



State of Missouri Highway Safety & Performance Plan & Section 405 Grant Program

- Appendix A to Part 1200 Certifications & Assurances 1
- Appendix B to Part 1300 Application Requirements 13
  - Missouri's HSP and Performance Plan 14
- Evidence-Based Traffic Safety Enhancement (E-Be) Program 30
  - Statewide Traffic Crash Analysis 37
- Statewide Total Fatalities and Serious Injuries by Target Area 44
  - Crashes by City, County and Unincorporated County 45
    - Public Information and Education 80
      - Aggressive Drivers 84
      - Alcohol and Other Drugs 87
        - Occupant Restraints 94
        - Distracted Drivers 103
          - Young Drivers 106
    - Older Drivers 65 Years of age and over 111
      - **Commercial Motor Vehicles 114** 
        - Motorcycle Crashes 117
      - Crashes Involving School Buses 121
        - Vulnerable Roadway Users 125
    - Engineering Services and Data Collection 129
      - Highway Safety Driver Survey 132
      - HS217/Budgets and Projects 224
        - FY 2015 Equipment List 242
      - NHTSA Program Assessments 243
      - Traffic Records Program Assessment 244

S F Ζ ш -Z O U

#### APPENDIX A TO PART 1300 – CERTIFICATIONS AND ASSURANCES FOR HIGHWAY SAFETY GRANTS (23 U.S.C. CHAPTER 4; SEC. 1906, PUB. L. 109-59, AS AMENDED BY SEC. 4011, PUB. L. 114-94)

[Each fiscal year, the Governor's Representative for Highway Safety must sign these Certifications and Assurances affirming that the State complies with all requirements, including applicable Federal statutes and regulations, that are in effect during the grant period. Requirements that also apply to subrecipients are noted under the applicable caption.]

State: Missouri

Fiscal Year: 2017

By submitting an application for Federal grant funds under 23 U.S.C. Chapter 4 or Section 1906, the State Highway Safety Office acknowledges and agrees to the following conditions and requirements. In my capacity as the Governor's Representative for Highway Safety, I hereby provide the following Certifications and Assurances:

#### GENERAL REQUIREMENTS

The State will comply with applicable statutes and regulations, including but not limited to:

- 23 U.S.C. Chapter 4 Highway Safety Act of 1966, as amended
- Sec. 1906, Pub. L. 109-59, as amended by Sec. 4011, Pub. L. 114-94
- 23 CFR part 1300 Uniform Procedures for State Highway Safety Grant Programs
- 2 CFR part 200 Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards
- 2 CFR part 1201 Department of Transportation, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards

#### **INTERGOVERNMENTAL REVIEW OF FEDERAL PROGRAMS**

The State has submitted appropriate documentation for review to the single point of contact designated by the Governor to review Federal programs, as required by Executive Order 12372 (Intergovernmental Review of Federal Programs).

#### FEDERAL FUNDING ACCOUNTABILITY AND TRANSPARENCY ACT (FFATA)

The State will comply with FFATA guidance, <u>OMB Guidance on FFATA Subward and</u> <u>Executive Compensation Reporting</u>, August 27, 2010, (<u>https://www.fsrs.gov/documents/OMB\_Guidance\_on\_FFATA\_Subaward\_and\_Executive\_Com</u>

pensation\_Reporting\_08272010.pdf) by reporting to FSRS.gov for each sub-grant awarded:

- Name of the entity receiving the award;
- Amount of the award;

- Information on the award including transaction type, funding agency, the North American Industry Classification System code or Catalog of Federal Domestic Assistance number (where applicable), program source;
- Location of the entity receiving the award and the primary location of performance under the award, including the city, State, congressional district, and country; and an award title descriptive of the purpose of each funding action;
- A unique identifier (DUNS);
- The names and total compensation of the five most highly compensated officers of the entity if:
  - (i) the entity in the preceding fiscal year received—
    - (I) 80 percent or more of its annual gross revenues in Federal awards;

(II) \$25,000,000 or more in annual gross revenues from Federal awards; and
(ii) the public does not have access to information about the compensation of the senior executives of the entity through periodic reports filed under section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m(a), 78o(d)) or section 6104 of the Internal Revenue Code of 1986;

• Other relevant information specified by OMB guidance.

#### **NONDISCRIMINATION**

ł

#### (applies to subrecipients as well as States)

The State highway safety agency will comply with all Federal statutes and implementing regulations relating to nondiscrimination ("Federal Nondiscrimination Authorities"). These include but are not limited to:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin) and 49 CFR part 21;
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. 324 *et seq.*), and Title IX of the Education Amendments of 1972, as amended (20 U.S.C. 1681-1683 and 1685-1686) (prohibit discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. 794 *et seq.)*, as amended, (prohibits discrimination on the basis of disability) and 49 CFR part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. 6101 *et seq.*), (prohibits discrimination on the basis of age);
- The Civil Rights Restoration Act of 1987, (Pub. L. 100-209), (broadens scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal aid recipients, sub-recipients and contractors, whether such programs or activities are Federally-funded or not);
- Titles II and III of the Americans with Disabilities Act (42 U.S.C. 12131-12189) (prohibits discrimination on the basis of disability in the operation of public entities,

public and private transportation systems, places of public accommodation, and certain testing) and 49 CFR parts 37 and 38;

- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations (prevents discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations); and
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency (guards against Title VI national origin discrimination/discrimination because of limited English proficiency (LEP) by ensuring that funding recipients take reasonable steps to ensure that LEP persons have meaningful access to programs (70 FR at 74087 to 74100).

The State highway safety agency—

- Will take all measures necessary to ensure that no person in the United States shall, on the grounds of race, color, national origin, disability, sex, age, limited English proficiency, or membership in any other class protected by Federal Nondiscrimination Authorities, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any of its programs or activities, so long as any portion of the program is Federally-assisted.
- Will administer the program in a manner that reasonably ensures that any of its subrecipients, contractors, subcontractors, and consultants receiving Federal financial assistance under this program will comply with all requirements of the Non-Discrimination Authorities identified in this Assurance;
- Agrees to comply (and require any of its subrecipients, contractors, subcontractors, and consultants to comply) with all applicable provisions of law or regulation governing US DOT's or NHTSA's access to records, accounts, documents, information, facilities, and staff, and to cooperate and comply with any program or compliance reviews, and/or complaint investigations conducted by US DOT or NHTSA under any Federal Nondiscrimination Authority;
- Acknowledges that the United States has a right to seek judicial enforcement with regard to any matter arising under these Non-Discrimination Authorities and this Assurance;
- Insert in all contracts and funding agreements with other State or private entities the following clause:

"During the performance of this contract/funding agreement, the contractor/funding recipient agrees—

a. To comply with all Federal nondiscrimination laws and regulations, as may be amended from time to time;

- b. Not to participate directly or indirectly in the discrimination prohibited by any Federal non-discrimination law or regulation, as set forth in Appendix B of 49 CFR part 21 and herein;
- c. To permit access to its books, records, accounts, other sources of information, and its facilities as required by the State highway safety office, US DOT or NHTSA;
- d. That, in event a contractor/funding recipient fails to comply with any nondiscrimination provisions in this contract/funding agreement, the State highway safety agency will have the right to impose such contract/agreement sanctions as it or NHTSA determine are appropriate, including but not limited to withholding payments to the contractor/funding recipient under the contract/agreement until the contractor/funding recipient complies; and/or cancelling, terminating, or suspending a contract or funding agreement, in whole or in part; and
- e. To insert this clause, including paragraphs a through e, in every subcontract and subagreement and in every solicitation for a subcontract or sub-agreement, that receives Federal funds under this program.

#### THE DRUG-FREE WORKPLACE ACT OF 1988 (41 U.S.C. 8103)

The State will provide a drug-free workplace by:

- a. Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in the grantee's workplace and specifying the actions that will be taken against employees for violation of such prohibition;
- b. Establishing a drug-free awareness program to inform employees about:
  - The dangers of drug abuse in the workplace.
  - The grantee's policy of maintaining a drug-free workplace.
  - Any available drug counseling, rehabilitation, and employee assistance programs.
  - The penalties that may be imposed upon employees for drug violations occurring in the workplace.
  - Making it a requirement that each employee engaged in the performance of the grant be given a copy of the statement required by paragraph (a).
- c. Notifying the employee in the statement required by paragraph (a) that, as a condition of employment under the grant, the employee will
  - Abide by the terms of the statement.
  - Notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five days after such conviction.
- d. Notifying the agency within ten days after receiving notice under subparagraph (c)(2) from an employee or otherwise receiving actual notice of such conviction.
- e. Taking one of the following actions, within 30 days of receiving notice under subparagraph (c)(2), with respect to any employee who is so convicted –

- Taking appropriate personnel action against such an employee, up to and including termination.
- Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency.
- f. Making a good faith effort to continue to maintain a drug-free workplace through implementation of all of the paragraphs above.

# POLITICAL ACTIVITY (HATCH ACT)

## (applies to subrecipients as well as States)

The State will comply with provisions of the Hatch Act (5 U.S.C. 1501-1508), which limits the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

#### <u>CERTIFICATION REGARDING FEDERAL LOBBYING</u> (applies to subrecipients as well as States)

Certification for Contracts, Grants, Loans, and Cooperative Agreements

The undersigned certifies, to the best of his or her knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

3. The undersigned shall require that the language of this certification be included in the award documents for all sub-award at all tiers (including subcontracts, subgrants, and contracts under grant, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who

fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

#### **<u>RESTRICTION ON STATE LOBBYING</u>** (applies to subrecipients as well as States)

ł

ł

None of the funds under this program will be used for any activity specifically designed to urge or influence a State or local legislator to favor or oppose the adoption of any specific legislative proposal pending before any State or local legislative body. Such activities include both direct and indirect (e.g., "grassroots") lobbying activities, with one exception. This does not preclude a State official whose salary is supported with NHTSA funds from engaging in direct communications with State or local legislative officials, in accordance with customary State practice, even if such communications urge legislative officials to favor or oppose the adoption of a specific pending legislative proposal.

#### <u>CERTIFICATION REGARDING DEBARMENT AND SUSPENSION</u> (applies to subrecipients as well as States)

#### Instructions for Primary Certification (States)

1. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below and agrees to comply with the requirements of 2 CFR Parts 180 and 1300.

2. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such person from participation in this transaction.

3. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default or may pursue suspension or debarment.

4. The prospective primary participant shall provide immediate written notice to the department or agency to which this proposal is submitted if at any time the prospective primary participant learns its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

5. The terms covered transaction, debarment, suspension, ineligible, lower tier, participant, person, primary tier, principal, and voluntarily excluded, as used in this clause, have the

meaning set out in the Definitions and coverage sections of 2 CFR Part 180. You may contact the department or agency to which this proposal is being submitted for assistance in obtaining a copy of those regulations.

6. The prospective primary participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is proposed for debarment under 48 CFR part 9, subpart 9.4, debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by NHTSA.

7. The prospective primary participant further agrees by submitting this proposal that it will include the clause titled "Instructions for Lower Tier Certification" including the "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion—Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions and will require lower tier participants to comply with 2 CFR Parts 180 and 1300.

8. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not proposed for debarment under 48 CFR part 9, subpart 9.4, debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the list of Parties Excluded from Federal Procurement and Non-procurement Programs.

9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

10. Except for transactions authorized under paragraph 6 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is proposed for debarment under 48 CFR part 9, subpart 9.4, suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, the department or agency may disallow costs, annul or terminate the transaction, issue a stop work order, debar or suspend you, or take other remedies as appropriate.

#### <u>Certification Regarding Debarment, Suspension, and Other Responsibility Matters-Primary</u> <u>Covered Transactions</u>

1.1.1.1.1

(1) The prospective primary participant certifies to the best of its knowledge and belief, that its principals:

(a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded by any Federal department or agency;

(b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of record, making false statements, or receiving stolen property;

(c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or Local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and

(d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State, or local) terminated for cause or default.

(2) Where the prospective primary participant is unable to certify to any of the Statements in this certification, such prospective participant shall attach an explanation to this proposal.

#### Instructions for Lower Tier Certification

÷

i

1. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below and agrees to comply with the requirements of 2 CFR Parts 180 and 1300.

2. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

3. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

4. The terms covered transaction, debarment, suspension, ineligible, lower tier, participant, person, primary tier, principal, and voluntarily excluded, as used in this clause, have the meanings set out in the Definition and Coverage sections of 2 CFR Part 180. You may contact the person to whom this proposal is submitted for assistance in obtaining a copy of those regulations.

5. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is proposed for debarment under 48 CFR part 9, subpart 9.4, debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by NHTSA.

6. The prospective lower tier participant further agrees by submitting this proposal that it will include the clause titled "Instructions for Lower Tier Certification" including the "Certification"

Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions and will require lower tier participants to comply with 2 CFR Parts 180 and 1300.

7. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not proposed for debarment under 48 CFR part 9, subpart 9.4, debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the List of Parties Excluded from Federal Procurement and Non-procurement Programs.

8. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

9. Except for transactions authorized under paragraph 5 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is proposed for debarment under 48 CFR part 9, subpart 9.4, suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, the department or agency with which this transaction originated may disallow costs, annul or terminate the transaction, issue a stop work order, debar or suspend you, or take other remedies as appropriate.

#### <u>Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion -- Lower</u> <u>Tier Covered Transactions:</u>

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

#### **<u>BUY AMERICA ACT</u>** (applies to subrecipients as well as States)

The State and each subrecipient will comply with the Buy America requirement (23 U.S.C. 313) when purchasing items using Federal funds. Buy America requires a State, or subrecipient, to purchase only steel, iron and manufactured products produced in the United States with Federal funds, unless the Secretary of Transportation determines that such domestically produced items would be inconsistent with the public interest, that such materials are not reasonably available and of a satisfactory quality, or that inclusion of domestic materials will increase the cost of the overall project contract by more than 25 percent. In order to use Federal funds to purchase

foreign produced items, the State must submit a waiver request that provides an adequate basis and justification to and approved by the Secretary of Transportation.

#### **PROHIBITION ON USING GRANT FUNDS TO CHECK FOR HELMET USAGE** (applies to subrecipients as well as States)

The State and each subrecipient will not use 23 U.S.C. Chapter 4 grant funds for programs to check helmet usage or to create checkpoints that specifically target motorcyclists.

#### POLICY ON SEAT BELT USE

In accordance with Executive Order 13043, Increasing Seat Belt Use in the United States, dated April 16, 1997, the Grantee is encouraged to adopt and enforce on-the-job seat belt use policies and programs for its employees when operating company-owned, rented, or personally-owned vehicles. The National Highway Traffic Safety Administration (NHTSA) is responsible for providing leadership and guidance in support of this Presidential initiative. For information on how to implement such a program, or statistics on the potential benefits and cost-savings to your company or organization, please visit the Buckle Up America section on NHTSA's website at www.nhtsa.dot.gov. Additional resources are available from the Network of Employers for Traffic Safety (NETS), a public-private partnership headquartered in the Washington, D.C. metropolitan area, and dedicated to improving the traffic safety practices of employers and employees. NETS is prepared to provide technical assistance, a simple, user-friendly program kit, and an award for achieving the President's goal of 90 percent seat belt use. NETS can be contacted at 1 (888) 221-0045 or visit its website at www.trafficsafety.org.

#### POLICY ON BANNING TEXT MESSAGING WHILE DRIVING

In accordance with Executive Order 13513, Federal Leadership On Reducing Text Messaging While Driving, and DOT Order 3902.10, Text Messaging While Driving, States are encouraged to adopt and enforce workplace safety policies to decrease crashed caused by distracted driving, including policies to ban text messaging while driving company-owned or -rented vehicles, Government-owned, leased or rented vehicles, or privately-owned when on official Government business or when performing any work on or behalf of the Government. States are also encouraged to conduct workplace safety initiatives in a manner commensurate with the size of the business, such as establishment of new rules and programs or re-evaluation of existing programs to prohibit text messaging while driving, and education, awareness, and other outreach to employees about the safety risks associated with texting while driving.

#### SECTION 402 REQUIREMENTS

- 1. To the best of my personal knowledge, the information submitted in the Highway Safety Plan in support of the State's application for a grant under 23 U.S.C. 402 is accurate and complete.
- 2. The Governor is the responsible official for the administration of the State highway safety program, by appointing a Governor's Representative for Highway Safety who shall be responsible for a State highway safety agency that has adequate powers and is suitably

equipped and organized (as evidenced by appropriate oversight procedures governing such areas as procurement, financial administration, and the use, management, and disposition of equipment) to carry out the program. (23 U.S.C. 402(b)(1)(A))

- 3. The political subdivisions of this State are authorized, as part of the State highway safety program, to carry out within their jurisdictions local highway safety programs which have been approved by the Governor and are in accordance with the uniform guidelines promulgated by the Secretary of Transportation. (23 U.S.C. 402(b)(1)(B))
- 4. At least 40 percent of all Federal funds apportioned to this State under 23 U.S.C. 402 for this fiscal year will be expended by or for the benefit of political subdivisions of the State in carrying out local highway safety programs (23 U.S.C. 402(b)(1)(C)) or 95 percent by and for the benefit of Indian tribes (23 U.S.C. 402(h)(2)), unless this requirement is waived in writing. (This provision is not applicable to the District of Columbia, Puerto Rico, the U.S. Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Mariana Islands.)
- 5. The State's highway safety program provides adequate and reasonable access for the safe and convenient movement of physically handicapped persons, including those in wheelchairs, across curbs constructed or replaced on or after July 1, 1976, at all pedestrian crosswalks. (23 U.S.C. 402(b)(1)(D))
- 6. The State will provide for an evidenced-based traffic safety enforcement program to prevent traffic violations, crashes, and crash fatalities and injuries in areas most at risk for such incidents. (23 U.S.C. 402(b)(1)(E))
- 7. The State will implement activities in support of national highway safety goals to reduce motor vehicle related fatalities that also reflect the primary data-related crash factors within the State, as identified by the State highway safety planning process, including:
  - Participation in the National high-visibility law enforcement mobilizations as identified annually in the NHTSA Communications Calendar, including not less than 3 mobilization campaigns in each fiscal year to –
    - Reduce alcohol-impaired or drug-impaired operation of motor vehicles; and
    - Increase use of seatbelts by occupants of motor vehicles;
  - Submission of information regarding mobilization participation into the HVE Database;
  - Sustained enforcement of statutes addressing impaired driving, occupant protection, and driving in excess of posted speed limits;
  - An annual Statewide seat belt use survey in accordance with 23 CFR part 1340 for the measurement of State seat belt use rates, except for the Secretary of Interior on behalf of Indian tribes;
  - Development of Statewide data systems to provide timely and effective data analysis to support allocation of highway safety resources;
  - Coordination of Highway Safety Plan, data collection, and information systems with the State strategic highway safety plan, as defined in 23 U.S.C. 148(a).
     (23 U.S.C. 402(b)(1)(F))

- 8. The State will actively encourage all relevant law enforcement agencies in the State to follow the guidelines established for vehicular pursuits issued by the International Association of Chiefs of Police that are currently in effect. (23 U.S.C. 402(j))
- 9. The State will not expend Section 402 funds to carry out a program to purchase, operate, or maintain an automated traffic enforcement system. (23 U.S.C. 402(c)(4))

#### The State: [CHECK ONLY ONE]

Certifies that automated traffic enforcement systems are not used on any public road in the State;

OR

Is unable to certify that automated traffic enforcement systems are not used on any public road in the State, and therefore will conduct a survey meeting the requirements of 23 CFR 1300.13(d)(3) AND will submit the survey results to the NHTSA Regional office no later than March 1 of the fiscal year of the grant.

I understand that my statements in support of the State's application for Federal grant funds are statements upon which the Federal Government will rely in determining qualification for grant funds, and that knowing misstatements may be subject to civil or criminal penalties under 18 U.S.C. 1001. I sign these Certifications and Assurances based on personal knowledge, and after appropriate inquiry.

Signature Governor's Representative for Highway Safety

6.2.2016 Date

# Patrick K. McKenna, Director

Printed name of Governor's Representative for Highway Safety

#### APPENDIX B TO PART 1300 -APPLICATION REQUIREMENTS FOR SECTION 405 AND SECTION 1906 GRANTS

*Each fiscal year, to apply for a grant under 23 U.S.C. 405 or Section 1906. Pub.* L. 109-59, as amended by Section 4011, Pub. L. 114-94, the State must complete and submit all required information in this appendix, and the Governor's *Representative for Highway Safety must sign the Certifications and Assurances.*]

State: Missouri

Fiscal Year: 2017

#### In my capacity as the Governor's Representative for Highway Safety, I hereby provide the following certifications and assurances -

- 6 1 I have reviewed the above information in support of the State's application for 23 U.S.C. 405 and Section 1906 grants, and based on my review, the information is accurate and complete to the best of my personal knowledge.
- As condition of each grant awarded, the State will use these grant funds in accordance with the specific statutory and regulatory requirements of that grant, and will comply with all applicable laws, regulations, and financial and programmatic requirements for Federal grants.
- I understand and accept that incorrect, incomplete, or untimely information submitted in support of the State's application may result in the denial of a grant award.

I understand that my statements in support of the State's application for Federal grant funds are statements upon which the Federal Government will rely in determining qualification for grant funds, and that knowing misstatements may be subject to civil or criminal penalties under 18 U.S.C. 1001. I sign these Certifications and Assurances based on personal knowledge, and after appropriate inquiry.

Halilt McGune6.2.2016Signature Governor's Representative for Highway SafetyDate

Patrick K. McKenna, Director

Printed name of Governor's Representative for Highway Safety

# MISSOURI'S HIGHWAY SAFETY PLAN (HSP) AND PERFORMANCE PLAN

#### Supporting Background – Missouri's Blueprint to SAVE MORE LIVES

In 2003, Missouri participated with the American Association of State Highway Transportation Officials (AASHTO) in a national effort to reduce the preventable tragedies associated with traffic crashes. Utilizing a partnership approach, the state's Strategic Highway Safety Plan (SHSP), Missouri's Blueprint for Safer Roadways, was developed that outlined opportunities to reduce fatalities and serious injuries on Missouri's roads. The goal established in the Blueprint was set at 1,000 or fewer fatalities by 2008. That goal was reached one year early, with a year-end fatality total for 2007 of 992, as well as in 2008 with 960 fatalities. The second SHSP, *Missouri's Blueprint to ARRIVE ALIVE*, was unveiled at the semi-annual Blueprint Conference in October 2008. The new goal was set to reduce traffic fatalities to 850 or fewer by 2012. That goal was reached two years early with 821 fatalities in 2010. In 2011 the fatality total was 786. Not only did we achieve the 2008 goal but also attained the lowest number of people lost in roadway related fatalities in Missouri since 1947.

Missouri's third Strategic Highway Safety Plan, *Missouri Blueprint to SAVE MORE LIVES*, was rolled out in October of 2012 at the Blueprint Conference. The new target for this document is 700 or fewer fatalities by 2016. The document challenges all of us to not only focus on this target, but also concentrate on a higher vision and move Toward Zero Roadway Deaths.

Year	Fatalities	Serious Injuries
2007	992	7,744
2007		
	960	6,932
2009	878	6,540
2010	821	6,096
2011	786	5,643
2012	826	5,506
2013	757	4,938
2014	766	4,657
2007-2009 Total	2,830	21,216
2008-2010 Total	2,659	19,568
2009-2011 Total	2,485	18,278
2010-2012 Total	2,433	17,244
2011-2013 Total	2,369	16,087
2012-2014 Total	2,349	15,101

Mice	ouri Anni	ual Con	nnaratiw	a Data	Chart						
CORE OUTCOME MEASURES:	201	1	2011		201	12	201	13	201	.4	2016 Target
Traffic Fatalities & Serious Injuries	0.21		700		820		767		700		700
Number of Fatalities 3-Year Rolling Average/5-Year Rolling Average	821 886	949	786 828	887	826 811	854	757 790	814	766 783	791	700
Total Rural Fatalities	492	949	495	007	474	004	459	014	471	791	
Total Urban Fatalities	329		291		350		298		295		
Number of Content Intention	6.006		5 6 4 2		5 500		5.642		4.650		4.524
Number of Serious Injuries 3-Year Rolling Average/5-Year Rolling Average	6,096 6,523	7,093	5,643 6,093	6,591	5,506 5,748	6,143	5,643 5,363	5,745	4,658 5,034	5,368	4,534
		.,								-,	
Serious Injury Rate	10.15		9.48		8.60		8.20		7.11		
Fatalities and Serious Injuries Combined	6917		6429		6332		6152		5817		
Fatalities per 100 Million Vehicle Miles Driven	70.004		60 700		60.453		60.450		70.000		
Vehicle Miles (Billions) Total Fatalities Per 100 Million VMT	70,864		68,789 1.14		69,153 1.19		69,458 1.09		70,909 1.08		1.0
3-Year Rolling Average/5-Year Rolling Average	1.10	1.37	1.14	1.28	1.19	1.23	1.09	1.17	1.08	1.13	1.0
Total Rural Fatalities per 100 million VMT	1.60	1.57	1.71	1.20	1.64	1.23	1.61	1.17	1.62	1.15	
Total Urban Fatalities per 100 million VMT	0.82		0.73		0.87		0.73		0.7		
Serious Injuries per 100 Million Vehicle Miles Driven	•										
Vehicle Miles (Billions)	70,864		68,789		69,153		69,458		70,909		
Total Serious Injuries Per 100 Million VMT	8.60		8.20		7.96		8.12		6.71		
Passenger Vehicle Occupant Fatalities (all seat positions)											
Total	620		597		600		559		556		
Restrained	195		177		155		192		198		
Unrestrained Passenger Vehicle Fatalities	383		371		394		325		312		326
3-Year Rolling Average/5-Year Rolling Average	431	464	396	427	389	414	370	384	352	366	
Unknown	42		49		51		42		46		
Alcohol-Impaired Driving Fatalities (BAC=.08+)											
Fatalities	257		257		280		248		204		230
3-Year Rolling Average/5-Year Rolling Average	291	318	272	293	265	282	262	269	244	249	
Speed Related Fatalities											
Fatalities	324		310		326		308		267		258
3-Year Rolling Average/5-Year Rolling Average	381	410	338	378	320	356	315	329	300	307	
Motorcyclist Fatalities											
Total	93		81		102		72		87		84
3-Year Rolling Average/5-Year Rolling Average	96	94	87	92	92	94	85	87	87	87	
Helmeted Unhelmeted	83		71 10		90 9		66 7		79 7		
3-Year Rolling Average/5-Year Rolling Average	11	19	10	18	10	15	9	12	8	9	
Unknown	1	15	1	10	5	10	1	12	5		
Drivers age 20 or younger involved in fatal crashes	•										
Aged Under 15	4		2		2		4		3		1
3-Year Rolling Average/5-Year Rolling Average	4	3	3	3	3	3	3	3	3	3	
Aged 15-20	118		131		127		111		94		
3-Year Rolling Average/5-Year Rolling Average	141	164	131	145	125	136	123	126	111	116	
Pedestrians Fatalities											
Fatalities	55		75		84		73		65		71
3-Year Rolling Average/5-Year Rolling Average	62	68	66	68	71	69	77	71	74	70	
Bicyclist Fatalities											
Fatalities	7		1		6		4		5		4
3-Year Rolling Average/5-Year Rolling Average	4	6	3	4	5	4	4	4	5	5	
Distracted Driving Involved Fatalities											
Fatalities	182	201	161	100	85	450	74	101	61	110	70
3-Year Rolling Average/5-Year Rolling Average	181	201	166	186	143	158	107	131	73	113	
CORE BEHAVIOR MEASURE	-								,		
Observed seat belt use for passenger vehicles, front seat outboard occupants	76%		79%		79%		80%		79%		83%
3-Year Rolling Average/5-Year Rolling Average	76%	76%	79% 77%	77%	79%	77%	80% 79%	78%	79% 79%	79%	83%
											2015
Warnings and Citations: Safety Belt Citations Grant Funded *	201 36,7		201 38,11		201 30,6		2013		201 33,6		2015 39,237
Impaired Driving Arrests Grant Funded	8,84		8,83		8,07		36,969 7,021		6,06		5,458
Speeding Citations Grant Funded	128,5	529	124,6	68	116,6	625	120,4	470	119,6	525	129,112
*Does not inculde CPS	Key:	3	-Year Rollir	ng Avera	ge		5-Y	ear Rolli	ing Averag	ge	
		_		_				_	_		

#### **CORE OUTCOME MEASURES**

#### C-1) Traffic Fatalities

To decrease traffic fatalities from the expected 2012 calendar base year of 850 to 700 by December 31, 2016.

#### C-2) Serious Traffic Injuries

To decrease serious traffic injuries from the 2012 calendar base year of 5,506 to 4,534 by December 31, 2016.

#### C-3) Fatalities/VMT

To decrease fatalities/VMT from the expected 2012 calendar base year of 1.2 to 1.0 by December 31, 2016.

#### C-4) Unrestrained Passenger Vehicle Occupant Fatalities

To decrease unrestrained passenger vehicle occupant fatalities in all seating positions from the 2012 calendar base year of 396 to 326 by December 31, 2016.

#### C-5) Alcohol-Impaired Driving Fatalities

To decrease alcohol impaired driving fatalities from the 2012 calendar base year of 280 to 230 by December 31, 2016.

#### C-6) Speeding Related Fatalities

To decrease speeding-related fatalities from the 2012 calendar base year of 313 to 258 by December 31, 2016.

#### C-7) Motorcyclist Fatalities

To decrease motorcyclist fatalities from the 2012 calendar base year of 102 to 84 by December 31, 2016.

#### C-8) Unhelmeted Motorcyclist Fatalities

To decrease unhelmeted motorcyclist fatalities from the 2012 calendar base year of 26 to 21 by December 31, 2016.

#### C-9) Drivers Age 20 or Younger Involved in Fatal Crashes

To decrease drivers age 20 or younger involved fatalities from the 2012 calendar base year of 135 to 111 by December 31, 2016.

#### C-10) Pedestrian Fatalities

To decrease pedestrian fatalities from the 2012 calendar base year of 86 to 71 by December 31, 2016.

#### C-11) Bicyclist Fatalities

To decrease bicyclist fatalities from the 2012 calendar base year of 6 to 4 by December 31, 2016.

#### **CORE BEHAVIOR MEASURE**

#### B-1) Observed Belt Usage

To increase statewide observed seat belt use of front seat outboard occupants in passenger vehicles 1% annually from the 2013 calendar base year average usage rate of 80% to 83% by December 31, 2016.

#### **ACTIVITY MEASURES**

#### A-1) Number of Seat Belt Citations Issued

To increase the number of seat belt citations and warnings issued during grant funded enforcement activities by .25 percent annually from the 2011-2103 calendar base year average of 35,256 to 35,520 by December 31, 2016.

#### A-2) Number of Impaired Driving Arrests

To increase the number of substance-impaired driving arrests made during grant funded enforcement activities by .25 percent annually from the 2011-2103 calendar base year average of 7,975 to 8,035 by December 31, 2016.

#### A-3) Number of Speeding Citations Issued

To increase the number of speeding citations and warnings issued during grant funded enforcement activities by .25 percent annually from the 2011-2103 calendar base year average of 120,588 to 121,907 by December 31, 2016.



# 9 Blueprint Strategies

Through extensive data analysis, current research findings, and best practices, strategies were identified that must be implemented in order to make significant progress toward reaching the projected goal of 700 or fewer fatalities by 2016. Key strategies in the Blueprint to SAVE MORE LIVES were identified and called the "Necessary Nine":

•

#### 1. Increase Safety Belt Use

- Pass a primary safety belt law
- Increase the number of local communities with primary safety belt ordinances
- Increase the fine for non-use of a safety belt under the current law

#### 2. Expand the Installation of Rumble Strips/Stripes

• Increase the number of miles of edgeline and centerline rumble strips/stripes

#### 3. Increase Efforts to Reduce the Number of Substance-Impaired Vehicle Drivers and Motorcycle Operators

- Increase the number of sobriety checkpoints
- Expand the use of ignition interlocks
- Increase the number of DWI courts

#### 4. Improve Intersection Safety

- Increase the use of Innovative Intersection Solutions (J-turns, Roundabouts)
- Expand the use of technology
- Increase targeted enforcement
- Increase pedestrian safety features

#### 5. Improve Curve Safety

- Increase the use of curve alignment signs
- Increase curve recognition with pavement
   marking
- Increase pavement friction

#### 6. Change Traffic Safety Culture

- Develop focused public education
- Expand outreach efforts

#### 7. Improve Roadway Shoulders

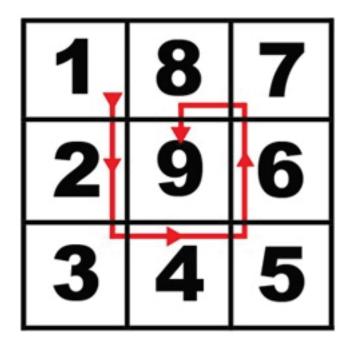
- Increase the miles of shoulders
- Reduce pavement edge drop-offs through
   maintenance

#### 8. Increase Enforcement Efforts

- Focus on high crash corridors
- Target high impact work zones

#### 9. Expand and Improve Roadway Visibility

- Ensure all roadway signs meet acceptable retro
   reflectivity
- Expand the use of delineation
- Expand the use of centerlines and edgelines and ensure the markings meet acceptable retroreflectivity



#### **Emphasis/Focus Areas**

#### Six key Emphasis Areas and 25 Focus Areas were identified within the Blueprint

#### Emphasis Area I / Serious Crash Types

#### **Focus Areas**

- o Run-Off-Road Crashes
- o Horizontal Curve Crashes
- o Intersection Crashes
- o Collisions with Trees and Utility Poles
- o Head-On Crashes

#### Emphasis Area II / High-Risk Drivers and Unrestrained Occupants

#### **Focus Areas**

- o Aggressive Drivers
- o Unrestrained Drivers and Occupants
- o Distracted and Drowsy Drivers
- o Young Drivers (15 through 20 years of age)
- o Substance-Impaired Drivers
- o Unlicensed, Revoked or Suspended Drivers

#### Emphasis Area III / Special Vehicles

#### **Focus Areas**

- o Commercial Motor Vehicles (CMVs)
- o All-Terrain Vehicles (ATVs)
- o School Buses/School Bus Signals

#### Emphasis Area IV / Vulnerable Roadway Users

#### **Focus Areas**

- o Older Drivers (65 years of age or older)
- o Motorcyclists
- o Pedestrians
- o Bicyclists

# Emphasis Area V / Special Roadway Environments

#### **Focus Areas**

- o Nighttime Driving
- o Work Zones
- o Highway / Rail Crossings
- o Traffic Incident Management Areas

#### Emphasis Areas VI / Data and Data System Improvements

#### **Focus Areas**

- o Data Collection
- o Data Accessibility
- o System Linkage

Strategies were developed for each of these focus areas that incorporated the 4 E's – education, enforcement, engineering, and emergency response as well as technology and public policy. Many of these are also included in the Highway Safety Plan (HSP).



