


## CORRIDOR PLAN PURPOSE

This Corridor Plan is part of a set of documents created through a comprehensive planning process entitled Wyoming Connects. This set of documents captures consistent, transparent, and repeatable planning steps, analysis, and resulis designed to provide intormation to guide project selection and programming decision makers. Each document is designed to build upon prior documents and cascade the Strategic Goals of WYDOT forward from the overarching Strategic Plan to the system wide Long Range Transportation Plan, applied in the development of Corridor Visions, and the definition of Needs and potential Solutions to achieve the vision in Corridor Plans.

## PERFORMANCE BASED NEEDS

The Corridor Plan utilizes a performance based approach to needs definition. A system of performance measures is used to evaluate the corridor. The architecture of this tiered system is focused on the three Investment Categories identified in the Long Range Transportation Plan: System Preservation, Safety, and Mobility. Performance measures include both absolute and comparative targets. Absolute measures gauge progress towards long term goals, while comparative measures between corridor and system performance provide information to assist in prioritization.

A need is defined as a deviation between these targets and measured performance. The first tier of the system allows for rapid identification of need in each of the Investment Categories through a Performance Indicator. The second tier provides additional information to qualify potential causes through a set of Performance Qualifiers. GIS based Mapping Analysis tools provide for a spatial analysis of these measurements to further investigate causes and identify overlapping needs.

## TIERED APPROACH

A method to evaluate performance goals at a general level and then advance through the system/hierarchy to filter data and define needs.


## INVESTMENT <br> CATEGORY

## PERFORMANCE INDICATOR:

 These are quantifiable and repeatable measurements that reflect the overall performance of the transportation corridor being analyzed. Targets for these indicators may be absolute and indicate a desired condition or comparative to current performance of the overall system to indicate relative priority.
## PERFORMANCE QUALIFIER:

These measures include items that may contribute to the results of the indicator. These variables are measurable and actionable. They are used to qualify the need so that solution sets may be applied.

## MAPPING ANALYSIS:

Mapping the deviated performance qualifiers against several
factors to effectively prioritize, locate, and identify needs.

NEEDS DRIVEN SOLUTIONS:
Performance based needs are captured and documented. These needs remain until the separates the discussion of need from the discussion of projects, which enhances the transparency of prioritization.
From WYDOT's list of preferred remedies to specific problems, preliminary solutions sets are developed for the identified needs. Thes sets may be tailored by the specific context
of the corridor. For each of the three funding of the corridor. For each of the three funding
scenarios of the long range plan, the solution to be considered may vary and the size of the program change. A recommended program can be selected based on anticipated funding levels.



Program Alternatives ogram Alternatives
based on Funding Scenarios

## SSC 12-CHEYENNE TO BUFFALO-I-25 <br> CORRIDOR PLAN

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## I. STATE SIGNIFICANT CORRIDOR 12 - DESCRIPTION

 CORRIDOR DESCRIPTIONState Significant (SSC) 12 includes Interstate 25 (I-25) from the Wyoming/ Colorado border near Cheyenne in the south to the town of Buffalo 300 miles north where it intersects I-90. It passes through Wyoming's two largest cities, Cheyenne and Caspe and WYDOT Districts 1, 2, and 4. The route passes through several small towns, including Chugwater, Wheatland, Orin, Douglas, Glenrock, Midwest, and Kaycee

SSC 12 crosses the heart of eastern Wyoming and connects to seven other SSCs (1, $9,10,11,13,14$, and 15) and forms a critical link for access to much of the state as well as interstate travel as a connection between I-80 and I-25. SSC 12 is an important route to Billings, Montana, to the north and Denver, Colorado, and its Front Range communities to the south. It provides commuter, tourism and recreational truck, and energy-related functions. The Orin to Douglas area affords fishing and
boating opportunities along the North Platte River, including Guernsey and Glendo Reservoirs. The connections to other major corridors provide access to all types of recreation opportunities to the east and west.

Cheyenne is Wyoming's state capitol and home to F.E. Warren Air Force Base, both of which generate travel demands on I-25. It has a federally designated Metropolitan Planning Organization. The BNSF Railway parallels 1-25 from Cheyenne to Casper. The Cheyenne airport is significant for its passenger service and as the home base fo state government's service to remote areas.

Casper is the second largest city in Wyoming, and also has a federally designated Metropolitan Planning Organization. Casper is nicknamed "The Oil City" and has
a long history of oil boomtown and cowboy culture, dating back to development of the nearby Teapot Dome. Casper is a regional center of banking and commerce. Development of Wyoming coal and uranium fields in recent decades has helped Casper continue its role as a center in the energy industry. Casper College offers bachelor's degrees from the University of Wyoming

Additional information including environmental context, key issues, and emerging trends is provided in the Corridor Visions and LRTP phases of Wyoming Connects. This Corridor Plan focuses on the identification of the corridor needs through the analysis of corridor performance.

## CORRIDOR SEGMENTS

SSC 12 has been divided into 10 planning segments. Planning segments identify generally consistent sections of the corridor for planning level analysis. The planning segments vary in length depending on the context of the corridor. The corridor was segmented at all urban areas and at the intersection of other SSCs. Other context changes may include: roadway typical section (through lanes, shoulders, etc.), average daily traffic, intersecting routes, and terrain. Each segment break or endpoint was assigned as closely as possible to the nearest maintenance section endpoint; segments generally encompass multiple maintenance sections. The planning segments allow for an appropriate analysis and evaluation of corridor needs at a planning level while still providing geographic reference.

Table 1 and the accompanying map on the next page describe general characteristics of each corridor segment.


