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Acknowledgements

This plan was created through the efforts of members of the Wyoming Highway Safety Management System (SMS) Committee.

The contributing Committee members are:

Matt Carlson  
State Highway Safety Engineer, Chairman

Tony Laird  
State Highway Development Engineer

Martin Kidner  
State Planning Engineer/Asset Manager

Mark Williams  
District Traffic Engineer

Tim Stark  
State Environmental Services Engineer

David Cough  
Assistant Division Administrator, FHWA

Mike Bush  
Enterprise Technology Program Manager

Mark Eisenhart  
State Field Operations Engineer

Paul Jones  
Assistant State Traffic Engineer

Capt. Derrick Mickelson  
WHP, Safety, Training and Records

Lt. Troy McLees  
WHP, Safety Education

Capt. Scot Montgomery  
WHP, Motor Carrier

Talbot Hauffe  
Planning Consultant, Bike/Ped Coordinator

Mario Ramos  
NHTSA Region Representative

Khaled Ksaibati  
WYO Local Technical Assistance Program

Steve Dreher  
Wyoming Courts System, Chief Information Officer

Andy Gienapp  
Emergency Medical Services, Program Manager

John Mulcare  
Federal Motor Carrier Safety Administration

James Sims  
Cheyenne Metropolitan Planning

Thomas Carpenter  
Secretary, Safety Management System Committee
HIGHWAY SAFETY PROGRAM

FMCSA
Federal Motor Carrier Safety Administration

Adopted: June 20, 2012

Matthew D. Carlson, P.E.
State Highway Safety Engineer
Wyoming Department of Transportation

John Cox
Director
Wyoming Department of Transportation

Wyoming Technology Transfer Center
WYT²
Local Technical Assistance Program

Wyoming Department of Transportation

Adopted: June 20, 2012

Wyoming Department of Transportation

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www.nhtsa.gov

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Reducing the number of critical crashes is the goal of the Wyoming Strategic Highway Safety Plan (shown as SHSP hence). This plan will improve communication and coordination of safety efforts throughout the State.

Numerous State and Local agencies strive to reduce critical crashes defined as fatal and incapacitating injury (this Plan will use the term “CRITICAL CRASHES” to denote the combination of these crash injury severity types) crashes on Wyoming’s highways. The SHSP will guide current activities and create a future direction for a comprehensive and coordinated approach to improving highway safety by all safety partners in Wyoming.

A measure of the success of the efforts by all safety partners to improve safety will be based on reducing critical crashes on the Wyoming transportation system. Safety efforts in Wyoming will be supportive of the National goal to reduce traffic deaths to ZERO, branded as the “Towards Zero Deaths” (TZD) campaign. The following chart shows the numbers of fatal and incapacitating injury crashes from 2001 to 2010.

* The WYDOT Highway Safety Program rolled out a new Model Minimum Uniform Crash Criteria (MMUCC) compliant electronic crash form on January 1st, 2008. The dramatic drop in the incapacitating injury crashes throughout the state in 2008 was due to the redesigned crash form and improved reporting. Overall crash numbers have declined but only slightly.
The Strategic Highway Safety Plan

The SHSP is the formal documentation of the efforts of many safety partners throughout the state. The SHSP recognizes the importance each discipline plays in improving safety.

The Wyoming Highway Safety Management System through the SMS Committee has accepted the challenge to improve safety on the State’s roadways through the development of the SHSP.

Wyoming’s safety partners are sometimes separated by many miles yet the coordination and analysis of Traffic Safety issues facing Wyoming is critical in order to reduce crashes. Wyoming uses the technique of hosting Traffic Safety Summits in critical regions throughout the state. These Summits explain the crashes prevalent in the area, the SHSP, and seeks input to construct a SHSP for that region. Any county or region can request a Summit, but at a minimum a summit will be held with the Metropolitan Planning Organizations and the Wind River Indian Reservation.

The SHSP begins with crash data and communicates the direction for all of Wyoming’s safety partners. The safety partners are encouraged to continue effective existing activities and pursue new safety strategies and programs that support the overall goal of reducing critical crashes on Wyoming roadways. The process follows six steps:

The first three steps are addressed in the SHSP by the SMS committee:
1) Review crash data;
2) establish emphasis area direction;
3) communicate and coordinate initial strategies to address the emphasis areas.