#### Statewide Targets, Performance Measures & Benchmarks

#### Justification and Explanation for Setting Performance Measures and Benchmark for the Fatality Reduction Goal

Historically, Missouri's Strategic Highway Safety Plans have set fatality reduction goals. In the 2012 plan, an interim fatality reduction goal of 700 or fewer fatalities was established for 2016. The 2012 fatality reduction goal of 850 was used as the baseline number. The interim years (2013, 2014, 2015 and 2016) were calculated using a trend line starting from the 850 baseline. The yearly goals are listed below.

Target #1: To reduce fatalities to:

- 850 by 2012
- 813 by 2013
- 775 by 2014
- 738 by 2015
- 700 by 2016

Performance Measures:

- Number of statewide fatalities
- Fatality rate per 100M VMT
- Benchmarks:
- Expected 2012 fatalities = 850 (766 in 2014)
- Expected 2012 fatality rate per 100M VMT = 1.2 (1.1 in 2014)

Throughout the remainder of the document, the fatality reduction goals were calculated in the following manner. The percent of contribution of the various crash types was applied to the 2012 baseline of 850 fatalities. From that point, the interim years' fatality goals (2013, 2014, 2015, and 2016) were calculated using a trend line aimed at reaching the 700 or fewer fatalities by 2016. Fatality reduction goals were calculated for the following crash types:

- Aggressive driving related fatalities
- Speed-related fatalities
- Fatalities involving drivers with a .08 BAC or greater
- Fatalities involving alcohol-impaired drivers under the age of 21 years old
- Unrestrained passenger vehicle occupant fatalities
- Fatalities involving drivers age 15 through 20
- Fatalities involving older drivers
- Motorcyclist fatalities
- Un-helmeted or non-DOT compliant helmeted

motorcyclist fatalities

- Fatalities involving motorcycle operators who are not licensed or improperly licensed
- Fatalities resulting from crashes involving school buses or school bus signals
- Pedestrian fatalities
- Bicyclist fatalities

#### Justification and Explanation for Setting Performance Measures and Benchmark for the Serious Injury Reduction Goal

A serious Injury reduction goal was not established in Missouri's 2012 Strategic Highway Safety Plan. As a result, the 2012 actual serious injury number was established as the benchmark. From the 2012 number, the same fatality reduction trend line was used to calculate interim yearly serious injury reduction goals from 2013 through 2016.

Target #2: To reduce serious injuries to:

- 5,266 by 2013
- 5,020 by 2014
- 4,781 by 2015
- 4,534 by 2016

Performance Measure:

Number of serious injuries

Benchmark:

• 2012 serious injuries = 5,506 (4,657 in 2014)

Throughout the remainder of the document, the following serious injury reduction goals were calculated in the following manner. The percent of contribution of the various crash types was applied to the 2012 baseline of 5,506 serious injuries. From that point, the interim years' serious injury goals (2013, 2014, 2015 and 2016) were calculated using a trend line aimed at reaching the 4,534 or fewer serious injuries by 2016. Serious injury goals were set for the following areas:

- Serious injuries involving drivers age 15 through 20
- Serious injuries involving older drivers
- Serious injuries resulting from crashes involving school buses or school bus signals

() Information in parenthesis is actual data for the respective year listed.

#### **Targets by Region**

The Missouri Coalition for Roadway Safety has seen varied success from each of the seven regions in reducing fatalities on our roadways. While some regions have seen greater success than others in regards to percentage reduction, each has done a tremendous job in making our roads safer for the traveling public.

In order for the Coalition to reach the target of 700 or fewer by the end of 2016, each region will need to continue efforts in all disciplines. By the end of 2016, the state will have seen a roadway fatality reduction of 44 percent since 2005. More importantly, each region will have to reduce the roadway fatalities by over 40 percent in order for the state to reach the target.

The fatality number established for each region was determined from the previous eight years starting with 2005 (eight-year average). This method was preferred in order to minimize the fluctuations realized by each region.



### Fatalities by Region

Reduction per Region (2013-2016 estimated)

Year	NW	NE	КС	CD	SL	SW	SE	Total
2005	85	93	203	188	238	257	193	1,257
2006	56	63	150	190	205	260	172	1,096
2007	52	71	162	175	206	173	153	992
2008	59	62	171	155	195	179	139	960
2009	57	49	155	133	170	165	149	878
2010	32	66	145	101	175	167	135	821
2011	48	50	122	120	162	154	130	786
2012	46	58	161	123	171	143	124	826
2013	46	55	135	126	162	160	128	813
2014	44	52	129	121	155	152	122	775
2015	42	50	123	115	147	145	116	738
2016	40	47	117	109	140	138	110	700

#### **Safety Plan Integration**

Missouri's target of 700 or fewer fatalities has been integrated into all key planning documents that include: State Highway Safety Strategic Plan, Missouri's Blueprint to Save More Lives; the Commercial Vehicle Safety Plan (CVSP); and the Highway Safety Plan and Performance Plan (HSP). The fatality reduction goal is also included in the Highway Safety Improvement Program (HSIP) Annual Report along with fatalities, fatality rates and serious injuries. Every effort will be made to establish evidence based strategies that will guide Missouri to meet this target.

#### **Blueprint Implementation**

The Blueprint is a collective effort of the Missouri Coalition for Roadway Safety (MCRS) and safety professionals throughout the state. The MCRS leads the charge to implement the Blueprint and encourage safety partners to focus their activities and programs in support of the "Necessary Nine" and subsequent emphasis areas, focus areas, and strategies. The state is divided into seven regional coalitions that develop annual safety plans. These coalitions meet on a regular basis to discuss their concerns, review how their countermeasures are working, and consider ways to improve their efforts. Approximately \$2 million of state road funds are dedicated to this effort.

The Blueprint is an overarching strategic highway safety plan for the State of Missouri while the state's Section 402 Highway Safety Plan serves as one of the implementation components in support of the Blueprint efforts.

#### **HSP and Performance Plan Overview**

Under the Highway Safety Act of 1966, the National Highway Traffic Safety Administration (NHTSA) provides grants and technical assistance to states and communities. Section 402 of the Act requires each state to have a highway safety program to reduce traffic crashes and deaths, injuries and property damage. Sec-

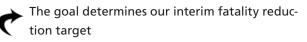
tion 402 grant funds are apportioned to the states based on the ratio of state population to the national population (75%) and state public road mileage to the total national public road mileage (25%).

Section 402 funds must be used to support the state's performance plan (which contains performance goals based on the traffic safety problems identified by the state) and the HSP. These plans provide for the implementation of a program that addresses a wide range of highway safety problems related to human factors and the roadway environment and that contributes to the reduction of crashes and resulting deaths and injuries.

The Blueprint serves as a roadmap for the State's

**Highway Safety Plan** 

The "Necessary Nine" provides direction for the HSP



The strategies outlined within the HSP and Performance Plan will be implemented in an attempt to reach the overarching statewide Blueprint target of 700 or fewer fatalities by 2016.

#### Performance Measures

Performance measures enable the state to track progress, from a specific baseline, toward meeting an interim target. In August 2008, the US Department of Transportation released a document, DOT HS 811 025, that outlines a minimum set of performance measures to be used by states and federal agencies in the development and implementation of behavioral highway safety plans and programs. An expert panel from the National Highway Traffic Safety Administration, State Highway Safety Offices, academic and research organizations, and other key groups developed these perfor-

> mance measures, which were agreed upon by NHTSA and the Governors Highway Safety Association.

The initial minimum set contains 15 measures: 11 core outcome measures, 1 core behavior measure; and 3 activity measures.

These 15 measures cover the major areas common to state highway safety plans and use existing data systems. Beginning with the 2010 Highway Safety Plans and Annual Reports, states set goals for and report progress on each of the 11 core outcome and behavior measures annually. In 2014, an additional outcome measure, bicycle fatalities, was added. The following page outlines the 15 performance measures which will be identified within their respective program areas:



- 1. Fatalities (actual)
- 2. Fatality rate per 100M VMT (statewide; urban; rural)
- 3. Number of serious (disabling) injuries
- 4. Number of fatalities involving drivers or motorcycle operators with .08 BAC or above
- 5. Number of unrestrained passenger vehicle occupant fatalities
- 6. Number of speeding-related fatalities
- 7. Number of motorcyclist fatalities
- 8. Number of un-helmeted motorcyclist fatalities
- 9. Number of drivers age 20 or younger involved in fatal crashes
- 10. Number of pedestrian fatalities
- 11. Number of bicycle fatalities
- 12. Percent observed belt use for passenger vehicles front seat outboard occupants
- 13. Number of seat belt citations issued during grant-funded enforcement activities
- 14. Number of impaired driving arrests made during grant-funded enforcement activities
- 15. Number of speeding citations issued during grant-funded enforcement activities

#### Benchmarks

Our benchmarks will serve as points of reference by which we are able to measure our progress. These benchmarks are not totally reliant upon the programs implemented by the highway safety office. They are often highly dependent upon existing public policy and the motoring public's adherence to traffic laws and safe driving habits.

The Statewide Goals, Performance Measures, and Benchmarks are "expectations" based upon the targets established in Missouri's Blueprint to ARRIVE ALIVE (850 or fewer fatalities by 2012) and Missouri's Blueprint to SAVE MORE LIVES (700 or fewer fatalities by 2016).

#### **Best Practices Countermeasures**

The Highway Safety Office makes every attempt to ensure that effective countermeasure efforts are incorporated into the strategies of the Plan by employing the following methods:

1. Utilizing proven countermeasures identified within the latest update of Countermeasures That Work: A Highway Safety Countermeasure Guide for State Highway Safety Offices, US DOT, NHTSA;

2. Utilizing countermeasures identified in NCHRP report 622 publication (Effectiveness of Highway Safety Countermeasures)

3. Evaluating traffic crash data to determine crash types, target populations and geographic locations in order to most effectively implement countermeasure efforts;

4. Participating in national law enforcement mobilizations that combine blanketed enforcement and saturated media during established timeframes and in targeted traffic corridors;

5. Participating in state, regional, and national training opportunities in order to gain insight into proven programs that can be replicated in Missouri; and

6. Reviewing highway safety research studies from Transportation Research Board, NHTSA, FHWA, FMCSA, Insurance Institute for Highway Safety, AAA Foundation, etc. to guide the inclusion of various strategies in the Plan.



No highway safety office can work in a vacuum without communication, cooperation and coordination with our safety partners. This partnership approach allows us to expand our resources, generate diverse ideas, and incorporate new concepts and projects into our Highway Safety Plan. A sampling of the myriad of safety partners include:

American Automobile Association American Association of Retired Persons Blueprint Regional Coalitions (7 -Northwest, Northeast, Kansas City, Central, St. Louis, Southwest, Southeast) Cape Girardeau Safe Communities Program **City/County Engineers County Health Departments** East-West Gateway Coordinating Council **Emergency Nurses Association** Federal Highway Administration Federal Motor Carrier Safety Administration Institutions of Higher Education Law Enforcement Traffic Safety Advisory Council Law Enforcement Training Academies Local Technical Assistance Program Mercy Hospital **Metropolitan Planning Organizations** Mid-American Regional Council MO Association of Insurance Agents MO Automobile Dealers Association MO Coalition for Roadway Safety MO Department of Health & Senior Services MO Department of Labor and Industrial Relations

MO Department of Mental Health MO Department of Public Safety MO Department of Revenue MO Division of Alcohol and Drug Abuse MO Division of Alcohol and Tobacco Control MO Head Injury Advisory Council MO Injury and Violence Prevention Advisory Committee **MO Trucking Association** MO Office of Prosecution Services MO Police Chiefs Association **MO Safety Center MO** Sheriffs Association MO State Highway Patrol MO Youth/Adult Alliance Mothers Against Drunk Driving Motorcycle Safety Task Force National Highway Traffic Safety Admin. Region 7 Office of State Courts Administrator **Operation Impact Operation Lifesaver** Partners in Prevention **Regional Planning Commissions** Safe Kids Coalitions State Farm Insurance Think First Missouri Traffic Safety Alliance of the Ozarks Trailnet

In addition to these highway safety partners, each Blueprint regional coalition has an extensive base of regional partners.

#### **Planning, Programming and Implementation Timeframes**

The state's highway safety program, as explained earlier, is a federal grant program. The federal fiscal year runs from October 1 through September 30.

The table on the following page represents the timeframes within which the agency must operate in order to meet our federal requirements. The timeframes also provide a quick overview of when grant applications, program reports, and annual reports are due. This information provides our grantees and the general public a clearer picture of our internal process.

Some dates are firm—those established by the federal government for submitting our HSP, annual report, and supplemental grant applications. Some of the dates established by the Highway Safety Office are more fluid; they may be revised in order to allow the agency to function more efficiently.

The following table sets the timeframes for the basic Section 402/405 Highway Safety Program and the annual report.



# Planning, Programming and Implementation Timeframes **Highway Safety Plan and Annual Report**

SEP												1		30	30		30					
AUG			-	HT.							21-25											
JUL			-	ER MON						15-31												
NUL			-	<b>TIMES P</b>				10	30													
MAY			-	MULTIPLE TIMES PER MONTH																		
APR			D N G				3-14						30									30
MAR			0 N G 0	PROCESSED		1																
FEB																						
JAN	-		-	<b>RS ARE</b>	2-13																	
DEC		1	-	V O U C H E R S															15	31	31	
NOV			-															15				
OCT			-										31			1						31
ACTIVITY	Data collection & analysis, problem identification, internal planning and input solicitation for new fiscal year	Mail out requests for project proposals for new fiscal year	Contract and equipment monitoring by HS staff	Grantee reimbursement vouchers	Conduct regional grant application training sessions	Grant applications due to HS	Grant applications review & budget meetings	Contracts written and reviewed internally	HSP & Performance Plan/405 grants due to NHTSA	Mail grantee award and denial letters	Regional contract award workshops w/grantees	Verify that soft match letters are on file	Program income submissions from grantees	Federal fiscal year ends (contract ending date)	All funds must be obligated for new fiscal year	Federal fiscal year begins (contract start date)	Mail letters requesting year-end reports	Year end reports due from grantees	Compile & print annual report	Annual report & final cost summary due	Audit closeout (within 90 days of fiscal year end)	Require submission of program income documentation

#### **Grant Application Process**

The Highway Safety Office hosts grant application workshops each spring for potential grantees. These workshops are held in five strategic regional locations (Cape Girardeau, Chesterfield, Jefferson City, Springfield, and Lee's Summit) so that no participant has to travel terribly far in order to attend. They are usually scheduled during January.

Workshop participants are provided a packet explaining the highway safety grant program, the types of projects eligible for award, and an overview of statewide statistical traffic crash data. Potential grantees

are given instruction on how to retrieve traffic crash data for analysis through the Missouri State Highway Patrol's web site.

The purpose of the highway safety program and the statewide goal are discussed to help the potential grantees

understand how their efforts are imperative in order to impact the fatality reduction goal. Program areas are identified and the Highway Safety Grant Management System (GMS) and on-line reporting systems are reviewed. These seminars are used as an opportunity to share any new contract conditions, application process changes, or legislative changes that may impact the grant programs. The grant application deadline for the 2017 fiscal year was March 1, 2016.

#### **Internal Grants Management System**

In late 2001, the Highway Safety Office began work with the Regional Justice Information Service (REJIS) to develop the first-of-its-kind on-line grants management system. The system allows grantees to electronically submit applications. This information feeds into a system that builds databases for managing the highway safety grants (budgets, grantee lists, inventory, vouchering, reporting data, disbursement reports, etc.). The system went live for the 2003 grant application cycle. Since that time, the Highway Safety Office has continued to work with REJIS to refine the system in order to make it more user friendly for the grantees, in addition to being more functional and robust for the Highway Safety Office. An extensive rewrite took place to coincide with the 2010 grant cycle. The system was refined so that the processes of application submission, contract development, enforcement reporting, and

> vouchering are now entirely webbased. Three additional programs were also added to the system: Safe Routes to School; Work Zones; and the Motor Carrier Safety Assistance Program. In 2010 the Safe Routes to School program was transferred to another division of MoDOT, therefore, this section of the GMS was not further developed. Additional reporting components have been developed including a training section. The Highway Safety Office will continue to

maintain and improve the GMS and is currently working toward an entirely paperless grant process.

#### **Grant Selection Process**

The Highway Safety program staff reviews the applications relative to their specific areas of expertise. During this preliminary review, they assess the applications to determine their relevancy toward meeting the highway safety goals. Applicants are contacted if clarification is needed. In essence, a case is prepared to present to management and the remaining program staff members to support whether the application should be funded in full, in part, or denied.

Fatal and serious injury crash rankings are performed for all cities, counties, and the unincorporated areas in the state. These rankings are conducted for the problem areas of alcohol, speed, young drinking drivers, distracted, unbelted, under 21 years of age and older drivers. These rankings are also used in determining the overall severity of the problem for each respective location. Fatal and serious injury county, city, and unincorporated county rank orders are located in the Crashes by City, County & Unincorporated County section of this report. Ranking by problem area can be found on the Missouri State Highway Patrol's on-line State Traffic Accident Records System (STARS) located at https://www.mshp.dps.missouri.gov/MSHPWeb/SAC/ stars\_index.html

Law enforcement applications are assessed to determine their rankings by the type of project they are choosing to conduct. While the highest-ranking locals are given priority because of the potential impact of their project, other considerations are taken into account. For instance, a lower-ranking city may be given a project because the county in which they reside ranks high or they may fall within a dangerous corridor. Some communities are given a project in order to participate in the national mobilizations while others are given consideration because the Highway Safety Office has determined a need exists to garner traffic safety minded agencies within a particular geographic location. An additional consideration may be their participation in multi-jurisdictional law enforcement task forces.

An internal team of highway safety program staff review all grant applications. Several days are set aside to review the applications and hear both supporting arguments and issues of concern. The reviewers take many factors into consideration when assessing these applications:

• Does the project fall within the national priority program areas (alcohol and other drug countermeasures; police traffic services; occupant protection; traffic records; emergency medical services; speed; motorcycle, pedestrian, or bicycle safety)?

• Does the project address the key emphasis areas identified within the Blueprint and does it have the ability to impact statewide traffic crash fatalities and serious injuries?

• Does the problem identification sufficiently document problem locations, crash statistics, targeted populations, demonstrated need, and the impact this project would have on traffic safety problems in their community?

Have "best practices" countermeasures been

proposed in order to make a positive impact on the identified problem?

• Will this project provide continuity of effort in a particular geographic region (such as multi-jurisdiction enforcement) or in a particular program area (occupant protection)?

• Will the activity serve as a "foundational project" that satisfies criteria for additional federal funding (e.g., safety belt observational survey)?

• Does the project alleviate, eliminate or correct a problem that was identified in a federally conducted assessment of a highway safety priority program area?

• Will the project satisfy or help satisfy federal goals for regional highway safety issues?

• Are innovative countermeasures proposed and, if so, is there an effective evaluation component included?

• Are any local in-kind resources proposed to match the federal grant efforts?

• Does the applicant propose developing partnerships (e.g., working with service organizations, health agencies, and/or insurance companies; conducting multi-jurisdiction enforcement efforts) in order to expand their resources and enhance their outcomes?

• Is the local government or administration supportive of this proposed activity?

 If equipment is requested, will the equipment support a project or enforcement activity; does the agency have the ability to provide a local match for part of the equipment purchase?

• Is there sufficient funding in the budget to support all or part of this application?

• Has the sub recipients risk of noncompliance with federal statutes, regulations, and the terms and conditions of

#### 28 of 467

the sub award been considered for such factors as:

\*The sub recipient's prior experience with the same or similar sub awards;

\*The results of previous audits including whether or not the sub recipient receives a Single Audit in accordance with Subpart F-Audit Requirements of this part, and the extent to which the same or similar sub-award has been audited as a major program;

\*Whether the sub recipient has new personnel or new or substantially changed systems; and

\*The extent and results of federal awarding agency monitoring

The applications are discussed at length using a risk assessment checklist to ensure consistency and to determine whether the agency should be funded, the level of funding, which grant funding source should support the project, and whether the activity is a state or local benefit (40 percent of funds must be expended toward local benefit). Each applicant funding amount is determined by reviewing at least two prior years awarded funding amounts and spending history; the agencies risk for potential fraud, waste and abuse; and the agencies willingness to comply with the contract conditions regarding timely vouchering. A key reference document is Countermeasures that Work: A Highway Safety Countermeasure Guide for State Highway Safety Offices to assure we support research-based strategies. Other considerations for research-based strategies are Transportation Research Board research and reports, other DOT funded research and university-based research. When equipment is required, the grantee agency is requested to provide a local match. If the local match is unavailable, those applications are reviewed on a case-by-case basis to determine whether this agency can provide full support.

During the meeting, this information is continually updated into the Highway Safety Office's Grants Management System so that real-time information is immediately available. By the end of the meeting, there is a complete listing of the approved projects that will best support the mission and work toward reaching the Blueprint's target of 700 or fewer fatalities by 2016.

#### Grantee Compliance Requirements COMPLIANCE

Any agency receiving a Highway Safety grant must comply with the following statutes or rules:

Nondiscrimination — CFR Chapter 50 prohibits discrimination on the basis of race, color, religion, sex or national origin including DBE and Segregated Facilities.

Hatch Act – Pursuant to United States Code Sections 1501-1508, employees who are paid in whole or in part with federal funds are prohibited from participating in certain partisan political activities including, but not limited to, being candidates for elective office.

Federal Funding Accountability & Transparency Act - Grantees must disclose detailed information about their operations including the name and location of the entity, amount of award, transaction type, unique identifier, names and the total compensation of the five most highly compensated officers of the entity if certain parameters are met. The state then compiles this information for all grantees and facilitates the disclosure of this information to the federal government and the public.

Buy America Act – The state will comply with the provisions of the Buy America Act (49 U.S.C. 5323 (j), which contains the following requirements:

Only steel, iron and manufactured products produced in the United States may be purchased with federal funds unless the Secretary of Transportation determines that such domestic purchases would be inconsistent with the public interest, that such materials are not reasonably available and of a satisfactory quality, or that inclusion of domestic materials will increase the cost of the overall project contract by more than 25 percent. Clear justification for the purchase of non-domestic items must be in the form of a waiver request submitted to and approved by the Secretary of Transportation.

The Drug-Free Workplace Act of 1988 – The state will provide a drug-free workplace according to 41 U.S.C. 8103 by notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in the grantee's workplace. The state will also establish a drug-free awareness program; notify employees of the requirements of the workplace and conviction of such offense and the actions to be taken.

Certification Regarding Federal Lobbying Restriction of State Lobbying - Certifies no federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with the awarding of any federal contract. None of the funds under the programs will be used for any activity specifically designed to urge or influence a state or local legislator to favor or oppose the adoption of any specific legislative proposal pending before any state or local legislative body.

Certification Regarding Debarment and Suspension and Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions – Certifying that the agency and it's principals are presently not debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation in the transaction by any federal department or agency.

Any law enforcement agency receiving a Highway Safety grant must also comply with the following statutes or rules:

Peace Officer Standards and Training Certification (P.O.S.T.) — Pursuant to RSMo 590.100-590.180 all peace officers in the State of Missouri are required to be certified by the Department of Public Safety

Statewide Traffic Analysis Reporting (STARS) – Pursuant to RSMo 43.250, law enforcement agencies must file accident reports with the Missouri State Highway Patrol

Uniform Crime Reporting — Pursuant to RSMo 43.505, all law enforcement agencies shall submit crime incident reports to the Department of Public Safety on the forms or in the format prescribed by DPS, as shall any other crime incident information that may be required by DPS.

Racial Profiling — Pursuant to RSMo 590.650, each law enforcement agency shall compile the data described in Subsection 2 of Section 590.650 for the calendar year into a report to the Attorney General and submit the report to the AG no later than March first of the following calendar year.

Prohibition on Using Grant Funds to Check for Helmet Usage -The State and each subrecipient will not use 23 U.S.C. Chapter 4 grant funds for programs to check helmet usage or to create checkpoints that specifically target motorcycles.

Policy on Seat Belt Use – In accordance with Executive Order 13043, Increasing Seat Belt Use in the United States, dated April 16, 1997, the Grantee is encouraged to adopt and enforce onthe-job seat belt use policies and programs for its employees when operating company-owned, rented, or personallyowned vehicles.

Policy on Banning Text Messaging While Driving – In accordance with Executive Order 13513, Federal Leadership On Reducing Text Messaging While Driving, and DOT Order 3902.10, Text Messaging While Driving, States are encouraged to adopt and enforce workplace safety policies to decrease crashes caused by distracted driving, including policies to ban text messaging while driving companyowned or –rented vehicles, Government-owned, leased or rented vehicles, or privately-owned when on official Government business or when preforming any work on or behalf of the Government.

#### LOCAL ORDINANCES AND POLICIES

Agencies are encouraged to adopt, if possible:

Model Traffic Ordinance—RSMo 300.00—Rules
governing traffic administration and regulation

• Child Restraints—RSMo 307.179—Passenger restraint system required for children birth through age seven years (Primary Offense)

 Seat Belts—RSMo 307.178—Seat belts required for passenger cars

• Primary Seat Belt – A model ordinance allowing primary enforcement of a seat belt violation.

• Open Container—A model ordinance prohibiting the possession of an open container of alcoholic beverages in a motor vehicle.

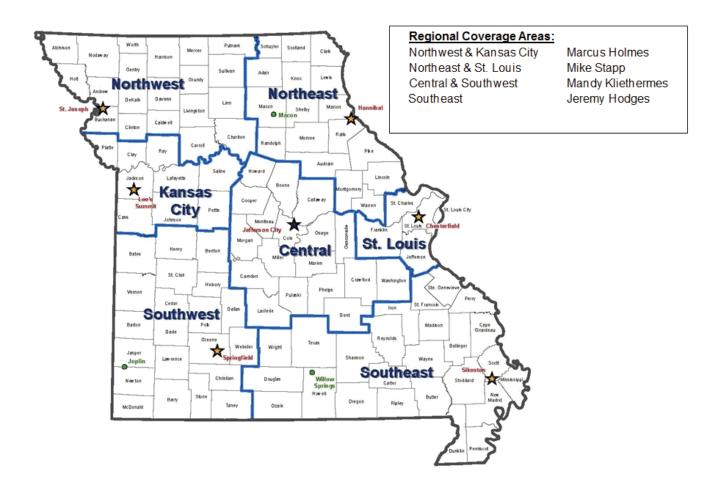
• Law enforcement vehicular pursuit training Title 23, USC, Chapter 4 402a(j)—A state shall actively encourage all relevant law enforcement agencies in such state to follow the guidelines established for vehicular pursuits issued by the International Association of Chiefs of Police that are in effect on the date of enactment of this subsection or as revised and in effect after such date as determined by the secretary.

# EVIDENCE-BASED TRAFFIC SAFETY ENFORCEMENT (E-Be) PROGRAM

The Highway Safety Office has four law enforcement program managers that cover specific regions of the state and two Law Enforcement Liaisons. (LEL) Below is a map that outlines the areas of responsibility for each program manager. These managers are responsible for the statewide coordination of state, county, and local law enforcement projects. The evidence-based traffic safety enforcement program is focused on preventing traffic violations, crashes, and crash fatalities and injuries in areas of most risk for such incidents. It involves an array of enforcement activities throughout the fiscal year.

This section includes: Problem Identification, Implementation Plan and Performance Measures.





#### **Problem Identification Process**

• Fatal and serious injury crash rankings are performed for all cities, counties, and the unincorporated areas in the state. These rankings are conducted for the problem areas of alcohol, speed, young drinking drivers, distracted, unbelted, under 21 years of age and older drivers. These rankings are also used in determining the overall severity of the problem for each respective location. Fatal and serious injury county, city, and unincorporated county rank orders are located in the Crashes by City, County & Unincorporated County section of this report. Ranking by problem area can be found on the Missouri State Highway Patrol's on-line State Traffic Accident System located at https://www. mshp.dps.missouri.gov/MSHPWeb/SAC/stars\_index. html

#### **Implementation Plan**

#### Grant Application Selection

o Grant application workshops are held for potential grantees in five locations around the state. The purpose of the highway safety program and statewide goal are discussed at each workshop to help grantees understand how their efforts are imperative in order to impact the fatality and serious injury problem on Missouri highways.

o Law Enforcement (LE) program management staff participate in each workshop and offer assistance to agencies interested in submitting a grant.

o Once grantees submit their applications into the Highway Safety Office Grant Management System, law enforcement program management staff reviews each application for their fatality / serious injury rankings. During this review, LE program managers assess the applications to determine their relevancy toward meeting the highway safety goals.

o The LE program management team reviews their respective applications and, in spring, a grant application review meeting is held for all grant applications. The LE staff share supporting arguments and issues of concern recommending either to fully fund, partially fund or deny the LE applications. The reviewers take many factors into consideration when assessing these applications. A list of considerations are located in the *Missouri's HSP & Performance Plan*  o Once LE grant award decisions are made that best support the mission and work toward reaching the Blueprint's target of 700 or fewer fatalities by 2016, grant award meetings are held in the fall at five locations around the state. LE program managers provide a copy of the award, review grantee compliance requirements, address any questions and concerns, and network with any new and continuing grantees.

#### Mobilizations

section of the HSP.

o The Law Enforcement Traffic Safety Advisory Council identifies quarterly substance-impaired driving and occupant protection mobilization dates for each fiscal year. The LE program management staff aggressively seeks participation in these mobilizations as well as the NHTSA required Drive Sober or Get Pulled Over and the Click It or Ticket mobilizations. Efforts are also made to encourage participation in the distracted driving month emphasis area enforcement activities and techniques.

#### DWI/Traffic Unit

o A key enforcement technique used is to team with a city or county law enforcement agency to financially support DWI/Traffic Units. We have a total of 10 units. The mission of these units is to focus on substance-impaired drivers/high risk drivers and to aggressively enforce DWI and hazardous moving violations. Below is a list of the full-time DWI Units:

> Joplin Police Department Greene County Sheriff's Office Boone County Sheriff's Office Columbia Police Department Jackson County Sheriff's Office Jefferson County Sheriff's Office Franklin County Sheriff's Office St. Louis County Police Department Creve Coeur Police Department



#### Platte County Sheriff's Office

#### Law Enforcement Task Forces/Councils

o Multiple city/county LE agencies meet on a regular basis to plan and coordinate key enforcement activities. Several agencies have a shortage of personnel to conduct sobriety checkpoints and other enforcement initiatives. The task force concept provides the opportunity to pool resources to conduct more manpower intensive activities such as sobriety checkpoints or corridor projects. It also provides a forum for the LE officers to network and share traffic issues or concerns. Below is a list of the multi-jurisdictional task forces operating in Missouri:

Southwest DWI Task Force (12 Agencies) Northwest DWI Task Force (2 Agencies) Jackson County Traffic Safety Task Force (11 Agencies) Cass County STEP DWI Task Force (7 Agencies) Clay/Platte County DWI Task Force (13 Agencies) St. Louis Regional Traffic Safety Council (50 Agencies) St. Charles County DWI Task Force (7 Agencies) Central Ozarks Regional DWI Task Force (14 Agencies) Southeast Missouri DWI Task Force (12 Agencies) Law Enforcement Traffic Safety Advisory Council (20 Agencies) West Central Traffic Task Force (7 Agencies)

#### Sobriety Checkpoints

o In 2009 an effort was made to increase the number of sobriety checkpoints held each year. Since that time approximately 500 checkpoints are held each year.

#### Communication Component

o There is a communication plan developed with each mobilization. These plans vary dependmanagement staff reviews the results of various law enforcement initiatives/mobilizations. State, local and county LE agencies are encouraged to review their results and area crash data on a regular basis. Based upon these reviews, adjustments are made to operational plans to improve the activity's effectiveness.

#### **Performance Measures**

o To monitor law enforcement participation in the NHTSA and LETSAC mobilizations, the Traffic and Highway Safety Division has three performance measures in their division tracker. These measures identify the number of participating agencies, number of hours worked, number of sobriety checkpoints, and the type and number of citation and warning tickets. The 2014-2015 annual results are located at the end of the section.

o There are a number of measures listed throughout the HSP designed to track the progress of our law enforcement activities. The most important outcome involves a reduction in the number of fatalities and serious injuries occurring by crash type. The following is a list of other measures:

- Number of speeding citations/warnings issued during grant-funded enforcement activities and mobilizations
- Number of impaired driving arrests made during grant-funded enforcement activities and mobilizations
- Number of safety belt citations issued during grantfunded enforcement activities and mobilizations

ing on the available funding and involve press releases, paid media, social media, and earned media. Sample pre- and postpress releases are sent to LE departments choosing to participate in various law enforcement initiatives/mobilizations. In the case of sobriety checkpoints, these releases are required and help make the general deterrent strategy more effective.

Continuous Follow-Up
and Adjustment

o Program



# Keep Customers and Ourselves Safe

## Number of Law Enforcement Agencies Participating and their Citation Results for the National "Click It or Ticket" and "Drive Sober or Get Pulled Over" Campaigns

Result Driver: Bill Whitfield, Highway Safety Director Measurement Driver: Mike Stapp, Senior System Management Specialist

#### Purpose of the Measure:

This measure tracks both the participation and enforcement results of law enforcement activity in the national "Click It or Ticket" safety belt campaign and the "Drive Sober or Get Pulled Over" impaired driving campaign. The National Highway Traffic Safety Administration strongly encourages Missouri's law enforcement participation in these campaigns. Public information and education coupled with strong law enforcement support has proven to be effective in modifying driver behavior.