Table 1-Segments for State Significant Corridor 12


## II. EVALUATION OF CORRIDOR PERFORMANCE

This section describes the evaluation of specific corridor needs based on the performance based process defined in the IPF. The Performance Based Needs Process, shown below, illustrates the steps followed for this corridor plan. Indicative Performance measures based on existing or simply defined index measurements for each investment category of System Preservation, Safety, and Mobility were evaluated to preliminarily identify need relative to long term goals. Qualifying performance measures were evaluated to better assess contributing factors to the primary need indicators. The indicators and qualifiers were factors to the primary need indicators. The indicators and qualifiers were evaluated and analyzed relative to system averages and, when available, previously specified performance targets. This gap analysis identifies locations where needs
exist, qualifies the nature of the need, and provides information on the priority exist, qualifies the nature of the need, and provides
relative to the system of SSCs and available funding

Many of the measures were established as comparisons to the system average, therefore good performance indicates performance better than the system average. The reverse is also true, poor performance indicates that performance is below the average or rated as poor for a particular indicator or qualifier. As additional corridors are evaluated, specific performance targets may be set to measure absolute performance. The IPF process recommends a mix of absolute measures to evaluate true need relative to long term goals and comparative measures to assist in determining priority.


STEP 1: SUMMARY OF INDICATOR AND QUALIFIER PERFORMANCE MEASURES

This corridor plan evaluates System Preservation, Safety, and Mobility performance using the process described in the Integrated Planning Framework, published eparately. The plan analyzes the performance of planning segments described Table 1 as compared to system averages. It identifies good fair poor or less, in Table 1 as compared to system averages. It identifies good, fair, poor or less, contributing qualifier measurement.

Throughout this report, the color green is used to represent System Preservation, blue represents Safety, and yellow represents Mobility. Lighter shades represent better performance and darker shades represent worse performance compared to the system average.

Table 2 summarizes the results for each performance index and qualifier for each planning segment on the corridor

Table 2 - Indicator and Qualifier Performance of SSC 12

|  | SYSTEM PRESERVATION |  |  |  |  | SAFETY |  |  |  |  |  |  |  | MOBILITY |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Segment | $\begin{gathered} \text { System } \\ \text { Preservation } \\ \text { Index } \end{gathered}$ | Ruting | $\begin{gathered} \text { Pavement } \\ \text { Maint. } \\ \text { Requirement } \end{gathered}$ | $\begin{array}{\|c} \text { Pavement } \\ \text { Variance } \\ \text { Rating } \end{array}$ | Bridge Variance Rating | Safety Index | $\begin{aligned} & \text { Weather } \\ & \text { Realted } \\ & \text { Rashes } \end{aligned}$ | $\begin{aligned} & \text { Willifíe } \\ & \text { Relited } \\ & \text { Crashes } \end{aligned}$ | $\begin{aligned} & \text { Alconol } \\ & \text { Relented } \\ & \text { Rrashes } \end{aligned}$ | $\begin{array}{\|l\|l\|} \hline \begin{array}{l} \text { Non-use of } \\ \text { fafter } \end{array} \\ \text { Restraints } \end{array}$ | Horizontal <br> Geometic <br> Insufficiency | $\begin{array}{c\|} \hline \text { Vertical } \\ \text { Geometric } \\ \text { Insufficiency } \end{array}$ | $\begin{aligned} & \text { Crash } \\ & \text { Concen- } \\ & \text { trations } \end{aligned}$ | Mobility Index | $\begin{aligned} & \text { Volume to } \\ & \text { Copacity } \\ & \text { Rating } \end{aligned}$ | $\begin{array}{\|c} \hline \begin{array}{c} \text { Pavement } \\ \text { Variance } \\ \text { Rating (LLR) } \end{array} \end{array}$ | Traffic <br> Growth | $\underset{\substack{\text { Truck Traffic } \\ \text { Growth }}}{\text { Gent }}$ | $\begin{gathered} \text { Bridge } \\ \text { Variance } \\ \text { (LLR) } \end{gathered}$ |
| 12.01 | Average | Good | Average | Good | Less | Fair | More | Less | Average | More | Less | More | Good | Average | Good | Fair | More | Averag | Average |
| 12.02 | Better | Good | Average | Good | Less | Fair | More | Average | Average | More | Less | Average | Poor | Better | Good | Fair | Average | Averag | Less |
| 12.03 | Better | Good | Average | Go | Less | Fair | Average | Average | Less | ore | Less | Average | Fair | Better | Good | Fair | More | verag | Less |
| 12.04 | Average | Good | More | Good | Less | Fair | More | Average | Averag | Average | Less | Average | Poor | Average | Goo | Poor | Averag | Averag | Less |
| 12.05 | Average | Fair | More | Fair | Average | Good | More | Average | Average | More | Less | Less | Good | Worse | Good | Poor | Average | Average | Average |
| 12.06 | Better | Good | Average | Good | Less | Fair | More | Average | Average | Average | Less | Average | Fair | Average | Good | Poor | Average | Average | Average |
| 12.07 | Average | Fair | Average | Fair | Average | Poor | More | Less | More | More | Less | Average | Poor | Average | Good | Poor | Average | Average | Average |
| 12.08 | Average | Poor | More | Fair | Less | Fair | More | Average | More | Average | Less | Less | Poor | Better | Good | Good | Average | Average | Less |
| 12.09 | Average | Fair | More | Good | Less | Good | Average | Average | Average | Average | Less | Average | Good | Average | Good | Poor | More | Average | Less |
| 12.10 | Worse | Fair | Average | Fair | Average | Good | Less | More | Less | Less | Less | Less | Poor | Average | Good | Poor | More | Average | Less |



SSC 12 Cheyenne to Buffalo - -25


STEP 2
Performance qualifiers with a negative effect on the System Preservation Index:
Performance qualifiers with a negative effect on the System Preservation Index

- The Pavement Rutting score on segment 12.08 is poor

The Pavement Maintenance Requirement on segments 12.04, 12.05, 12.08 and 12.09 is more than average
Refer to the sections below for more information

|  | SYSTEM PRESERVATION |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Segment | System <br> Preseration <br> Index | Rutuing | Pavement <br> Maint. <br> Requirement | Pavement <br> Variance <br> Rating | Bridge <br> Variance <br> Rating |
| 12.01 | Average | Good | Average | Good | Less |
| 1220 | Better | Good | Average | GGod | Less |
| 12.03 | Better | Good | Average | Good | Less |
| 12.04 | Average | Good | More | Good | Less |
| 12.05 | Average | Fair | More | Fair | Average |
| 12.06 | Better | Good | Average | Good | Less |
| 12.07 | Average | Fair | Average | Fair | Average |
| 12.08 | Average | Poor | More | Fair | Less |
| 12.09 | Average | Fair | More | Good | Less |
| 12.10 | Worse | Fair | Average | Fair | Average |

## Pavement Maintenance Requirements

The pavement maintenance sections that were recommended by the Pavement
Management System (Agile Assets) and not yet selected to receive funding within the STIP will continue to decline. If not treated fairly soon, the treatments will become more costly as conditions deteriorate.