The next three steps are to be carried out by the various safety partners throughout the State. The safety partners are listed in each safety emphasis area, local coordination efforts, systematic treatments, continuing safety area and safety enablers in this document.

4) Develop specific strategies and initial performance measures;
5) develop detailed action plans;
6) implement the action plans and evaluate the performance of the plans.

The SMS Committee assumed the responsibility to be the coordinating body for the SHSP. The SMS Committee will coordinate the feedback obtained from safety partners that are conducting steps 4-6.

The Purpose

It is important to recognize that the SHSP represents the direction for all Highway safety-related organizations in Wyoming. It cannot be focused on one agency or one specific area of concern.

The purpose of the SHSP is to focus Wyoming’s safety partners on reducing the number of critical crashes. The SHSP does not address every safety strategy implemented in the state, but provides the guidance to the safety community to develop and implement the strategies with the greatest potential to reduce critical crashes. The SHSP acts as the guidance document that coordinates the development of specific goals, strategies, and performance measures by the individual agencies and safety partners. It does not replace the existing documents for each agency, but it should coordinate and guide development of other internal documents. The process continues down through the organizations resulting in detailed programs and plans that are implemented and finally evaluated to measure the success of reducing critical crashes.
The following graphic is an example of the relationship of the SHSP to safety groups, processes and programs.

Process
There are four main processes forming a cycle related to the SHSP. The process cycle is Coordination, Implementation, Evaluation and Revision. The process is vital to the success of reducing critical crashes in Wyoming.

Coordination
Partnerships and shared responsibility are basic elements in meeting our critical crash reduction goal. Increased communication, coordination, and cooperation between key state, regional, and local agencies; safety organizations; and safety advocates must facilitate the implementation and deployment of high pay-off strategies based upon the guidance outlined in the SHSP.

Implementation
The SHSP is a collective effort of the transportation and safety agencies and safety partners throughout the state. The SMS Committee will develop the SHSP and encourage safety partners to focus their safety activities and programs in support of the safety goal associated with the SHSP.

Evaluation
The effectiveness of the strategies developed from the guidance in the SHSP will be evaluated through performance measures and program review activities by the safety partner ultimately responsible for developing a detailed action plan for their area of interest. Success of the SHSP will be judged based on the key performance measure of reducing the number of annual critical crashes.

Revision
Upon evaluation and review the SHSP guidance will be revised as necessary to meet the challenges presented by an ever changing transportation system in the State of Wyoming.
Plan Elements

The SHSP is comprised of six separate and interrelated focus areas. Each section of the SHSP (Safety Emphasis Areas, Local Coordination Efforts, Systematic Treatments, Continuing Safety Areas and Safety Enablers) has a different overall direction while maintaining the ultimate goal of reducing critical crashes.

The directions stated in each Safety Emphasis area are the main issues to be addressed in the next five years. An existing strategy, action plan or process will be incorporated for each of the listed strategies. If an existing action plan or a process is not currently being utilized the development of an action plan will be encouraged. The SHSP does not address every safety strategy implemented in the state, but provides the guidance to the safety community to develop and implement the strategies with the greatest potential.
Safety Emphasis Areas

Analysis of Wyoming data indicates the six areas, Roadway Departure Crashes, Use of Safety Restraints, Impaired Driving, Speeding, Young Drivers and Curve Crashes represent the greatest opportunities to reduce critical crashes. All individual organizations have specific interest in one or more of these emphasis areas and meeting the goals contained in the SHSP. Every effort should be made to develop partnerships between organizations.
**CURVE CRASHES**

- 2002 - 2004: 798
- 2005 - 2007: 857
- 2008 - 2010: 593

**SPEEDING OR TOO FAST FOR CONDITIONS**

- 2002 - 2004: 639
- 2005 - 2007: 707
- 2008 - 2010: 490

**IMPAIRED DRIVER (ALCOHOL)**

- 2002 - 2004: 543
- 2005 - 2007: 567
- 2008 - 2010: 494
Emphasis Area 1 - Lane & Road Departure Crashes

A roadway departure crash includes those crashes where a vehicle leaves its lane and runs off the road, opposite direction sideswipe crashes and head-on crashes.

