 | 0.052 | 0.035 | 0.014 | 0.005 | 0.010 | 0.016 | 0.017 | 0.020 | 2031 | 0.172 | 0.090 | 0.032 | 0.006 | 0.019 | 0.006 | 0.010 | 0.004 | 0.008 | 0.003 | 0.008 | 0.003 | 0.007 | 0.011 | 0.010 | 0.008 | 0.007 | 0.009 | 0.002 | 0.006 | 0.002 | 0.009 | 0.004 | 2031 | | 4.8 | 0.180 | 0.100 | 2031 | 0.353 | 4.117 | 2031 | |
| 5.4 | 0.6 | 0.053 | 0.036 | 0.014 | 0.005 | 0.010 | 0.016 | 0.017 | 0.020 | 2032 | 0.174 | 0.090 | 0.032 | 0.006 | 0.019 | 0.006 | 0.010 | 0.004 | 0.008 | 0.003 | 0.008 | 0.003 | 0.007 | 0.011 | 0.011 | 0.008 | 0.007 | 0.009 | 0.002 | 0.006 | 0.002 | 600 0 | 0.004 | 20.32 | | 4.8 | 0.183 | 0.102 | 2032 | 0.359 | 4.181 | 2032 | |
| 5.5 | 0.6 | 0.053 | 0.036 | 0.014 | 0.005 | 0.010 | 0.016 | 0.017 | 0.020 | 2033 | 0.176 | 0.091 | 0.032 | 0.006 | 0.019 | 0.006 | 0.010 | 0.004 | 0.008 | 0.003 | 0.008 | 0.003 | 0.007 | 0.011 | 0.011 | 0.008 | 0.007 | 0.009 | 0.002 | 0.006 | 0.002 | 0.009 | 0.004 | 2033 | | 4.9 | 0.186 | 0.104 | 2033 | 0.364 | 4.247 | 2033 | |
| 5.6 | 0.6 | 0.053 | 0.036 | 0.014 | 0.005 | 0.010 | 0.016 | 0.017 | 0.020 | 2034 | 0.177 | 0.091 | 0.032 | 0.006 | 0.019 | 0.006 | 0.010 | 0.004 | 0.008 | 0.003 | 0.008 | 0.003 | 0.007 | 0.011 | 0.011 | 0.008 | 0.007 | 0,009 | 0.002 | 0.006 | 0.002 | 600.0 | 0.004 | 2034 | | | | | | | | 2034 | |
| 5.7 | 0.6 | 0.053 | 0.036 | 0.014 | 0.005 | 0.010 | 0.016 | 0.017 | 0.020 | 2035 | 0.179 | 0.092 | 0.033 | 0.006 | 0.019 | | | | | | | | 0.007 | 0.011 | | | | | | | | | | 20.35 | | 5.1 | | | | | | 2035 | |
| 5.8 | 0.6 | 0.054 | 0.036 | 0.014 | 0.005 | 0.010 | 0.016 | 0.017 | 0.020 | 2036 | 0.181 | 0.092 | 0.033 | 0.006 | 0.020 | 0.006 | 0.010 | 0.004 | 0.008 | 0.003 | 0,008 | 0.003 | 0.007 | 0.011 | 0.011 | 0.009 | 0.007 | | | 0.006 | 0.002 | | | 3500 | | 5.1 | | | | | | 2036 | |