There are no segments that have been identified as having a 1 S need within Corridor 12 according to the Pavement Management System. However, based upon current available funding, two projects, representing 12 miles of pavement, have been selected to be completed within the next several years.
27\% of Corn 12 hem ry represents 82 miles of pavement. Segments $12.02,12.03,12.04,12.05,12.09$, and 12.10 have $2 S$ treatment recommended by the Pavement Management System. Based upon current available funding, only eight projects, representing 49 miles of pavement, have been selected to be completed within the next several years.

Approximately $73 \%$ has been identified as having a 3 S need. This represents 218 miles of pavement. Segments $12.01,12.02,12.03,12.04,12.05,12.06,12.07$, 12.08, 12.09, and 12.10 have $3 S$ treatment recommended by the Pavement

Management System. Based upon current available funding, only two projects, representing two miles of pavement, have been selected to be completed within the next several years.

Based upon current available funding within the STIP, Corridor 12 has identified four 4 S projects, representing 15.5 miles of pavement.
between RM 196 and 206, and 6 miles between RM 200 and 206 both in segment 12.08.


## Pavement Variance Rating

The Pavement Variance Rating is fair or better for the entire corridor. Pavement hotspots, identified by length and severity, occur at two spots near Buffalo (most or moderately severe), and one other location (moderately severe).

## Bridge Variance Rating

The Bridge Variance Rating for all of the corridor is average or better than the system average. All segments have at least one bridge. There are 21 structurally deficient bridges along SSC 12, 18 with bridge decks under 15,000 ft2, two under $30,000 \mathrm{ft} 2$, and one $55,500 \mathrm{ft} 2$. The structurally deficient bridges are in segments 12.01 (2), 12.02 (2), 12.04 (5), 12.05 (1), 12.07 (1), 12.09 (2), and 12.10 (8), resulting in Bridge Variance Ratings of average when compared to the system average.

NOTE: See Appendix for maps documenting each performance qualifier.


SSC 12 Cbyemne to Burfalo $1-25$

## Performance Index

The Safety Performance Index ranges from good to poor across the corridor. Segments rated poor include 12.07.

Performance qualifiers with poor performance include
Weather Related Crashes are more than the average on segments $12.01,12.02$, 12.04, 12.05, 12.06, 12.07, and 12.08

- Wildlife Related Crashes are more than the average on segment 12.10.
- Alcohol Related Crashes are more than the average on segments 12.07 and 12.08.
- Non-Use of Safety Restraints is more than the average on segments 12.01, 12.02
12.03, 12.05, and 12.07.
- Crashes on Horizontal Geometric Insufficient Curves are more than the average
on segments 12.01.
Crash Concentrations are rated poor on segments $12.02,12.04,12.07,12.08$, and 12.10.

Refer to the sections below for more information.

|  | SAFETY |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Segment | $\begin{aligned} & \text { Safety } \\ & \text { Index } \end{aligned}$ | Weather Related Crashes | $\begin{aligned} & \text { Wiillifíf } \\ & \text { Relited } \\ & \text { Crashes } \end{aligned}$ | $\begin{aligned} & \text { Alcohol } \\ & \text { Related } \\ & \text { Crashes } \end{aligned}$ | $\begin{array}{\|l\|l\|} \hline \begin{array}{l} \text { Non-use of } \\ \text { Safety } \\ \text { Restraints } \end{array} \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Horizontal } \\ \text { Geometric } \\ \text { Insufficiency } \end{array}$ | Vertical Geometric Insufficiency | $\begin{aligned} & \text { Crash } \\ & \text { Concen- } \\ & \text { (Tations } \end{aligned}$ |
| 12.01 | Fair | More | Less | Average | More | Less | More | Good |
| 12.02 | Fair | More | Average | Average | More | Less | Average | Poor |
| 12.03 | Fair | Average | Average | Less | More | Less | Average | Fair |
| 12.04 | Fair | More | Average | Average | Average | Less | Average | Poor |
| 12.05 | Good | More | Average | Average | More | Less | Less | Good |
| 12.06 | Fair | More | Average | Average | Average | Less | Average | Fair |
| 12.07 | Poor | More | Less | More | More | Less | Average | Poor |
| 12.08 | Fair | More | Average | More | Average | Less | Less | Poor |
| 12.09 | Good | Average | Average | Average | Average | Less | Average | Good |
| 12.10 | Good | Less | More | Less | Less | Less | Less | Poor |

## Performance Qualifiers

## Weather Related Crashes

Weather related crashes are a significant concern for this corridor. The ratio of weather related crashes to total crashes was above the system average in all but two segments. The highest percentage of weather related crashes, approximately $48 \%$, occurred in Segments 12.01, 12.02, and 12.05, and was twice the system average. The adverse conditions frequently identified included snow, blowing snow, blizzard, rain, adverse conditions frequently identified incluaded snow, blowing snow, blizzard, rain,
sleet/hail/freezing rain, fog, and severe wind. Segments 12.03, 12.04, 12.06, 12.07, and 12.08 also had a percentage rating higher than the system average. Hazardous weather conditions are a significant problem for this stretch of Interstate.

## Wildlife Related Crashes

Corridor 12 is varied in its wildlife related collisions. Segments 12.09 and 12.10 have the highest rate of accidents involving wildlife within the Corridor, each received $42 \%$ and $60 \%$ respectively. The urban segment on 12.01 near Cheyenne had the lowest rating of accidents involving wildlife, with only $4 \%$ of accidents that involv wildlife

Segment 12.10 is a rural highway between Kaycee and Buffalo. Wildlife crashes occur along the entire segment; however, the section from mileposts 295 though 299 had significantly higher number of crashes than the rest of the 46 -mile segment. A asore the wildife crashes involve deer and occur during darkness. The crashe Department

## Alcohol Related Crashes

The percentage of alcohol related crashes is below at the system average except for the two segments in the Casper area. The crash locations in segment 12.07, approximately 16 miles in length, were concentrated between RM 186 and 190 . Segment 12.08, north of Casper to WYO 259, also had an alcohol related crash rate higher than the system average and crash locations occurred along the entire segment.