Challenge

In Wyoming for the years 2008 - 2010, 72% percent of all critical crashes were associated with Lane Departures/Run-off-the-Road (ROR) crashes. These crashes resulted from driver fatigue, impaired driving, speeding, and distracted driving. While the crash begins with driver error, reductions can often be made by improved delineation, tactile reminders, and a forgiving roadside treatment.

Recommendations for Supporting Activities

1. Continue implementation of rumble strip policy.
2. Enhance roadway visibility features.
3. Develop and implement guidance on median barrier treatments.
4. Implement an education program on this roadway departure subject.
5. Provide training to local governments.
6. Lessen impacts of leaving the lane with low cost clear zone treatments.
Emphasis Area 2 - Use of Safety Restraints

Seat Belt usage is on the rise in Wyoming, but additional efforts are needed to get all drivers and passengers to utilize safety restraints. Safety restraints are the best way for users of the roadway system to protect themselves and their families from the poor decisions and actions of other drivers using the roadway system.

Challenge

In 2010, the observed seat belt use in the State was 78.9%. However, 56% percent of the critical crashes from 2008 - 2010 involved a person not wearing a seat belt. 70% percent of fatal crashes involved a motor vehicle occupant killed while not using seat belts for these same years.

Recommendations for Supporting Activities

1. Conduct seat belt use survey on an annual basis
2. Develop a focused statewide seatbelt campaign.
3. Support national seat belt usage campaigns
4. Continue to work with safety partners to provide training.
5. Support child seat check campaigns.
6. Support the strengthening of seat belt laws.
Emphasis Area 3 - Impaired Driving

Impaired driving is an issue that includes both alcohol, illegal drugs and prescription medications used by drivers.

Challenge

For the years of 2008 – 2010, 25% percent of critical crashes had alcohol involved. 40% percent of the fatal crashes in years 2008 – 2010 had alcohol involved.

Recommendations for Supporting Activities

1. Support the efforts of the Governor’s council on impaired driving.
2. Support the activities of the Highway Safety Grants Office.
4. Continue support of programs to reduce DUI in the 21 – 34 age group.
5. Continue support for alcohol/drug/highway safety programs at universities.
6. Provide DUI awareness materials for public distribution.
7. Provide education about DUI legislation.
Emphasis Area 4 - Speeding

Speeding is an issue that is predominately a behavioral problem which can be affected mostly by law enforcement and educational efforts. There are engineering factors that do need to be considered when addressing speed as a factor.

Challenge

Speeding can be thought of in two ways; 1) exceeding the posted speed limit and 2) traveling too fast for the conditions of the roadway. Both Speeding at 9% and Driving Too Fast at 23% have been identified as components of critical crashes that occurred in the period 2008 to 2010. This is a total of 32% of critical crashes with speed as a factor.

Percentage of Speeding or Driving Too Fast for Conditions in Critical Crashes 2008 - 2010

Recommendations for Supporting Activities

1. Collect and evaluate additional speed data.
2. Post and monitor appropriate speed limits on all roadways and in work zones.
3. Continue to support speeding enforcement programs.
4. Conduct media campaigns concerning road conditions during different seasons of the year.
5. Support use of ITS devices to communicate roadway information to drivers at decision points.
Emphasis Area 5 – Curve Crashes

Curves are a geometric feature of all of our roadways. Proper attention to the factors involved with crashes occurring on curves can point to potential benefits of various remedy options.

Challenge

Critical crashes happen more frequently on some curves than others, and especially more than straight sections of the highway. These crashes are not just occurring on sharp or deficient curves, but are also occurring on curves that meet most if not all current design standards. Contributing factors to the severity of these crashes could include other emphasis areas such as lane departure, speed, or impaired driving.

Percentage of Critical Crashes on Curves
2008 - 2010

Recommendations for Supporting Activities

1. Collect and evaluate additional highway feature curve data.
2. Evaluate designs for additional curve warning signs or improve visibility with items such as beacons.
3. Placing of additional delineation and varied types of delineation.
4. Evaluate low cost clear zone corrections such as guardrail improvement.
5. Support use of ITS devices to communicate curve information to drivers at decision points.
**Emphasis Area 6 – Young Drivers (25 and Under)**

The issue of properly training and educating young drivers about driving and roadways will affect critical crash reduction within the State.