Total fatal and injury crashes between 2017 and 2036

100.7

E-2 Fatal and Injury Crash Summary

| ი ა | 6.2 | 6.1 | 6.0 | 6.0 | 9.9 2.9 | 0.0 | 0.7 | 0.0 0 | 0.0 | 0.4 | ט 4 | 0.0 .0 | Ú.N | 9 | ļ | 0.0 | 1 | | | |
|--------|---------|---------|---------|---------|------------|-------|--------|----------|-------|---------|--------|-----------|-------|-------|-------|--------|-------|-------|-------|----------------------|
| | ! | | | | | | l I | | | | 2 | n 3 | 2 | n | כ | л Э | 49 | 48 | 47 | Total (Crashes/vear) |
| 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | Total |
| 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.010 | 0.010 | 0.010 | Clyde South |
| 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | Skyline |
| 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.007 | 0.007 | 0.007 | 0.007 | Snow |
| 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | | 0.012 | 0.012 | Zeitler |
| 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | Jacksha |
| 2036 | 2035 | 2034 | 2033 | 2032 | 2031 | 2030 | 2029 | 2028 | 2027 | 2026 | 2025 | 2024 | 2023 | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | Intersection |
| 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 18 |
| 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 17 |
| 0.008 | 0.008 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 16 |
| 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 15 |
| 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 14 |
| 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 13 |
| 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 12 |
| 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 11 |
| 0.006 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 10 |
| 0.009 | 600'0 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 9 |
| 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 60 |
| 2036 | 2035 | 2034 | 2033 | 2032 | 2031 | 2030 | 2029 | 2028 | 2027 | 2026 | 2025 | 2024 | 2023 | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | Segment |
| | | | | | | | | | | | | | | | | | | | | Existing US-95 |
| 5 | 9 | | | | | : | | | | , | | | | | | | | | | |
| | 2 1 | 8.0 | פּא | л 20 | 20 | 5.7 | 5.6 | טי טי | 5.4 | 5 .3 | 5.2 | 5.2 | 5.1 | 5.0 | 4.9 | 4.9 | 4.8 | 4.7 | 4.6 | Total |
| | 0 1 7 7 | 0 1 2 5 | 0 1 2 3 | 0.121 | 0.119 | 0.117 | 0.115 | 0.114 | 0.112 | 0.110 | 0.108 | 0.106 | 0.105 | 0.103 | 0.101 | 0.100 | 0.098 | 0.097 | 0.095 | North Old US-95 |
| | 0.160 | 0.158 | 0.155 | 0.153 | 0.150 | 0.148 | 0.146 | 0.143 | 0.141 | 0.139 | 0.137 | 0.135 | 0.132 | 0.130 | 0.128 | 0.126 | 0.124 | 0.122 | 0.121 | Clyde North |
| | 0.097 | 0.095 | 0.094 | 0.092 | 0.091 | 680'0 | 0.088 | 0.087 | 0.085 | 0.084 | 0.083 | 0.082 | 0.080 | 0.079 | 0.078 | 0.077 | 0.075 | 0.074 | 0.073 | Cameron |
| | 0.099 | 0.097 | 0.096 | 0.094 | 0.092 | 0.091 | 0.089 | 0.087 | 0.086 | 0.084 | 0.083 | 0.081 | 0.080 | 0.078 | 0.077 | 0.075 | 0.074 | 0.073 | 0.071 | Eid |
| | 0.206 | 0.202 | 0.198 | 0.194 | 0.191 | 0.187 | 0.184 | 0.181 | 0.177 | 0.174 | 0.171 | 0.168 | 0.165 | 0.162 | 0.159 | 0.156 | 0.153 | 0.150 | 0.148 | South Old US-95 |
| ļ | 2035 | 2034 | 2033 | 2032 | 2031 | 2030 | 2029 | 2028 | 2027 | 2026 | 2025 | 2024 | 2023 | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | Intersection |
| | 1.900 | 1.872 | 1.844 | 1.817 | 1.790 | 1.763 | 1.738 | 1.712 | 1.687 | 1.662 | 1.638 | 1.614 | 1.591 | 1.568 | 1.545 | 1.523 | 1.501 | 1.479 | 1.458 | Suburban |
| | 3.529 | 3.475 | 3.422 | 3.369 | 3.317 | 3.266 | 3.216 | 3.167 | 3.118 | 3.071 | 3.023 | 2.977 | 2.931 | 2.886 | 2.842 | 2.799 | 2.756 | 2.713 | 2.672 | Rural Divided |
| 2036 | 2035 | 2034 | 2033 | 2032 | 2031 | 2030 | 2029 | 2028 | 2027 | 2026 | 2025 | 2024 | 2023 | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | Segment |
| | | | | | | | | | | | | | | | | | | | | |