## Non-use of Safety Restrain

Within SSC 12, the ratio of crashes in which a restraint device was not worn to total crashes is above the system average. All segments were high, but segment 12.01 had the highest percentage ( $90.58 \%$ ) of crashes in which seat belts were not worn.

## Horizontal Geometry Insufficiency

Corridor 12 has one horizontal alignment found to be insufficient based on the associated posted speed and an assumed emax of $8 \%$. The horizontal alignment insufficiency was calculated along ML 25 at RM 100.8. No crashes were recorded at this location. Because of the low number of crashes, it is suggested funding be spent in other locations where there are more crashes that can be attributed to poor roadway geometry.
Table 4-Horizontal Geometry Insufficiency

| Segment | ML Route | Route Marker | \# of Crashes |
| :---: | :---: | :---: | :---: |
| N/A |  |  |  |

## Vertical Geometry Insufficiency

Several vertical alignments were found to be insufficient based on the associated posted speed and the length of the curve for stopping sight distance. Segment 12.01 has the most insufficient vertical alignments within the corridor. Further study will need to take place to determine specific needs of each alignment and the constraints to which it was designed and built.

Table 5 summarizes locations where a vertical profile corresponded to a crash. The data is not clear if the crash was directly related to the geometry. However, locations with several crashes should be further studied. The table summarizes locations of insufficient profiles with more than one crash in the near vicinity within the 5 year crash analysis.

Table 5 - Vertical Geometry Insufficiency

| Segment | ML Route | Route Marker | Curve Type | \# of Crashes |
| :---: | :---: | :---: | :---: | :---: |
| 12.01 | ML25D | 9.48 | SAG | 5 |
| 12.01 | ML25D | 10.41 | SAG | 6 |
| 12.01 | ML25D | 11.23 | CREST | 12 |
| 12.01 | ML25D | 15.86 | CREST | 9 |
| 12.01 | ML251 | 10.79 | CREST | 3 |
| 12.01 | ML251 | 11.23 | CREST | 5 |
| 12.01 | ML251 | 15.86 | CREST | 7 |
| 12.03 | ML25D | 66.98 | CREST | 3 |
| 12.03 | ML251 | 64.57 | CREST | 3 |
| 12.04 | ML25D | 92.36 | SAG | 4 |
| 12.04 | ML25D | 100.52 | CREST | 2 |
| 12.04 | ML25D | 108.96 | CREST | 6 |
| 12.04 | ML251 | 98.94 | CREST | 2 |
| 12.04 | ML251 | 108.88 | CREST | 5 |
| 12.04 | ML25I | 109.04 | SAG | 5 |
| 12.06 | ML25D | 164.42 | SAG | 2 |
| 12.06 | ML25D | 174.66 | SAG | 2 |
| 12.06 | ML251 | 148.19 | CREST | 3 |
| 12.06 | ML251 | 171.44 | SAG | 2 |
| 12.06 | ML251 | 171.97 | CREST | 3 |
| 12.06 | ML25I | 178.92 | SAG | 6 |
| 12.07 | ML25D | 187.53 | CREST | 6 |
| 12.07 | ML25D | 188.46 | SAG | 7 |
| 12.07 | ML25D | 188.60 | CREST | 2 |
| 12.07 | ML251 | 180.56 | SAG | 2 |
| 12.07 | ML251 | 187.53 | CREST | 8 |
| 12.07 | ML25I | 188.46 | SAG | 2 |
| 12.07 | ML25 | 188.60 | CREST | 6 |

## Crash Concentrations

Crash concentrations are identified by locating spatially significant clusters of individual crash events that are of a similar severity level. The concentrations fall into one of two severity types: Critical, which consists of only "Critical" level crashes, and Other, which consists of "Severe" and "Damage" level crashes.

There are sixteen Critical concentrations on Corridor 12, which are listed in Table 6. Additionally, there is one Other type concentration. Segment 12.04 exhibits the most crash concentrations with 4 Critical concentrations, see table below to see occurrences. Segments 12.01, 12.04, 12.06, 12.09, and 12.10 have Other type concentrations, resulting primarily from Damage level crashes
Table 6-Critical Crash Concentrations

| Segment | ML Route | Route Marker |  |
| :---: | :---: | :---: | :---: |
|  |  | From | To |
| 12.02 | ML25 | 39.7 | 40 |
| 12.02 | ML25 | 44.4 | 44.7 |
| 12.02 | ML25 | 51 | 51.8 |
| 12.03 | ML25 | 71.8 | 72.4 |
| 12.04 | ML25 | 88.8 | 90.6 |
| 12.04 | ML25 | 91.6 | 92.8 |
| 12.04 | ML25 | 99.8 | 100.2 |
| 12.04 | ML25 | 102.8 | 103 |
| 12.06 | ML25 | 172.8 | 173 |
| 12.07 | ML25 | 183 | 184 |
| 12.07 | ML25 | 188.6 | 189 |
| 12.07 | ML25 | 193 | 193.3 |
| 12.08 | ML25 | 198.5 | 198.8 |
| 12.08 | ML25 | 205.6 | 206.2 |
| 12.10 | ML25 | 267.9 | 268.3 |
| 12.10 | ML25 | 272 | 272.4 |

NOTE: See Appendix for maps documenting each performance qualifier



| MOBILITY |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |
| Segment | Mobility <br> Index | Volume to <br> Capacity <br> Rating | Pvmnt. Var. <br> Rating (L/R) | Traffic <br> Growth | Truck Traffic <br> Growth | Bridge <br> Variance <br> LLR) |
| 12.01 | Average | Good | Fair | More | Average | Average |
| 12.02 | Better | Good | Fair | Average | Average | Less |
| 12.03 | Better | Good | Fair | More | Average | Less |
| 12.04 | Average | Good | Poor | Average | Average | Less |
| 12.05 | Worse | Good | Poor | Average | Average | Average |
| 12.06 | Average | Good | Poor | Average | Average | Average |
| 12.07 | Average | Good | Poor | Average | Average | Average |
| 12.08 | Better | Good | Good | Average | Average | Less |
| 12.09 | Average | Good | Poor | More | Average | Less |
| 12.10 | Average | Good | Poor | More | Average | Less |