**Challenge**

Critical crashes occur more frequently in the young driver population. Factors contributing to the severity of these crashes could include other emphasis areas such as lane departure, speed, not using restraints or impaired driving.

**Percentage of Driver’s Age Involved in Critical Crashes 2008 - 2010**

- **25%** for 25 and under
- **75%** for over 25

**Recommendations for Supporting Activities**

1. Collect and evaluate additional highway crash data.
2. Continue educational efforts.
3. Support educational programs.
4. Evaluate the Graduated Drivers License requirements recently implemented.
Local Coordination Efforts

The SHSP can be implemented through existing safety plans, action plans and through the transportation planning process. All local safety partners should implement the SHSP to the extent that each agency or organization is capable. Implementation can occur at all levels of government from state to local to tribal. The SHSP will continue to support and encourage its local partners to address transportation safety issues in their communities in a proactive manner. Cities and counties face diverse transportation safety issues. It is important to note that some rural communities may face issues related to speeding while urban areas may encounter other safety problems such as pedestrian and vehicular conflicts at intersections and school safety zones. Despite these differences, local safety efforts should address the goals and objectives of the SHSP. Local governments are encouraged to identify high priority transportation safety issues by analyzing crash numbers, types, and severity of crashes and develop countermeasures to address them. Local governments should utilize effectively existing safety programs for rural and urban communities in order to address their local safety issues. The safety coordination among locals, state and federal partners will improve transportation safety for the driving public in the State of Wyoming.

The following safety areas are of primary concern to local agencies:

- Intersection Safety
- Bicycle/Pedestrian Safety
- School Zone Safety

However, these are not high frequency areas for critical crashes.

Systematic Treatments

The initiatives and programs contained in this section represent opportunities to improve safety on Wyoming roadways. Many of these programs are new and innovative for the State of Wyoming. These treatments may only show a theoretical favorable benefit to cost based on a system level, since the low numbers of crashes sometimes do not lend themselves to spot improvements. An example could be run off the road crashes. Calculations indicate that rumble strips show a favorable benefit to cost at a system level, but may be difficult identifying spot improvement locations. These projects can receive Highway Safety Improvement dollars based on this system or corridor level analysis.

- Geometric Corrections
- Animal/Vehicle Crashes
- Visibility Improvement
- Guardrail Corrections
- Signing / Pavement Markings
Continuing Safety Areas

Continuing Safety Areas are programs that reflect national or regional goals. Many of these produce critical crashes that are growing in number and warrant additional system wide attention. Normally these areas are only eligible for HSIP as spot improvements based on crash severity history.

Work Zone Safety
Highway Freight Safety
Motorcycle Safety
Railroad Crossing Safety
Access Control

Safety Enablers

The foundation to set priorities and have the highest likelihood of reducing critical crashes rest on good data and records processes. While these will not reduce these crashes directly, they are still strategic in nature as they enable all safety partners to share a common understanding of the problems that are being faced.

Safety Management System
Traffic Records System

Evaluation

The Wyoming SHSP is intended to guide the various safety partners around the state in their pursuit of quality safety programs, projects and activities. A quality program, project or activity is considered one that expends resources effectively and efficiently toward the goal of the SHSP to reduce critical crashes.

The Wyoming SMS Committee will monitor the various statewide efforts by annually reviewing:

- The Highway Safety Plan (HSP), focus on behavioral activities.
- The Highway Safety Improvement Program (HSIP), specifically the Safety Emphasis Program (SEP) and the High Risk Rural Roads Program (HRRR), focus on infrastructure improvement.