C-3 Total Fatal and Injury Crash Summary

Total fatal and injury crashes between 2017 and 2036 110.0

| | Total (Crashes/year) 5.1 | lotal 0.4 | de | | e | | | | ion | | 21 0.083 | | | | | | | | 13 0.003 | | | Segment 2017 | Existing US-95 | 10tal 4.5 | 05-95 | | | | Intersection 2017 | Suburban 0.341 | Rural Divided 3.783 | Segment 2017 |
|--|--------------------------|-----------|-------|-------|-------|-------|-------|-------|------|-------|----------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|--------------|----------------|-----------|-------|-------|-------|-------|-------------------|----------------|---------------------|--------------|
| | 5.1 | 0.4 | 0.049 | 0.033 | 0.010 | 0.003 | 0.007 | 0.011 | 2018 | 0.152 | 0.083 | 0.030 | 0.005 | 0.016 | 0.005 | 0.008 | 0.004 | 0.007 | 0.003 | 0.007 | 0.002 | 2018 | | 4./ | 0.145 | 0.071 | 0.140 | 0.150 | 2018 | 0.346 | 3.842 | 2018 |
| | 5.2 | 0.4 | 0.049 | 0.033 | 0.010 | 0.003 | 0.007 | 0,011 | 2019 | 0.154 | 0.084 | 0.030 | 0.005 | 0.016 | 0.005 | 0.008 | 0.004 | 0.007 | 0.003 | 0.007 | 0.002 | 2019 | | 4.8 | 0.147 | 0.072 | 0.143 | 0.153 | 2019 | 0.351 | 3.902 | 2019 |
| | 5.3 | 0.4 | 0.049 | 0.033 | 0.010 | 0.003 | 0.007 | 0.011 | 2020 | 0.155 | 0.084 | 0.030 | 0.005 | 0.017 | 0.005 | 0.008 | 0.004 | 0.007 | 0.003 | 0.007 | 0.002 | 2020 | | 4.8 | 0.149 | 0.073 | 0.145 | 0.156 | 2020 | 0.356 | 3.963 | 2020 |
| | 5.4 | 0.4 | 0.050 | 0.034 | 0.010 | 0.003 | 0.007 | 0.011 | 2021 | 0.157 | 0.085 | 0.030 | 0.005 | 0.017 | 0.005 | 0.008 | 0.004 | 0.007 | 0.003 | 0.007 | 0.002 | 2021 | | 4.9 | 0.152 | 0.075 | 0.148 | 0.159 | 2021 | 0.362 | 4.024 | 2021 |
| | 5.4 | 0.4 | 0.050 | 0.034 | 0.010 | 0.003 | 0.007 | 0.011 | 2022 | 0.158 | 0.085 | 0.031 | 0.005 | 0.017 | 0.005 | 0.008 | 0.004 | 0.007 | 0.003 | 0.007 | 0.002 | 2022 | | 5.0 | 0.154 | 0.076 | | 0.162 | 2022 | | | 2022 |
| | 5.5 | 0.4 | 0.050 | 0.034 | 0.010 | 0.003 | 0.007 | 0.011 | 2023 | 0.160 | 0.086 | 0.031 | 0.005 | 0.017 | 0.005 | 0.008 | 0.004 | 0.007 | 0.003 | 0.007 | 0.002 | 2023 | | 5.1 | 0.157 | 0.078 | | 0.165 | 2023 | 0.373 | 4.151 | 2023 |
| | 5.6 | 0.5 | 0.050 | 0.034 | 0.010 | 0.003 | 0.007 | 0.011 | 2024 | 0.161 | 0.086 | 0.031 | 0.005 | 0.017 | 0.005 | 0.008 | 0.004 | 0.007 | 0.003 | 0.007 | 0.002 | 2024 | | 5.2 | 0.160 | 0.079 | | 0.168 | 2024 | | | 2024 |
| | 5.7 | 0.5 | 0.051 | 0.034 | 0.010 | 0.003 | 0.007 | 0.011 | 2025 | 0.163 | 0.087 | 0.031 | 0.005 | 0.017 | 0.005 | 0.008 | 0.004 | 0.007 | 0.003 | 0.007 | 0.002 | 2025 | | 5.2 | 0.162 | 0.080 | 0.159 | 0.171 | | | | 2025 |
| | 5.8 | 0.5 | 0.051 | 0.034 | 0.010 | 0.004 | 0.007 | 0.011 | 2026 | 0.164 | 0.087 | 0.031 | 0.005 | 0.017 | 0.005 | 0.008 | 0.004 | 0.007 | 0.003 | 0.007 | 0.002 | 2026 | | 5.3 | 0.165 | 0.082 | 0.162 | 0.174 | 2026 | | | 2026 |
| | 5.9 | 0.5 | 0.051 | 0.035 | 0.010 | 0.004 | 0.007 | 0.011 | 2027 | 0.166 | 0.088 | 0.031 | 0.005 | 0.017 | 0.005 | 0.008 | 0.004 | 0.007 | 0.003 | 0.007 | 0.002 | 2027 | | 5.4 | 0.168 | 0.083 | 0.165 | 0.177 | | | 1 | 2027 |
| Total | 6.0 | 0.5 | 0.052 | 0.035 | 0.010 | 0.004 | 0.007 | 0.011 | 2028 | 0.167 | 0.088 | 0.031 | 0.005 | 0.017 | 0.005 | 0.008 | 0.004 | 0.007 | 0.003 | 0.007 | 0.00Z | 2028 | | 5.5 | 0.171 | 0.085 | 0.168 | 0.181 | 2028 | 0.402 | 4.484 | 2028 |
| fatal and | 6.0 | 0.5 | 0.052 | 0.035 | 0.010 | 0.004 | 0.007 | 0.011 | 2029 | 0.169 | 0.089 | 0.032 | 0.005 | 0.017 | 0.005 | 0.008 | 0.004 | 0.007 | 0.003 | 0.007 | 0.002 | 2029 | | 5.6 | 0.174 | 0.087 | 0.171 | 0.184 | 2029 | | | 2029 |
| injury c | 6.1 | 0.5 | 0.052 | 0.035 | 0.010 | 0.004 | 0.007 | 0.011 | 2030 | 0.171 | 0.089 | 0.032 | 0.005 | 0.017 | 0.005 | 0.008 | 0.004 | 0.007 | 0.003 | 0.007 | 0.002 | 2030 | | 5.7 | 0.177 | 0.088 | | | 2030 | | | 2030 |
| rashes | 6.2 | 0.5 | 0.052 | 0.035 | 0.010 | 0.004 | 0.007 | 0.011 | 2031 | 0.172 | 0.090 | 0.032 | 0.005 | 0.017 | 0.005 | 0.008 | 0.004 | 0.007 | 0.003 | 0.007 | 0.002 | 2031 | | 5.8 | 0.180 | 0.090 | | | 2031 | | | 2031 |
| fatal and injury crashes between 2017 and 2036 | 6.3 | 0.5 | 0.053 | 0.036 | 0.010 | 0.004 | 0.007 | 0.011 | 2032 | 0.174 | 0.090 | 0.032 | 0.005 | 0.017 | 0.005 | 0.008 | 0.004 | 0.007 | 0.003 | 0.007 | 0.002 | 2032 | | 5.8 | 0.183 | 0.091 | 0.181 | 0.194 | 2032 | 0.427 | 4.770 | 2032 |
| 12017 ar | 6.4 | 0.5 | 0.053 | 0.036 | 0.010 | 0.004 | 0.007 | 0.011 | 2033 | 0.176 | 0.091 | 0.032 | 0.005 | 0.017 | 0.005 | 0.008 | 0.004 | 0.007 | 0.003 | 0.007 | 0.002 | 2033 | | 5.9 | 0.186 | 0.093 | 0.184 | 0.198 | 2033 | 0.433 | 4.845 | 2033 |
| 1d 2036 | 6.5 | 0.5 | 0.053 | 0.036 | 0.010 | 0.004 | 0.007 | 0.011 | 2034 | 0.177 | 0.091 | 0.032 | 0.005 | 0.017 | 0.005 | 0.008 | 0.004 | 0.007 | 0.003 | 0.007 | 0.002 | 2034 | | 6.0 | 0.189 | 0.095 | 0.188 | 0.202 | 2034 | 0.440 | 4.920 | 2034 |
| | 6.6 | 0.5 | 0.053 | 0.036 | 0.010 | 0.004 | 0.007 | 0.011 | 2035 | 0.179 | 0.092 | 0.033 | 0.005 | 0.017 | 0.005 | 0.008 | 0.004 | 0.007 | 0.003 | 0.007 | 0.00Z | 2035 | | 6.1 | 0.193 | 0.097 | 0.191 | 0.206 | 2035 | 0.447 | 4.997 | 2035 |
| 116.9 | 6.7 | 0.5 | 0.054 | 0.036 | 0.010 | 0.004 | 0.007 | 0.011 | 2036 | 0.181 | 0.092 | 0.033 | 0.005 | 0.017 | 0.005 | 0.009 | 0.004 | 0.007 | 0.003 | 0.007 | 0.002 | 2036 | | 6.2 | 0.196 | 0.098 | 0.195 | 0.209 | 2036 | 0.454 | 5.075 | 2036 |