Five regional routes connect to SSC 12. The condition of each local and regional route is associated with a planning segment and directly influences the mobility of that segment. The condition of some local and regional routes is poor. There are currently five structurally deficient bridges on the local and regional routes.
SSC 12 is subject to heavy loads associated with of all the energy development in the area, as well as agricultural products equipment, and stock movement. Most of this corridor has moderate to high traffic volumes. This route fulfills an important function of connecting the smaller communities along the border with each other as well as the urban centers of Torrington and Cheyenne. Shoulder widths are typically 10 ' with some rumble strips.

Table 7 - Major Traffic Generators
State Capitol - Cheyenne
Employment centers - Cheyenne, Casper, Buffalo
Energy industry truck traffic - gas/oil/wind
Energy industry center - Casper
interstate commercial trucks
F.E. Warren Air Force Base - Cheyenne

Local/regional recreation - Glendo State Park \& Reservoir, Edness Kimball-Wilkins State Park

## Performance Qualifiers

## Volume to Capacity Rating

Volume to Capacity Ratio (V/C) is a measure that reflects mobility and quality of travel of a corridor or section of a corridor. It compares roadway demand (vehicle
volumes) with roadway supply (carrying capacity). The volume to capacity rating fo the entire SSC 12 is good.

## Traffic Growth

The average traffic growth within the SSC System is $1.42 \%$. All segments within Corridor 12 are above this average. The highest growth rates were found in segments 12.01 and 12.09. Segment 12.01 connects Cheyenne to ML85 on ML 25 and segment 12.09 connects ML259 to Kaycee on ML 25.

Table 8 - Traffic Growth

| Segment | AADT 2010 | Average 20 Year Growth |
| :---: | :---: | :---: |
| 12.01 | 17,018 | $1.99 \%$ |
| 12.02 | 6,478 | $1.85 \%$ |
| 12.03 | 6,231 | $1.89 \%$ |
| 12.04 | 6,365 | $1.73 \%$ |
| 12.05 | 7,419 | $1.69 \%$ |
| 12.06 | 7,911 | $1.49 \%$ |
| 12.07 | 10,168 | $1.56 \%$ |
| 12.08 | 4,303 | $1.44 \%$ |
| 12.09 | 3,179 | $1.99 \%$ |
| 12.10 | 2,828 | $1.95 \%$ |

## Truck Traffic Growth

The average truck traffic growth within the SSC System is $1.34 \%$. The majority of SSC 12 segments are above this average with the exception of segment 12.08. The SSC 12 segments are above this average with the exception of segment 12.08. The
majority of the corridor is an inter-rural roadway classification. Segment 12.01 has the highest average annual truck growth rate. This segment is from the Colorado State Line north through Cheyenne via I-25.

Table 9-Truck Traffic Growth

| Segment | AADTT 2010 | \% Trucks 2010 | Truck Traffic Growth |
| :---: | :---: | :---: | :---: |
| 12.01 | 2,912 | $17.22 \%$ | $2.13 \%$ |
| 12.02 | 1,089 | $16.85 \%$ | $1.60 \%$ |
| 12.03 | 1,054 | $16.92 \%$ | $1.79 \%$ |
| 12.04 | 1,089 | $17.12 \%$ | $1.75 \%$ |
| 12.05 | 1,204 | $16.30 \%$ | $1.75 \%$ |
| 12.06 | 1,315 | $16.62 \%$ | $1.52 \%$ |
| 12.07 | 1,779 | $15.66 \%$ | $1.52 \%$ |
| 12.08 | 987 | $19.31 \%$ | $1.29 \%$ |
| 12.09 | 738 | $23.21 \%$ | $1.82 \%$ |
| 12.10 | 683 | $23.84 \%$ | $1.84 \%$ |

## Local and Regional Roads

Local and Regional Routes that connect to the SSC affect the Mobility Performance Indicator. These routes serve the important function of connecting rural areas to the primary routes. While traffic volumes are typically low on these secondary routes, maintaining them in acceptable condition is important to general mobility for the
state. This analysis includes pavement and bridge condition as qualifiers.
Local and Regional Roads Impacting Pavement Variance Rating (L/R)
The Mobility Index may be affected by local and regional routes that have poor pavement condition as reflected by the Pavement Variance Rating (PVR). The PVR is the product of Pavement Sufficiency Rating (PSR) calculated as the deviation from the system average. Poor PSR is reported on local/regional routes associated with segments $12.03,12.04,12.05,12.06,12.07,12.09$, and 12.10 . Table 10 lists the local/regional routes with poor PSR.

Table 10 - Local/Regional Routes with Poor PSR

| Segment | Average PVR | ML Route | Route Marker |  | Average PSR |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Begin | End |  |
| 12.03 | 0.85 | ML321 | 55.18 | 57.93 | 2.40 |
| 12.04 | 1.11 | ML1600 | 1.00 | 8.49 | 2.14 |
| 12.04 | 0.94 | ML312 | 0.00 | 7.30 | 2.31 |
| 12.05 | 1.69 | ML91 | 0.00 | 23.10 | 1.56 |
| 12.05 | 1.29 | ML94 | 0.00 | 16.61 | 1.96 |
| 12.06 | 1.10 | ML504 | 1.68 | 18.88 | 2.15 |
| 12.06 | 2.73 | ML507 | 0.00 | 3.00 | 0.52 |
| 12.06 | 1.51 | ML96 | 0.00 | 3.11 | 1.74 |
| 12.07 | 1.27 | ML253 | 0.00 | 10.90 | 1.98 |
| 12.07 | 1.07 | ML254 | 0.00 | 4.06 | 2.18 |
| 12.07 | 1.26 | ML256 | 0.00 | 2.67 | 1.99 |
| 12.07 | 0.87 | ML47 | 0.00 | 2.89 | 2.38 |
| 12.09 | 0.93 | ML1006 | 249.58 | 299.42 | 2.46 |
| 12.09 | 0.79 | ML42 | 93.45 | 151.26 | 2.46 |
| 12.10 | 1.33 | ML1000 | 100.00 | 109.66 | 1.92 |
| 12.10 | 1.37 | ML1002 | 0.00 | 35.64 | 1.92 |
| 12.10 | 1.13 | ML59 | 298.02 | 299.70 | 2.12 |

## Bridge Variance Rating (L/R)

The bridge variance rating for local and regional routes on SSC 12 shows 6 structurally deficient bridges. The locations of the bridges are shown in the table below.