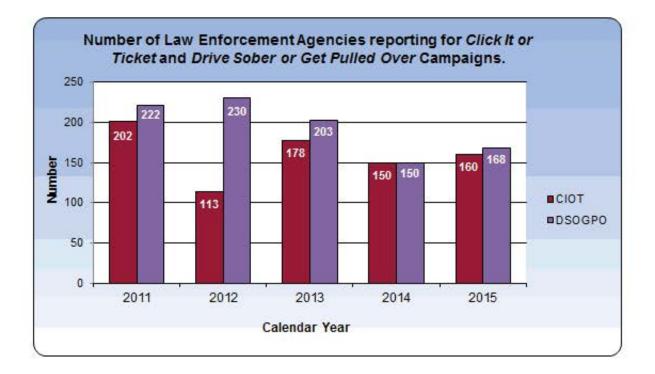
#### Measurement and Data Collection:

The Highway Safety Office subcontracts with the Missouri Safety Center to provide mini-grants to law enforcement agencies in the form of overtime. The enforcement overtime is used to target impaired drivers and unbuckled vehicle occupants. The law enforcement agencies report their enforcement statistics to the Highway Safety Office via an online reporting system.

#### Improvement Status:

Beginning in 2009 all agencies that worked the Drive Sober or Get Pulled Over campaign and four other statewide DWI campaigns were included in a drawing for a fully equipped DWI enforcement vehicle. This and other avenues of promotion by the Highway Safety Office have helped increase participation in all statewide campaigns.

After dropping in participation during 2014, participation in both Click It or Ticket and the Drive Sober Campaign picked back up in 2015.



Year	2011	2012	2013	2014	2015
Participating Agencies	202	113	178	150	160
Hours Worked	15,722	6,079	9,011	7,365	7,334
Traffic Stops	28,905	18,523	17,195	17,131	14,332
Sobriety Checkpoints	21	5	6	3	2
DWI Arrests	386	147	193	167	239
Safety Restraint	7,283	5,201	9,074	9,050	7,785
Child Passenger	330	164	369	377	132
Felonies	97	74	85	109	115
Stolen Vehicles Recovered	4	4	4	9	3
Fugitives Apprehended	471	217	242	503	316
Suspended Licenses	1,377	850	1336	1576	1,271
Uninsured Motorists	3,311	2,303	3,149	3,284	2,792
Speeding	10,046	6,571	8,754	8,682	8,069
Reckless Driver	307	119	191	213	181
Drugs	176	84	194	170	211
Other	11,964	8,199	9,086	9,491	9,355

# Citations/Warnings Issued During the <u>Click It or Ticket</u> Safety Belt Campaign

Citations/Warning Issued During the Drive Sober or Get Pulled Over DWI Campaign

Year	2011	2012	2013	2014	2015
Participating Agencies	222	230	203	150	168
Hours Worked	11,485	11,104	9458	5208	6,500
Traffic Stops	25,594	24,559	24,217	9,405	14,419
Sobriety Checkpoints	66	32	34	13	21
DWI Arrests	852	714	587	288	415
Safety Restraint	1,774	1,609	2398	935	1,981
Child Passenger	130	101	152	53	88
Felonies	193	152	151	81	145
Stolen Vehicles Recovered	8	14	9	5	5
Fugitives Apprehended	377	344	485	331	297
Suspended Licenses	1,394	1,433	1,992	817	1,265
Uninsured Motorists	3,482	3,560	4,371	1,899	2,581
Speeding	8,906	9,087	9,991	6,119	7,265
Reckless Driver	377	386	382	205	232
Drugs	289	267	308	191	232
Other	14,012	12,970	22,947	11,322	8,514

# Keep Customers and Ourselves Safe

### Number of Citations and Warnings Issued by Law Enforcement Officers Working Highway Safety Overtime Projects

Result Driver: Bill Whitfield, Highway Safety Director

Measurement Driver: Mike Stapp, Senior System Management Specialist

#### Purpose of the Measure:

This measure tracks annual trends in law enforcement activity conducted during contracted overtime enforcement projects each federal fiscal year. Law enforcement agencies are awarded overtime enforcement grants to conduct high visibility enforcement of traffic laws. Focused law enforcement efforts attempt to modify driver behavior and ultimately reduce traffic crashes in their jurisdiction.

#### Measurement and Data Collection:

Law enforcement agencies receiving grant funds are required to submit monthly or quarterly reports showing their enforcement efforts. These activity reports are used to demonstrate the amount of effort being conducted in a particular focus area. The enforcement and crash data can help us determine if the project is having an impact. The number of citations issued can vary depending on the time of the year, ongoing campaigns, calls for service, and department strengths.

#### Improvement Status:

The Traffic and Highway Safety Division continues to encourage all law enforcement to participate and report activity for all enforcement efforts. The graphs below show the citations and warnings written each federal fiscal year by law enforcement agencies working in an overtime basis with grants funded by the Traffic and Highway Safety Division.

roumber of citations an	a manings		Dan Linterer		remie i roje
Year	2011	2012	2013	2014	2015
Total Number of Stops	301,027	264,639	263,741	270,538	255,920
Total Hours Worked	159,170	139,389	137,226	134,810	158,235
Total Violations	216,883	198,401	211,958	213,732	194,170
Total HMV	127,261	122,430	131,052	134,946	138,325
DWI	5,761	5,370	4,581	4,178	3,871
Following to Close	1,633	2,821	1.739	2,674	1,741
Stop Sign	7,044	5,729	6,572	9,034	7,238
Signal Violation	3,580	2,670	2,583	3,169	2,923
Fail to Yield	1,071	818	743	925	845
C&I	1,335	1,409	1,296	976	1,252
Speeding	81,055	71,688	77,153	79,366	84,897
Other HMV	25,761	31,682	36,155	34,380	35,558
Seat Belt	20,401	15,716	18,138	17,273	20,590
Child Restraint	933	547	693	610	586
Other Non-HMV Violations	43,867	36,969	36,312	34,434	36,190
Felony Arrests	1,287	980	1,047	850	1,064
Drug Arrests	1,758	1,636	1,654	1,577	1,944
Vehicles Recovered	36	102	46	153	82
Fugitives Apprehended	2,868	2,456	3,427	2,745	3,600
Suspended Revoked License	6,416	5,154	5,989	6,060	6,594
Uninsured	18,027	15,220	19,841	17,557	16,169
Number of Sobriety Checkpoints	503	504	475	446	389

#### Number of Citations and Warnings Issued by Law Enforcement - Overtime Projects

# Keep Customers and Ourselves Safe

### Number of Citations Issued by Law Enforcement Officers Working Highway Safety Mobilizations

Result Driver: Bill Whitfield, Highway Safety Director Measurement Driver: Marcus Holmes, Intermediate System Management Specialist

#### Purpose of the Measure:

This measure tracks annual trends in law enforcement activity conducted during mobilization efforts throughout the year. Eleven mobilization campaigns are conducted throughout the year targeting occupant restraint and impaired driving violations. Public information and education coupled with strong law enforcement support has proven to be effective in modifying driver behavior and ultimately reduces traffic crashes.

#### Measurement and Data Collection:

Law enforcement agencies utilize funding provided by the University of Central Missouri - Missouri Safety Center or provide manpower at their own expense. Enforcement data from the participating agencies is collected through a web-based reporting site. These activity reports are used to demonstrate the amount of effort being conducted in a particular focus area.

#### Improvement Status:

Citations increase during National and State recognized campaigns. These include "Youth Seat Belt Enforcement" in March, "Click It or Ticket" in May/June, and "Drive Sober or Get Pulled Over" in August/September. The Traffic and Highway Safety Division continues to encourage all law enforcement to participate and report activity for these campaigns whether funded or not. The graph below shows the citations written each year by participating law enforcement agencies.

Year	2011	2012	2013	2014	2015
Total Number of Stops	143,262	121,483	104,765	88,126	66,172
Total Hours Worked	70,307	51,865	45,288	36,446	43,093
Total Violations	147,213	153,639	117,559	96,409	97,163
Total HMV	75,542	85,689	27,766	67,365	73,515
DWI	2,923	2,814	2,440	1,871	1,544
Following to Close	1,217	1,355	1,282	1,160	1,173
Stop Sign	6,012	5,407	6,564	5,195	5,242
Signal Violation	2,404	2,378	3,138	2,379	2,619
Fail to Yield	1,298	1,218	1,341	1,226	1,247
C&I	1,515	1,532	1,588	1,214	1,333
Speeding	42,792	44,804	44,317	39,955	43,326
Other HMV	17,319	24,139	11,110	14,209	16,769
Seat Belt	20,347	15,029	18,831	16,312	18,642
Child Restraint	1,183	769	1,055	916	707
Other Violations	28,924	31,141	66,862	72,154	71,090
Felony Arrests	735	670	546	595	689
Drug Arrests	1,217	1,301	1,368	1,270	1,444
Vehicles Recovered	97	45	30	41	34
Fugitives Apprehended	1,966	1,769	2,064	2,369	1,655
Suspended Revoked License	5,959	6,275	8,353	6,526	6,946
Uninsured	14,666	15,693	18,919	14,954	15,270
Number of Sobriety Checkpoints	167	145	139	90	61

#### Number of Citations Issued by Law Enforcement During Mobilizations

# STATEWIDE CRASH ANALYSIS

Making the roadway traffic system less hazardous requires understanding the system as a whole – understanding the interaction between its elements (vehicles, roads, road users and their physical, social and economic environments) and identifying where there is potential for intervention. This integrated approach more effectively addresses our traffic safety problems.

#### **Problem Identification**

Problem identification involves the study of the relationship between collisions and the characteristics of people using the roadways, types and numbers of vehicles on the roads, miles traveled, and roadway engineering.

Most motor vehicle crashes have multiple causes. Experts and studies have identified three categories of factors that contribute to crashes – human, roadway environment, and vehicle factors. Human factors involve the driver's actions (speeding and violating traffic laws, etc.) or condition (effects of alcohol or drugs, inattention, decision errors, age, etc.). Roadway environment factors include the design of the roadway, roadside hazards, and roadway conditions. Vehicle factors inIn March 2015, an attitudinal survey was conducted on 2,502 adult Missouri drivers to capture their current attitudes and awareness of specific items concerning highway safety such as seat belt usage, speeding issues, cell phone use while driving and alcohol impaired driving. (2016 survey results not available until July, 2016)

Since this plan is directed toward modifying behavior so that safety will be the accepted norm, it stands to reason that we must identify and categorize those individuals who are making unsafe decisions and/or who are causing traffic crashes. It will be obvious to the reader that this document references targeted audiences or populations. The term "target audience" infers a population group that is overrepresented in a particular type of crash (e.g., drinking drivers) or is underrepresented in using safety devices (e.g., un-helmeted motorcyclists or unrestrained occupants). This terminology is in no way meant to profile certain populations by age, gender, race, or nationality. Rather, this is an accepted term to identify specific population groups that must be reached with our messages and our enforcement efforts if we are to reduce traffic crashes, prevent injuries and save lives.

clude any failures in the vehicle or its design. Human factors are generally seen as contributing most often to crashes at 93 percent, followed by roadway environment at 33 percent, and finally the vehicle at 13 percent (US General Accounting Office, GAO-03-436, **Research Continues** on a Variety of Factors that Contribute to Motor Vehicle Crashes, March 2003).



38 of 467



Research has shown that the number of crashes at a particular site can vary widely from year to year, even if there are no changes in traffic or in the layout of the road. Since a single year's data is subject to considerable statistical variation; three years is generally regarded as a practical minimum period for which a fairly reliable annual average rate can be calculated. The FY 2017 Highway Safety Plan references crash statistics for 2012 through 2014.

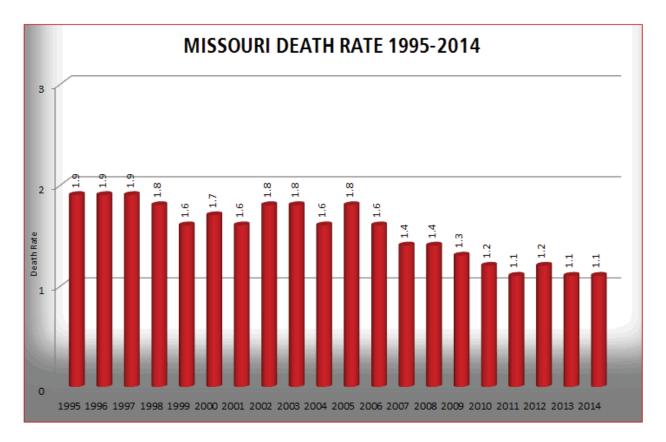
In the 3-year period 2012-2014, a total of 2,349 people died on Missouri's roadways while another 15,101 suffered serious injuries. A fatality is recorded when a victim dies within 30 days of the crash date from injuries sustained in the crash. A serious injury is recorded when a victim observed at the scene has sustained injuries that prevent them from walking, driving, or continuing activities the person was capable of performing before the crash. While we recognize that many crashes result simply in property damage, only fatal and serious injury crashes have been targeted because they are more costly in human suffering, social and economic terms.

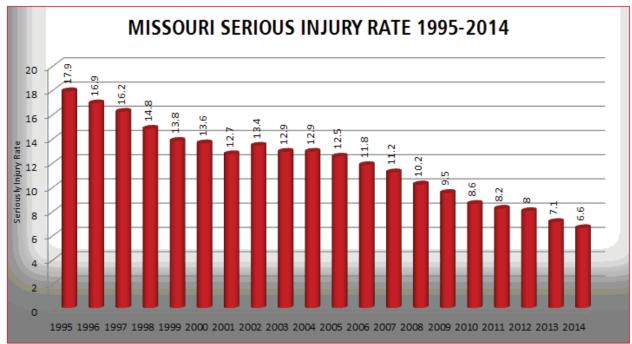
The first series of graphs on the following pages present a long-term depiction of death and serious injury rates covering the 20-year period 1995 through 2014. The second series of graphs address only the three-year period, 2012-2014. The final graphs show the threeyear moving average for fatalities and serious injuries starting with 2006-2008.

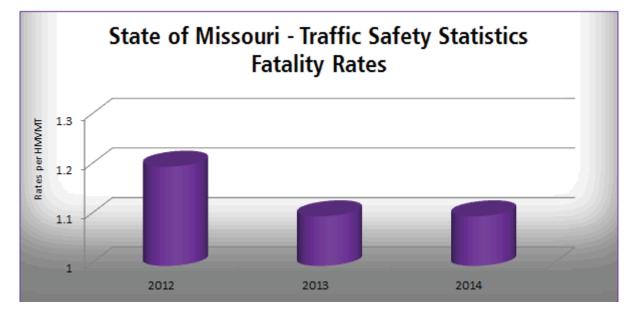
					Serious Injury
Year	Fatalities	Serious Injuries	Miles Traveled <sup>1</sup>	Fatality <sup>2</sup> Rate	Rate <sup>3</sup>
2012	826	5,506	68,403,000,000	1.2	8
2013	757	4,939	69,328,000,000	1.1	7.1
2014	766	4,657	70,937,000,000	1.1	6.6

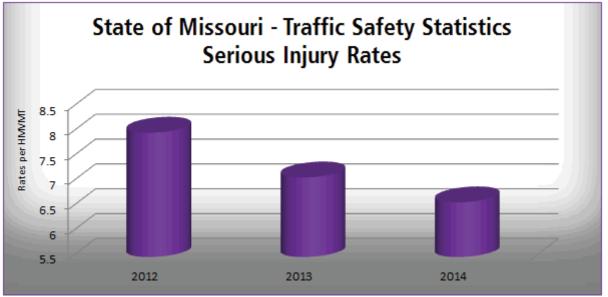
<sup>1</sup> Miles traveled were obtained from the Missouri Department of Transportation - Planning (not an official number) <sup>2</sup> Number of fatalities per 100 million miles of vehicle travel

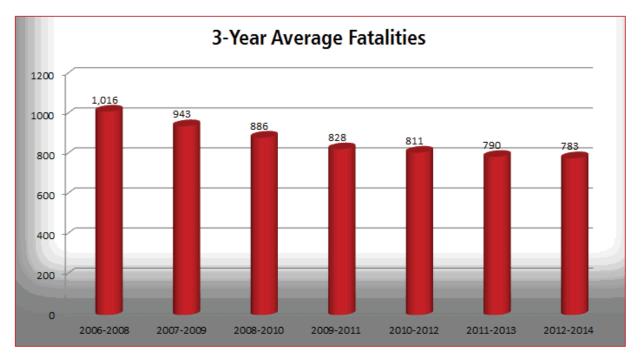
3 Number of serious injuries per 100 million miles of vehicle travel

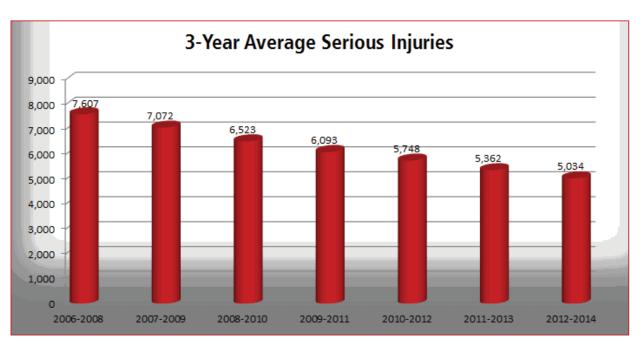








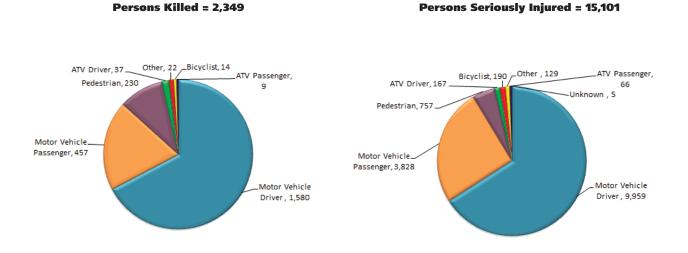




### Current Traffic Crash Data: 2012-2014

Although overall fatalities and the death rate reflect a positive reduction, it should not be a cause for complacency. A substantial number of people continue to be killed and seriously injured on Missouri roadways and most of these traffic crashes are preventable. In 2012-2014, there were 414,173 traffic crashes, 2,143 resulted in fatalities and 12,000 resulted in serious injuries. These fatal and serious injury crashes resulted in 2,349 deaths and 15,101 serious injuries.

A substantial number of persons killed or injured in Missouri's 2012-2014 traffic crashes were drivers and passengers of motorized vehicles. Of the fatalities, 67.3% were drivers and 19.5% were passengers; of those seriously injured, 65.9% were drivers and 25.3% were passengers.



#### 2012-2014 Missouri Fatalities & Serious Injuries

Note: OTHER = drivers/passengers on farm implements, motorized bicycles, other transport devices, construction equipment and unknown vehicle body types

#### **Data Collection**

Data is the cornerstone of this plan, and is essential for diagnosing crash problems and monitoring efforts to solve traffic safety problems. We must identify the demographics of the roadway users involved in crashes, what behaviors or actions led to their crashes, and the conditions under which the crashes occurred. Data collection and analysis is dynamic throughout the year.

When data is effectively used to identify repeating patterns in the dynamic interaction of people, pavement, vehicles, traffic, and other conditions, there is increased potential for successful mitigation. From this comes a reduction in the number and severity of crashes, ultimately resulting in fewer fatalities and serious injuries.

The Missouri State Highway Patrol serves as the central repository for all traffic crash data in the state. The Safety Section of MoDOT's Traffic and Highway Safety Division analyzes that data to compile statistics on fatalities and serious injuries. Three years' worth of crash statistics are compiled to provide a more representative sampling, thereby more effectively normalizing the data. Missouri uses comprehensive data sources which include: STARS and Traffic Management System (TMS).

#### Collisions are analyzed to identify:

Occurrence – time of day, day of week, month of year, holidays and/or special events Roadways – urban versus rural, design, signage, traffic volume, work zones, visibility factors, location within high crash corridors

Roadway users – age, gender, vehicle users versus pedestrians

Safety devices – used/not used (safety belts, child safety seats, DOT compliant motorcycle helmets) Causation factors –

Primary: aggressive driving, impaired by alcohol and/or other drugs, distracted or fatigued, speeding or driving too fast for conditions, red light running Secondary: run off the road, head-on, horizontal curves, collisions with trees or utility poles, unsignalized intersections

Vehicles – type (e.g., passenger vehicles, motorcycles, pickup trucks)

#### **Contributing Factors**

Analysis of our statewide traffic crash data was based on the six emphasis areas and their focus areas as defined in the *Missouri's Blueprint to SAVE MORE LIVES*:

Emphasis Area I – Serious Crash Types Emphasis Area II – High-Risk Drivers and Unrestrained Occupants Emphasis Area III – Special Vehicles Emphasis Area IV – Vulnerable Roadway Users Emphasis Area V – Special Roadway Environments Emphasis Area VI – Data and Data System Improvements



#### **Urban versus Rural Crash Experience**

Traffic crashes are not evenly distributed on Missouri roadways. As expected, crashes occur in large numbers in the densely populated urban areas (population of 5,000 or more) of the state. Since such a large portion of Missouri's overall population is in the rural areas (under 5,000 population or unincorporated area), the greater number of crashes occur in those areas. Of the 14,143 fatal and serious injury crashes in 2012-2014, 52% occurred in an urban community while 48% occurred in a rural area. The rural areas of the state take on even greater significance when examining only fatal traffic crashes. In 2012-2014 fatal traffic crashes, 41.9% occurred in an urban area of the state while 58.1% occurred in a rural area.

#### FATALITIES AND SERIOUS INJURIES BY COUNTY 2012-2014

**KEY:** County name xx-xx (Fatality #-Serious Injury #)

2012-2014 Total Fatalities: 2,349 Total Serious Injuries: 15,101





#### **STATEWIDE**

Total Fatalities and Serious Injuries by Target Area 2012 - 2014

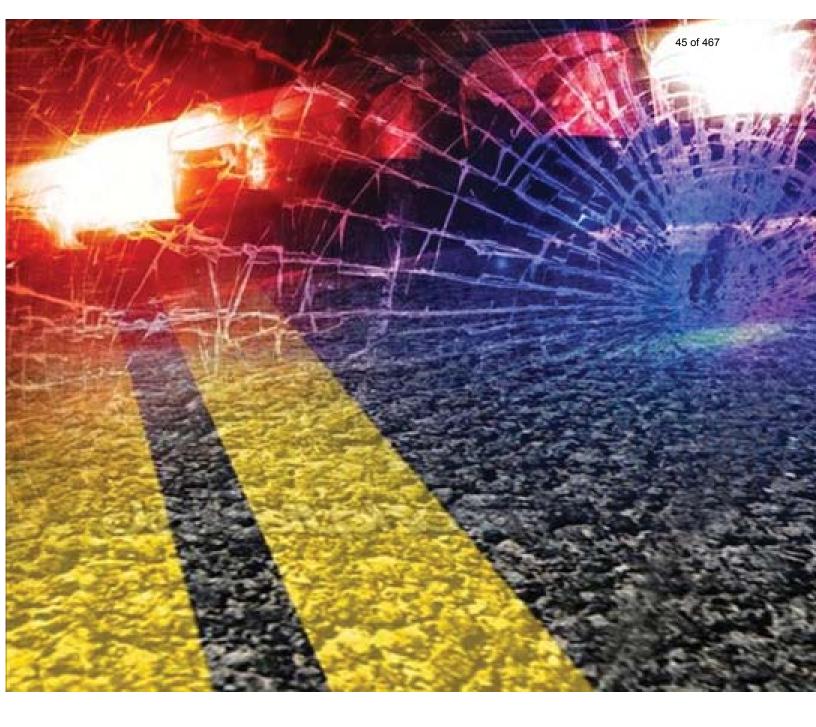
#### **Fatalities Involving**

#### Serious Injuries Involving

Description	2012	2013	2014	Total	Description	2012	2013	2014	Total
Run-off-Road Crashes	401	365	352	1,118	Run-off-Road Crashes	2,281	1,982	1,936	6,199
Unrestrained Occupants Killed	396	334	327	1,057	Horizontal Curves	1,484	1,245	1,264	3,993
Horizontal Curves	279	263	256	798	Unrestrained Occupants Seriously Injured	1,449	1,240	1,175	3,864
Alcohol and - or Other Drugs	244	239	205	688	Aggressive Driving-Too Fast for Conditions	1,280	1,086	1,102	3,468
Aggressive Driving-Too Fast for Conditions	200	195	164	559	Young Drivers - 15-20	1,261	1,050	932	3,243
Unlicensed / Improperly Licensed Drivers	153	135	159	447	Unsignalized Intersection Crashes	935	828	811	2,574
Collision with Tree	131	141	143	415	Alcohol and - or Other Drugs	912	787	749	2,448
Aggressive Driving-Speed Exceeded Limit	143	121	131	395	Unlicensed / Improperly Licensed Drivers	879	743	772	2,394
Young Drivers - 15-20	135	120	114	369	Distraction / Inattention	860	767	748	2,375
Commercial Motor Vehicle	113	99	111	323	Distracted / Inattentive Drivers	825	722	711	2,258
Head-On Crashes (Non-Interstates)	86	97	109	292	Motorcyclists Seriously Injured	688	555	545	1,788
Older Drivers - 65-75	86	92	102	280	Collision with Tree	634	560	543	1,737
Unsignalized Intersection Crashes	104	76	83	263	Older Drivers - 65-75	512	484	511	1,507
Motorcyclists Killed	102	72	87	261	Head-On Crashes (Non-Interstates)	479	427	450	1,356
Distraction / Inattention	92	85	68	245	Signalized Intersection Crashes	405	454	368	1,227
Pedestrians Killed	86	75	69	230	Aggressive Driving-Speed Exceeded Limit	430	410	359	1,199
Distracted / Inattentive Drivers	85	74	61	220	Commercial Motor Vehicle	389	402	371	1,162
Older Drivers - 76 or Older	60	67	69	196	Aggressive Driving-Following Too Close	345	378	302	1,025
Collision with Utility Pole	25	37	24	86	Older Drivers - 76 or Older	284	249	241	774
Signalized Intersection Crashes	31	24	28	83	Pedestrians Seriously Injured	229	276	252	757
Aggressive Driving-Following Too Close	16	9	17	42	Collision with Utility Pole	178	159	161	498
Head-On Crashes (Interstates)	10	9	10	29	Bicyclists Seriously Injured	73	66	51	190
Work Zones	9	9	8	26	Work Zones	73	34	55	162
Bicyclists Killed	6	4	4	14	Head-On Crashes (Interstates)	27	16	17	60
School Buses/Bus Signal	3	3	4	10	School Buses/Bus Signal	15	19	14	48

Note: This summary of traffic crashes represents only those crashes that occurred on Missouri's highway system, including all public roadways. The information

is a summary of the crash reports submitted to the Missouri State Highway Patrol. This publication is possible only through the conscientious reporting efforts of Missouri law-enforcement agencies. These statistics are compiled pursuant to federal law, 23 USC Section 152.



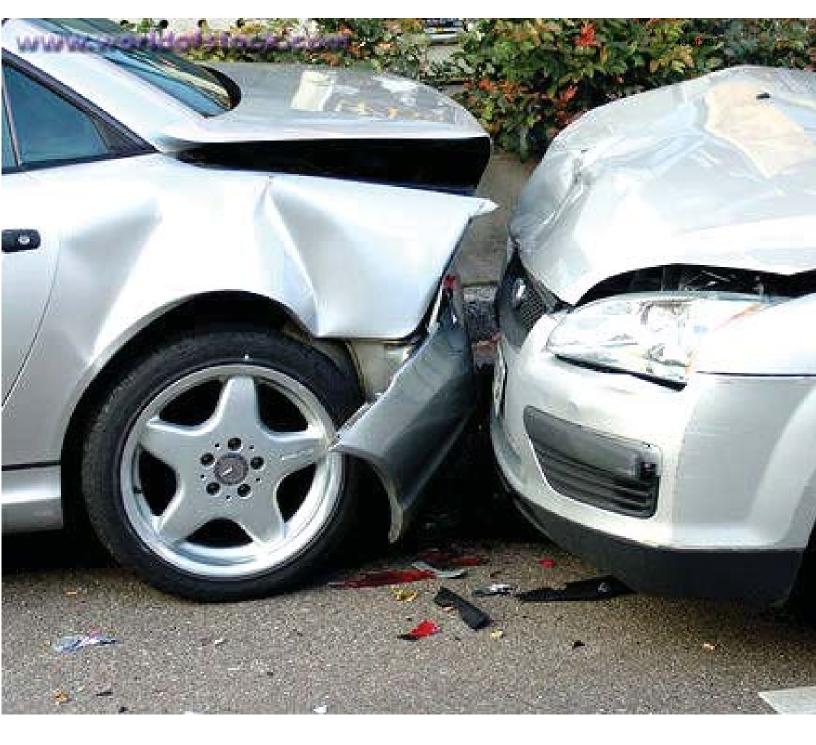
# County Rank Order 2012-2014 FATAL CRASHES

Ranking	County	Count	Percent
1	JACKSON	194	9.1%
2	ST LOUIS	156	7.3%
3	ST LOUIS CITY	105	4.9%
4	GREENE	85	4.0%
5	JEFFERSON	82	3.8%
6	FRANKLIN	64	3.0%
7	CLAY	60	2.8%
8	ST CHARLES	57	2.7%
9	BOONE	43	2.0%
10	NEWTON	38	1.8%
11	JASPER	35	1.6%
12	ST FRANCOIS	32	1.5%
13	JOHNSON	31	1.4%
14	CASS	30	1.4%
15	PHELPS	30	1.4%
16	PLATTE	30	1.4%
17	BARRY	28	1.3%
18	LINCOLN	28	1.3%
19	BUCHANAN	27	1.3%
20	WASHINGTON	27	1.3%
21	CAMDEN	25	1.2%
22	MILLER	25	1.2%
23	HOWELL	24	1.1%
24	CHRISTIAN	23	1.1%
25	CAPE GIRARDEAU	22	1.0%
26	DUNKLIN	21	1.0%
27	PETTIS	21	1.0%
28	PULASKI	21	1.0%
29	TANEY	21	1.0%
30	LAWRENCE	20	0.9%
31	MCDONALD	20	0.9%
32	STONE	20	0.9%
33	LACLEDE	19	0.9%
34	BUTLER	18	0.8%
35	COLE	18	0.8%
36	WARREN	17	0.8%
37	POLK	16	0.7%
38	SCOTT	16	0.7%
39	BENTON	15	0.7%
40	CALLAWAY	15	0.7%
41	CRAWFORD	15	0.7%
42	STE GENEVIEVE	15	0.7%

# 2012-2014 MISSOURI FATAL TRAFFIC CRASHES RANK ORDER COUNTY LIST

	NEW MADRID	14	0.7%
44	PEMISCOT	14	0.7%
45	TEXAS	14	0.7%
46	RANDOLPH	13	0.6%
47	SALINE	13	0.6%
48	STODDARD	13	0.6%
49	VERNON	13	0.6%
50	WEBSTER	13	0.6%
51	WRIGHT	13	0.6%
52	BOLLINGER	12	0.6%
53	LAFAYETTE	12	0.6%
54	PERRY	12	0.6%
55	WAYNE	12	0.6%
-	ANDREW	11	0.5%
	AUDRAIN	11	0.5%
	MARION	11	0.5%
	COOPER	10	0.5%
	DENT	10	0.5%
	MONTGOMERY	10	0.5%
	OREGON	10	0.5%
	PIKE	10	0.5%
	RIPLEY	10	0.5%
	GASCONADE	9	0.3%
	MARIES	9	0.4%
	MISSISSIPPI	9	0.4%
	MONITEAU	9	0.4%
	MORGAN		0.4%
	OZARK	9 9	0.4%
	RALLS	9	0.4%
	RAY	9	0.4%
	SHANNON	9	0.4%
	HENRY	8	0.4%
		8	0.4%
	REYNOLDS	8	0.4%
	BARTON	7	0.3%
	CEDAR	7	0.3%
	DOUGLAS	7	0.3%
	HARRISON	7	0.3%
	MADISON	7	0.3%
	NODAWAY	7	0.3%
	OSAGE	7	0.3%
-	ST CLAIR	7	0.3%
85	ADAIR	6	0.3%
86	CLARK	6	0.3%
87	DADE	6	0.3%
88	CARTER	5	0.2%
89	CHARITON	5	0.2%

90	CLINTON	5	0.2%
91	DAVIESS	5	0.2%
92	DEKALB	5	0.2%
93	HOLT	5	0.2%
94	HOWARD	5	0.2%
95	LEWIS	5	0.2%
96	MACON	5	0.2%
97	SCHUYLER	5	0.2%
98	CALDWELL	4	0.2%
99	DALLAS	4	0.2%
100	KNOX	4	0.2%
101	LIVINGSTON	4	0.2%
102	PUTNAM	4	0.2%
103	SULLIVAN	4	0.2%
104	BATES	3	0.1%
105	CARROLL	3	0.1%
106	MONROE	3	0.1%
107	GRUNDY	2	0.1%
108	HICKORY	2	0.1%
109	LINN	2	0.1%
110	WORTH	2	0.1%
111	GENTRY	1	0.0%
112	MERCER	1	0.0%
113	SCOTLAND	1	0.0%
114	ATCHISON	0	0.0%
115	SHELBY	0	0.0%
Total		2,143	