W-4 Total Fatal and Injury Crash Summary

Crash Prediction on the No Action Alternative

| Crash Pre | diction on N | lo Action Al | ternative |
|-----------|--------------|--------------|-----------|
| Year | Crashes | F and I | PDO |
| 2017 | 27.4 | 11.0 | 16.5 |
| 2018 | 27.9 | 11.1 | 16.7 |
| 2019 | 28.3 | 11.3 | 17.0 |
| 2020 | 28.8 | 11.5 | 17.3 |
| 2021 | 29.3 | 11.7 | 17.6 |
| 2022 | 29.7 | 11.9 | 17.9 |
| 2023 | 30.2 | 12.1 | 18.2 |
| 2024 | 30.7 | 12.3 | 18.5 |
| 2025 | 31.2 | 12.5 | 18.8 |
| 2026 | 31.7 | 12.7 | 19.1 |
| 2027 | 32.2 | 12.9 | 19.4 |
| 2028 | 32.8 | 13.1 | 19.7 |
| 2029 | 33.3 | 13.3 | 20.0 |
| 2030 | 33.8 | 13.5 | 20.3 |
| 2031 | 34.4 | 13.7 | 20.7 |
| 2032 | 35.0 | 14.0 | 21.0 |
| 2033 | 35.5 | 14.2 | 21.3 |
| 2034 | 36.1 | 14.4 | 21.7 |
| 2035 | 36.7 | 14.6 | 22.0 |
| 2036 | 37.3 | 14.9 | 22.4 |
| Total: | 642.5 | 256.5 | 386.0 |

*This table is based on a 10 year crash average from Thorncreek Road to Moscow between 2003 and 2012 and a growth factor of 1.63%.