Table 11- SSC 12 Structurally Deficient Bridges on Local/Regional Routes

| Segment | ML Route | Route Marker |
| :---: | :---: | :---: |
| 12.01 | ML212 | 5.95 |
| 12.01 | ML223 | 0.86 |
| 12.04 | ML40 | 15.9 |
| 12.05 | ML40 | 15.9 |
| 12.06 | ML500 | 0 |
| 12.07 | ML254 | 1.38 |

NOTE: See Appendix for maps documenting each performance qualifier.


## Environmental Overview

The Wyoming Interagency Spatial Database and Online Management System (WISDOM) was queried to identify natural resources that could be impacted by transportation projects. The following summary lists the general type of potentially impacted resources. The project development phase should investigate these resources in more detail to determine if mitigation activities are required. Please see Appendix and http://wisdom.wygisc.org/ for detailed information.

There are ten different terrestrial habitat types located throughout the ten special management areas within SSC 12. Five federally listed species within the corridor fall into one of three categories, candidate, endangered, and threatened. Two big game species and fifteen raptor specie are found in SSC 12. There are four different categories that fall under the aquatic habitat. There are twenty-one watersheds, three aquatic crucial priority areas, three aquatic enhancement priority areas, and one combined enhancement priority area. See Table 12 for general locations.

Table 12 - Environmental Considerations

| Category | SOUTH <br> (State line - Orin) | CENTRAL <br> (Orin - Casper) | NORTH <br> (Casper - Buffalo) |
| :--- | :--- | :--- | :--- |
| Big Game Crucial Range | Mule Deer <br> Pronghorn Antelope | Mule Deer <br> Pronghorn Antelope | Pronghorn Antelope |
| na | na |  |  |
| Big Game Migration Route | na | na |  |
| WGFD Aquatic Crucial Priority <br> Areas SHP | Middle North Platte-Glendo | Middle North Platte-Glendo <br> North Platte Corridor |  <br> Riparian Corridors |
| Areas SHP |  |  |  |



## Summary of Needs

This section summarizes needs by planning segment for each of the three performance indicators and the supporting performance qualifiers. The summary identifies overlapping needs, which provides guidance the efficient prioritization of projects to best address deficiencies. The practice of completing projects that simultaneously address multiple needs may present cost savings as well as being most effective in improving performance indexes across the system. The summary also lists other needs in each of the three performance measurement areas. For more information about needs at the corridor level, see the maps in the appendix which compare both system level and corridor level needs.

SSC 12 needs occur in all three Performance Indexes. Within System Preservation, five segments are reported with pavement needs, along with three pavement hotspots and 22 structurally deficient bridges. Within Safety, weather related crashes and the non-use of safety restraints are prevalent. Sixteen areas of critical crash concentrations occur on the corridor. Within Mobility, pavement conditions on local/ regional routes is poor, along with 6 structurally deficient bridges. Traffic growth is high through parts of the corridor.

Several big game crucial ranges for Mule Deer and Pronghorn Antelope intersect parts of the corrido and should be investigated for concurrence with wildlife related crashes. The Wyoming Game and Fish Department documents the entire corridor as Terrestrial and Aquatic Crucial Priority Areas. Severa federally listed endangered species are found in the corridor and should be considered in all project planning.

Based on the needs identified in this analysis and the recommended strategies and solution sets, this plan does not identify specific needs to preserve or acquire additional rights of way to accommodate mprovements. Heavier traffic in the Cheyenne urban area present challenges for traffic management and safety and should be evaluated for future improvements, including new or reconstructed interchanges. WYDOT owns sufficient right of way for the Interstate highway mainline for the foreseeable future. However, due to rapidly increasing traffic and truck volumes, interchange improvements or additions could be required in some locations. This plan does not identify specific future interchange locations. However, if such projects are planned, additional right of way may be required in some cases. Interchange locations in the cities along the route would need to be coordinated with local planning processes.

## Overlapping Needs

Overlapping needs are identified on all segments:
2.01 - SAFETY/MOBILITY: Weather Related Crashes, Non-use of Safety Restraints, Vertical Geometric Deficiency, Traffic Growth
12.02 - SAFETY: Weather Related Crashes, Non-use of Safety Restraints, Crash Concentrations
12.03 - SAFETY/MOBILITY: Non-use of Safety Restraints, Crash Concentrations, Traffic Growth
12.04 - SYSTEM PRESERVATION/SAFETY: Pavement Maintenance Requirement, Bridge Variance Rating, Weather Related Crashes, Crash Concentrations
12.04 - MOBILITY: Pavement Variance Rating (L\&R), Bridge Variance Rating (L/R)/Structurally Deficient Bridge
12.05 - SYSTEM PRESERVATION/SAFETY: Pavement Maintenance Requirement, Bridge Variance Rating, Weather Related Crashes, Non-Use of Safety Restraints
12.05 - MOBILITY: Pavement Variance Rating (L\&R), Bridge Variance Rating (L/R)/Structurally Deficient Bridge
812.06 - SAFETY: Weather Related Crashes, Crash Concentrations
12.06 - MOBILITY: Pavement Variance Rating (L/R), Bridge Variance Rating (L/R)/Structurally Deficient Bridge
12.07 - SAFETY: Weather Related Crashes, Alcohol Related Crashes Non-Use of Safety Restraints, Crash Concentrations