# County Rank Order

# 2012-2014 SERIOUS INJURY CRASHES

Ranking	County	Count	Percent
1	JACKSON	1,486	12.4%
2	ST LOUIS	1,343	11.2%
3	ST LOUIS CITY	579	4.8%
4	JEFFERSON	450	3.8%
5	GREENE	436	3.6%
6	ST CHARLES	394	3.3%
7	CLAY	355	3.0%
8	BUCHANAN	354	3.0%
g	FRANKLIN	259	2.2%
10	CHRISTIAN	239	2.0%
11	BOONE	218	1.8%
12	LACLEDE	200	1.7%
13	COLE	185	1.5%
14	JASPER	178	1.5%
15	NEWTON	162	1.4%
16	LINCOLN	157	1.3%
17	TANEY	154	1.3%
18	CAPE GIRARDEAU	131	1.1%
19	PLATTE	126	1.1%
20	PULASKI	121	1.0%
21	BARRY	116	1.0%
22	LAWRENCE	109	0.9%
23	WEBSTER	108	0.9%
24	TEXAS	107	0.9%
25	BUTLER	105	0.9%
26	CASS	104	0.9%
	CAMDEN	102	0.9%
28	HOWELL	102	0.9%
29	CALLAWAY	100	0.8%
30	STONE	100	0.8%
	ST FRANCOIS	99	0.8%
32	LAFAYETTE	89	0.7%
	SCOTT	89	0.7%
	MCDONALD	86	0.7%
	PETTIS	86	0.7%
	MILLER	85	0.7%
	MARION	83	0.7%

## 2012-2014 MISSOURI SERIOUS INJURY TRAFFIC CRASHES RANK ORDER COUNTY LIST

38	PHELPS	83	0.7%
	JOHNSON	80	0.7%
	BENTON	72	0.6%
	DENT	69	0.6%
	RANDOLPH	69	0.6%
	MORGAN	66	0.6%
	WASHINGTON	65	0.5%
	CRAWFORD	64	0.5%
	PEMISCOT	64	0.5%
	PIKE	61	0.5%
	BOLLINGER	59	0.5%
	NEW MADRID	56	0.5%
	ADAIR	54	0.5%
	AUDRAIN	54	0.5%
	WARREN	54	0.5%
	NODAWAY	52	0.4%
	COOPER	50	0.4%
	HENRY	48	0.4%
56	OZARK	48	0.4%
57	RALLS	47	0.4%
58	BATES	46	0.4%
59	SALINE	45	0.4%
60	ST CLAIR	45	0.4%
61	VERNON	45	0.4%
62	DUNKLIN	44	0.4%
63	WRIGHT	43	0.4%
64	CLINTON	42	0.4%
65	MACON	42	0.4%
66	STE GENEVIEVE	42	0.4%
67	DOUGLAS	40	0.3%
68	GASCONADE	40	0.3%
69	PERRY	40	0.3%
70	STODDARD	40	0.3%
71	POLK	39	0.3%
72	ANDREW	38	0.3%
73	LEWIS	36	0.3%
74	SHANNON	36	0.3%
75	DADE	35	0.3%
76	CEDAR	34	0.3%
77	HOWARD	34	0.3%
78	MARIES	34	0.3%

106 CHARITON 107 GENTRY	16	0.1%
106 CHARITON	16	0.1%
105 CARROLL	16	0.1%
104 BARTON	17	0.1%
103 DALLAS	18	0.2%
101 PUTNAM 102 CARTER	19 18	0.2% 0.2%
100 IRON	19	0.2%
99 GRUNDY	19	0.2%
98 CALDWELL	19	0.2%
97 MONROE	20	0.2%
96 MISSISSIPPI	20	0.2%
	20	0.2%
94 CLARK	23	0.2%
93 SULLIVAN	24	0.2%
92 KNOX	24	0.2%
91 HOLT	24	0.2%
90 DAVIESS	24	0.2%
89 ATCHISON	24	0.2%
88 OREGON	25	0.2%
87 REYNOLDS	26	0.2%
86 DEKALB	26	0.2%
85 OSAGE	27	0.2%
84 LIVINGSTON	28	0.2%
83 WAYNE	30	0.3%
82 RIPLEY	30	0.3%
81 RAY	30	0.3%
80 MONTGOMERY	32	0.3%
79 MONITEAU	32	0.3%



1066 [RF] © www.visualphotos.com



Ranking	City	Count	Percent
1	KANSAS CITY	164	19%
2	ST. LOUIS	106	12%
3	SPRINGFIELD	46	5%
4	INDEPENDENCE	29	3%
5	JOPLIN	18	2%
6	COLUMBIA	17	2%
7	ST. JOSEPH	14	2%
8	CHESTERFIELD	12	1%
9	CAPE GIRARDEAU	11	1%
10	LEES SUMMIT	11	1%
11	ST. CHARLES	11	1%
12	OZARK	8	1%
13	MARYLAND HEIGHTS	7	1%
14	ROLLA	7	1%
15	SIKESTON	7	1%
16	SUNSET HILLS	7	1%
17	FERGUSON	6	1%
18	JEFFERSON CITY	6	1%
19	ST. PETERS	6	1%
20	ARNOLD	5	1%
21	BERKELEY	5	1%
22	BLUE SPRINGS	5	1%
23	BRANSON	5	1%
24	BRIDGETON	5	1%
25	EUREKA	5	1%
26	FENTON	5	1%
27	FLORISSANT	5	1%
28	HAZELWOOD	5	1%
29	NEVADA	5	1%
30	O'FALLON	5	1%
31	RIVERSIDE	5	1%
32	ST. CLAIR	5	1%
33	SULLIVAN	5	1%
34	TOWN AND COUNTRY	5	1%
35	WEST PLAINS	5	1%
36	WRIGHT CITY	5	1%
37	BELTON	4	0%

## 2012-2014 MISSOURI FATAL TRAFFIC CRASHES RANK ORDER CITY LIST

38	FARMINGTON	4	0%
39	KEARNEY	4	0%
40	LIBERTY	4	0%
41	NEOSHO	4	0%
42	ST. JOHN	4	0%
43	WARRENTON	4	0%
44	WENTZVILLE	4	0%
45	CAMDENTON	3	0%
46	DEXTER	3	0%
47	FESTUS	3	0%
48	GRANDVIEW	3	0%
49	HANNIBAL	3	0%
50	JACKSON	3	0%
51	KIRKSVILLE	3	0%
52	KIRKWOOD	3	0%
53	LAKE ST. LOUIS	3	0%
54	MURPHY	3	0%
55	PERRYVILLE	3	0%
56	PINEVILLE	3	0%
57	POPLAR BLUFF	3	0%
58	REPUBLIC	3	0%
59	SCOTT CITY	3	0%
60	UNIVERSITY CITY	3	0%
61	WARRENSBURG	3	0%
	WILDWOOD	3	0%
63	ANDERSON	2	0%
	ASHLAND	2	0%
65	BELLEFONTAINE NEIGHBORS	2	0%
66	BOLIVAR	2	0%
_	BYRNES MILL	2	0%
	CLARK	2	0%
	CLINTON	2	0%
	CREVE COEUR	2	0%
	DES PERES	2	0%
	DESLOGE	2	0%
	ELLISVILLE	2	0%
	FAIR GROVE	2	0%
	GRAY SUMMIT	2	0%
	HOUSTON	2	0%
	IMPERIAL	2	0%
	LADUE	2	0%
79	LEBANON	2	0%

80	MARIONVILLE	2	0%
81	MARYVILLE	2	0%
82	MEXICO	2	0%
83	MONETT	2	0%
84	NORTH KANSAS CITY	2	0%
85	OSAGE BEACH	2	0%
86	PACIFIC	2	0%
87	PLEASANT HILL	2	0%
88	PORTAGEVILLE	2	0%
89	RAYTOWN	2	0%
90	REEDS SPRING	2	0%
91	SEDALIA	2	0%
92	SUGAR CREEK	2	0%
93	TROY	2	0%
94	VALLEY PARK	2	0%
95	WASHINGTON	2	0%
96	ARROW POINT	1	0%
97	AVILLA	1	0%
98	ALTON	1	0%
99	BALLWIN	1	0%
100	BEVERLY HILLS	1	0%
101	BLACK JACK	1	0%
102	BOONVILLE	1	0%
103	BRENTWOOD	1	0%
104	BRONAUGH	1	0%
105	BUNKER	1	0%
	CABOOL	1	0%
107	CALIFORNIA	1	0%
108	CAMERON	1	0%
109	CANTON	1	0%
110	CARTHAGE	1	0%
111	CARUTHERSVILLE	1	0%
112	CASSVILLE	1	0%
113	CEDAR HILL	1	0%
	CHILLICOTHE	1	0%
115	COTTLEVILLE	1	0%
	COUNTRY CLUB HILLS	1	0%
	COUNTRY CLUB VILLAGE	1	0%
	CRESTWOOD	1	0%
	CRYSTAL CITY	1	0%
	СИВА	1	0%
121	DE SOTO	1	0%

122	DIAMOND	1	0%
123	EVERTON	1	0%
124	EWING	1	0%
	EXCELSIOR SPRINGS	1	0%
126	FORT LEONARD WOOD	1	0%
127	FREDERICKTOWN	1	0%
128	FULTON	1	0%
129	GAINESVILLE	1	0%
130	GLADSTONE	1	0%
131	GLASGOW	1	0%
132	GRAIN VALLEY	1	0%
133	GRANBY	1	0%
134	GRAVOIS MILLS	1	0%
135	HARRISONVILLE	1	0%
136	HIGBEE	1	0%
137	HIGH RIDGE	1	0%
138	HILLSBORO	1	0%
139	JANE	1	0%
140	JENNINGS	1	0%
141	JONESBURG	1	0%
142	КАНОКА	1	0%
143	KENNETT	1	0%
144	KINGDOM CITY	1	0%
145	KINGSVILLE	1	0%
146	KNOB NOSTER	1	0%
147	LA MONTE	1	0%
	LADDONIA	1	0%
149	LAKE LOTAWANA	1	0%
150	LAKE OZARK	1	0%
151	LAKE WINNEBAGO	1	0%
	LANCASTER	1	0%
153	LAWSON	1	0%
_	LEADWOOD	1	0%
	LEXINGTON	1	0%
	LINCOLN	1	0%
	LINN CREEK	1	0%
	MACON	1	0%
159	MALDEN	1	0%
	MANCHESTER	1	0%
_	MAPLEWOOD	1	0%
	MARSHFIELD	1	0%
163	MILAN	1	0%

164	MINDENMINES	1	0%
165	MONTGOMERY CITY	1	0%
166	MOUNTAIN VIEW	1	0%
167	NEELYVILLE	1	0%
168	NEW FLORENCE	1	0%
169	NEW HAVEN	1	0%
170	NIXA	1	0%
171	NOEL	1	0%
172	OAK GROVE	1	0%
173	OAKLAND	1	0%
174	OLIVETTE	1	0%
175	OVERLAND	1	0%
176	OWENSVILLE	1	0%
177	PAGEDALE	1	0%
178	PALMYRA	1	0%
179	PARKVILLE	1	0%
180	PEACH ORCHARD	1	0%
181	PHILLIPSBURG	1	0%
182	PINE LAWN	1	0%
183	PLATTSBURG	1	0%
184	QUEEN CITY	1	0%
185	RANDOLPH	1	0%
186	ROGERSVILLE	1	0%
187	RUSSELLVILLE	1	0%
188	SALEM	1	0%
189	SENATH	1	0%
190	SENECA	1	0%
191	SEYMOUR	1	0%
192	SILVER CREEK	1	0%
193	SMITHVILLE	1	0%
194	ST. ROBERT	1	0%
195	ST. THOMAS	1	0%
196	STEELVILLE	1	0%
197	STRAFFORD	1	0%
198	THAYER	1	0%
199	TRENTON	1	0%
	UNION	1	0%
	UNIONVILLE	1	0%
202	UNITY VILLAGE	1	0%
203	URBANA	1	0%
	VAN BUREN	1	0%
205	VERONA	1	0%

206	VILLA RIDGE	1	0%
207	VINITA PARK	1	0%
208	WARSAW	1	0%
209	WAYNESVILLE	1	0%
210	WEAUBLEAU	1	0%
211	WEBB CITY	1	0%
212	WELLSTON	1	0%
213	WINFIELD	1	0%
214	WINONA	1	0%
215	WYATT	1	0%
Total		850	

Note: 1,293 fatal crashes occurred in Non-City or Unincorporated areas.



# **City Rank Order**

# 2012-2014

# SERIOUS INJURY CRASHES

Ranking	City	Count	Percent
1 K	ANSAS CITY	839	14.2%
2 S	T. LOUIS	580	9.8%
3 11	IDEPENDENCE	448	7.6%
4 S	T. JOSEPH	325	5.5%
5 S	PRINGFIELD	207	3.5%
6 JE	FFERSON CITY	137	2.3%
7 LI	EES SUMMIT	133	2.3%
8 C	OLUMBIA	117	2.0%
9 B	LUE SPRINGS	104	1.8%
10 S	T. CHARLES	87	1.5%
11 LI	BERTY	84	1.4%
12 JC	DPLIN	75	1.3%
13 B	RIDGETON	73	1.2%
14 0	ZARK	57	1.0%
15 S	T. PETERS	55	0.9%
16 T	OWN AND COUNTRY	51	0.9%
17 C	HESTERFIELD	43	0.7%
18 F	LORISSANT	40	0.7%
19 N	1ARYLAND HEIGHTS	40	0.7%
20 K	IRKWOOD	38	0.6%
21 H	ANNIBAL	37	0.6%
22 H	AZELWOOD	37	0.6%
23 LI	EBANON	37	0.6%
24 R	AYTOWN	36	0.6%
25 A	RNOLD	35	0.6%
26 C	APE GIRARDEAU	35	0.6%
27 S	UNSET HILLS	35	0.6%
28 F	ERGUSON	34	0.6%
29 G	LADSTONE	34	0.6%
30 F	ENTON	33	0.6%
31 B	RANSON	31	0.5%
32 K	IRKSVILLE	31	0.5%
33 S	KESTON	30	0.5%
34 P	OPLAR BLUFF	29	0.5%
35 W	/ENTZVILLE	29	0.5%

# 2012-2014 MISSOURI SERIOUS INJURY TRAFFIC CRASHES RANK ORDER CITY LIST

36 MURPHY	27	0.5%
37 WEBSTER GROVES	27	0.5%
38 JACKSON	26	0.4%
39 OVERLAND	26	0.4%
40 BALLWIN	25	0.4%
41 BELLEFONTAINE NEIGHBORS	25	0.4%
42 GRANDVIEW	25	0.4%
43 WILDWOOD	25	0.4%
44 JENNINGS	24	0.4%
45 RICHMOND HEIGHTS	24	0.4%
46 ROLLA	24	0.4%
47 UNIVERSITY CITY	24	0.4%
48 CREVE COEUR	23	0.4%
49 SEDALIA	23	0.4%
50 BERKELEY	22	0.4%
51 O'FALLON	22	0.4%
52 UNION	21	0.4%
53 MOBERLY	20	0.3%
54 EUREKA	19	0.3%
55 CARTHAGE	18	0.3%
56 LADUE	18	0.3%
57 ST. CLAIR	18	0.3%
58 TROY	18	0.3%
59 WELDON SPRING	18	0.3%
60 BELTON	17	0.3%
61 CLAYTON	17	0.3%
62 CLINTON	17	0.3%
63 FESTUS	17	0.3%
64 MANCHESTER	17	0.3%
65 KENNETT	15	0.3%
66 MONETT	15	0.3%
67 ST. ROBERT	15	0.3%
68 DES PERES	14	0.2%
69 EXCELSIOR SPRINGS	14	0.2%
70 FARMINGTON	14	0.2%
71 LAKE ST. LOUIS	14	0.2%
72 MEXICO	14	0.2%
73 OSAGE BEACH	14	0.2%
74 PLEASANT HILL	14	0.2%
75 SALEM	14	0.2%

76 BOLIVAR	13	0.2%
77 NEOSHO	13	0.2%
78 NIXA	13	0.2%
79 NORTH KANSAS CITY	13	0.2%
80 ST. ANN	13	0.2%
81 AURORA	12	0.2%
82 CLAYCOMO	12	0.2%
83 MAPLEWOOD	12	0.2%
84 WRIGHT CITY	12	0.2%
85 GRAIN VALLEY	11	0.2%
86 NEVADA	11	0.2%
87 VALLEY PARK	11	0.2%
88 WARRENTON	11	0.2%
89 BRENTWOOD	10	0.2%
90 DONIPHAN	10	0.2%
91 SMITHVILLE	10	0.2%
92 ELDON	9	0.2%
93 ELLISVILLE	9	0.2%
94 FULTON	9	0.2%
95 HIGH RIDGE	9	0.2%
96 HIGHLANDVILLE	9	0.2%
97 KEARNEY	9	0.2%
98 KINGDOM CITY	9	0.2%
99 OAK GROVE	9	0.2%
100 OLIVETTE	9	0.2%
101 SULLIVAN	9	0.2%
102 WARRENSBURG	9	0.2%
103 WEBB CITY	9	0.2%
104 AIRPORT DRIVE	8	0.1%
105 BARNHART	8	0.1%
106 BEL-RIDGE	8	0.1%
107 CAMERON	8	0.1%
108 CEDAR HILL	8	0.1%
109 CRYSTAL CITY	8	0.1%
110 GRAY SUMMIT	8	0.1%
111 HARRISONVILLE	8	0.1%
112 PERRYVILLE	8	0.1%
113 RIVERSIDE	8	0.1%
114 BRANSON WEST	7	0.1%
115 DESLOGE	7	0.1%

116 GLENDALE	7	0.1%
117 IMPERIAL	7	0.1%
118 LAKE LOTAWANA	7	0.1%
119 LONE JACK	7	0.1%
120 MARSHALL	7	0.1%
121 MARYVILLE	7	0.1%
122 PACIFIC	7	0.1%
123 PARK HILLS	7	0.1%
124 PARKVILLE	7	0.1%
125 PEVELY	7	0.1%
126 PLATTE CITY	7	0.1%
127 REPUBLIC	7	0.1%
128 SHREWSBURY	7	0.1%
129 ST. JOHN	7	0.1%
130 WAYNESVILLE	7	0.1%
131 BOONVILLE	6	0.1%
132 DELLWOOD	6	0.1%
133 HERCULANEUM	6	0.1%
134 LAKE OZARK	6	0.1%
135 MOUNTAIN VIEW	6	0.1%
136 OAKLAND	6	0.1%
137 POTOSI	6	0.1%
138 ROCK HILL	6	0.1%
139 SUGAR CREEK	6	0.1%
140 WARSAW	6	0.1%
141 WEST PLAINS	6	0.1%
142 AVA	5	0.1%
143 CAMDENTON	5	0.1%
144 CARUTHERSVILLE	5	0.1%
145 HAYTI	5	0.1%
146 HIGGINSVILLE	5	0.1%
147 LAMAR	5	0.1%
148 LEADWOOD	5	0.1%
149 NORWOOD COURT	5	0.1%
150 ROGERSVILLE	5	0.1%
151 SAVANNAH	5	0.1%
152 SENECA	5	0.1%
153 WASHINGTON	5	0.1%
154 ASHLAND	4	0.1%
155 CARL JUNCTION	4	0.1%

156 FRONTENAC	4	0.1%
157 HILLSBORO	4	0.1%
158 LAURIE	4	0.1%
159 LOWRY CITY	4	0.1%
160 MINER	4	0.1%
161 NEW MADRID	4	0.1%
162 NORMANDY	4	0.1%
163 PALMYRA	4	0.1%
164 PECULIAR	4	0.1%
165 PINE LAWN	4	0.1%
166 RAYMORE	4	0.1%
167 REEDS SPRING	4	0.1%
168 SEYMOUR	4	0.1%
169 WELLSTON	4	0.1%
170 BETHANY	3	0.1%
171 BLACK JACK	3	0.1%
172 BULL CREEK	3	0.1%
173 CABOOL	3	0.1%
174 CHILLICOTHE	3	0.1%
175 CLARK	3	0.1%
176 CONWAY	3	0.1%
177 COOL VALLEY	3	0.1%
178 COTTLEVILLE	3	0.1%
179 DEXTER	3	0.1%
180 DIAMOND	3	0.1%
181 EDINA	3	0.1%
182 ELLSINORE	3	0.1%
183 ELSBERRY	3	0.1%
184 EMINENCE	3	0.1%
185 FORISTELL	3	0.1%
186 FREEMAN	3	0.1%
187 IRONTON	3	0.1%
188 KIMBERLING CITY	3	0.1%
189 LEXINGTON	3	0.1%
190 LOCKWOOD	3	0.1%
191 LOUISIANA	3	0.1%
192 MARSHFIELD	3	0.1%
193 MOLINE ACRES	3	0.1%
194 MOSCOW MILLS	3	0.1%
195 MOUNTAIN GROVE	3	0.1%

196 NEW HAVEN	3	0.1%
197 NEW LONDON	3	0.1%
198 NORTHWOODS	3	0.1%
199 PAGEDALE	3	0.1%
200 PLEASANT VALLEY	3	0.1%
201 RICHMOND	3	0.1%
202 RIVER BEND	3	0.1%
203 SPARTA	3	0.1%
204 ST. JAMES	3	0.1%
205 STE. GENEVIEVE	3	0.1%
206 STRAFFORD	3	0.1%
207 TAOS	3	0.1%
208 TRENTON	3	0.1%
209 TWIN OAKS	3	0.1%
210 VILLA RIDGE	3	0.1%
211 WESTON	3	0.1%
212 WILLARD	3	0.1%
213 WOODSON TERRACE	3	0.1%
214 ANDERSON	2	0.0%
215 APPLETON CITY	2	0.0%
216 BATTLEFIELD	2	0.0%
217 BEL-NOR	2	0.0%
218 BONNE TERRE	2	0.0%
219 BOWLING GREEN	2	0.0%
220 BRECKENRIDGE HILLS	2	0.0%
221 BROOKFIELD	2	0.0%
222 BRUNSWICK	2	0.0%
223 CALIFORNIA	2	0.0%
224 CARROLLTON	2	0.0%
225 CENTRALIA	2	0.0%
226 CHAFFEE	2	0.0%
227 COUNTRY CLUB VILLAGE	2	0.0%
228 DE SOTO	2	0.0%
229 DIGGINS	2	0.0%
230 DUQUESNE	2	0.0%
231 EDMUNDSON	2	0.0%
232 EL DORADO SPRINGS	2	0.0%
233 FLORDELL HILLS	2	0.0%
234 FORSYTH	2	0.0%

236 HERMANN	2	0.0%
237 HOLCOMB	2	0.0%
238 HOLLISTER	2	0.0%
239 HOPKINS	2	0.0%
240 HOUSTON	2	0.0%
241 IBERIA	2	0.0%
242 JAMESPORT	2	0.0%
243 JONESBURG	2	0.0%
244 LEADINGTON	2	0.0%
245 LINN CREEK	2	0.0%
246 MACKS CREEK	2	0.0%
247 MACON	2	0.0%
248 MARBLE HILL	2	0.0%
249 MARIONVILLE	2	0.0%
250 MERRIAM WOODS	2	0.0%
251 MONROE CITY	2	0.0%
252 NEW CAMBRIA	2	0.0%
253 OAK GROVE VILLAGE	2	0.0%
254 ODESSA	2	0.0%
255 PINEVILLE	2	0.0%
256 RIVERVIEW	2	0.0%
257 SOUTHWEST CITY	2	0.0%
258 SPICKARD	2	0.0%
259 STEELE	2	0.0%
260 UNIONVILLE	2	0.0%
261 UNITY VILLAGE	2	0.0%
262 VERSAILLES	2	0.0%
263 WINONA	2	0.0%
264 ALTENBURG	1	0.0%
265 ANNISTON	1	0.0%
266 ASH GROVE	1	0.0%
267 AUXVASSE	1	0.0%
268 BAGNELL	1	0.0%
269 BARING	1	0.0%
270 BARNETT	1	0.0%
271 BATES CITY	1	0.0%
272 BELL CITY	1	0.0%
273 BELLE	1	0.0%
274 BERNIE	1	0.0%
275 BEVIER	1	0.0%
		-

276	BIG LAKE	1	0.0%
	BILLINGS	1	0.0%
	BIRCH TREE	1	0.0%
-	BOURBON	1	0.0%
	BRAGG CITY	1	0.0%
	BRAYMER	1	0.0%
	BRECKENRIDGE	1	0.0%
	BUFFALO	1	0.0%
	BURLINGTON JUNCTION	1	0.0%
	BYRNES MILL	1	0.0%
	CAINSVILLE	1	0.0%
	CARTERVILLE	- 1	0.0%
	CASSVILLE	1	0.0%
	CENTER	1	0.0%
	CENTERVILLE	1	0.0%
	CHULA	1	0.0%
-	CLARENCE	1	0.0%
	CLARKSVILLE	1	0.0%
	CLEVER	1	0.0%
_	COLE CAMP	1	0.0%
296	COLLINS	1	0.0%
297	COUNTRY CLUB HILLS	1	0.0%
298	CRESTWOOD	1	0.0%
299	CROCKER	1	0.0%
300	CROSS TIMBERS	1	0.0%
301	CUBA	1	0.0%
302	DIXON	1	0.0%
303	DOWNING	1	0.0%
304	ESSEX	1	0.0%
305	ETHEL	1	0.0%
306	EVERTON	1	0.0%
307	FAYETTE	1	0.0%
308	FIDELITY	1	0.0%
309	FOLEY	1	0.0%
310	FORDLAND	1	0.0%
311	FRANKFORD	1	0.0%
312	FREDERICKTOWN	1	0.0%
313	FREMONT HILLS	1	0.0%
314	GAINESVILLE	1	0.0%
315	GARDEN CITY	1	0.0%

316 GOODMAN	1	0.0%
317 GORDONVILLE	1	0.0%
318 GOWER	1	0.0%
319 GRANT CITY	1	0.0%
320 GREEN PARK	1	0.0%
321 GREENFIELD	1	0.0%
322 HALLSVILLE	1	0.0%
323 HAMILTON	1	0.0%
324 HANLEY HILLS	1	0.0%
325 HARRISBURG	1	0.0%
326 HAYTI HEIGHTS	1	0.0%
327 HENRIETTA	1	0.0%
328 HERMITAGE	1	0.0%
329 HIGBEE	1	0.0%
330 HOLTS SUMMIT	1	0.0%
331 HORINE	1	0.0%
332 HUMANSVILLE	1	0.0%
333 HUNTSVILLE	1	0.0%
334 JASPER	1	0.0%
335 JERICO SPRINGS	1	0.0%
336 JOSEPHVILLE	1	0.0%
337 KNOB NOSTER	1	0.0%
338 KOSHKONONG	1	0.0%
339 LA BELLE	1	0.0%
340 LACLEDE	1	0.0%
341 LAKE TAPAWINGO	1	0.0%
342 LAKELAND	1	0.0%
343 LAMAR HEIGHTS	1	0.0%
344 LAWSON	1	0.0%
345 LEASBURG	1	0.0%
346 LEAWOOD	1	0.0%
347 LEVASY	1	0.0%
348 LINN	1	0.0%
349 LURAY	1	0.0%
350 MALDEN	1	0.0%
351 MARCELINE	1	0.0%
352 MARLBOROUGH	1	0.0%
353 MARSTON	1	0.0%
354 MEMPHIS	1	0.0%
355 META	1	0.0%

356	ΜΙΑΜΙ	1	0.0%
357	MILAN	1	0.0%
358	MONTGOMERY CITY	1	0.0%
359	MOUND CITY	1	0.0%
360	NAPOLEON	1	0.0%
361	NEELYVILLE	1	0.0%
362	NEW FLORENCE	1	0.0%
363	NEW HAMPTON	1	0.0%
364	NEW MELLE	1	0.0%
365	NOEL	1	0.0%
366	NOVINGER	1	0.0%
367	ORAN	1	0.0%
368	OREGON	1	0.0%
369	OSCEOLA	1	0.0%
370	PARKWAY	1	0.0%
371	PASCOLA	1	0.0%
372	PASSAIC	1	0.0%
373	PHILLIPSBURG	1	0.0%
374	PICKERING	1	0.0%
375	PIERCE CITY	1	0.0%
376	PILOT KNOB	1	0.0%
377	PLATTE WOODS	1	0.0%
378	POLO	1	0.0%
379	PORTAGE DES SIOUX	1	0.0%
380	PORTAGEVILLE	1	0.0%
381	PRINCETON	1	0.0%
382	PURDY	1	0.0%
383	QULIN	1	0.0%
384	RANDOLPH	1	0.0%
385	REDINGS MILL	1	0.0%
386	RICHLAND	1	0.0%
387	ROCKAWAY BEACH	1	0.0%
388	ROCKVILLE	1	0.0%
389	ROSCOE	1	0.0%
390	SAGINAW	1	0.0%
391	SARCOXIE	1	0.0%
392	SCHELL CITY	1	0.0%
393	SCOTT CITY	1	0.0%
394	SELIGMAN	1	0.0%
395	SHERIDAN	1	0.0%

396 SHOAL CREEK DRIVE	1	0.0%
397 ST. CLOUD	1	0.0%
398 ST. ELIZABETH	1	0.0%
399 ST. PAUL	1	0.0%
400 STANBERRY	1	0.0%
401 STOTTS CITY	1	0.0%
402 STOUTLAND	1	0.0%
403 SUMMERSVILLE	1	0.0%
404 SUNRISE BEACH	1	0.0%
405 TARKIO	1	0.0%
406 THEODOSIA	1	0.0%
407 TIPTON	1	0.0%
408 TRACY	1	0.0%
409 TRUESDALE	1	0.0%
410 UTICA	1	0.0%
411 VERONA	1	0.0%
412 VILLAGE OF FOUR SEASONS	1	0.0%
413 WAYLAND	1	0.0%
414 WHITE OAK	1	0.0%
415 WHITEMAN AFB	1	0.0%
416 WILLOW SPRINGS	1	0.0%
417 WINSTON	1	0.0%
418 WOOD HEIGHTS	1	0.0%
Total	5,891	
	-	-

Note: 6,109 serious injury crashes occurred in Non-City or Unincorporated areas.