The SMS Committee recognizes there will be worthwhile safety projects not specifically targeted within this plan. The SMS Committee will monitor the direction these safety projects take toward the ultimate goal of reducing critical crashes.
<table>
<thead>
<tr>
<th>YEAR</th>
<th>INCAPACITATING INJURY CRASHES</th>
<th>FATAL CRASHES</th>
<th>TOTAL CRITICAL CRASHES</th>
</tr>
</thead>
<tbody>
<tr>
<td>2001</td>
<td>828</td>
<td>155</td>
<td>983</td>
</tr>
<tr>
<td>2002</td>
<td>809</td>
<td>151</td>
<td>960</td>
</tr>
<tr>
<td>2003</td>
<td>831</td>
<td>141</td>
<td>972</td>
</tr>
<tr>
<td>2004</td>
<td>783</td>
<td>142</td>
<td>925</td>
</tr>
<tr>
<td>2005</td>
<td>830</td>
<td>147</td>
<td>977</td>
</tr>
<tr>
<td>2006</td>
<td>770</td>
<td>169</td>
<td>939</td>
</tr>
<tr>
<td>2007</td>
<td>841</td>
<td>136</td>
<td>977</td>
</tr>
<tr>
<td>*2008</td>
<td>590</td>
<td>139</td>
<td>729</td>
</tr>
<tr>
<td>2009</td>
<td>502</td>
<td>116</td>
<td>618</td>
</tr>
<tr>
<td>2010</td>
<td>455</td>
<td>137</td>
<td>592</td>
</tr>
</tbody>
</table>

*New Crash Form began January 1st 2008*
Wyoming’s Critical Crashes (Incapacitating Injury and Fatal) 2002 - 2010

- Lane Departure
- No Safety Equipment Used
- Drivers Age 25 or Younger
- Curve Crashes
- Speeding or Traveling Too Fast for Conditions
- Impaired Driver (Alcohol)
- Driver Distraction

Bar chart showing incidents and years from 2002 to 2010.
### Lane Departure / Run-off-Road Critical Crashes

**First Harmful Event Location 2008 - 2010**

<table>
<thead>
<tr>
<th>Location</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off Road, Parking Zone, Median, Other Roadway</td>
<td>823</td>
</tr>
<tr>
<td>On Roadway</td>
<td>503</td>
</tr>
<tr>
<td>Shoulder</td>
<td>196</td>
</tr>
<tr>
<td>Other</td>
<td>10</td>
</tr>
<tr>
<td>Total</td>
<td>1532</td>
</tr>
</tbody>
</table>

### Lane Departure / Run-off-Road Critical Crashes – Crash Types 2008 - 2010

<table>
<thead>
<tr>
<th>Crash Type</th>
<th>Alcohol Involved</th>
<th>No Alcohol Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Vehicle Crash</td>
<td>381</td>
<td>940</td>
</tr>
<tr>
<td>Head-On Crash</td>
<td>38</td>
<td>68</td>
</tr>
<tr>
<td>Other</td>
<td>75</td>
<td>417</td>
</tr>
<tr>
<td>Unknown</td>
<td>0</td>
<td>20</td>
</tr>
<tr>
<td>Total</td>
<td>494</td>
<td>1445</td>
</tr>
</tbody>
</table>

### Seat Belt Usage in Fatal Crashes 2008 - 2010

<table>
<thead>
<tr>
<th>Belt Type</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>None Used</td>
<td>245</td>
</tr>
<tr>
<td>Shoulder &amp; Lap Belt</td>
<td>106</td>
</tr>
<tr>
<td>Lap Belt Only</td>
<td>2</td>
</tr>
<tr>
<td>Unknown</td>
<td>13</td>
</tr>
</tbody>
</table>

*Excludes ATV, Motorcycles, Snowmobiles, etc.*

### Alcohol Involved in Critical Crashes by Collision Types 2008 - 2010

<table>
<thead>
<tr>
<th>Collision Type</th>
<th>Alcohol Involved Crashes</th>
<th>No Alcohol Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Vehicle Crash</td>
<td>381</td>
<td>940</td>
</tr>
<tr>
<td>Head-On Crash</td>
<td>38</td>
<td>68</td>
</tr>
<tr>
<td>Other</td>
<td>75</td>
<td>417</td>
</tr>
<tr>
<td>Unknown</td>
<td>0</td>
<td>20</td>
</tr>
<tr>
<td>Total</td>
<td>494</td>
<td>1445</td>
</tr>
</tbody>
</table>