11 12.07-MOBILITY: Pavement Variance Rating (L/R), Bridge Variance Rating (L/R)/Structurally Deficient Bridge

12 12.08-SYSTEM PRESERVATION/SAFETY: Rutting, Pavement Maintenance Requirement, Weather Related Crashes, Alcohol Related Crashes, Crash Concentrations
13 12.09-SYSTEM PRESERVATION/MOBILITY: Pavement Maintenance Requirement, Bridge Variance Rating, Traffic Growth
14 12.10-SYSTEM PRESERVATION: Pavement Hotspot, Bridge Variance Rating, Traffic Growth
(15) 12.10 - SAFETY: Wildlife Related Crashes, Crash Concentrations

## Other Performance Index Needs

## System Preservation

16 12.01 - Bridge Variance Rating/Structurally Deficient Bridge
17 12.02 - Bridge Variance Rating/Structurally Deficient Bridge
18 12.07 - Bridge Variance Rating/Structurally Deficient Bridge Mobility

19 12.01 - Bridge Variance Rating/Structurally Deficient Bridge (L/R)
20) 12.09-Pavement Variance Rating (L/R)
21) 12.10 - Pavement Variance Rating (L/R)

## III. SOLUTION SETS

A solutions menu was created to address the needs identified in the previous sections. This menu identifies potential solution strategies grouped by performance measure categories. The strategies are a preliminary list based on industry accepted approaches and the efforts to date of WYDOT programs to document preferred approaches. This list is not intended to be all-inclusive, but represents types of improvements that may be employed to address documented needs.

Section IV recommends how the solution sets may be efficiently grouped depending on funding availability.

Table 13-Recommended Solution Sets to Improve Performance in Each Index

| System Preservation | Safety |  | Mobility |  |
| :---: | :---: | :---: | :---: | :---: |
| Pavement Maintenance Requirement <br> \& Pavement Variance Rating <br> Rutting <br> Mill <br> Mill and overlay <br> 1S Treatments <br> Mill and overlay <br> Seal Coat <br> Cleaning and sealing joints <br> Patching pavement <br> Micro surfacing <br> 2S Treatments <br> Roadway Restoration <br> 3S Treatments <br> Reconstruct Roadway <br> Roadway widening <br> Upgrade geometric design <br> Bridge Variance Rating <br> Bridge Replacement <br> Channel reconstruction <br> Cleaning and sealing bridge members Lower weight limits <br> Restore drainage systems <br> Scour countermeasures | Weather Related <br> Signage <br> Automated anti-icing systems <br> Grooved pavement <br> ITS <br> Larger signs <br> Snow berms/grading <br> Snow fencing <br> Warning beacons <br> Wildlife Related <br> Animal detection systems <br> Animal jump-out or one-way gates <br> ITS <br> Remove brush from ROW <br> Signage <br> Warning beacons <br> Wildlife bridge/underpass <br> Wildlife fencing <br> Alcohol Related Centerline rumble strips ITS Law Enforcement Media campaign Shoulder rumble strips | Horizontal Geometry <br> Centerline rumble strips <br> Dynamic curve warning system <br> Guardrail <br> Improve/restore superelevation <br> Lighting <br> Oversize/length restrictions <br> Reconstruction/realignment <br> Reduce posted speed <br> Reflectors <br> Shoulder rumble strips <br> Signage <br> Warning beacons <br> Vertical Geometry <br> Larger signs <br> Reconstruction/realignment <br> Reduce posted speed <br> Reflectors <br> Signage <br> Warning beacons <br> Safety Restraints <br> ITS <br> Law Enforcement Media campaign |  <br> Traffic Growth / Truck Traffic Growth <br> Acceleration lane <br> Capacity improvements Deceleration lane <br> Increase lane width <br> Intersection/interchange <br> improvements <br> Multimodal improvements <br> Passing lanes <br> Shoulder widening <br> Through lanes <br> Turn lane <br> Bridge Variance (L/R) <br> Bridge Replacement <br> Channel reconstruction <br> Cleaning and sealing bridge members <br> Lower allowable weight limits on bridge <br> Restore drainage systems Scour countermeasures | Pavement Variance Rating (L/R) <br> Rutting <br> Mill <br> Mill and overlay <br> 1S Treatments <br> Cleaning and sealing joints <br> Micro surfacing <br> Mill and overlay <br> Patching pavement <br> Seal Coat <br> 2S Treatments <br> Roadway Restoration <br> 3S Treatments <br> Reconstruct Roadway Roadway widening Upgrade geometric design |

## IV. RECOMMENDATIONS

This section describes recommendations for strategies and priorities to address corridor need The selected strategies address the needs described in previous sections and are organized by the three strategic performance areas: System Preservation, Safety, and Mobility. These recommendations provide information and guidance consistent with the Strategic and Long Range Plans to help WYDOT select projects in coordination with the STIP process.

The recommended strategies have been packaged into solution sets that recognize the inheren overlap that investments may have across performance areas. For example, an intersection mprovement may simultaneously improve traffic flow (Mobility) and reduce crashes (Safety).

The solution sets are tiered to the three Funding Scenarios identified in the Long Range Transportation Plan. The funding scenarios describe a progressively increasing budget, with generally defined allocations to System Preservation, Safety, and Mobility. With each succeeding level of investment, additional funding is allocated to address shortfalls in erformance-based goals.

- Funding Scenario 1 - The continuation of program funding at current levels. Most funding is directed to System Preservation needs. System characteristics are expected to decline with inflation and increasing construction costs over time. Few major projects to address Safety, other than with specially restricted and allocated funds, or Mobility would be implemented.
-Funding Scenario 2 - Funding over and above the base level would allow additional investments in pavement and bridge projects to meet WYDOT goals.
Funding Scenario 3 - Additional funding over and above Scenario 2 would allow WYDOT to maintain and improve existing conditions, achieve pavement and bridge condition goals, plus invest in major projects to improve Mobility


## Funding Scenario 1

Funding Scenario 1, defined as the continuation of current program funding, is focused primarily on addressing System Preservation needs through preventive maintenance efforts. For this corridor, the plan recommends that these funds remain allocated to preventive maintenance, along with reserving a portion to address identified safety needs. The growing raffic and truck traffic volumes, while not generally requiring capacity improvements, do require systematic pavement treatments in order to stay ahead of the pavement lifecycle curve. Less expensive treatments on a regular schedule, delay the need indefinitely for more expensive reconstruction. The corridor also has needs in the bridge area. Bridge maintenance or rehabilitation should be timed to coincide with pavement treatments, to the extent possible

Safety needs are most apparent - corridor wide - in the category of weather related crashes. The non-use of safety restraints is also a frequent factor. Sixteen specific areas of crash concentrations are also observed. WYDOT should consider a targeted effort such as a media campaign and expanded ITS-related information systems to address these issues.