# Unincorporated County Rank Order 2012-2014 FATAL CRASHES

# 2012-2014 MISSOURI FATAL TRAFFIC CRASHES RANK ORDER UNINCORPORATED COUNTY LIST

Ranking	County	Count	Percent
1	JEFFERSON	68	5.3%
2	FRANKLIN	54	4.2%
3	ST. LOUIS	44	3.4%
4	GREENE	33	2.6%
5	JOHNSON	26	2.0%
6	WASHINGTON	26	2.0%
7	CASS	25	1.9%
8	NEWTON	25	1.9%
9	ST. CHARLES	25	1.9%
10	LINCOLN	24	1.9%
11	MILLER	24	1.9%
12	ST. FRANCOIS	24	1.9%
13	BARRY	23	1.8%
14	BOONE	23	1.8%
15	PHELPS	21	1.6%
16	CAMDEN	19	1.5%
17	JASPER	19	1.5%
18	CLAY	18	1.4%
19	DUNKLIN	18	1.4%
20	HOWELL	18	1.4%
21	LAWRENCE	18	1.4%
22	PETTIS	18	1.4%
23	STONE	18	1.4%
24	LACLEDE	16	1.2%
25	TANEY	16	1.2%
26	PULASKI	15	1.2%
27	BUTLER	14	1.1%
28	MCDONALD	14	1.1%
29	BENTON	13	1.0%
30	CALLAWAY	13	1.0%
31	CRAWFORD	13	1.0%
32	PEMISCOT	13	1.0%
33	SALINE	13	1.0%
34	STE. GENEVIEVE	13	1.0%
35	BOLLINGER	12	0.9%
36	CHRISTIAN	12	0.9%
37	NEW MADRID	12	0.9%
38	POLK	12	0.9%
39	RANDOLPH	12	0.9%
40	WRIGHT	12	0.9%

74 of 467

41	ANDREW	11	0.9%
42	LAFAYETTE	11	0.9%
43	PLATTE	11	0.9%
44	TEXAS	11	0.9%
45	WAYNE	11	0.9%
46	BUCHANAN	10	0.8%
47	CAPE GIRARDEAU	10	0.8%
48	COLE	10	0.8%
49	COOPER	10	0.8%
50	JACKSON	10	0.8%
51	RIPLEY	10	0.8%
52	STODDARD	10	0.8%
53	MARIES	9	0.7%
54	MISSISSIPPI	9	0.7%
55	MORGAN	9	0.7%
56	OREGON	9	0.7%
	PERRY	9	0.7%
58	PIKE	9	0.7%
59	RALLS	9	0.7%
60	RAY	9	0.7%
61	WEBSTER	9	0.7%
62	DENT	8	0.6%
	GASCONADE	8	0.6%
64	IRON	8	0.6%
	MONITEAU	8	0.6%
66	OZARK	8	0.6%
-	REYNOLDS	8	0.6%
	SHANNON	8	0.6%
	VERNON	8	0.6%
	WARREN	8	0.6%
	CEDAR	7	0.5%
	DOUGLAS	7	0.5%
	HARRISON	7	0.5%
	HENRY	7	0.5%
	MARION	7	0.5%
	MONTGOMERY	7	0.5%
	OSAGE	7	0.5%
	ST. CLAIR	7	0.5%
	AUDRAIN	6	0.5%
	BARTON	6	0.5%
	DADE	6	0.5%
	SCOTT	6	0.5%
	CARTER	5	0.4%
84	CHARITON	5	0.4%

75 of 467

85	CLARK	5	0.4%
	DAVIESS	5	0.4%
87	HOLT	5	0.4%
88	MADISON	5	0.4%
89	NODAWAY	5	0.4%
90	CALDWELL	4	0.3%
91	CLINTON	4	0.3%
92	DEKALB	4	0.3%
	HOWARD	4	0.3%
94	KNOX	4	0.3%
95	MACON	4	0.3%
96	SCHUYLER	4	0.3%
97	ADAIR	3	0.2%
98	BATES	3	0.2%
	CARROLL	3	0.2%
100	DALLAS	3	0.2%
	LEWIS	3	0.2%
	LIVINGSTON	3	0.2%
	MONROE	3	0.2%
	PUTNAM	3	0.2%
	SULLIVAN	3	0.2%
	HICKORY	2	0.2%
107	LINN	2	0.2%
	WORTH	2	0.2%
	GENTRY	1	0.1%
	GRUNDY	1	0.1%
	MERCER	1	0.1%
112	SCOTLAND	1	0.1%
Total		1,294	



# Unincorporated County Rank Order 2012-2014 SERIOUS INJURY CRASHES

# 2012-2014 MISSOURI SERIOUS INJURY TRAFFIC CRASHES RANK ORDER UNINCORPORATED COUNTY LIST

Ranking	County	Count	Percent
1	ST. LOUIS	438	7.1%
2	JEFFERSON	354	5.8%
3	GREENE	217	3.5%
4	FRANKLIN	197	3.2%
5	LACLEDE	159	2.6%
6	ST. CHARLES	142	2.3%
7	CHRISTIAN	138	2.3%
8	NEWTON	126	2.1%
9	LINCOLN	122	2.0%
10	TANEY	111	1.8%
11	TEXAS	102	1.7%
12	BARRY	100	1.6%
13	WEBSTER	95	1.6%
14	LAWRENCE	94	1.5%
15	BOONE	93	1.5%
16	PULASKI	93	1.5%
17	HOWELL	90	1.5%
18	STONE	85	1.4%
19	CALLAWAY	79	1.3%
20	LAFAYETTE	77	1.3%
21	BUTLER	75	1.2%
22	CAMDEN	73	1.2%
23	MCDONALD	73	1.2%
24	CAPE GIRARDEAU	72	1.2%
25	JOHNSON	68	1.1%
	MILLER	68	1.1%
27	BENTON	66	1.1%
28	JASPER	65	1.1%
	PETTIS	63	1.0%
	PHELPS	60	1.0%
	MORGAN	58	0.9%
_	ST. FRANCOIS	58	0.9%
_	WASHINGTON	58	0.9%
34	BOLLINGER	57	0.9%
	CRAWFORD	57	0.9%
	DENT	57	0.9%
	SCOTT	56	0.9%
	COLE	52	0.8%
	PIKE	51	0.8%
	JACKSON	49	0.8%

41	COOPER	47	0.8%
42	OZARK	47	0.8%
43	PEMISCOT	47	0.8%
44	CASS	45	0.7%
45	RANDOLPH	45	0.7%
46	BATES	44	0.7%
47	MARION	44	0.7%
48	NEW MADRID	44	0.7%
49	RALLS	43	0.7%
50	NODAWAY	42	0.7%
51	WRIGHT	40	0.7%
52	AUDRAIN	39	0.6%
53	GASCONADE	38	0.6%
54	DOUGLAS	36	0.6%
	MACON	36	0.6%
	PLATTE	36	0.6%
57	SALINE	36	0.6%
58	STE. GENEVIEVE	36	0.6%
59	STODDARD	36	0.6%
60	LEWIS	35	0.6%
61	CLAY	34	0.6%
62	CLINTON	34	0.6%
63	HOWARD	34	0.6%
64	VERNON	34	0.6%
65	ST. CLAIR	33	0.5%
66	WARREN	33	0.5%
67	MARIES	32	0.5%
68	PERRY	32	0.5%
69	SHANNON	32	0.5%
70	ANDREW	31	0.5%
71	CEDAR	31	0.5%
72	HENRY	31	0.5%
73	DADE	30	0.5%
74	WAYNE	30	0.5%
-	MONITEAU	29	0.5%
76	DUNKLIN	26	0.4%
	REYNOLDS	26	0.4%
78	MONTGOMERY	25	0.4%
	OREGON	25	0.4%
	OSAGE	25	0.4%
	BUCHANAN	24	0.4%
82	LIVINGSTON	24	0.4%
	RAY	24	0.4%
84	ATCHISON	23	0.4%

85	POLK	23	0.4%
86	ADAIR	22	0.4%
87	HOLT	22	0.4%
88	SULLIVAN	22	0.4%
89	DAVIESS	21	0.3%
90	DEKALB	21	0.3%
91	KNOX	21	0.3%
92	CLARK	20	0.3%
93	RIPLEY	20	0.3%
94	MONROE	19	0.3%
95	MISSISSIPPI	18	0.3%
96	HARRISON	17	0.3%
97	PUTNAM	17	0.3%
98	CALDWELL	15	0.2%
99	CARTER	15	0.2%
100	CHARITON	15	0.2%
101	DALLAS	15	0.2%
102	IRON	15	0.2%
103	CARROLL	14	0.2%
104	GRUNDY	14	0.2%
105	GENTRY	13	0.2%
106	BARTON	12	0.2%
107	MERCER	12	0.2%
108	LINN	11	0.2%
	SCHUYLER	11	0.2%
	SHELBY	11	0.2%
111	MADISON	9	0.1%
	SCOTLAND	8	0.1%
113	WORTH	5	0.1%
	ST. LOUIS CITY	2	0.0%
115	HICKORY	1	0.0%
Total		6,127	

# PUBLIC INFORMATION AND EDUCATION

# Background

From 2005-2014, due to the combined efforts of highway safety advocates in the Missouri Coalition for Roadway Safety, 3,270 lives have been saved on Missouri roadways, a decrease of 39.1 percent. The coalition credits a combination of law enforcement, educational efforts, emergency medical services, engineering enhancements and public policy as the successful formula for saving lives. However, the historic four "E's" of safety must be expanded to include Evaluation and Everyone. Measuring success by Evaluation of performance measures holds each of us accountable for its success. In turn, addressing the need to change traffic safety culture challenges each person to make personal responsibility for their behavior as a roadway user and includes Everyone.

The Missouri Coalition for Roadway Safety set a new fatality reduction goal of 700 or fewer by 2016 at its Blueprint to SAVE MORE LIVES 2012 fall conference. This goal reflects the overall vision to continuously move Missouri toward zero deaths.

While our roads are safer than they have been in many years, there are still too many senseless crashes and deaths happening every year. We are committed to further reducing the number of traffic crashes in Missouri, so we must work even harder to reach those remaining people who haven't gotten the message that:

- Seat belts save lives;
- Drinking and driving are a deadly mix;
- Distracted drivers are dangerous drivers; and

• Parents and caregivers must secure children in size-and age-appropriate car seats that are properly installed





This is accomplished by developing highly visible, catchy campaigns that are coupled with strong enforcement efforts. We rely on our traffic safety partners to be active participants in these campaigns. Some of the most effective campaigns have been the national law enforcement mobilization efforts such as "Click It or Ticket" and "Drive Sober or Get Pulled Over." People heard about the mobilizations in the media, and drivers were aware that the risk of apprehension was high. These campaigns have proven their ability to not only heighten awareness, but also to ultimately make positive behavioral changes.

In order to continue to raise awareness and change driving attitudes and behaviors, the safe driving messages need to be perpetuated through traditional media vehicles (TV, radio, print, outdoor, digital) as well as through social media throughout the year. Social media has become a key part of the highway safety campaigns, increasing awareness and conversation about safe driving, complementing PSA distributions and helping to spread campaign messages virally. Social

> media efforts will continue through mainstream platforms such as Facebook and Twitter, Instagram and Vine. Dynamic Message Boards (DMS) statewide help promote campaign awareness by alerting the traveling public to enforcement efforts.

> The Public Information Subcom-

mittee of the Missouri Coalition for Roadway Safety (MCRS) has been instrumental in increasing public education and information on traffic safety issues. The subcommittee develops an annual statewide media plan; has identified ARRIVE ALIVE as the overarching message for the coalition's public information activities; and manages the saveMOlives.com website to grab people's attention and convey safety information in the best way possible. The site features eye-catching graphics, intriguing videos, news and information, driving tips and advice on how to Arrive Alive at your destination.

The Traffic and Highway Safety Division has added a tool to combat fatalities and serious injuries on our roadways. This tool is a driver survey that reflects drivers' views on a variety of highway safety issues including seat belt usage, speeding, cell phone use, and impaired driving. Heartland Market Research conducted this research project that reached 2,514 adult Missouri drivers in April of 2014. People were surveyed from all of the 114 counties as well as the independent city of St. Louis. Residents from 671 different zip codes are represented. The standard phone survey practice of alternatively asking for either the oldest or youngest adult was not employed. Instead, the calling center was given specific goals for each age group and gender within various geographic areas to ensure the most representative sample possible.

The purpose of this survey was to capture current attitudes and awareness of highway safety issues. These findings will be used to design and implement public information and law enforcement campaigns that effectively deter drivers from engaging in unsafe driving behaviors. In addition, better understanding driver attitudes on highway safety issues will aide in public policy and legislative decisions. The research was designed so that in addition to providing a statewide result, statistically useful information was also available at the district level. Special emphasis was placed on ensuring that the sample reflected Missouri's geographic, age, and gender diversity.

The 2014 results of this driver survey showed that drivers perceive their driving abilities and habits to be better than citation numbers and what accident rates reflect. For example, 84.6 percent of the sample in the driver survey claim to always use their seat belt but the most recent safety belt survey (2014) showed that only 79 percent of drivers observed were actually

belted. In 2014 those least likely to wear seat belts were males, 50 years of age and older, whose primary vehicle was a pickup truck. In 2013 those least likely to wear seat belts were males, between the ages of 18 and 29, whose primary vehicle was a pickup truck or other type of truck. Also, drivers' perception of law enforcement efforts was revealed. Those who were the least likely to wear seat belts were the most likely to be aware of seat belt enforcement publicity, but were the least likely to receive a ticket if they did not wear their seat belt. Those who lived in very rural areas were also less likely to always buckle up than those living in other communities. Fiftyseven percent of the drivers surveyed prefer to keep Missouri's seat belt law a secondary law, slightly higher, but similar to the findings from recent years. Fifty-one percent preferred to leave the penalty for violating the law unchanged (\$10). Out of the minority who favored increasing the fine, 35 percent thought the fine should range from \$25 to \$49, and 23 percent thought the fine should range from \$50 to \$74. Thirty-six percent thought people who did not wear their seat belt would only rarely get a ticket, while 47 percent thought people would be caught at least half of the time. The vast majority of the respondents, 81 percent, were not aware of any publicity concerning seat belt enforcement.

Over 87 percent of Missouri drivers stated they rarely or never talk on a cell phone while driving, and over 98 percent stated they rarely or never text on a cell phone while driving. Ninety-three percent of Missouri drivers favored some type of restriction on how people could use cell phones while driving, 32 percent favored banning all cellphone use by drivers and 61 percent wanted to ensure drivers could still use cell phones for talking while seeing the need for some restrictions. In 2014 men age 65 and older were the least likely to talk on a cell phone while driving, and females between age 30-39 were the most likely group to talk on a cell phone while driving, with 22 percent of this segment stating they do so 50 percent of the time or more. In 2013 women 65 and older were the least likely to talk on a cell phone while driving.

The largest perceived risk of being ticketed or arrested was associated with driving while impaired; 70 percent of those surveys expected people who drove after drinking would be arrested at least half of the time. Ninety percent of Missouri drivers stated that they had not driven a vehicle within two hours of consuming an alcoholic beverage any time in the last 60 days. In 2014 those most likely to drive under the influence of alcohol were males 65 years of age and older. Men were much more likely to drive after drinking than women. Drivers of motorcycles were more likely to drive under the influence than drivers of vehicles, followed by drivers of pickup trucks. In 2013 those most likely to drive under the influence of alcohol were males 50 to 64 years of age and older. Approximately half of Missouri drivers were aware of recent publicity regarding enforcement.

The full executive summary of this report is attached in Appendix A of the Highway Safety Plan.

**GOAL:** 

Promote Missouri's traffic safety issues to improve understanding and increase compliance with state traffic laws, thereby reducing fatalities and serious injuries

## **Performance Measure:**

- Traffic crash statistics relevant to target audiences
- Campaign messages:

- \* Target audiences reached
- \* News clippings
- \* Venues utilized
- \* Total spots aired
- \* Total impressions/reach
- Increase in safety devices used:
  - \* Statewide safety belt use rate
  - \* Teen safety belt use rate
  - \* Commercial vehicle safety belt use rate \*\*
  - \* Child safety seat and/or booster seat use rate \*\*
  - \* Motorcycle helmet usage rate \*\*
- Pieces of traffic safety materials distributed

### **Benchmarks**:

- 2012 fatalities 826 (757 in 2013) (869 in 2014)
- Increase in safety devices used:
  - \* Statewide safety belt use rate 80% in 2013 (79% in 2014) (80% in 2015)
  - \* Teen safety belt use rate 67% in 2013 (67% in 2014) (69% in 2015)
  - \* Commercial vehicle safety belt use rate\*\* 80.6% in 2010 (81% in 2014)
  - \* Child safety seat and/or booster seat use rate\*\* 91% in 2009 (91% in 2014)
  - \* Motorcycle helmet usage rate\*\* 99.2% in 2005
- Pieces of traffic safety materials distributed through on-line ordering system

209,000 in 2013 (239,860 in 2014) (207,714 in 2015)

\*\* Surveys not conducted annually. () Information in parenthesis is actual data for the respective year listed.



# Campaign Media Source and Impressions (2013-2015)

#### **STRATEGIES**

1. Serve as the point of contact for the media and the general public to field questions, conduct inter-

views, and provide information Conduct an attitude and 2. awareness survey. The survey will contain questions on occupant protection, substance-impaired driving, speeding, and distracted driving (cell phone/texting)

3. Organize and/or participate in press events and work with media outlets across the state to promote highway safety initiatives

4. Encourage the media to participate in campaigns by publicizing our messages

5. Publicize the services and resources of the Highway Safety Office to the general public through our web sites at www.saveMOlives.com, in

workshops, at conferences/exhibits, and through social media channels.

6. Develop, update and disseminate public information/educational materials and websites

7. Develop and promote materials/campaigns to reach specific audiences (e.g., high risk drivers, vulnerable roadway users, substance-impaired drivers, mature drivers)

8. Actively participate in the Missouri Coalition for Roadway Safety (MCRS) Public Information Subcommittee in order to increase coordination, communication and cooperation among safety advocates statewide

9. Promote and incorporate the ARRIVE ALIVE theme and logo developed by the MCRS

Work with the MCRS regional coalitions to ap-10. propriately target their messages and develop programs to meet their needs

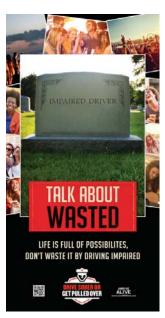
11. Develop strategies to work with partners both traditional and nontraditional—in order to reach wider audiences and maximize resources

12. Solicit public information activity reports from law enforcement partners and district coalitions

13. Work with the Motor Carrier Safety Assistance Program, Missouri Motorcycle Safety Education Program, and others to promote joint traffic safety awareness campaigns when possible

Give presentations and provide training to com-14. munity groups, schools, etc. as available

15. Serve on federal, state, and regional com-



mittees/boards in order to broaden opportunities to promote traffic safety issues

> 16. Promote law enforcement mobilization efforts: Click It or Ticket safety belt campaign; Drive Sober or Get Pulled Over alcohol campaign; quarterly occupant protection and substance-impaired driving mobilizations; youth seat belt enforcement campaign

Purchase paid advertising to support 17. traffic safety campaigns (e.g., occupant protection and substance-impaired driving)

18. Support and promote MoDOT's construction work zone public awareness campaign

19. Promote Saved by the Belt and It Only Takes One programs

Promote the Seat Belt Convincer, 20. Rollover Simulator, and driving simulator programs to reach as many people as pos-

sible.

21. Participate in the Missouri State Fair to educate the public on traffic safety issues and any modifications to traffic safety laws

22. Promote the cellular phone ICE program (In Case of Emergency) which is designed to assist first responders in rapidly identifying a crash victim's emergency contacts

YOU

23. **Promote Commercial Motor** Vehicle Awareness through public awareness campaigns geared primarily toward passenger vehicle drivers, then CMV drivers.

an

24. Develop and

promote materials and media to reach the limited English speaking and deaf/hard of hearing communities.



# **AGGRESSIVE DRIVERS**

# Background

The causes of aggressive driving are complex. However, three factors in particular are linked to aggressive driving: 1) lack of responsible driving behavior; 2) reduced levels of traffic enforcement; and 3) increased congestion and travel in our urban areas. One researcher has suggested that, "A driving behavior is aggressive if it is deliberate, likely to increase the risk of collision and is motivated by impatience, annoyance, hostility and/or an attempt to save time."

Aggressive driving is a serious problem on Missouri's roadways and has contributed substantially to traffic crashes, especially crashes resulting in death. Aggressive drivers are defined within Missouri's Blueprint to SAVE MORE LIVES as, "drivers of motorized vehicles who committed one or more of the following violations which contributed to the cause of a traffic crash: speeding; driving too fast for conditions; and/or following too close."

Aggressive drivers not only put their own lives at risk, but the lives of others as well. Of the 930 people killed, 67.4% were the aggressive driver and the other 32.6% were some other party in the incident. Of the 5,266 seriously injured, slightly more than one-half (53.9%) were the aggressive drivers and nearly one-half (46.1%) being some other person involved.

Speeding (too fast for conditions or exceeding the posted limit) is a large part of the aggressive driving problem. In 2002, NHTSA conducted a national telephone survey of over 4,000 drivers which verified that speeding is a pervasive behavior with most drivers—51% indicated they drive 10 mph over the posted speed on the interstates and 34% responded that they drive 10 mph faster than most other vehicles. According to an April 2009 report by the AAA Foundation for Traffic Safety, aggressive driving actions "were reported in 56 percent of fatal crashes from 2003 through 2007, with excessive speed being the number one factor."

# 2012-2014 Missouri Aggressive Driver Involved Fatalities & Serious Injuries

#### Type Of Circumstance (by Crash Severity<sup>1</sup>)

Fatalities - 996	Serious Injuries - 5,692
56.1%	60.9%
39.7%	21.1%
4.2%	18.0%
	<b>996</b> 56.1% 39.7%

<sup>1</sup> Percentage of 2012-2014 aggressive driving related fatalities and serious injuries by type of aggressive driving behavior involved. For instance, in aggressive driving related fatalities, 39.1% involved a motorized vehicle-driver exceeding the speed limit. NOTE: Multiple aggressive driving factors can be related to a single fatality or serious injury.

In 2012-2014, there were 414,173 traffic crashes in Missouri – 15.1% involved speeding. Correlating with the national data, Missouri's problem is also more significant when examining fatal crashes—of the 2,143 fatal crashes, 37.5% involved drivers who were speeding.



### **GOAL #1:**

To decrease aggressive driving-related fatalities to 270 by 2016:

2013	2014	2015
314	299	288

#### **Performance Measure:**

Number of aggressive driving-related fatalities

### **Benchmark:**

 2012 aggressive driving-related fatalities - 328 (308 in 2013) (287 in 2014)

### **GOAL #2:**

To decrease speed-related fatalities to 258 by 2016:

2013	2014	2015
299	285	272

#### **Performance Measure:**

Number of speed-related fatalities

#### **Benchmark**:

2012 speed-related fatalities - 313
 (302 in 2013) (276 in 2014)

## **GOAL #3:**

To increase speed-related citations and warnings made during grant-funded enforcement activities and mobilizations by .25 percent annually based on a three-year rolling average of grant years 2011, 2012, 2013 - 120,588



2012-2014	2013-2015	2014-2016
121,300	121,603	121,907

#### Performance Measure:

• Number of speeding citations and warnings issued during grant-funded enforcement activities and mobilizations

## Benchmark:

• 2011-2013 speeding citations and warnings issued during grant-funded enforcement activities and mobilizations - 120,588 (118,907 - 2012-2014 three-year rolling average) (123,069 - 2013-2015 three-year rolling average)

() Information in parenthesis is actual data for the respective year listed.

### **STRATEGIES**

1. Continue funding speed/hazardous moving violation enforcement overtime grants with local law enforcement and the Highway Patrol

2. Encourage law enforcement agencies to target aggressive drivers when working statewide DWI and occupant protection mobilization campaigns

3. Continue implementing targeted corridor projects (Travel Safe Zones) and Selective Traffic Enforcement Programs (STEPs) and High Enforcement Action Teams (HEAT) conducted by law enforcement agencies

4. Continue to strategize with law enforcement and training academy partners to develop enforcement/awareness countermeasures and share their concepts and programs

5. Fund enforcement efforts in construction/work zones in the MoDOT districts and enhance the enforcement with public awareness campaigns

6. Continue the use of speed monitoring devices (radars) and changeable message signs

7. Expand efforts to educate roadway users on the dangers of aggressive driving and the rules of the road

8. Encourage the local regional coalitions of the Missouri Coalition for Roadway Safety to fund and promote enforcement.

9. Educate roadway users on the dangers of aggressive driving and rules of the road.

10. Use pre- and post- enforcement operation news releases to educate the public about enforcement efforts.



# **AGGRESSIVE DRIVERS**

# Who

# 2012-2014 Fatalities by Age:

		Percent of
		Total
Age	Fatalities	Fatalities
0-9	19	2.04%
10-19	131	14.09%
20-29	271	29.14%
30-39	162	17.42%
40-49	121	13.01%
50-59	115	12.37%
60-69	54	5.81%
>=70	57	6.13%
Total	930	100.00%

Includes everyone killed involving at least one aggressive driver.

# Where

# 2012-2014 Fatalities by Roadway Designation

Deergraater		
		Percent of
		Total
Roadway Desg.	Fatalities	Fatalities
Interstates	78	8.39%
US Numbered Routes	92	9.89%
MO Lettered Routes	209	22.47%
MO Numbered Routes	190	20.43%
Business	2	0.22%
City Street	175	18.82%
Ramp	13	1.40%
County Road	156	16.77%
Outer Road	11	1.18%
Private	1	0.11%
Loop	3	0.32%
Total	930	100.00%

# What

# 2012-2014 Aggressive Driver Vehicles Involved in Fatal Crashes

	Aggressive	
	Driver	Percent of
	Vehicle	Total
Vehicle Type	Body Type	Fatalities
Passenger Car	378	44.89%
SUV	119	14.13%
Van	21	2.49%
Motorcycle	122	14.49%
ATV	22	2.61%
Motor Home	1	0.12%
Farm Imp.	0	0.00%
Pick Up	157	18.65%
Large Trucks	21	2.49%
Passenger Van	1	0.12%
Total	842	100.00%

# When

# 2012-2014 Fatalities by Time of Day:

		Percent of
		Total
Time	Fatalities	Fatalities
Midnight - 5:59 am	224	24.09%
6:00 am - 11:59 am	173	18.60%
Noon - 5:59 pm	244	26.24%
6:00 pm - 11:59 pm	289	31.08%
Total	930	100.00%

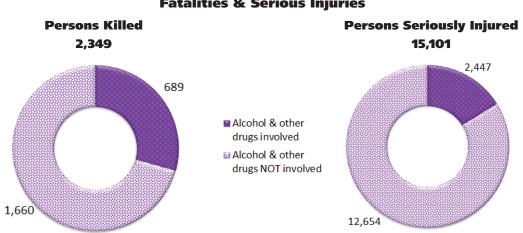


# **ALCOHOL AND OTHER DRUGS**

## Background

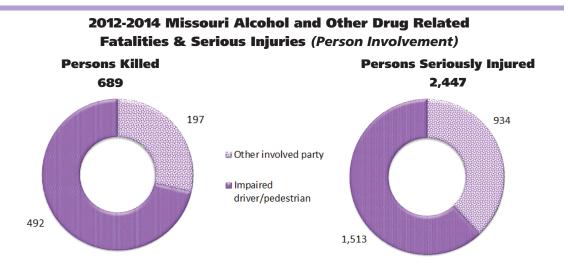
It is impossible to predict how alcohol will affect a person on any given occasion. Every drink influences both the body and mind and has a profound impact on the physical and mental skills needed to drive a motor vehicle. One drink could have serious consequences.

Alcohol and other drugs contribute substantially to traffic crashes on Missouri's roads, particularly those resulting in death or serious injury. In the 2012-2014 period, 414,173 traffic crashes occurred in the state. Of those, 0.5% resulted in a fatality and 2.9% involved someone being seriously injured. During the same time period, there were 19,161 traffic crashes where one or more drivers and/or pedestrians were under the influence of intoxicants and in the opinion of the investigating officer their intoxicated condition was a contributing factor to the crash. In these crashes where drivers or pedestrians were impaired by alcohol or other drugs, 689 people were killed and another 2,447 were seriously injured. It also is important to note that substance-impaired driving is under-reported as a contributing factor in traffic crashes. This under-reporting is due to drivers experiencing injuries sustained from crashes without being tested for blood alcohol content. Also, some forms of drug impairment may not be apparent to officers on the scene. As a result, it is an even greater problem than these statistics would indicate. In addition, 86.1% of substance-impaired drivers killed also failed to wear a safety belt further compounding the problem of substance-impaired driving.



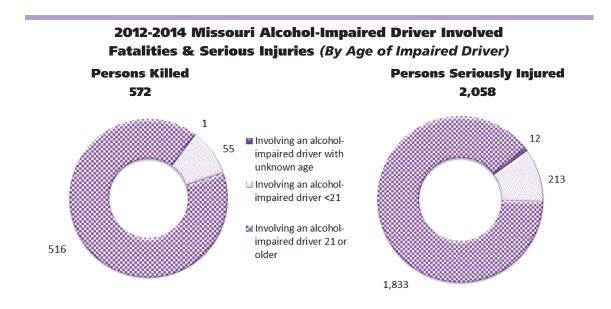
# 2012-2014 Missouri Alcohol and Other Drug Related Fatalities & Serious Injuries

A common misconception is that substance-impaired drivers are primarily injuring and killing themselves. While that is often true, a substantial number of people killed and seriously injured in these crashes were not intoxicated by alcohol or other drugs. Their actions in these incidents probably did not contribute to the cause of the collision. Of the 689 people killed in alcohol and other drug-related traffic crashes, 71.4% were the substance-impaired driver/pedestrian and 28.6% were some other involved party. Of the 2,447 seriously injured, 61.8% were the substance-impaired drivers/pedestrians while 38.2% were other persons in the incidents.



## Young Alcohol Impaired Drivers (Under Age 21)

Youth make up a significant proportion of alcoholimpaired drivers causing traffic crashes on Missouri roadways. Of the 16,440 alcohol-impaired drivers involved in traffic crashes during 2012-2014, 10.1% were under the age of 21 (in known cases). This is especially significant when you consider it is illegal for someone under 21 to possess or consume alcohol in Missouri. In 2012-2014, a total of 531 alcohol-impaired drivers were involved in crashes where one or more persons were killed. In known cases, 8.9% of these drivers were under the age of 21. A total of 55 persons were killed in traffic crashes involving these young alcoholimpaired drivers. Of those persons killed, 56.4% were the underage alcohol-impaired driver and 43.6% were some other party in the crash.



NOTE: The data for persons killed and seriously injured involving an substance-impaired driver by age does not include data for those crashes where the pedestrian was the impaired party. Also, one substance-impaired related crash has the potential of consisting of substance-impaired driver younger than 21 and one 21 or older. In these cases, the persons killed and seriously injured will be counted in each chart shown above.

# **GOAL** #1:

To decrease fatalities involving drivers with .08 BAC or greater to 230 by 2016:

2013	2014	2015
267	255	243

### **Performance Measure:**

• Number of fatalities involving drivers with .08 BAC or greater

#### **Benchmark:**

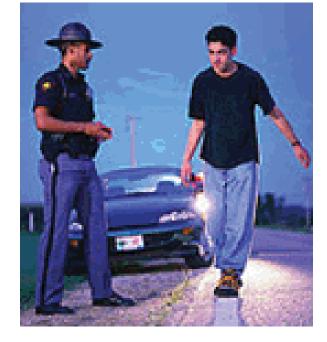
• 2012 fatalities involving drivers with .08 BAC or greater - 280 (248 in 2013) (204 for 2014)

## **GOAL #2:**

To increase substance-impaired driving arrests made during grant funded enforcement activities and mobilizations by .25 percent annually based on a three-year rolling average of grant years 2011, 2012, 2013 = 7,975

2014	2015	2016
7,995	8,015	8,035





#### **Performance Measure:**

• Number of substance-impaired driving arrests made during grant-funded enforcement activities and mobilizations

## **Benchmark**:

• 2011-2013 substance-impaired driving arrests made during grant-funded enforcement activities and mobilizations - 7,975 (DWI)

(7,054 - 2012-2014 three-year rolling average) (6,183 - 2013-2015 three-year rolling average)

# **GOAL #3:**

To decrease fatalities involving alcohol-impaired drivers under the age of 21 years to 14 by 2016:

2013	2014	2015
16	15	15

### **Performance Measure:**

• Number of fatalities involving alcohol-impaired drivers under the age of 21 years

### **Benchmark:**

• 2012 fatalities involving alcohol-impaired drivers under the age of 21 years - 17

(28 for 2013) (10 for 2014)

() Information in parenthesis is actual data for the respective year listed.

#### **STRATEGIES**

#### **Public Information and Education**

1. Educate the public on the dangers of driving after drinking or using other drugs through public awareness campaigns such as Drive Sober or Get Pulled Over, through quarterly impaired driving mobilizations, and through the distribution of educational materials at traffic safety workshops, health and safety fairs, displays, on the website, and through public service announcements

2. Incorporate impaired driving educational programs into school systems and businesses

3. Continue statewide designated driver programs which stress alternatives to drinking and driving (CHEERS designated driver program)

4. Educate large numbers of alcohol servers in intervention techniques utilizing the Server Training program conducted by the Division of Alcohol and Tobacco Control and through the SMART Web-based server training program; continue to expand and promote the programs

5. Provide support for the MCRS Impaired Driving Subcommittee to address impaired driving crashes and underage impaired driving

6. Incorporate toxicology into Impaired Driving Subcommittee efforts

7. Checkpoint news releases mention that specially trained drug detection officers will be working the overtime enforcement effort and/or sobriety checkpoint

8. Encourage law enforcement and prosecutors to report the type(s) of drug involvement suspected in crashes to the media

9. Include drug arrest details in after-action enforcement reports to the media

10. Implement, as appropriate, recommendations identified in the 2008 Statewide Impaired Driving Assessment

11. Work with the MCRS Impaired Driving Subcommittee to implement strategies outlined in the Impaired Driving Strategic Plan

12. Continue support for youth and young adult prevention and education programs including Team Spirit Leadership Conference; Team Spirit Reunion; Think First Programs (School Assembly Programs, Elementary School Curriculum, Young Traffic Offenders Program); university level Partners in Prevention; local community educational programs; and Missouri Safe and Sober

13. Revise and reprint impaired driving educational materials as needed; expand partnerships to encourage use of these materials in their publications

14. Develop campaigns/materials to reach targeted high-risk groups

15. Participate in interagency committees to share ideas, avoid duplication of efforts, and maximize resources (MCRS and the MCRS Impaired Driving Subcommittee, Missouri Youth/Adult Alliance, Partners in Prevention)

16. Support local efforts to reduce drinking and driving – especially underage drinking – by providing technical assistance to develop programs such as DWI docudramas or Every 15 Minutes, loaning them collateral materials to enhance their efforts (fatal vision goggles, videos, community program guides), and providing speakers

17. Provide Drug Impairment Training for Educational Professionals across the state

18. Organize and/or participate in press events and work with media outlets across the state to promote highway safety initiatives

#### Enforcement

1. Provide funding for alcohol saturation enforcement teams, DWI Task Forces, sobriety checkpoints, quarterly impaired driving mobilizations, overtime salaries for Breath Alcohol Testing (BAT) van operations, and maintenance for BAT vans

2. Provide equipment to enhance enforcement efforts and appropriate training to ensure effective use of this equipment (e.g., breath alcohol testing instruments; enforcement vehicles; digital in-car video cameras; and sobriety checkpoint supplies)

3. Provide training on detection and apprehension of impaired drivers (e.g., standardized field sobriety testing (SFST), sobriety checkpoint supervisor training, courtroom testimony, drug recognition experts (DRE), ARIDE, and DWI crash investigation techniques)

4. Ensure access to DRE and/or ARIDE trained officers at sobriety checkpoints

5. Provide motivational and educational speakers for law enforcement personnel during training events such as the annual Law Enforcement Traffic Safety Advisory Council (LETSAC) conference

6. Provide supplies, support, and training for DREs and the DRE recertification training to ensure continuity of the program

7. Support a state SFST/DRE coordinator who will work in cooperation with the Impaired Driving Sub-

committee of the MCRS and the DRE/SFST Advisory Committee in order to maintain standardization of the program

8. Support projects designed to prevent underage alcohol purchase, apprehend minors attempting to purchase alcohol, and provide a physical enforcement/intervention presence (e.g., Server Training, Party Patrol, Underage Drinking LE Training, selective enforcement, compliance checks, and special events)

9. Incorporate, as appropriate, recommendations identified in the 2008 Impaired Driving Assessment

10. Increase participation in statewide multi-jurisdiction mobilization enforcement efforts

11. Support selective enforcement efforts to address young drinking drivers by funding statewide underage drinking enforcement projects and training

12. Support DWI traffic units with local law enforcement agencies

13. Update administrative rules for the ignition interlock program as needed to insure that DWI offenders cannot operate a vehicle while intoxicated

#### **Prosecution/Adjudication**

1. Provide training for judges, prosecutors and law enforcement personnel on local/ national

DWI issues utilizing the expertise of the Missouri Office of Prosecution

Services, Department of Revenue, Office of State Courts Administrator, the National Traffic Law Center and the National Drug Court Institute

2. Provide continued funding for the statewide Traffic Safety Resource Prosecutor whose job it is to provide training and technical support for prosecutors in Missouri

3. Continue to provide funding for the MADD Court Monitoring project in selected counties and municipalities in order to increase conviction rates

4. Provide National Drug Court Institute training to DWI court teams from across the state

5. Incorporate topics on toxicology in law enforcement and prosecutor trainings

6. Provide equipment and training to enhance the DWI Tracking System (DWITS)

7. Provide motivational speakers for judicial personnel during training events such as their annual municipal judges and court clerks conference

8. Provide an integrated system, a web link and/ or specifications to local law enforcement agencies that will allow them to access the DWITS and enter DWI arrest information that can be tracked through prosecution and sentencing

9. Continue expansion of DWI courts throughout the state

10. Provide funding for an additional transportation attorney at the Missouri Department of Revenue to provide legal representation for alcohol-related license appeals to Missouri appellate courts

11. Provide funding for a paralegal position in the legal counsel's office at the Missouri Department of Revenue whose dedicated function will be to serve as the ignition interlock coordinator

12. Work with local jurisdictions across the State to implement no-refusal policies for BAC testing

13. Work with local jurisdictions across the State to implement electronic warrant systems in order to reduce the amount of time it takes for law enforcement officers to obtain a warrant in DWI cases

14. Provide specimen kits to coroners and medical examiners in order to obtain BAC test results in fatal crashes

#### Technology

1. Continue to provide DWITS enhancements: design specifications for program linkages; develop reports as needed by the users; conduct training for users of the system



2. Support the efforts of the Missouri Safety Center Breath Alcohol Instrument Training and Repair Laboratory to calibrate and repair breath test instruments in order to improve their reliability, and reassign instruments as needed

 Work with the Missouri Safety Center and the Missouri State Highway Patrol to purchase and place new breath testing technology around the state
 Seek ways to expedite processing of DWI offenders

5. Improve the process of tracking DWI offenders who have been sanctioned to install ignition interlock devices

6. Monitor ignition interlock manufacturers/ installers for adherence to the Breath Alcohol Ignition Interlock Device Program guidelines and administrative rules

# **Open Container (Section 154 Open Container Transfer Funds)**

The open container transfer provision was initially authorized under TEA-21 and reauthorized under SAFETEA-LU and MAP-21. The provision requires states to pass and enforce a qualifying open container law or be subject to a 3% transfer of their federal aid highway funds until FY 2012 when it decreased to 2.5%. These funds were required to be diverted to either alcohol countermeasure safety programs (within the Highway Safety Office) or be utilized for qualifying hazard elimination projects. Some of the alcohol countermeasures identified within this plan are supported by Section 154 transfer funds. The remainder of the funding has been retained for hazard elimination efforts.