### Alcohol Involved in Critical Crashes by Day of Week 2008 - 2010

<table>
<thead>
<tr>
<th>Day of Week</th>
<th>Alcohol Involved Crashes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>63</td>
</tr>
<tr>
<td>Tuesday</td>
<td>62</td>
</tr>
<tr>
<td>Wednesday</td>
<td>42</td>
</tr>
<tr>
<td>Thursday</td>
<td>55</td>
</tr>
<tr>
<td>Friday</td>
<td>56</td>
</tr>
<tr>
<td>Saturday</td>
<td>125</td>
</tr>
<tr>
<td>Sunday</td>
<td>91</td>
</tr>
</tbody>
</table>

### Horizontal Alignment in Critical Crashes 2008 - 2010

<table>
<thead>
<tr>
<th>Alignment</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curved Darkness Unlighted</td>
<td>177</td>
</tr>
<tr>
<td>Curved Darkness Lighted</td>
<td>27</td>
</tr>
<tr>
<td>Curved Daylight (Includes Dawn and Dusk)</td>
<td>374</td>
</tr>
<tr>
<td>Straight Darkness Unlighted</td>
<td>345</td>
</tr>
<tr>
<td>Straight Darkness Lighted</td>
<td>88</td>
</tr>
<tr>
<td>Straight Daylight (Includes Dawn and Dusk)</td>
<td>888</td>
</tr>
<tr>
<td>Unknown</td>
<td>40</td>
</tr>
<tr>
<td>Total</td>
<td>1939</td>
</tr>
</tbody>
</table>
### ALL ROAD CONDITIONS IN CRITICAL CRASHES 2008 - 2010

<table>
<thead>
<tr>
<th>Road Condition</th>
<th>1st Condition</th>
<th>2nd Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry</td>
<td>1425</td>
<td>10</td>
</tr>
<tr>
<td>Wet</td>
<td>102</td>
<td>18</td>
</tr>
<tr>
<td>Ice/Frost</td>
<td>271</td>
<td>49</td>
</tr>
<tr>
<td>Snow</td>
<td>76</td>
<td>84</td>
</tr>
<tr>
<td>Mud/Dirt/Gravel</td>
<td>29</td>
<td>14</td>
</tr>
<tr>
<td>Slush</td>
<td>11</td>
<td>21</td>
</tr>
<tr>
<td>Oil/Fuel</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Sand on Dry Pavement</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Sand on Icy Road</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Water Standing/Running</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>Other</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>Unknown</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>Total</td>
<td>1939</td>
<td>214</td>
</tr>
</tbody>
</table>

**NOTE:** Every crash can have two road condition

### DRIVER AGES 14 - 25 INVOLVED IN CRITICAL CRASHES 2008- 2010

<table>
<thead>
<tr>
<th>AGE</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>2</td>
</tr>
<tr>
<td>15</td>
<td>11</td>
</tr>
<tr>
<td>16</td>
<td>55</td>
</tr>
<tr>
<td>17</td>
<td>56</td>
</tr>
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<td>18</td>
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<tr>
<td>19</td>
<td>77</td>
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<tr>
<td>20</td>
<td>58</td>
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<tr>
<td>21</td>
<td>51</td>
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<td>22</td>
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<td>23</td>
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<tr>
<td>24</td>
<td>60</td>
</tr>
<tr>
<td>25</td>
<td>50</td>
</tr>
<tr>
<td>Total</td>
<td>620</td>
</tr>
</tbody>
</table>

### DISTRACTIONS IN DRIVERS AGE 14 TO 25 IN CRITICAL CRASHES 2008 - 2010

<table>
<thead>
<tr>
<th>AGE</th>
<th>14-16</th>
<th>17-19</th>
<th>20-22</th>
<th>23-25</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOT DISTRACTED</td>
<td>35</td>
<td>119</td>
<td>102</td>
<td>103</td>
</tr>
<tr>
<td>CELL PHONE ETC.</td>
<td>2</td>
<td>5</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>DISTRACTION INSIDE M.V.</td>
<td>6</td>
<td>8</td>
<td>9</td>
<td>2</td>
</tr>
<tr>
<td>OTHER DISTRACTION OUTSIDE M.V.</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>OTHER ELECTRONIC DEVICE DISTRACTION (COMPUTER, DVD, ETC.)</td>
<td>0</td>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>UNKNOWN</td>
<td>25</td>
<td>62</td>
<td>59</td>
<td>62</td>
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</tbody>
</table>