These needs may be only partially met under current funding. Additional needs that cannot be met under Scenario 1 may be delayed pending additional funds under Scenarios 2 or 3

- Surface treatments on the SSC mainline, including mill and overlay
- Bridge rehabilitation and replacement of structurally deficient bridges on the SSC mainline.
Safety campaign to reduce number of weather-related crashes and increase the use of safety restraints.



## Funding Scenario 2

If sufficient funds to preserve the system in at least its current operational form are made available, WYDOT will direct funding to strengthen pavement and bridge conditions actoss the system, including on local and regional routes. The corridor has significant bridge rehabilitation needs on local and regional toutes. This scenario bridge rehabilitaion Preservion investor tar Preservation investment category. Exp in the redu-non-use of safety restrits she considered, especially in areas
of crash concentrations as identified in this corridor plan.

- Preventive maintenance could be deferred and/or advanced
depending on life cycle, as recommended by the Pavement
Management System.
- Reconstruction (2S) to address geometric insufficiencies on the SSC mainline.
Improvement of pavement condition of Local and Regional Routes, to include preventive maintenance or mill and overlay. Bridge rehabilitation on local and regional routes
- Safety program expansion to address weather related crashes and non-use of safety restraints.
- Projects to reduce the number of crashes at curves with a geometric deficiency, not involving major construction.


## unding Scenario 3

If additional funds are made available to WYDOT under Funding Scenario 3, opportunities would be created to address all three investment categories, thus preserving the investment and improving the overall "health" of the system. Additional funds allow project selection to address overlapping needs, therefore investing funds most effectively. The additional funds would expand to include
other items to improve performance in the Mobility Index.

- Roadway reconstruction (3S) to meet long term goals, including correction of geometric deficiencies.
- Interchange improvements to improve safety and traffic flow in high volume areas.
- Improvement of pavement condition of Local and Regional Routes, to include reconstruction (3S).


## Performance Measurement over Time

As these performance measures are continually monitored over time it will become evident how the recommended solution strategies and the selected projects address the needs of the corridor and the overall system. Addressing deficiencies documented in the corridor plan will effectively improve the System Preservation, Safety, and Mobility indexes at both the corridor and system level.

Ongoing performance measure documentation is critical to identify trends, capture the existing health of the system, and allowing an accurate forecast of the future health of Wyoming's Transportation system. The need for additional funding and/or more aggressive solutions will become evident if performance measures fail to meet WYDOT goals.

SSC 12 Cbeyenne to Buffalo -25

## REALIZING THE CORRIDOR VISION

As part of the statewide Wyoming Connects and Long Range Transportation Plan, the Corridor Vision for SSC 12 - and all SSCs - focuses on the identification of overall system performance aggregated from the evaluations of each individual corridor's "health" relative to WYDOT's long-term Strategic Goals. The identified types of investment needs (system preservation, safety, and mobility) expressed in the Corridor Vision are reflected in the three primary need indicators of this Corridor Plan. The analysis of each investment type generated goals representing corridor health issues as communicated by the planning and public process used in development of the Vision. See Wyoming Connects: Corridor Visions for more information

## Corridor Vision Goals

The Cheyenne to Buffalo Corridor Vision captured Key Issues and Emerging Trends of critical importance and how SSC 12 could best serve the communities it connects over the long term. While issues were identified relative to each investment type, the Primary Investment Type is Mobility:


Dashboard from Corridor Visions

| Corridor Visions |  | High Priority | Other Considerations |
| :---: | :---: | :---: | :---: |
| Investment Category | Goal |  |  |
| System Preservation | Preserve the existing transportation system | $\checkmark$ | On-going pavement treatments required to maintain conditions resulting from growing traffic and truck traffic volumes. Several structurally deficient bridges identified for rehabilitation. |
| Safety | Safety |  | Weather related crashes are prevalent throughout the corridor. The high number of critical (severe and fatal) crashes may be reduced by improved use of safety restraints. |
| Mobility | Maintain statewide transportation connections | $\checkmark$ | $\mathrm{I}-25$ is a key interstate connection between Colorado, I-80, and I-90. Operating conditions on interstate highways are expected to be superior. |
|  | Accommodate growth in truck freight transport |  | $\mathrm{I}-25$ is a key link in the state's commercial transportation. Volumes do not indicate the need for expansion at this time, except for interchange improvements at the highest volume interchanges. |
|  | Promote intergovernmental coordination |  | Major improvements on I-25 to be coordinated with local governments/MPOs |
|  | Ensure airport facility meets existing and projected demands |  | The Cheyenne and Casper airports board most of the state's commercial passengers. Connections to the airports should remain solid. |
|  | Improve public transportation opportunities |  | Local transit improvements in Cheyenne, Casper, Buffalo, and Sheridan would help improve mobility for local residents. I-25 is a key intercity bus route. |

## CORRIDOR PERFORMANCE

Table 16 shows SSC 12 corridor performance compared to the system. The center of each chart indicates the value of the performance index, with each section indicating the performance qualifier for each measure
Table 16-Corridor Performance


## Coordination with System Priorities

The corridor comparison can be used to help assign a priority level to entire corridors, if conditions warrant. The Corridor Plans - Executive Summary is published under separate cover and provides an overview of corridor comparisons. The summary identifies areas of greatest need within all performance indexes and for performance qualifiers across the state system. By addressing these areas of greatest need, whether by program, corridor, or corridor segment WYDOT will ensure positive changes in reported conditions throughout Wyoming.