Historically Missouri has focused on the prevention of crossover fatalities through the installation of 3-strand median guard cable on major roadways – one of the most serious types of crashes occurring in Missouri. Because of our efforts using the Open Container Transfer funds to install the median guard cable, we have almost eliminated crossover fatalities on our divided roadways. Currently safety engineering efforts using this funding source involve the installation of rumble stripes focused on keeping vehicles on the roadway, systematically addressing horizontal curve crash locations, and the systematic improvement to numerous intersections with both low-cost and higher-cost initiatives.



POSSESSION OF ALCOHOLIC BEVERAGES AND OPEN ALCOHOLIC CONTAINERS PROHIBITED



# ALCOHOL AND OTHER DRUGS

# Who

# 2012-2014 Fatalities by Age:

		Percent of
		Total
Age	Fatalities	Fatalities
0-9	10	1.53%
10-19	55	8.44%
20-29	216	33.13%
30-39	129	19.79%
40-49	103	15.80%
50-59	88	13.50%
60-69	37	5.67%
>=70	14	2.15%
Total	652	100.00%

Includes everyone killed involving at least one substance-impaired (alcohol and/or drugs) driver

# Where

# 2012-2014 Fatalities by Roadway Designation

		Percent of
		Total
Roadway Desg.	Fatalities	Fatalities
Interstates	55	8.44%
US Numbered Routes	69	10.58%
MO Lettered Routes	155	23.77%
MO Numbered Routes	156	23.93%
Business	3	0.46%
City Street	85	13.04%
Ramp	5	0.77%
County Road	115	17.64%
Outer Road	7	1.07%
Loop	0	0.00%
PVT	2	0.31%
Other	0	0.00%
Total	652	100.00%

# What

# 2012-2014 Substance-Impaired Driver Vehicle Types in Fatal Crashes:

	Substance-	Percent of
	Impaired Drivers	Total
Vehicle Type	in Fatal Crashes	Fatalities
Passenger Car	248	41.47%
SUV	99	16.56%
Van	18	3.01%
Motorcycle	62	10.37%
ATV	26	4.35%
Farm Imp	1	0.17%
Other/Unknown	1	0.17%
Pick Up	138	23.08%
Large Trucks	4	0.67%
Cargo Van	1	0.17%
Total	598	100.00%

# When

# 2012-2014 Fatalities by Time of Day:

		Percent of
		Total
Time	Fatalities	Fatalities
Midnight - 5:59 am	212	32.52%
6:00 am - 11:59 am	63	9.66%
Noon - 5:59 pm	118	18.10%
6:00 pm - 11:59 pm	259	39.72%
Total	652	100.00%



• See Statewide Total Fatalities and Serious Injuries by Target Area

# **OCCUPANT RESTRAINTS**

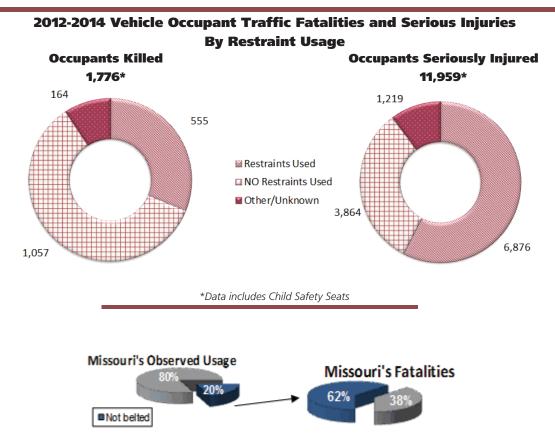
### Background

Traffic crashes are the leading cause of death in the United States. It is well recognized that one of the best means of defense in a crash is to be protected by a safety belt or a child safety seat. Increasing safety belt and child safety seat use has tremendous potential for saving lives, preventing injuries, and reducing the economic costs associated with traffic crashes. For many years, motor vehicle manufacturers have been required to install safety belts in their vehicles, so the vast majority of vehicles on the roads today have these types of safety devices installed. The overwhelming percentage of people killed on Missouri roads or seriously injured in 2012-2014, in all probability, had a safety belt available for use (except for pedestrians, bicyclists, and motorcyclists):

- 2,349 killed 75.6% had a safety belt available;
- 15,101 seriously injured 79.2% had a safety belt available.

A substantial number of occupants killed in 2012-2014 Missouri traffic crashes were not wearing safety belts or in a child safety seat compared to those injured and not injured. In fatal crashes where safety belt usage was known, 65.6% of the people who died were not restrained. Of those seriously injured, 36.0% were not restrained. Conversely, of those not injured, 685,537 were wearing a safety belt or in a child safety seat.

Safety belt use dramatically reduces a person's chance of being killed or seriously injuried in a traffic crash. Of the drivers involved in 2012-2014 crashes, 1 in 2 was injured when they failed to wear their safety belt, however, when they were wearing a safety belt, their chances of being injured in the crash were 1 in 8. When examining driver deaths, the differences are much more significant. Drivers had a 1 in 29.8 chance of being killed if they were not wearing a safety belt; but that chance dropped dramatically to only 1 in 1,343 if the driver was wearing a safety belt.

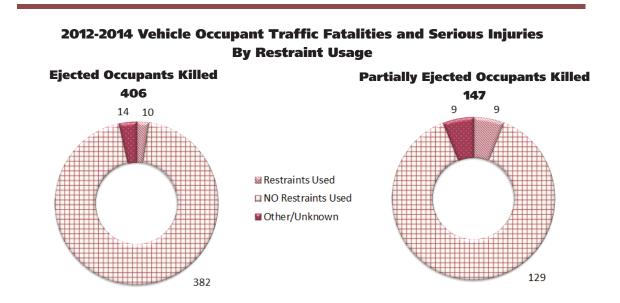


### 62% of 2014 vehicle occupants killed were unrestrained!

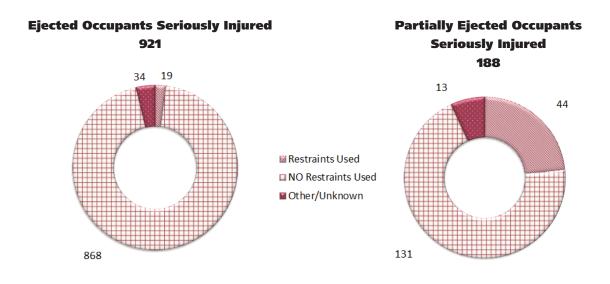
#### 95 of 467

### Ejections

The possibility of death and serious injury dramatically increases in cases where the person is ejected from the vehicle at the time of the crash. One of the benefits of being restrained is it increases the probability of the person staying in the vehicle and being protected by the vehicle passenger compartment. In known cases of those occupants killed who were totally ejected from the vehicle, 97.4% were not restrained and of those partially ejected, 93.5% were not restrained. Of the occupants killed who were not ejected from their vehicles, 50.4% were not restrained.



In known cases of those occupants seriously injured who were totally ejected from the vehicle, 97.9% were not restrained and of those partially ejected, 74.9% were not restrained. Of the occupants seriously injured who were not ejected from their vehicles, 29.5% were not restrained.



# Safety Belt Usage Among High School Students

While 65.6% of the occupants who died were not restrained, lack of safety belt use becomes even more significant when we segregate young people. When just looking at young people between the ages of 15 through 20, 73.4% of those who died were not buckled up.

The Office of Highway Safety had long been concerned with the lack of safety belt usage among young drivers and passengers. Unfortunately, in the past, there was no survey data to provide an established use rate for this age group. In 2003, parameters were developed to conduct an observational safety belt use survey for teens. It was determined that the most effective way to reach this very targeted age group was to survey specific high schools throughout the state.

Several guiding principles served as the underlying basis for the sampling plan:

1. The individual public high school would be the basic sample unit at which safety belt usage observations would be made.

2. The safety belt usage rates of high school students would be computed for each of the seven MoDOT regions in the state.

3. The number of schools selected from each Mo-

DOT region would be proportionate to the number of schools in that region in comparison to the state total of 496 public high schools.

4. The high schools within each region would be selected in their descending order of student enrollment to maximize the number of high school students from each MoDOT region.

One hundred-fifty high schools were selected for the survey in 92 counties (80 percent of the 115 counties in Missouri). Observational data were collected in April, Monday through Friday. Two instruments were used to collect the data. One instrument focused on the vehicle and the driver, while the other targeted the front safety outboard passenger and other occupants in the vehicle. A detailed report of all findings is available on file at the Office of Highway Safety.

Results of the high school surveys reflected mostly modest increases until a 5 percent jump in usage in 2010. The usage rate has been very stagnant since 2010, fluctuating between 66 and 67 percent.

- 2006 58 percent
- 2007 61 percent
- 2008 62 percent
- 2009 61 percent
- 2010 66 percent
- 2011 67 percent
- 2012 66 percent
- 2013 67 percent
- 2014 67 percent
- 2015 68 percent







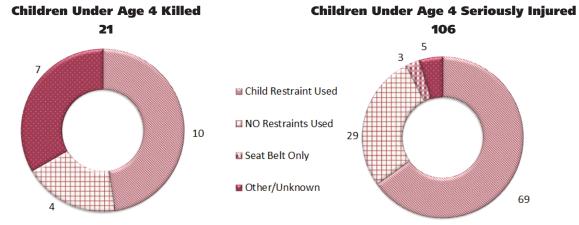
# **Very Young Passengers**

While Missouri must continue to promote the use of safety belts, particular attention must be paid to increasing the use of restraint devices for transporting young children. According to the National Highway Traffic Safety Administration (NHTSA), approximately 7,500 lives have been saved by the proper use of child restraints during the past 20 years. Yet, motor vehicle crashes still remain the number one killer of children ages 4 to 14 in America. The reason? Too often it is the improper or non-use of child safety seats and booster seats.

# Children Birth through Age Three – Child Safety Seats

In 2012-2014, 21 children under the age of 4 were killed in a motor vehicle; 19.0% were not using any type of restraint device (in known cases). Another 106 were seriously injured. In known cases, 27.4% were not in any restraint device and 2.8% were in an adult safety belt.

# 2012-2014 Vehicle Occupant Traffic Fatalities and Serious Injuries By Restraint Device - Children Under Age 4

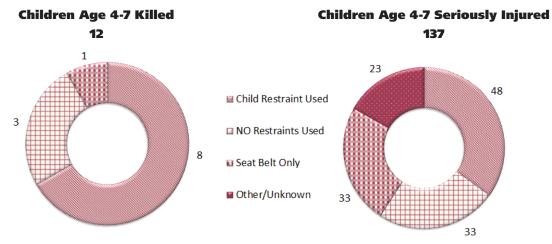


# Children Age 4 through 7 – Booster Seats

Research indicates that when children are graduated to a safety belt too soon, they are much more likely to suffer serious injuries in a crash due to "safety belt syndrome." Therefore, during the 2006 legislative session, Missouri's child passenger restraint law was strengthened to require children ages 4 through 7 (unless they are 4'9" tall or weigh more than 80 pounds) to be secured in a booster seat (or child safety seat if appropriate for their height and weight). Many children in the upper end of this age group are also allowed to ride in the front passenger seat of vehicles, when it is not recommended they do so until age 13. This is a dangerous position for young children and parents should be educated on the importance of children remaining in the back seats.

In 2012-2014, 12 children, 4 through 7 years of age, were killed in a motor vehicle; in known cases, 25.0% were not using any type of restraint device and 8.3% were in an adult safety belt. Another 137 children within this age group were seriously injured – 24.1% were not secured in any type of restraint device, 35.0% were in a child restraint, and 24.1% were in an adult safety belt.

# 2012-2014 Vehicle Occupant Traffic Fatalities and Serious Injuries By Restraint Device - Children Age 4-7



# **GOAL #1:**

To increase statewide safety belt usage by 1% annually to:

2014	2015	2016
81%	82%	83%

### Performance Measure:

• Statewide percent observed belt use for passenger vehicles (front seat outboard occupants)

### **Benchmark:**

 2013 statewide safety belt usage - 80% (79% in 2014) (80% in 2015)

# **GOAL** #2:

To reduce unrestrained passenger vehicle occupant fatalities to 326 by 2016:

2013	2014	2015
379	361	344

## Performance Measure:

• Number of unrestrained passenger vehicle occupant fatalities

### **Benchmark:**

• 2012 unrestrained passenger vehicle occupant fatalities - 396 (334 in 2013) (327 in 2014)

# **GOAL #3:**

To increase safety belt related citations and warnings made during grant funded enforcement activities and mobilizations by .25 percent annually based on a threeyear rolling average of grant years 2011, 2012, 2013 = 35,256

2012-2014	2013-2015	2014-2016
35,344	35,432	35,520

#### **Performance Measure:**

• Number of safety belt citations and warnings issued during grant funded enforcement activities and mobilizations

### **Benchmark:**

• 2011-2013 safety belt citations and warnings issued during grant funded enforcement and mobilizations - 35,256 (33,759 - 2012-2014 three -year rolling average) (36,609 - 2013-2015 three-year rolling average)

### **GOAL #4:**

To increase teen safety belt usage by 1% annually to:

2014	2015	2016
68%	69%	70%

### **Performance Measure:**

• Percent observed belt use for teen front seat outboard occupants

#### **Benchmark**:

 2013 statewide safety belt usage - 67% (67% in 2014) (68% in 2015)

## **GOAL #5:**

To increase safety belt usage of commercial motor vehicle (CMV) drivers by 1% during surveys conducted biennually to:

2014	2016
82%	83%

### **Performance Measure:**

Percent observed safety belt use for CMV driv-

ers

### **Benchmark:**

2012 CMV driver safety belt usage - 81% (81% in 2014)

## **GOAL #6:**

To increase child safety seat usage by 1% annually to:

2014	2015	2016
92%	93%	94%

#### **Performance Measure:**

Percent observed child safety seat use

### **Benchmark**:

 2013 child safety seat usage rate - 91% (91% in 2014)

# **GOAL #7:**

To maintain an adequate base of certified Child Passenger Safety Technicians throughout the state to fall within the following range:

• 800-1,000 with representation in each of the seven blueprint regional coalitions

#### **Performance Measure:**

• Number of certified Child Passenger Safety Technicians in the statewide database maintained by the Highway Safety Office

### Benchmark:

Certified Technicians as of February 2014 - 989 (1,053 in December 2014) (1,039 in December 2015)

# **GOAL #8:**

To maintain an adequate base of certified Child Passenger Safety Instructors throughout the state to fall within the following range:

• 30-40 with representation in each of the seven blueprint regional coalitions

#### **Performance Measure:**

Number of certified Child Passenger Safety

Instructors in the statewide database maintained by the Highway Safety Office

#### **Benchmark:**

 Certified instructors as of February 2014 - 38 (38 in December 2014)

# **GOAL #9:**

To maintain an adequate base of Missouri inspection stations (that are listed on the NHTSA website) throughout the state to fall within the following range:

• 125 – 200 with representation in each of the seven blueprint regional coalitions

#### Performance Measure:

• Number of Missouri inspection stations in a statewide database maintained by the Highway Safety Office

### Benchmark:

2014 - 198

Inspection stations in Missouri as of February

(198 in December 2014) (207 in December 2015)

() Information in parenthesis is actual data for the respective year(s) listed.

#### STRATEGIES

#### **Child Passengers**

1. Produce, promote and distribute educational materials addressing: the proper installation of child safety seats and booster seat use

2. Maintain a state CPS Advisory Committee and implement their recommendations where appropriate

3. Conduct six Certified Child Passenger Safety Technician classes statewide

4. Certify an additional CPS Instructor each year

5. Maintain a statewide computer list-serve of CPS technicians and instructors

6. Support child safety seat checkup events and educational programs through local law enforcement agencies, fire departments, Safe Communities, hospitals and health care agencies, safety organizations such as Safe Kids, and the Traffic and Highway Safety Division

7. Work with partners and with the media to garner support for annual CPS Week in September

8. When funding is available, provide child safety seats/booster seats and supplies to inspection stations for distribution to low income families (note: inspection stations must meet guidelines established by Missouri's CPS Advisory Committee and must be listed on the NHTSA Web site http://www.nhtsa.dot.gov/people/in-jury/childps/CPSFittingStations/CPSinspection.htm )

9. Develop educational pieces to heighten awareness concerning the life-saving and economic benefits derived from enhanced child safety seat laws

10. Conduct Child Restraint Observational Survey every other year

11. Conduct annual CPS enforcement and public awareness campaign during National CPS Week

12. Focus educational materials toward booster seats and children remaining in the back seat of a vehicle until age 13

13. Create educational materials to accommodate the non-english speaking and deaf/hard of hearing communities

#### **Teen Passengers/Drivers**

1. Conduct a safety belt survey of young drivers and their passengers every two years and conduct annual law enforcement mobilizations and public awareness campaigns targeting lack of safety belt use at high schools

2. Conduct youth safety belt selective traffic enforcement efforts statewide coupled with press releases, radio spots, and materials targeting young drivers

3. Promote the youth campaigns; modify or en-

hance campaigns as needed to keep a fresh approach for the teen audience

4. Develop youth safety belt public awareness materials with input from young drivers

5. Educate youth on the importance of safety belts through programs such as Team Spirit Youth Traffic Safety Leadership Training Program & Reunion, Think First, It Only Takes One, and the Young Traffic Offenders Program

6. Support the First Impact parent program geared toward educating the parents of teen drivers on the important role they play in the early driving years

#### **General Occupant Protection**

1. Conduct NHTSA-approved statewide observational safety belt survey every year, in May/June (pre, peak, and post surveys in conjunction with enforcement mobilizations and public awareness campaigns)

2. Produce, promote and distribute educational materials addressing: occupant protection laws; importance of wearing safety belts all the time and air bag safety

3. Promote the Saved by the Belt survivor program; maintain a database of survivors to contact those who are willing to speak publicly about their life-saving experience

4. Conduct annual Click It or Ticket selective traffic enforcement wave during May/June, augmented with collateral public information and awareness efforts such as press releases, observational surveys, and educational programs utilizing the Click It or Ticket safety belt campaign message

5. Compliment annual Click It or Ticket campaign with quarterly occupant protection enforcement days, augmented with collateral public information and awareness efforts, namely through press releases.

6. Conduct paid media efforts and work toward continual increases in earned media efforts

7. Develop educational pieces to heighten awareness concerning the life-saving and economic benefits derived from primary safety belt laws

8. Continue funding traffic occupant protection strategies training to law enforcement agencies throughout the state.

9. Provide motivational and educational speakers for law enforcement personnel during training events such as the annual Law Enforcement Traffic Safety Advisory Council (LETSAC) conference

9. Provide motivational and educational speakers for law enforcement personnel during training events such as the annual Law Enforcement Traffic Safety Advisory Council (LETSAC) conference





# **OCCUPANT RESTRAINTS**

# Who

# 2012-2014 Fatalities by Age:

		Percent of
		Total
Age	Fatalities	Fatalities
0-9	11	1.04%
10-19	140	13.25%
20-29	275	26.02%
30-39	179	16.93%
40-49	148	14.00%
50-59	129	12.20%
60-69	92	8.70%
>=70	83	7.85%
Total	1,057	100.00%

Unrestrained Occupants includes drivers and passengers of vehicles subject to the seat belt law.

# Where

# 2012-2014 Fatalities by Roadway Designation

		Percent of
		Total
Roadway Desg.	Fatalities	Fatalities
Interstates	100	9.46%
US Numbered Routes	147	13.91%
MO Lettered Routes	230	21.76%
MO Numbered Routes	266	25.17%
Loop (Interstate only)	4	0.38%
Business	3	0.28%
City Street	132	12.49%
Ramp	12	1.14%
County Road	154	14.57%
Outer Road	8	0.76%
Private	1	0.09%
Total	1,057	100.00%

# What

# 2012-2014 Unrestrained Occupant Fatalities by Occupant Vehicle Type:

	Unrestrained	Percent of
	Occupant	Total
Vehicle Type	Fatalities	Fatalities
Passenger Car	525	49.67%
SUV	185	17.50%
Van	43	4.07%
Motor Home	2	0.19%
Pick Up	279	26.40%
Large Trucks	22	2.08%
Passenger Van	1	0.09%
Total	1,057	100.00%

# When

# 2012-2014 Fatalities by Time of Day:

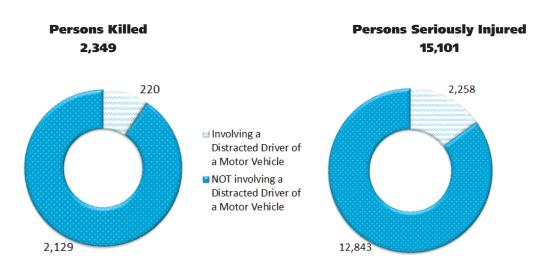
		Percent of
		Total
Time	Fatalities	Fatalities
Midnight - 5:59 am	252	23.84%
6:00 am - 11:59 am	209	19.77%
Noon - 5:59 pm	316	29.90%
6:00 pm - 11:59 pm	280	26.49%
Total	1,057	100.00%

# **DISTRACTED DRIVERS**

#### Background

Distracted driving is a voluntary diversion of the driver's attention from activities critical to safe driving. There are four types of driver distraction; visual, auditory, manual, and cognitive. There is a growing body of evidence which suggests driver distractions, both inside the vehicle and the road environment, are becoming increasingly large contributors to road trauma.

It is estimated that drivers engage in a secondary task between one-quarter and one-half of the time they drive. In recent surveys, about two-thirds of all drivers reported using a cell phone while driving. In daytime observational studies, 7 to 10 percent of all drivers were using a cell phone. Based on a study by Virginia Tech Transportation Institute, a risk for being involved in a critical incident is 23 times greater if the driver texts while driving. On January 1, 2012, Missouri's law enforcement officers began using a revised crash report which includes additional data elements that address distracted driving. This more detailed report will prvide data that can be used to more accurately assess the magnitude of this high-risk behavior. From 2012-2014, 9.7% of Missouri fatal traffic crashes involved at least one distracted driver. About 35 percent of the distracted drivers involved in fatal crashes in the last three years were between 15 and 30 years of age.



## 2012-2014 Statewide Fatalities & Serious Injuries Vs. Number of Distracted Driver Involved

# **GOAL #1:**

To decrease fatalities involving distracted drivers to 70 by 2016:

2013	2014	2015
81	78	74

#### **Performance Measure:**

- Number of distracted driving-related fatalities **Benchmark:**
- 2012 distracted driving-related fatalities 85 (74 in 2013) (61 for 2014)

#### **STRATEGIES**

1. Continue to expand public information campaigns to educate the roadway user on the dangers of distracted driving

2. Encourage companies to strengthen distracted driving policies and consequences for those who text and drive, use cell phones and other electronic devices while driving

3. Seek opportunities to give distracted driving

# **GOAL #2:**

To decrease serious injuries involving distracted drivers to 674 by 2016:

2013	2014	2015
783	747	711

#### **Performance Measure:**

- Number of distracted driving-related serious injuries **Benchmark:**
- 2012 distracted driving-related serious injuries
- 819 (722 in 2013) (771 in 2014)

() Information in parenthesis is actual data for the respective year listed.

presentations at businesses, schools, and community organizations

4. Enact legislation to restrict texting for all drivers

5. Expand GDL law to ban cell phone use by beginner drivers

6. Work with safety advocates and partners to implement countermeasures to reduce crashes involving distracted drivers





# **DISTRACTED DRIVERS**

# Who

# 2012-2014 Fatalities by Age:

		Percent of
		Total
Age	Fatalities	Fatalities
0-9	8	3.64%
10-19	35	15.91%
20-29	32	14.55%
30-39	31	14.09%
40-49	31	14.09%
50-59	23	10.45%
60-69	26	11.82%
>=70	34	15.45%
Total	220	100.00%

Includes everyone killed involving at least

one distracted driver.

# Where

# 2012-2014 Fatalities by Roadway Designation

	Percent of
	Total
Fatalities	Fatalities
27	12.27%
38	17.27%
51	23.18%
55	25.00%
1	0.45%
2	0.91%
16	7.27%
29	13.18%
1	0.45%
220	100.00%
	27 38 51 55 1 2 16 29 1

# 2012-2014 Distracted Driver Vehicles Involved in Fatal Crashes:

	Distracted	
	Driver	
	Vehicle	Percent of
	Bodty	Total
Vehicle Type	Туре	Fatalities
Passenger Car	76	36.54%
SUV	40	19.23%
Van	19	9.13%
Motorcycle	13	6.25%
ATV	4	1.92%
Motor Home	1	0.48%
Farm Imp.	1	0.48%
Pick Up	35	16.83%
Large Trucks	18	8.65%
Passenger Van	1	0.48%
Total	208	100.00%

# Yhen

What

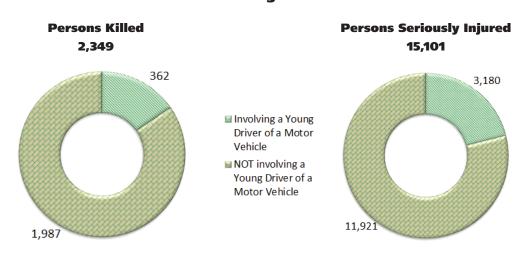
# 2012-2014 Fatalities by Time of Day:

		Percent of Total
Time	Fatalities	Fatalities
Midnight - 5:59 am	29	13.18%
6:00 am - 11:59 am	52	23.64%
Noon - 5:59 pm	96	43.64%
6:00 pm - 11:59 pm	43	19.55%
Total	220	100.00%

# **YOUNG DRIVERS**

#### Background

Young drivers are categorized as those ages 15 through 20 years. These young drivers are substantially overinvolved in Missouri traffic crashes. In 2014, 13.9% of all fatal crashes involved a young driver of a motor vehicle; this is particularly significant since young drivers comprised only 7.9% of the licensed driver population in Missouri. Of all 2012-2014 fatal and serious injury crashes in Missouri, 19.7% involved a young driver of a motor vehicle. In 2012-2014, 362 persons were killed and 3,180 were seriously injured in traffic crashes involving a young driver of a motor vehicle.



## 2012-2014 Statewide Fatalities & Serious Injuries Vs. Number of Young Drivers Involved

NOTE: data for persons killed and seriously injured involving a young driver does not include young drivers of ATVs, bicycles, farm implements, construction equipment, other vehicles and unknown vehicle body types.

Several factors work together to make this age group so susceptible to crashes:

• Inexperience: All young drivers start out with very little knowledge or understanding of the complexities of driving a motor vehicle. Like any other skill, learning to drive well takes a lot of time. Technical ability, good judgment and experience are all needed to properly make the many continuous decisions—small and large—that add up to safe driving. This is confirmed by the larger percentage of single-vehicle fatal crashes involving young drivers where the vehicle frequently leaves the road and overturns or hits a stationary object like a tree or pole.

• Risk-taking behavior and immaturity: Adolescent impulsiveness is a natural behavior, but it results in poor driving judgment and participation in high-risk behaviors such as speeding, inattention, impairment and failing to wear a safety belt. Peer pressure also often encourages risk taking. In general a smaller percentage of young drivers in Missouri wear their safety belts compared to other drivers (teen safety belt usage rate for 2015 was 68 percent compared to the overall usage rate of 80 percent).

• Greater risk exposure: Young drivers often drive at night with other friends in the vehicle. During night driving, reaction time is slower since the driver can only see as far as the headlights allow. More teen fatal crashes occur when passengers—usually other teenagers—are in the car than do crashes involving other drivers. Driving with young, exuberant passengers usually poses a situation of distraction from the driving task. There are many other distractions in vehicles including the loud music and cell phones; all of which are factors that increase crash risk.

The top 5 contributing circumstances attributable to young drivers of motor vehicles involved in 2012-2014 fatal and serious injury crashes were:

- 1. Driving Too Fast for Conditions
- 2. Distracted / Inattentive
- 3. Failed to Yield
- 4. Improper Lane Usage / Change
- 5. Speed Exceeded Limit



### **Young Drinking Drivers**

When analyzing statistics involving young drinking drivers, it is all the more important for us to keep in mind that drinking alcohol is an illegal behavior for those under 21 years of age. Missouri has a "zero tolerance" law for people under 21 that sets their illegal blood alcohol content level at .02 percent (considerably lower than the .08 BAC level for adults).

In 2012-2014, there were 2,082 drivers whose consumption of alcohol contributed to the cause of a fatal or serious injury crash. In known cases, 193 (9.3%) of the drinking drivers were under the legal drinking age of 21.

In 2012-2014, a total of 529 drinking drivers were involved in crashes where one or more people were killed. In known cases, 47 (8.9%) of those drinking drivers were under the legal drinking age of 21. In 2012-2014, 569 (24.2%) of the fatalities and 2,057 (13.6%) of the serious injuries involved a drinking driver. Of these, 55 (9.7%) of the fatalities and 213 (10.4%) of the serious injuries involved an underage drinking driver.

In 2012-2014, 333 young drivers were involved in 325 fatal traffic crashes where 362 people died. In those crashes, 47 or 14.1% of the young drivers were drinking and driving. In other words, one of every 7 young drivers involved in fatal crashes was drinking alcohol and their intoxicated condition contributed to the cause of the crash.

### **GOAL** #1:

To decrease fatalities involving drivers age 15 through 20 to 111 by 2016:

2013	2014	2015
129	123	117

#### Performance Measure:

• Number of fatalities involving drivers age 15 through 20

#### **Benchmark**:

• 2012 fatalities involving drivers age 15 through 20 - 135 (120 in 2013) (114 in 2014)

### **GOAL #2:**

To decrease serious injuries involving drivers age 15 through 20 to 1,038 by 2016:

2013	2014	2015
1,206	1,150	1,095

#### Performance Measure:

• Number of people seriously injured involving drivers age 15 through 20

#### **Benchmark**:

• 2012 serious injuries involving drivers age 15 through 20 - 1,261 (1,050 in 2013) (932 in 2014)

() Information in parenthesis is actual data for the respective year listed.

#### STRATEGIES

1. Continue support for youth prevention and education programs to include Team Spirit Youth Traffic Safety Leadership Training Program and Reunion; It Only Takes One, ThinkFirst Programs (school assemblies, Traffic Offenders Program and the corporate program); Every15 Minutes; DWI docu dramas; CHEERS universitybased designated driver program, Safe Communities programs throughout the state and statewide It Only Takes One campaign

2. Continue statewide distribution of Road Wise: Parent/Teen Safe Driving Guide through Department of Revenue licensing offices, Highway Patrol driver examination stations, First Impact parent program and upon request

3. Seek out and continually assess young driver educational programs to determine the best and most cost-effective way to reach the largest number of parents and teens

4. Continue to update, as needed, materials and

web/social media information on young, high-risk drivers; develop materials that are especially appealing to young drivers

5. Include information on the graduated driver license (GDL) law in materials, on the web/social media sites and within presentations

6. Continue to support the First Impact parent program to educate parents of young, high-risk drivers on all highway safety measures, especially the GDL law

7. Support projects designed to prevent underage alcohol purchase, educate law enforcement and the public about underage drinking, apprehend minors attempting to purchase alcohol and adults purchasing alcohol for minors, and provide a physical enforcement/ intervention presence (e.g., Server Training, SMART on-line server training, underage drinking law enforcement training, compliance checks and multi-jurisdiction enforcement teams)

8. Conduct a safety belt survey of young drivers and their passengers every two years and conduct annual law enforcement mobilizations and public awareness campaigns targeting lack of safety belt use at high schools

9. Conduct an annual law enforcement campaign focused on underage drinking and driving

10. Provide funding to support college/university prevention programs (Partners in Prevention, CHEERS Designated Driver program, SMART online server training and START online student alcohol awareness training) that focus on the development and implementation of UMC's Drive Safe. Drive Smart campaign

11. Encourage strict enforcement of Missouri laws targeting young drivers (e.g., Graduated Driver License, Zero Tolerance, Abuse and Lose)

12. Promote the saveMOlives website and social marketing sites that appeal to youth (Facebook, Twitter, Instagram, etc.)

 Provide support for the Missouri Coalition for Roadway Safety Substance-Impaired Driving Subcommittee to address underage substance-impaired driving
 Develop campaigns/materials to reach targeted high-risk groups

15. Promote the seat belt and youth alcohol campaigns; modify or enhance campaigns as needed to keep a fresh approach for the teen audience



## **YOUNG DRIVERS**

## Who

## 2012-2014 Fatalities by Age:

		Percent of
		Total
Age	Fatalities	Fatalities
0-9	4	1.08%
10-19	176	47.70%
20-29	75	20.33%
30-39	16	4.34%
40-49	25	6.78%
50-59	22	5.96%
60-69	18	4.88%
>=70	33	8.94%
Total	369	100.00%

Includes everyone killed in crashes involving at least one young driver.

## Where

### 2012-2014 Fatalities by Roadway Designation

_		
		Percent of
		Total
Roadway Desg.	Fatalities	Fatalities
Interstates	26	7.05%
US Numbered Routes	57	15.45%
MO Lettered Routes	65	17.62%
MO Numbered Routes	93	25.20%
Loop (Interstates only)	2	0.54%
Business	2	0.54%
City Street	51	13.82%
Ramp	6	1.63%
County Road	65	17.62%
Outer Road	2	0.54%
Total	369	100.00%

## What

## 2012-2014 Young Driver Vehicles Involved in Fatal Crashes

	Young	
	Driver	
	Vehicle	Percent of
	Body	Total
Vehicle Type	Туре	Fatalities
Passenger Car	189	56.76%
SUV	45	13.51%
Van	6	1.80%
Motorcycle	10	3.00%
ATV	5	1.50%
Farm Imp.	2	0.60%
Pick Up	74	22.22%
Large Trucks	2	0.60%
Total	333	100.00%

## When

		Percent of
		Total
Time	Fatalities	Fatalities
Midnight - 5:59 am	68	18.43%
6:00 am - 11:59 am	57	15.45%
Noon - 5:59 pm	129	34.96%
6:00 pm - 11:59 pm	115	31.17%
Total	369	100.00%



## OLDER DRIVERS 65 YEARS OF AGE AND OVER

#### Background

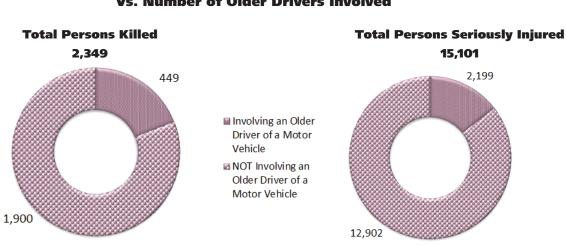
Our population is aging and older adult drivers are increasing their exposure (miles driven/year) on the highways. According to the U.S. Census Bureau, Missouri ranked 16th nationally in 2010 with 15% of the population age 65 or older. By the year 2030 it is estimated that over 20% of the population in Missouri will be age 65 or older. That means approximately one in five people will be 65 or older.

Being able to go where we want and when we want is important to our quality of life. Personal mobility is often inextricably linked to the ability to drive a car. However, as we age our ability to drive a motor vehicle may be compromised by changes in vision, attention, perception, memory, decision-making, reaction time and aspects of physical fitness and performance.

A wide variety of age-related decreases in physical and mental abilities can contribute to decreased driving ability, as implied by reports that elderly drivers drive less as they age, while collisions per mile driven increase. Drivers 65 and older who are injured in automobile crashes are more likely than younger drivers to die from their injuries. Accordingly, several reports have noted that per mile driven, older drivers experience higher crash fatality rates than all other drivers except teen-age drivers. Studies have shown that a driver 70 or over is about three times as likely as someone 35-54 years old to sustain a fatal injury in a crash.

In May of 2016, there were 830,670 people licensed in Missouri who were age 65 or over. They accounted for 18.8% of the 4,426,742 persons licensed in Missouri.

Of all 2012-2014 fatal and serious injury crashes in Missouri, 15.5% involved an older driver of a motor vehicle. In 2012-2014, 449 persons were killed and 2,199 were seriously injured in Missouri traffic crashes involving an older driver of a motor vehicle.



#### **GOAL #1:**

To decrease fatalities involving older drivers to 117 by 2016:

2013	2014	2015
136	129	123

#### **Performance Measure:**

• Number of fatalities occurring in crashes involving older drivers

#### **Benchmark:**

• 2012 fatalities involving older drivers - 142 (151 in 2013) (166 in 2014)

#### **GOAL #2:**

To decrease serious injuries involving older drivers to 632 by 2016:

2013	2014	2015
732	698	665

#### **Performance Measure:**

• Number of serious injuries occurring in crashes involving older drivers

#### **Benchmark**:

• 2012 serious injuries involving older drivers -768 (707 in 2013) (736 in 2014)

() Information in parenthesis is actual data for the respective year listed.

#### **STRATEGIES**

1. Work with safety advocates and partners to assess and implement countermeasures to reduce crashes involving older drivers identified in the SHSP Missouri's Blueprint to Save More Lives

2. Develop and distribute public informational materials to assist older drivers and their families

3. Provide educational programs to community groups and the public

4. Train law enforcement personnel to identify signs of impairment specific to older drivers

5. Identify and promote self-assessment tools to enable older drivers to check their own driving abilities

6. Improve the process for reporting unsafe or medically unfit drivers (revisions of forms, internal processes, and needed training)

7. Work with the Subcommittee on Elder Mobility and Safety under the Missouri Coalition for Roadway Safety to address older driver safety

8. Develop a package of office-based screening tools that can be used by healthcare providers and agencies involved in licensing decisions

## 2012-2014 Statewide Fatalities & Serious Injuries Vs. Number of Older Drivers Involved



## **OLDER DRIVERS 65 YEARS** OF AGE AND OVER

## Who

### 2012-2014 Fatalities by Age:

		Percent of
		Total
Age	Fatalities	Fatalities
0-9	5	1.09%
10-19	6	1.31%
20-29	18	3.92%
30-39	17	3.70%
40-49	24	5.23%
50-59	20	4.36%
60-69	113	24.62%
>=70	256	55.77%
Total	459	100.00%

Includes everyone killed in crashes involving at least one older driver.

## Where

### 2012-2014 Fatalities by Roadway Designation

		Percent of
		Total
Roadway Desg.	Fatalities	Fatalities
Interstates	55	11.98%
US Numbered Routes	107	23.31%
MO Lettered Routes	66	14.38%
MO Numbered Routes	141	30.72%
Loop (Interstates only)	2	0.44%
Business	8	1.74%
City Street	37	8.06%
Ramp	4	0.87%
County Road	33	7.19%
Outer Road	5	1.09%
Private	1	0.22%
Total	459	100.00%

## 2012-2014 Older Driver Vehicles Involved in Fatal Crashes

	Older	
	Driver	
	Vehicle	Percent of
	Body	Total
Vehicle Type	Туре	Fatalities
Passenger Car	209	47.18%
SUV	64	14.45%
Van	38	8.58%
School Bus	0	0.00%
Motorcycle	18	4.06%
ATV	4	0.90%
Motor Home	1	0.23%
Farm Imp.	4	0.90%
Other/Unknown	3	0.68%
Pick Up	85	19.19%
Large Trucks	17	3.84%
Total	443	100.00%

## When

What

		Percent of
		Total
Time	Fatalities	Fatalities
Midnight - 5:59 am	27	5.88%
6:00 am - 11:59 am	151	32.90%
Noon - 5:59 pm	198	43.14%
6:00 pm - 11:59 pm	83	18.08%
Total	459	100.00%

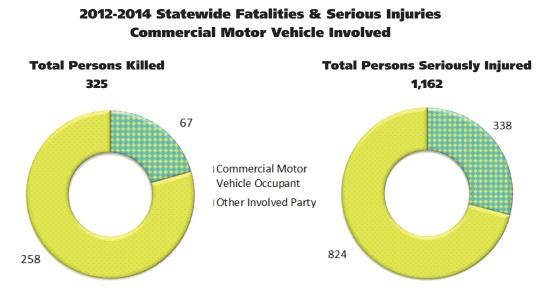


## **COMMERCIAL MOTOR VEHICLES**

#### Background

Large trucks have blind spots – identified as No Zones – around the front, back and sides of the truck, which make it difficult for the driver to see. It is critically important that other drivers stay out of the No Zone of a commercial vehicle. Because most commercial motor vehicles (CMVs) are large transport devices that are much heavier than the normal vehicle population, they cause greater amounts of personal injury and severity to the occupants of vehicles with which they collide. When analyzing the types of persons killed or injured in CMV crashes, the great majority were not the occupants of the commercial motor vehicle. Commercial motor vehicles are involved in a substantial number of traffic crashes in Missouri, especially those resulting in the death of one or more persons. In 2012-2014, there were 414,173 traffic crashes in the state. In these crashes, 35,624 (8.6%) involved at least one commercial motor vehicle. Of the 2,143 fatal crashes, however, 289 (13.5%) involved at least one commercial motor vehicle.

Of those killed in 2012–2014 CMV crashes, 67 (20.6%) were CMV occupants and 258 (79.4%) were other parties in the incident. When examining serious injuries, 338 (29.1%) were CMV occupants while 824 (70.9%) were some other party.



### The Motor Carrier Safety Assistance Program (MCSAP) is a federal grant program that provides financial assistance to states to reduce the number and severity of accidents and hazardous materials incidents involving commercial motor vehicles. The goal of the MCSAP is to reduce CMV involved crashes, fatalities, and injuries through consistent, uniform and effective CMV safety programs. Investing grant monies in appropriate safety programs will increase the likelihood that safety defects, driver deficiencies, and unsafe motor carrier practices will be detected and corrected before they become contributing factors to crashes. The Traffic

and Highway Safety Division administers MCSAP, but the MCSAP program operates under a separate federal grant. Goals, benchmarks and strategies are outlined within the Commercial Vehicle Safety Plan (CVSP), which is submitted to the Federal Motor Carrier Safety Administration.

Goals, benchmarks and strategies are outlined within the Commercial Vehicle Safety Plan (CVSP), which is submitted to the Federal Motor Carrier Safety Administration.

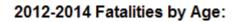






## **COMMERCIAL MOTOR VEHICLES**

## **Yno**



		Percent of
		Total
Age	Fatalities	Fatalities
0-9	10	3.08%
10-19	28	8.62%
20-29	54	16.62%
30-39	47	14.46%
40-49	53	16.31%
50-59	55	16.92%
60-69	32	9.85%
>=70	46	14.15%
Total	325	100.00%

Includes everyone killed in crashes involving at least one CMV driver.

## Where

## 2012-2014 Fatalities by Roadway Designation

		Percent of
		Total
Roadway Desg.	Fatalities	Fatalities
Interstates	93	28.62%
US Numbered Routes	72	22.15%
MO Lettered Routes	41	12.62%
MO Numbered Routes	76	23.38%
Loop (Interstates only)	3	0.92%
Business	1	0.31%
City Street	22	6.77%
Ramp	4	1.23%
County Road	9	2.77%
Outer Road	4	1.23%
Total	325	100.00%

# and Serious Injuries by Target Area

# What

## 2012-2014 Vehicle Body Types Involved in Fatal CMV Crashes

	Older	
	Vehicle	
	Body	Percent of
	Type	Total
Vehicle Type	Involved	Fatalities
Passenger Car	140	23.77%
SUV	39	6.62%
Van	14	2.38%
School Bus	8	1.36%
Transit / Commuter Bus	3	0.51%
Charter / Tour Bus	2	0.34%
Other Bus	2	0.34%
Motorcycle	20	3.40%
ATV	1	0.17%
Bicycle	3	0.51%
Motor Home	1	0.17%
Farm Imp.	1	0.17%
Construction Equip	2	0.34%
Pick Up	76	12.90%
Large Trucks	276	46.86%
Passenger Van	1	0.17%
Total	589	100.00%

## When

		Percent of Total
Time	Fatalities	Fatalities
Midnight - 5:59 am	41	12.62%
6:00 am - 11:59 am	101	31.08%
Noon - 5:59 pm	122	37.54%
6:00 pm - 11:59 pm	61	18.77%
Total	325	100.00%

## **MOTORCYCLE CRASHES**

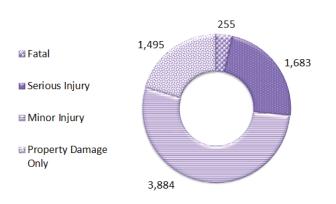
#### Background

A responsible motorcyclist must think about the consequences of their riding behavior in traffic and accept personal responsibility for the results of their decisions and actions, as well as develop good skills and judgment. The motorcyclist must consider their personal margin of safety or margin for error – how much extra time and space they need given their skill level.

Likewise, the general motoring public must be aware of their surroundings while driving and share the road with motorcyclists. A significant number of motorcycle crashes involve another vehicle.

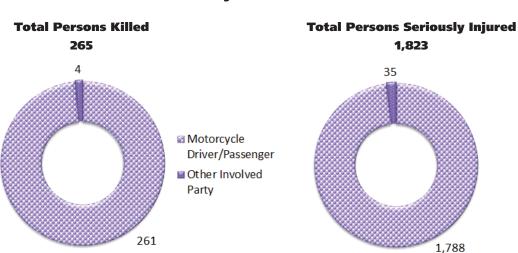
Although motorcycle traffic crashes do not occur with great frequency in Missouri, they usually result in deaths or serious injuries at a considerably greater rate than other traffic crashes. This reality makes helmet use imperative. Of the 414,173 traffic crashes in 2012-2014, 0.5% resulted in a fatality and 2.9% involved someone being seriously injured in the incident. During the same period, there were 7,317 traffic crashes involving motorcycles. In these incidents, 255 (3.5%) resulted in a fatality and 1,683 (23.0%) resulted in someone being seriously injured in the crash. These figures demonstrate the overrepresentation of motorcycles in fatal and serious injury crashes.

An area of particular concern is the number of unlicensed and improperly licensed motorcyclists involved in crashes. Between 2012-2014, 22.8% of the 7,317 motorcycle involved traffic crashes involved an unlicensed or improperly licensed motorcycle driver. In fatal crashes, 40.0% involved an unlicensed or improperly licensed motorcycle driver, while 28.2% of the serious injury crashes involved an unlicensed or improperly licensed motorcycle driver.



### 2012-2014 Statewide Motorcycle Involved Crashes 7,317

In most instances, motorcycle drivers and/or their passengers are the ones killed and seriously injured when they are involved in a traffic crash. Of the 265 persons killed in motorcycle-involved crashes (2012-2014), 261 (98.5%) were motorcycle riders and 4 (1.5%) were some other person in the incident. Of the 1,823 seriously injured (2012-2014), 1,788 (98.1%) were the motorcycle riders while only 35 (1.9%) were some other person in the incident.



### 2012-2014 Statewide Fatalities & Serious Injuries Motorcycle Involved

A significant number of motorcyclists and their passengers killed and seriously injured in Missouri traffic crashes are middle age. Of those killed, 41.8% were between the ages of 41-60 and 44.9% of those seriously injured were in this age group.

### 2012-2014 Statewide Motorcycle Drivers and Passengers Killed and Seriously Injured in Missouri Traffic Crashes

		KILLED		SERI	OUSLY IN	JURED	TO	[AL
			Unhelmeted /Non- Compliant			Unhelmeted/ Non- Compliant		
Age	Number	%	Helmet	Number	%	Helmet	Number	%
00 - 20	9	3.4%	1	129	7.2%	42	138	6.7%
21 - 40	112	42.9%	26	668	37.4%	140	780	37.7%
41 - 60	109	41.8%	39	802	44.9%	161	911	44.5%
61 and Over	31	11.9%	3	185	10.3%	26	216	10.5%
Unknown age	0	0.0%	0	4	0.2%	1	4	0.2%
Total	261	100.0%	69	1,788	100.0%	370	2,049	99.6%

(Age by Personal Injury Severity)

8 motorcyclists who were killed had an unknown helmet useage. 111 motorcyclists who were seriously injured had an unknown helmet usage.

### **GOAL #1:**

To decrease motorcyclist fatalities to 84 by 2016:

2013	2014	2015
98	93	89

#### Performance Measure:

Number of motorcyclist fatalities

#### **Benchmark**:

 Number of 2012 motorcyclist fatalities = 102 (72 in 2013) (87 in 2014)

### **GOAL #2:**

To decrease un-helmeted or non-DOT-compliant helmeted motorcyclist fatalities to 21 by 2016 (does not include fatalities where helmet use was "unknown"):

2013	2014	2015
25	24	22

#### Performance Measure:

• Number of un-helmeted or non-DOT compliant helmeted motorcyclist fatalities (only those fatalities where helmet use was known)

#### **Benchmark**:

Number of 2012 un-helmeted or non-DOT-

#### **STRATEGIES**

compliant helmeted motorcyclist fatalities = 26 (21 in 2013) (22 in 2014)

### **GOAL** #3:

To decrease fatalities involving motorcycle operators who are not licensed or improperly licensed to 40 by 2016:

2013	2014	2015
46	43	41

#### **Performance Measure:**

• Number of fatalities involving motorcycle operators with no license or improperly licensed

#### **Benchmark**:

• 2012 fatalities involving a motorcycle operator with no license or improperly licensed = 48 (24 in 2013) (33 in 2014) 1. Continue support for the Missouri Motorcycle Safety Program administered by the Missouri Safety Center at University of Central Missouri

2. Continue to provide motorcycle rider education statewide in order to train 4500+ riders annually

3. Conduct RiderCoach (Instructor) Preparation courses as needed in order to train and expand the base of certified motorcycle RiderCoaches to meet demand

4. Actively participate in the Motorcycle Safety Subcommittee of the Missouri Coalition for Roadway Safety

5. Implement, where possible, strategies in the Missouri Motorcycle Strategic Safety Plan 2012-2016

6. Create and distribute Missouri helmet law cards to law enforcement statewide on detecting non-compliant helmets

7. Continue working with numerous grass-roots motorcycle safety groups in promoting the "Watch for Motorcycles" message throughout the state





## MOTORCYCLE CRASHES

## Who

## 2012-2014 Fatalities by Age:

		Percent of
		Total
Age	Fatalities	Fatalities
0-9	0	0.00%
10-19	5	1.92%
20-29	61	23.37%
30-39	50	19.16%
40-49	54	20.69%
50-59	58	22.22%
60-69	27	10.34%
>=70	6	2.30%
Total	261	100.00%

Includes drivers/passengers of motorcycles.

## Where

### 2012-2014 Fatalities by Roadway Designation

		Percent of
		Total
Roadway Desg.	Fatalities	Fatalities
Interstates	19	7.28%
US Numbered Routes	28	10.73%
MO Lettered Routes	55	21.07%
MO Numbered Routes	68	26.05%
Loop (Interstates only)	3	1.15%
Business	2	0.77%
City Street	52	19.92%
Ramp	3	1.15%
County Road	25	9.58%
Outer Road	4	1.53%
Private	2	0.77%
Total	261	100.00%

# What

## 2012-2014 Vehicle Body Types Involved in Fatal Motorcycle Crashes

	Vehicle	
	Body	Percent of
	Туре	Total
Vehicle Type	Involved	Fatalities
Passenger Car	62	14.55%
SUV	37	8.69%
Van	5	1.17%
Other Bus	1	0.23%
School Bus	3	0.70%
Const. Equip.	1	0.23%
Pick Up	38	8.92%
Motorcycle	264	61.97%
Large Trucks	15	3.52%
Total	426	100.00%

## When

		Percent of Total
Time	Fatalities	Fatalities
Midnight - 5:59 am	28	10.73%
6:00 am - 11:59 am	45	17.24%
Noon - 5:59 pm	95	36.40%
6:00 pm - 11:59 pm	93	35.63%
Total	261	100.00%



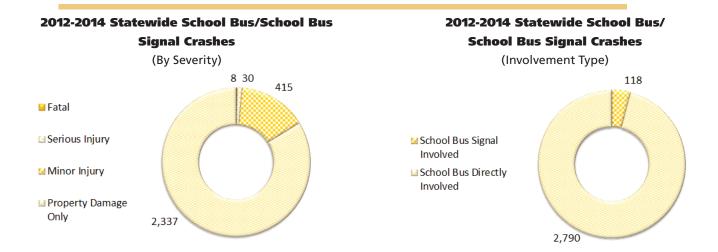
## **CRASHES INVOLVING SCHOOL BUSES**

#### Background

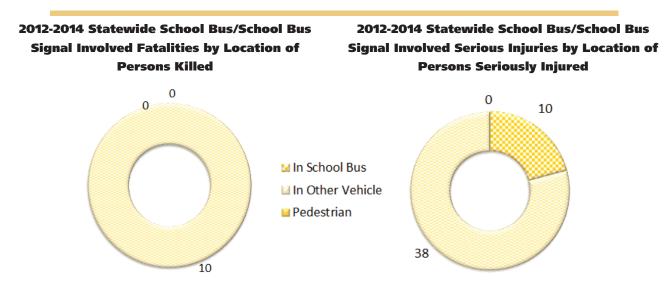
Although school buses provide one of the safest modes of transportation, there are still school bus related injuries and, unfortunately, some fatalities every year. Some of these are due to crashes with other vehicles while others are due to the school bus striking a pedestrian or bicyclist. The responsibility borne by school bus drivers is considerable.

A vehicle must meet safety standards that are appropriate for its size and type because different types of vehicles perform differently in a crash. For example, because a large school bus is heavier than most other vehicles, its weight can protect its occupants from crash forces better than a light vehicle such as a passenger car. The passive protection engineered into large school buses, combined with other factors such as weight, provides passenger protection similar to that provided by safety devices in passenger cars. Both types of vehicles protect children from harm but in different ways. Many school buses throughout Missouri are now equipped with 3-point safety belts. This safety enhancement, when properly used, provides additional protection in the event of a crash.

School buses are not involved in a large number of traffic crashes in Missouri. Of all 2012-2014 Missouri traffic crashes, 0.7% involved a school bus or school bus signal. In 95.9% of the school bus crashes, a school bus was directly involved in the crash and in 4.1% of the crashes, no school bus was directly involved but a school bus signal was involved.



Of the 10 persons killed during 2012-2014 in crashes involving school buses, no bus occupants or pedestrians were killed. All 10 of the fatalities were some other person in the incident. Of the 48 persons seriously injured, 10 were occupants of the school bus, no pedestrians were seriously injured, and 38 were some other person in the incident.



A significant number of persons killed or seriously injured in crashes involving school buses are young.

	IN BUS		PEDESTRIAN		IN OTHER VEHICLE	
Age	Killed	Serious Injuries	Killed	Serious Injuries	Killed	Serious Injuries
0-4	0	1	0	0	0	0
5-8	0	1	0	0	0	2
9-20	0	5	0	0	1	10
21+	0	3	0	0	9	26
Unknown	0	0	0	0	0	0
Total	0	10	0	0	10	38

### **GOAL #1:**

To decrease or maintain fatalities involving school buses or school bus signals to 2 by 2016:

2013	2014	2015
3	3	2

#### **Performance Measure:**

• Number of fatalities occurring in crashes involving school buses or school bus signals

#### **Benchmark:**

• 2012 fatalities occurring in crashes involving school buses or school bus signals = 3

(3 in 2013) (4 in 2014)

### **GOAL #2:**

To decrease serious injuries involving school buses or school bus signals to 12 by 2016:

2013	2014	2015
14	14	13

### **Performance Measure:**

• Number of serious injuries occurring in crashes involving school buses or school bus signals

#### **Benchmark:**

• 2012 serious injuries occurring in crashes involving school buses or school bus signals = 15

(19 in 2013) (14 in 2014)

#### **STRATEGIES**

1. Support and implement, if feasible, recommendations made by the 2005 Governor's School Bus Task Force

2. Continue to serve on any state school bus safety committees

3. Expand current public awareness materials to address seat belts on school buses, compartmentalization of school buses, general safety issues regarding riding a school bus, safety around the loading zones and sharing the road with school buses





## **CRASHES INVOLVING SCHOOL** BUSES

## Who

## 2012-2014 Fatalities by Age:

		<b>D</b>
		Percent of
		Total
Age	Fatalities	Fatalities
0-9	0	0.00%
10-19	0	0.00%
20-29	2	20.00%
30-39	2	20.00%
40-49	2	20.00%
50-59	2	20.00%
60-69	1	10.00%
>=70	1	10.00%
Total	10	100.00%

Includes everyone killed in crashes involving a school bus or school bus signal.

## Where

### 2012-2014 Fatalities by Roadway Designation

		Descent
		Percent of
		Total
Roadway Desg.	Fatalities	Fatalities
Interstates	0	0.00%
US Numbered Routes	2	20.00%
MO Lettered Routes	5	50.00%
MO Numbered Routes	1	10.00%
Loop (Interstates only)	0	0.00%
Business	0	0.00%
City Street	1	10.00%
Ramp	0	0.00%
County Road	0	0.00%
Outer Road	1	10.00%
Other	0	0.00%
Total	10	100.00%

## What

## 2012-2014 Vehicle Body Types Involved in Fatal School Bus/Bus Signal Crashes

	Vehicle	
	Body	Percent of
	Туре	Total
Vehicle Type	Involved	Fatalities
SUV	1	5.56%
Van	1	5.56%
School Bus	8	44.44%
Motorcycle	5	27.78%
Pick Up	3	16.67%
Total	18	100.00%

## When

		Percent of Total
Time	Fatalities	Fatalities
Midnight - 5:59 am	0	0.00%
6:00 am - 11:59 am	5	50.00%
Noon - 5:59 pm	5	50.00%
6:00 pm - 11:59 pm	0	0.00%
Total	10	100.00%



## VULKERABLE ROADWAY USERS

#### Background

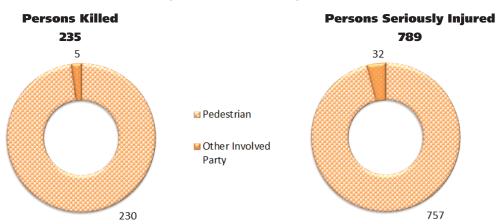
Many Missourians rely on non-motorized means of transportation such as walking and bicycling. Both of these modes have the ability to provide physical and health benefits, but they also have the potential for serious or fatal injuries in the event of a crash. Crashes involving pedestrians and bicyclists do not occur in extremely large numbers (1.0% and 0.4% of all crashes, respectively) but when a pedestrian or bicyclist is involved in a traffic crash, the potential for harm is much greater.

Pedestrians and bicyclists alike need to understand that they have primary responsibility for their own safety; however, the motoring public also has a responsibility to share the road in a safe manner with these vulnerable road users. This is especially true since many pedestrians and bicyclists are children who often lack the knowledge or skills to interact safely in traffic.

#### PEDESTRIANS

For the period 2012-2014, there were 232 fatal pedestrian-involved crashes and 744 serious injury pedestrianinvolved crashes. During that three-year period, of the 235 persons killed in pedestrian involved crashes, 230 (97.9%) were the pedestrians. Of the 789 seriously injured in pedestrian involved crashes, 757 (95.9%) were the pedestrians.

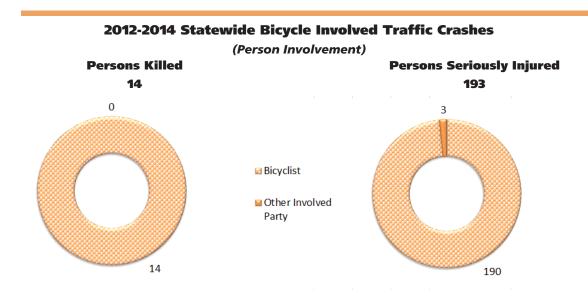




### 2012-2014 Statewide Pedestrian Involved Traffic Crashes (Person Involvement)

#### BICYCLISTS

For the period 2012-2014, there were 14 fatal bicycle-involved crashes and 191 serious injury bicycle-involved crashes. For that same three-year period, of the 14 persons killed in bicycle-involved crashes, all were the bicyclists. Of the 193 persons seriously injured in bicycle-involved crashes, 190 (98.4%) were the bicyclists.



#### **GOAL #1:**

To decrease pedestrian fatalities to 71 by 2016:

2013	2014	2015
82	78	75

#### **Performance Measure:**

Number of pedestrian fatalities

#### **Benchmark**:

• 2012 pedestrian fatalities = 86 (75 in 2013) (69 for 2014)

### **GOAL #2:**

To decrease or maintain bicyclist fatalities to 4 by 2016:

2013	2014	2015
6	5	5

#### **Performance Measure:**

- Number of bicyclist fatalities
- **Benchmark**:
- 2012 bicyclist fatalities = 6 (4 in 2013)
   (4 in 2014)

#### **STRATEGIES**

1. Educate the motoring public on sharing the road safely with pedestrians and bicyclists

2. Educate pedestrians and bicyclists on safely interacting with motor vehicles

3. Purchase helmets for distribution at exhibits and for school/local safety awareness programs

4. Promote bicycle safety events/awareness programs at the local level utilizing the Safe Communities programs and the Missouri Coalition for Roadway Safety regional coalitions

5. Partner with law enforcement agencies to focus on pedestrian/bicycle safety education

6. Partner with law enforcmenet agenices to focus on driver safety around pedestrians and bicyclists



## **VULKERABLE ROADWAY USERS -Pedestrians**

## Who

## 2012-2014 Fatalities by Age:

		Percent of
		Total
Age	Fatalities	Fatalities
0-9	15	6.52%
10-19	18	7.83%
20-29	47	20.43%
30-39	25	10.87%
40-49	33	14.35%
50-59	43	18.70%
60-69	19	8.26%
>=70	30	13.04%
Total	230	100.00%

Includes all pedestrians.

## Where

## 2012-2014 Fatalities by Roadway Designation

		Percent of
		Total
Roadway Desg.	Fatalities	Fatalities
Interstates	52	22.61%
US Numbered Routes	33	14.35%
MO Lettered Routes	14	6.09%
MO Numbered Routes	56	24.35%
Loop (Interstates only)	6	2.61%
Business	2	0.87%
City Street	50	21.74%
Ramp	1	0.43%
County Road	12	5.22%
Outer Road	3	1.30%
Other	1	0.43%
Total	230	100.00%

## What

## 2012-2014 Vehicle Body Types Involved in Fatal Pedestrian Crashes

	Older	
	Vehicle	
	Body	Percent of
	Туре	Total
Vehicle Type	Involved	Fatalities
Passenger Car	104	42.45%
SUV	42	17.14%
Van	11	4.49%
School Bus	2	0.82%
Motorcycle	1	0.41%
Farm Imp.	1	0.41%
Construction Equip	1	0.41%
Other/Unknown	7	2.86%
Pick Up	57	23.27%
Large Trucks	19	7.76%
Total	245	100.00%

## When

Time Midnight - 5:59 am	Fatalities 52	Percent of Total Fatalities 22.61%
6:00 am - 11:59 am	30	13.04%
Noon - 5:59 pm	44	19.13%
6:00 pm - 11:59 pm	104	45.22%
Total	230	100.00%



## VULNERABLE ROADWAY USERS -**Bicyclists**

## Who

## 2012-2014 Fatalities by Age:

		Percent of
		Total
Age	Fatalities	Fatalities
0-9	0	0.00%
10-19	4	28.57%
20-29	2	14.29%
30-39	3	21.43%
40-49	2	14.29%
50-59	1	7.14%
60-69	0	0.00%
>=70	2	14.29%
Total	14	100.00%

Includes all bicyclists.

## Where

### 2012-2014 Fatalities by Roadway Designation

-	1	
		Percent of
		Total
Roadway Desg.	Fatalities	Fatalities
Interstates	1	7.14%
US Numbered Routes	2	14.29%
MO Lettered Routes	1	7.14%
MO Numbered Routes	2	14.29%
Loop (Interstates only)	0	0.00%
Business	1	7.14%
City Street	6	42.86%
Ramp	0	0.00%
County Road	0	0.00%
Outer Road	1	7.14%
Other	0	0.00%
Total	14	100.00%

## What 2012-2014 Vehicle Body Types Involved in Fatal Bicycle Crashes

	Older	
	Vehicle	
	Body	Percent of
	Туре	Total
Vehicle Type	Involved	Fatalities
Passenger Car	6	37.50%
SUV	6	37.50%
Van	0	0.00%
School Bus	0	0.00%
Motorcycle	0	0.00%
ATV	0	0.00%
Motor Home	0	0.00%
Farm Imp.	0	0.00%
Other/Unknown	0	0.00%
Pick Up	1	6.25%
Large Trucks	3	18.75%
Total	16	100.00%

## When

		Percent of
		Total
_		
Time	Fatalities	Fatalities
Midnight - 5:59 am	2	14.29%
6:00 am - 11:59 am	1	7.14%
Noon - 5:59 pm	4	28.57%
6:00 pm - 11:59 pm	7	50.00%
Total	14	100.00%

## ENGINEERING SERVICES & DATA COLLECTION

#### **ENGINEERING SERVICES**

Engineering is a vital component of a comprehensive approach to improve highway safety. The techniques and strategies engineers use to design and improve roads can have a direct impact on the safety of motorists. Engineering countermeasures to improve safety can be implemented during the design of a roadway or in modifications after a road has already been built. During design, engineers strive to create a roadway environment that mitigate traffic crashes from the start. This can be achieved in various aspects of design: lane widths, the use of shoulders, curve design, signing, striping, rumble strips, etc. However, some roads were designed long before today's safety countermeasures were discovered. As a result, many roads will often be retrofitted to include safety enhancements such as rumble strips, brighter signs and pavement marking, and intersection improvements.

One of the most successful examples of this in Missouri is the statewide application of paved shoulders and rumble stripes on Missouri's most heavily traveled roads. Over 10,000 miles of rumble stripes have been installed. Rumble stripes have proven very beneficial in reducing crashes in which a vehicle leaves its lane or the roadway, one of Missouri's most common severe crash types. Roundabouts and J-Turn intersections are successful examples of how intersections can be improved to eliminate or greatly reduce right angle crashes, another common severe crash type in Missouri.

### TRAFFIC ENGINEERING ASSISTANCE PROGRAM (TEAP)

IIt is often necessary for cities and counties to obtain the services of private consulting engineering firms to aid them in correcting safety and operational concerns on local streets and highways. Correction of these problems can require detailed assessment of traffic crash analysis, traffic counts, speed surveys, minor origin and destination studies, non-rapid transit studies, parking supply and demand studies, capacity analysis, lighting analysis and design, traffic control devices (inventory and layout), or traffic signal progression analysis and design. Most cities and counties do not have the personnel with expertise in these areas to perform the necessary analysis. (This is not a complete list of the studies a traffic engineering consultant may be called upon to perform.) This is a support problem where methods of correcting a particular situation must first be examined and determined before they can be



implemented or evaluated for effectiveness. In order to provide assistance in this area, the Highway Safety Office allocates funding for consultants to perform this service for the local jurisdictions.

#### TRAINING

Support is also provided for traffic engineering forums and technology transfer to enhance the ability of the local communities to develop crash countermeasures. This is accomplished through training workshops and conferences funded through the Missouri Department of Transportation.

#### **DATA COLLECTION**

Each state has developed, to varying degrees, systems for the collection, maintenance and analysis of traffic safety data. Motor vehicle crash data tells us about the characteristics of the crash and the vehicles and persons involved. Crash data elements describe the date, time, location, harmful events, type of crash, weather, and contributing circumstances. Vehicle data elements describe the vehicle in terms of the make, year, type, role, actions, direction, impact, sequence of events, and damaged areas. Person data elements describe all persons involved by age, sex, injury status, and type. Additional information describing the vehicle number, seating position, use of safety equipment, driver status information, non-motorist status, alcohol/drug involvement, and EMS transport status is collected when relevant to the occupants involved.

#### STARS MAINTENANCE AND TRAFFIC SAFETY COMPENDIUM

The traffic safety program supports maintenance of the Statewide Traffic Accident Reporting System (STARS), which is the repository for all crash statistics. The Missouri State Highway Patrol started electronically filing crash reports in 2007. Approximately 45% of crash reports are now entered electronically into the STARS system. Revision of the crash report form has been completed with training provided annually. The form became effective on January 1, 2012. The Traffic Safety Compendium is compiled from statistics collected in STARS and is available in .pdf format. Without this vital component, it would be difficult to develop a comprehensive plan based on consistently reported crash data especially as it relates to contributing circumstances that caused the crash. This crash information is shared with MoDOT's Traffic and Highway Safety Division.

#### LAW ENFORCEMENT TRAFFIC SOFTWARE (LETS)

This web-based computerized system for collection and comprehensive management of traffic data provides on-line information concerning traffic activities and needs for local law enforcement agencies. LETS allows agencies to track crash occurrences, deploy enforcement efforts, design crash countermeasure programs, and develop customized reports. The LETS software also allows agencies to electronically transfer crash data to the STARS database.

### SELECTION OF TRAFFIC RECORDS COORDINATING COMMITTEE (TRCC) PROJECTS

The TRCC plays a role in the creation, approval and evaluation of the data improvement projects. The TRCC consists in developing initial project proposals as well as discusses the proposals openly in the TRCC monthly meetings. The TRCC through the discussion of proposed projects, prioritize the projects and determine the funding sources. Once the project begins, the TRCC provides additional guidance on the projects activities.

Projects are selected based on recommendations from the most current assessments and their ability to meet six characteristics: timeliness, accuracy, integration, uniformity, accessibility and completeness.

These projects are evaluated on an annual basis to ensure they are in compliance with project milestones and their ability to improve the states traffic records data systems.

### **GOAL #1:**

To assure there is a robust traffic data system available to assist all data users in development of appropriate traffic safety countermeasures

### Performance Measure:

Percent of all crash reports filed electronically through LETS into the STARS system.

Ability to track positive or negative trends in traffic crashes by target populations, geographic location, driver subgroups, and causation factors

#### **Benchmark**:

In 2009, local law enforcement agencies began electronically submitting crash reports through LETS.

### **GOAL #2:**

To provide adequate training on an annual basis that will support and enhance the ability of state and local agencies in developing accident countermeasures

### **Performance Measure:**

Continue partnership with Mid America Regional Council to conduct road safety audits with law enforcement

### **Benchmark:**

Conduct one road safety audit with law enforcement

## **BENCHMARKS:**

Α. Provide consultant assistance to local communities for traffic engineering assessments

Β. Provide consultant assistance to local communities for bridge engineering assessments

C. Provide training for engineering professionals at workshops and the Annual Traffic Conference (number of attendees depends upon conference costs which is based on location and travel constraints)

D. Provide an effective, efficient software system for capturing local law enforcement crash data

Provide an effective, efficient web-based high-Ε.

### **STRATEGIES**

Encode all crash reports into the STARS system, 1. ensuring accuracy and efficiency, and provide equipment to support STARS maintenance

2. Utilize statistics gathered from STARS to assist MoDOT's Traffic and Highway Safety Division and local communities in developing problem identification

Provide expertise and funding to assure com-3. munities are in compliance with uniform traffic codes and that the bridges within their jurisdictions are upgraded in terms of their safety

4. Provide training to assure state and local engineers are kept abreast of current technology

5. Continue LETS software improvement and training – train users on accessing and utilizing LETS system, log users into the system, and provide help desk through REJIS

6. Continue to serve on the Traffic Records Coordinating Committee and assist in the redevelopment of the Missouri Traffic Records Strategic Plan

7. Continue to emphasize linkage capability within the traffic records data systems to generate merged records for analytic purposes.

8. Implement recommendations of the 2015 Traffic Records Assessment into the statewide strategic plan (as required in Section 405C implementing guidelines)

Continually refine and enhance Missouri's data 9. collection and analysis systems in order to produce tables and reports that provide standardized exposure data for use in developing traffic safety countermeasure programs

10. Promote use of the online law enforcement mobilization reporting system

Collaborate with the Missouri State Highway 11. Patrol to assure that Missouri's traffic crash report form complies with MMUCC standards.

12. Maintain and improve, as needed, a totally web-based Highway Safety grants management system working in conjunction with the Highway Safety Office, REJIS, and MoDOT's Information Technology Division



### **Final Report**

### 6-150205LK

## **Highway Safety Drivers Survey**

Prepared for Missouri Department of Transportation Organizational Results

By

Lance Gentry



HEARTLAND

May 5, 2015

The opinions, findings, and conclusions expressed in this publication are those of the principal investigators and the Missouri Department of Transportation. They are not necessarily those of the U.S. Department of Transportation, Federal Highway Administration. This report does not constitute a standard or regulation.

## TECHNICAL REPORT DOCUMENTATION PAGE

1. Report No. 6-150205LK	2. Government Acces	ssion No.	3. Recipient's Catalog N	No.
4. Title and Subtitle	ł		5. Report Date	
			May 5, 2015	
Highway Safety Drivers Survey			6. Performing Organiza	tion Code
7. Author(s)			8. Performing Organiza	tion Report No.
Lance C. Gentry, Ph.D., M.B.A.				
9. Performing Organization Name and Addr	ess		10. Work Unit No.	
Heartland Market Research LLC			11. Contract or Grant N	lo. 6-150205LK
1405 Hawkins Meadow Drive				
Fenton, MO 63026-7222				
12. Sponsoring Agency Name and Address			13. Type of Report and Final Report	Period Covered
Missouri Department of Transportation			14. Sponsoring Agency	Code
Research, Development and Technology				
P. O. Box 270-Jefferson City, MO 65102				
15. Supplementary Notes				
The investigation was conducted in cooperat	ion with the U.S. Departi	ment of Transport	ation, Federal Highway	Administration.
16. Abstract				
Missouri drivers were surveyed to capture th as seat belt usage, speeding issues, cell phone entire state, and by district (stratified), and w age distributions. Results are also compared	e use while driving, and a reighted proportionally to	lcohol impaired d	riving. The results are p	presented for the
17. Key Words		18. Distribution	Statement	
Driver survey, highway safety, seat belts, spe	eeding, driving under the		This document is availab	
influence (DUI), cell phones		through National	Technical Information	Center,
		Springfield, Virg		
	20. Security Classification	on (of this page)	21. No. of Pages	22. Price
Unclassified	Unclassified			

Form DOT F 1700.7 (06/98)

## **Table of Contents**

LIST OF TABLES	II
EXECUTIVE SUMMARY	1
INTRODUCTION	5
OBJECTIVE	5
TECHNICAL APPROACH	5
RESULTS AND DISCUSSION (EVALUATION)	6
Seat Belt Usage Speeding Issues Cell Phone Use While Driving Alcohol Impaired Driving	
PRINCIPAL INVESTIGATOR AND PROJECT MEMBERS	22
WORKS CITED	23
APPENDIX A: WORK PLAN	A1
APPENDIX B: SURVEY SCRIPT	B1
Phone Survey Script	B1
APPENDIX C: ADDITIONAL FINDINGS: CROSSTABS OF INTEREST	C1
RESEARCH QUESTIONS BY DISTRICT RESEARCH QUESTIONS BY RURAL/URBAN	
APPENDIX D: DEMOGRAPHICS	D1

## List of Tables

Table 1: Survey Margin of Error	6
Table 2: Statewide Seatbelt Usage	7
Table 3: Secondary vs. Primary Law	
Table 4: Statewide Support for Increasing Fine for Violating Seat Belt Law	10
Table 5: Respondent Input on Increasing Fine	10
Table 6: Seat Belt Law Enforcement Publicity Awareness	
Table 7: Perceived Chance of Obtaining Ticket for Violating Seat Belt Laws	11
Table 8: Speeding in 30 MPH Zones	12
Table 9: Speeding in 70 MPH Zones	
Table 10: Speeding Enforcement Publicity Awareness	15
Table 11: Perceived Chance of Obtaining Ticket for Speeding	
Table 12: Frequency of Talking while Driving	
Table 13: Frequency of Texting while Driving	
Table 14:         Statewide Opinions Regarding Cell Phone Restrictions	
Table 15: Statewide Drinking Behavior before Driving	
Table 16: DUI Enforcement Publicity Awareness	
Table 17: Perceived Chance of Arrest after DUI	
Table 18: Timeline for 2015 Surveys	
Table 19: Margin of Error by District	
Table 20: District by Question 1	
Table 21: District by Question 2	
Table 22: District by Question 3	
Table 23: District by Question 3b         Table 24: District by Question 3b	
Table 24: District by Question 4	
Table 25: District by Question 5       Table 26: District by Question 5	
Table 26: District by Question 6         Table 27: District by Question 7.	
Table 27: District by Question 7         Table 28: District by Question 8	
Table 28: District by Question 8	
Table 30: District by Question 10	
Table 30: District by Question 10	
Table 31: District by Question 11	
Table 33: District by Question 13	
Table 35: District by Question 15       Table 34: District by Question 14	
Table 35: District by Question 15	C17
Table 35: District by Question 15.         Table 36: District by Nielson Community Type.	
Table 37: Nielson Community Type by Question 1	C19
Table 38: Nielson Community Type by Question 2	
Table 39: Nielson Community Type by Question 3	
Table 40: Nielson Community Type by Question 3b	
Table 41: Nielson Community Type by Question 4	
Table 42: Nielson Community Type by Question 5	
Table 43: Nielson Community Type by Question 6	
Table 44: Nielson Community Type by Question 7	
Table 45: Nielson Community Type by Question 8	.C27
Table 46: Nielson Community Type by Question 9	
Table 47: Nielson Community Type by Question 10	
Table 48: Nielson Community Type by Question 11	
Table 49: Nielson Community Type by Question 12	
Table 50: Nielson Community Type by Question 13	
Table 51: Nielson Community Type by Question 14	
Table 52: Nielson Community Type by Question 15	.C34
Table 53: Question a	
Table 54: Question b	D1

Table 55:	Question c	D1
	Question d	
	Question e	
	Question f	
	Question g	
	Question h	

### **Executive Summary**

### **Highway Safety Findings**

This research project surveyed 2,502 adult Missouri drivers in March 2015 to capture their current attitudes and awareness of specific items concerning highway safety such as seat belt usage, speeding issues, cell phone use while driving, and alcohol impaired driving. The research was designed so that in addition to providing a statewide result, statistically useful information was also available at the district level.

Special emphasis was placed on ensuring that the sample reflected Missouri's geographic, age, and gender diversity. People were surveyed from 113 counties as well as the independent city of St. Louis. Residents from 620 different zip codes are represented. The typical market research survey practice of alternatively asking for either the oldest or youngest adult was not employed. Instead, the calling center was given specific goals for each age group and gender within various geographic areas to ensure the most representative sample possible.

### Seat Belt Findings

83.1% of Missouri drivers claimed to always use their seat belts, statistically identical to the results from the previous four years. In 2015 those least likely to wear seat belts when driving or riding in a car, van, sport utility vehicle, or pick up were males of at least 50 years of age who primarily drove either a motorcycle or a pick up. Those who lived in areas classified as relatively urbanized were most likely to wear their seat belts whereas those who lived in either very rural location or in very urban areas such as St. Louis were less likely to wear seat belts.

A majority (54.6%) of the respondents prefer to keep Missouri's seat belt law a secondary law, similar to the findings from recent years. Likewise, a slight majority (51.6%) preferred to leave the penalty for violating the law unchanged. All responses were statistically identical to those from the previous year. Out of the minority who favored increasing the fine, a plurality (44.0%) thought the fine should range from \$25 to \$49. The second largest group (20.0%) thought the fine should range from \$50 to \$74. These were also the two largest groups the last five years out of the minority who wished to increase the fine.

The vast majority of the respondents (82.4%) were not aware of any publicity concerning seat belt law enforcement. While statistically similar to the previous year, this continued a downward trend in awareness since 2010. There may be several reasons for this trend. First of all, people have many more options for their free time, making it much more difficult to reach them. People have access to more video and audio options than ever before, many of which are now available directly over the internet making local advertising very challenging. Secondly, this research measures the statewide perception on the issues being discussed. However, MoDOT may spend its marketing efforts targeting citizens at special risk. If so, any report of the statewide results will underestimate the effectiveness of publicity efforts as the responses from the citizens not being targeted make up a significant portion of the overall measure captured by this research. Finally, the timing of this research makes the current survey methodology a poor instrument for measuring the effectiveness of MoDOT's seat belt safety awareness campaign which last took place in May 2014, approximately 10 months before respondents were surveyed.

### **Speeding Findings**

72.4% of Missouri drivers stated they never or rarely drive more than 35 mph when the speed limit is 30 mph less than the 86.8% of Missouri drivers who stated they never or rarely drive more than 75 mph when the speed limit is 70 mph on local roads. Both findings were similar to those found in 2014.

In 2015, females between 18 to 29 were more likely to speed on roads with speed limits of 30 mph compared to other groups. Women between 30 and 49 and men between 30 and 64 were more likely to speed on roads with speed limits of 70 mph. All age and gender segments were more likely to speed on roads with a 30 mph speed limit than roads with a 70 mph speed limit. In a change from last year, this was not true of motorcyclists. While they remain the group most likely to speed on roads with a speed limit of 70 mph, this year motorcyclists stated they were less likely to speed on roads with speed limits of 30 mph than drivers of other vehicles. It is important to understand that the sample size of motorcyclists is very small, thus there is likely to be greater variation from year to year in this group. In keeping with the findings since 2010, there was no correlation between speeding and any publicity about relevant law enforcement activities; nor was there any correlation between speeding and the respondent's perception of the chance of being caught.

The majority (73.3%) of Missouri drivers were unaware of any recent publicity regarding speed enforcement. This was virtually identical to the findings from the previous two years. Two-thirds (66.6%) of Missouri drivers thought their chances of receiving a ticket if they speed were at least fifty percent. This was also similar to the findings since 2011.

### **Cell Phone Findings**

88.4% of Missouri drivers stated they rarely or never talk on a cell phone while driving. 11.2% of Missourians talk at least half of the time they drive. 99.1% of Missouri drivers stated they rarely or never text on a cell phone while driving. These numbers are statistically identical to the findings from last year.

92.5% of Missouri drivers favored some type of restriction on how people could use cell phones while driving. 29.9% favored banning all cell phone use by drivers, while a majority (62.6%) wanted to ensure drivers could still use cell phones for talking while seeing the need for some restrictions. These results were similar to previous findings and continue a downward trend in the number of people who support a complete ban on cell phone use while driving.

In 2015 women 65 and older were the least likely to drive while talking on a cell phone whereas females from 30 to 49 where the most likely group to talk on a cellular phone while driving. However, at just under 18% (17.9% for women 30 to 39 and 17.8% for women 40 to 49), this is significantly lower than the measures recorded in previous years. Self-reported texting while driving also continued to decline. In 2015, males 40 to 49 were the most likely age/gender segment to text while driving and only 2% of this group said they did so at least 50% of their driving time.

### **DUI Findings**

89.4% of Missouri drivers stated that they had not driven a vehicle within two hours of consuming an alcoholic beverage anytime in the last sixty days. This is similar to last year's findings. 8.1% of Missouri drivers admitted to having done so at least once in the last sixty days. Another 2.5% refused to answer the question.

Heartland Market Research concluded that approximately 10.6% of Missouri drivers have driven under the influence of alcohol in the last sixty days. Considering the margin of error, this is similar to the findings that have been measured most years of this study (11.5% in 2010, 18.7% in 2011, 8.3% in 2012, 12.7% in 2013, and 9.3% in 2014). Out of those who admitted to drinking before driving, the average driver did so about three times in the last sixty days (average of 3.1 times). This is the lowest amount recorded since Heartland became involved with this research in 2010. It compares to an average of 3.6 times in 2014 and 2013, 5.5 times in 2012, 6.2 times in 2011, and an average of 5.2 times in 2010.

Similar to last year, in 2015 males 65 years of age and older were most likely to drive under the influence of alcohol, closely followed by males 40 to 49 years of age. For every age category, women were less likely to drive under the influence of alcohol than males. Motorcyclists and pickup truck drivers were more likely to drive under the influence than drivers of other vehicles. Drivers of other types of trucks, closely followed by van/minivan drivers, were least likely to drive after consuming alcohol than residents of less populated areas. While awareness of DUI enforcement was not correlated with stated behavior, the expectation of being ticketed reduced the likelihood of DUI behavior similar to the results in 2014, 2013, and 2011.

Approximately half (47.2%) of Missouri drivers were aware of recent publicity regarding DUI enforcement. This was similar to the findings of the previous years. The timing of this survey made these results intriguing. Before 2013, this survey has been conducted in the summer (typically in June). In 2013 the survey was conducted in March, in 2014 the survey was conducted in April, and in 2015 the survey was conducted in March. Results were quite consistent despite the variation in timing.

#### **Recommended Improvements for This Research Program**

This survey instrument used in this study is remarkably accurate. As detailed within, the self-reported behavior for seat belt usage from this research was compared to an observational study. The difference between the two studies was approximately the combined margin of error of the two efforts. However, while this comparison supports the accuracy of the research methodology, current practice is not well suited for determining the effectiveness of MoDOT's various public safety campaigns. For example, MoDOT conducts most of its "Click It or Ticket" outreach in May compared to offering multiple campaigns about DUI throughout the year. Since the current survey asks about consumer awareness for the last 30 to 60 days, it is not surprising that awareness of DUI enforcement (47.2%) is much higher than awareness of seat belt enforcement (17.5%). Thus in the case of the seat belt enforcement awareness question, the better a person recalls when a campaign was conducted, the more likely the person is to answer no and give the impression that the campaign was ineffective.

**Recommendation 1:** The three enforcement awareness questions should be reworded to be internally consistent and cover a longer period of time. Specifically, these questions should ask about the last six months instead of the current 60 days for one question and 30 days for two questions. In addition, they questions should be more specific where feasible (e.g., instead of simply asking about seat belt law enforcement, include "Click It or Ticket" in the question).

The three awareness questions cover seat belt enforcement, speeding enforcement, and DUI enforcement. Chronologically, MoDOT uses two different tactics to publicize seat belt enforcement and DUI enforcement. MoDOT currently makes an annual effort to publicize "Click It or Ticket" in May for seat belt enforcement compared with several campaigns throughout the year for DUI enforcement ("Drive Sober or Get Pulled Over" in March and August/September along with the "Choose Your Ride" in November/December).

**Recommendation 2:** Ideally, MoDOT split the current sample size into thirds and conduct the survey three times throughout the year (e.g., February, June, and October). The cost of conducting three smaller surveys would be similar to one larger survey and this would also allow MoDOT to track awareness of the three enforcement efforts throughout the year. Alternatively, MoDOT could keep the survey as an annual survey, but move it to June.

#### **Other Recommendations for MoDOT**

**Recommendation 3:** MoDOT spends a large portion of their seat belt enforcement money on campaigns aimed at teenagers under 18. While this survey does an excellent job of measuring current attitudes and behaviors of adult drivers, it is not designed for – and specifically excludes – teenagers under 18. MoDOT may wish to commission a survey to measure the effectiveness of seat belt enforcement efforts aimed at this age group.

**Recommendation 4:** In the six years Heartland has been conducting this survey, public awareness of DUI enforcement campaigns has been much higher – often more than double – than public awareness of seat belt enforcement. Even when the survey was being asked in June, there was a very large difference. While other factors probably also influence this difference, it suggests that the tactic of publicizing enforcement activities multiple times a year is more effective than an annual effort. MoDOT should evaluate the feasibility of publicizing seat belt enforcement campaigns three times a year similar to the DUI enforcement campaigns.

### Introduction

The Missouri Department of Transportation (MoDOT) desired to know more regarding attitudes and awareness concerning impaired driving, seat belt use, and speeding from Missouri adults. Following standard practice, MoDOT requested bids from qualified research organizations by posting a request for proposals on their public website. Heartland Market Research LLC was selected from this competitive process as having the best research proposal and was awarded the research contract. The research was conducted during March 2015 using a phone survey instrument.

### Objective

The primary objective of this research project was to survey adult Missouri drivers to capture their current attitudes and awareness of specific items concerning highway safety such as seat belt usage, speeding, cell phone use while driving, and alcohol impaired driving while minimizing the margin of error. The research was designed so that in addition to providing a statewide result, statistically useful information was also available at the district level. Special emphasis was placed on ensuring that the sample reflected Missouri's geographic, age, and gender diversity.

### **Technical Approach**

The survey questions were provided by MoDOT and were similar to the questions used in the 2010 and 2011 Highway Safety studies and identical to the questions asked in 2012, 2013, and 2014. In 2012 additional questions were added pertaining to cell phone and texting usage while driving and these were also employed in 2013, 2014, and 2015.

Starting on March 9 and ending on March 29, 2015, Quancor Virtual Sales and Marketing (QVSM) placed 139,473 calls in the State of Missouri. During this process, they reached 5,369 persons, of whom 2,502 completed the survey. The operators were instructed to mention MoDOT only if the respondent asked who had commissioned the survey. A copy of the operator script appears in Appendix B.

Special efforts were made to make the phone survey as representative as possible, especially in terms of the research objectives (geographic, gender, and age). People were surveyed from 113 counties as well as the independent city of St. Louis. Residents from 620 different zip codes are represented. The typical phone survey practice of alternatively asking for either the oldest or youngest adult was not employed. Instead, the calling center was given specific goals for each age group and gender within various geographic areas to ensure the most representative sample possible within the constraints of the project.

The survey results were weighted proportionally to the actual population in terms of geographic, gender, and age distributions. Information from 2010 Census was used for this purpose as this was the most recent complete information available. The weighted results from the three previous phone surveys are also shown for comparative purposes and this information was taken from the 2012 Highway Safety Driver Survey report. All years compared utilized the exact same weights from the 2010 Census.

## **Results and Discussion (Evaluation)**

In surveying, it is usually not reasonable to survey everyone in the population of interest. Therefore, a portion of the population is surveyed and this portion is called the sample. Since the sample is usually much smaller than the population of interest, the mean of the population may vary from the mean of the sample. The expected error depends upon the size of the sample and the desired level of confidence. As the sample size increases, the margin of error decreases. The general formula for computing the margin of error at the 95% level of confidence is .98 divided by the square root of the sample size. The following table shows the margin of error for the most recent Highway Safety surveys.

	2010 Phone Survey	2011 Phone Survey	2012 Phone Survey	2013 Phone Survey	2014 Phone Survey	2015 Phone Survey
Responses	3,010	1,207	2,616	2,510	2,513	2,502
Margin of Error	1.79%	2.82%	1.92%	1.96%	1.95%	1.96%

Table 1: Survey Margin of Error

Thus with an overall sample size of 2,502 we can be 95% certain that the sample mean is within 1.96% of the population mean. Thus if 17.48% of our sample is aware of any recent publicity concerning seat belt law enforcement, we can be 95% certain that between 15.5% and 19.4% of the adult driving population in Missouri would actually be aware of any recent publicity. These statistics assume honest answers by the respondents. Research has shown that people tend to answer surveys honestly unless the answer is perceived to have an appropriate answer. For example, most people believe that wearing seatbelts is the socially correct thing to do, so the answer to the seat belt question may be slightly inflated. Likewise, most people believe that driving under the influence of alcohol is socially incorrect, so the answers to these questions may be slightly deflated. In these cases, the most important factor is to look for statistically significant changes from year to year.

The results from the previous four surveys are provided along with this year's survey so that changes over time may also be reviewed. When comparing surveys, the margins of error are cumulative. Therefore, we can be 95% confident there has been a significant change in the attitudes of Missourian from 2014 to 2015 if the survey results differ by more than 3.91%.

The statewide results have been weighted proportionally to the actual population in terms of geographic, gender, and age distributions.

Readers should not use this research to draw conclusions about the behavior of those who primarily drove motorcycles. While the sample size is quite adequate for drivers of other vehicles, only eight respondents stated that their primary vehicle was a motorcycle. This is to be expected in a survey that represents the general public given that only a small percentage of the US population rides motorcycles. Further, out of the entire population of motorcycle riders, many of them may have another vehicle they drive more often than their bike.

#### Seat Belt Usage

Depending upon their opinions, respondents answered five to six questions pertaining to their behavior and thoughts concerning seat belts.

**Question 1:** *How often do you use seat belts when you drive or ride in a car, van, sport utility vehicle or pick up?* 

In 2015, 83.1% of Missouri drivers claimed to always use their seat belts, statistically identical to the results from the previous four years. This is slightly higher than the 75% average observed seat belt use Pickrell and Ye (2008) documented for states with secondary enforcement laws. It is also remarkably close to the 78.8% observed rate for Missouri in an extensive study commissioned by MoDOT for the period from June 2 to June 15 2014. The 2014 study was based on total of 90,015 vehicles and 117,297 vehicle occupants observed across twenty roadway segments in each of 28 survey counties for a total of 560 observed sites. The margin of error for the observed studies was 2.5% so the combined margin of error of the two studies was about 4.5%. In other words, the difference between the two studies is about the expected margin of error. The fact that the 2014 observed seatbelt rate and the self-reported rates from 2010 to 2015 are so close shows the reliability of the self-report method – at least when it comes to reporting seat-belt usage.

		0		- 0			
		2010 Phone	2011 Phone	2012 Phone	2013 Phone	2014 Phone	2015 Phone
		Survey	Survey	Survey	Survey	Survey	Survey
	Always	82.0%	84.1%	84.2%	82.7%	84.6%	83.1%
How often do you	Most of the time	9.2%	7.7%	8.6%	9.6%	9.7%	9.6%
use seat belts when	Half of the time	3.2%	3.4%	3.0%	2.9%	1.8%	2.7%
you drive or ride in a car, van, sport utility vehicle, or pick up?	Rarely	2.4%	2.6%	1.9%	2.5%	1.7%	2.1%
	Never	3.1%	2.1%	2.1%	2.1%	2.2%	2.4%
, r r	Refused	0.1%	0.1%	0.2%	0.2%	0.1%	0.2%

 Table 2: Statewide Seatbelt Usage

Similar to other years, males were less likely to wear seat belts than females in 2015. Those least likely to wear seat belts when driving or riding in a car, van, sport utility vehicle, or pick up were males of at least 50 years of age who primarily drove either a motorcycle or a pick up. Those who lived in areas classified as relatively urbanized were most likely to wear their seat belts whereas those who lived in either very rural location or in very urban areas such as St. Louis were less likely to wear seat belts.

In 2014 those least likely to wear seat belts were males, 50 years of age and older, whose primary vehicle was a pickup truck. Similar to previous findings, those who were the least likely to wear seat belts were also the least likely to believe that people would receive a ticket if they did not wear their seat belt. Also similar to previous years, those who lived in very rural areas were also less likely to always buckle up than those living in other communities.

In 2013 those least likely to wear seat belts were males, between the ages of 18 and 29, whose primary vehicle was a pickup truck or other type of truck. As was also the case last year, those who were the least likely to wear seat belts were the most likely to be aware of seat belt enforcement publicity, but were the least likely to believe that people would receive a ticket if they did not wear their seat belt. Also similar to last year, those who lived in very rural areas were also less likely to always buckle up than those living in other communities.

In 2012 those least likely to wear seat belts were males, between the ages of 50 and 64, whose primary vehicle was a pickup truck or a motorcycle. In 2012 those who were the least likely to wear seat belts were the most likely to be aware of seat belt enforcement publicity, but were also the least likely to believe that people would receive a ticket if they did not wear their seat belt. This was a change from the findings from the previous two years. Those who lived in very rural areas were also less likely to buckle up than those living in other communities.

In 2011 the results were similar with one major difference. While those least likely to wear seat belts were still males between the ages of 30 and 64 who drive a pickup truck, those who drove some other type of truck wear their seat belts "always" or "most of the time". In 2011, there was no correlation between seat belt usage and any publicity about law enforcement activities. While smaller than the 2010 impact, those with a higher expectation of receiving a ticket if they did not wear their seat belt were more likely to wear one.

In 2010 those least likely to wear seat belts were males, between the ages of 30 and 64, who drove some type of truck (e.g, either a pickup truck or "other type of truck"). There was no correlation between seat belt usage and any publicity about law enforcement activities; however, those more likely to think they would receive a ticket for not wearing a seat belt were more likely to comply with the law.

**Question 2:** Do you favor keeping Missouri's seat belt law as a "secondary law"—where you can only be pulled over or ticketed if you are observed committing another violation; or do you favor changing Missouri's seat belt law to a "primary law"—where you can be pulled over or ticketed if the officer clearly observes you are not wearing your seat belt?

A majority (54.6%) of the respondents prefer to keep Missouri's seat belt law a secondary law, similar to the findings from recent years.

Table 5. Becondary Vs. Trinary Law							
		2010 Phone Survey	2011 Phone Survey	2012 Phone Survey	2013 Phone Survey	2014 Phone Survey	2015 Phone Survey
Do you favor keeping Missouri's seat belt law as a "secondary law" - where you can only be pulled over or ticketed if you are observed committing another violation; or do you favor changing	Keep "secondary law"	54.7%	51.4%	51.0%	52.5%	57.0%	54.6%
	Change to "primary law"	41.1%	38.5%	41.2%	36.7%	36.1%	39.0%
Missouri's seat belt law to a "primary law" - where you can be pulled over or ticketed if the officer clearly observes you are not wearing your seat belt?	No Opinion/ Refused	4.2%	10.0%	7.8%	10.8%	6.8%	6.5%

Table 3:	Secondary vs	. Primary Law
----------	--------------	---------------

**Question 3:** *Currently, the fine for violating Missouri's seat belt law is \$10. Would you support an increase in the fine associated with this violation?* 

A slight majority (51.6%) preferred to leave the penalty for violating the law unchanged. All responses were statistically identical to those from the previous year.

Lusie II State	Tuble 4. State while Support tor mercusing rine for violating Seat Det Eaw									
		2010 Phone Survey	2011 Phone Survey	2012 Phone Survey	2013 Phone Survey	2014 Phone Survey	2015 Phone Survey			
Currently, the fine for violating Missouri's seat belt law is \$10. Would you support an increase in the fine associated with this violation?	Yes	46.6%	45.8%	43.7%	44.3%	45.3%	45.9%			
	No	51.7%	50.1%	52.9%	51.9%	51.2%	51.6%			
	No Opinion / Refused	1.8%	4.1%	3.4%	3.8%	3.5%	2.5%			

 Table 4: Statewide Support for Increasing Fine for Violating Seat Belt Law

# **Question 3b:** In your opinion, what should the fine associated with violating Missouri's seat belt law be?

Question 3b was only asked of 1,079 respondents who supported an increase in the fine associated with not wearing a seatbelt (Question 3). Since the number of respondents for this question is smaller than for the other questions, the margin of error is slightly larger (3.0%).

Out of the minority who favored increasing the fine, a plurality (44.0%) thought the fine should range from \$25 to \$49. The second largest group (20.0%) thought the fine should range from \$50 to \$74. These were also the two largest groups the last five years out of the minority who wished to increase the fine.

	Tuble 5: Respondent input on increasing I inc									
		2010 Phone	2011 Phone	2012 Phone	2013 Phone	2014 Phone	2015 Phone			
		Survey	Survey	Survey	Survey	Survey	Survey			
	Under \$25	14.1%	17.0%	14.5%	17.3%	15.7%	17.3%			
In your opinion,	\$25 to \$49	38.8%	31.0%	35.6%	36.5%	35.6%	44.0%			
what should the	\$50 to \$74	25.9%	21.6%	24.5%	22.9%	23.4%	20.0%			
fine associated with violating	\$75 to \$100	12.9%	16.1%	13.6%	12.2%	14.0%	10.9%			
Missouri's seat	Over \$100	6.7%	11.8%	8.9%	8.7%	9.3%	6.2%			
belt law be?	No Opinion/Refused	1.6%	2.5%	2.9%	2.4%	2.0%	1.6%			
	Margin of Error	2.7%	4.5%	3.0%	3.0%	3.0%	3.0%			

 Table 5: Respondent Input on Increasing Fine

# **Question 4:** *In the past 60 days, have you read, seen or heard anything about seat belt law enforcement by police?*

The vast majority of the respondents (82.4%) were not aware of any publicity concerning seat belt law enforcement. While statistically similar to the previous year, this continued a downward trend in awareness since 2010. There may be several reasons for this trend. First of all, people have many more options for their free time, making it much more difficult to reach them. People have access to more video and audio options than ever before, many of which are now available directly over the internet making local advertising very challenging. Secondly, this research measures the statewide perception on the issues being discussed. However, MoDOT may spend its marketing efforts targeting citizens at special risk. If so, any report of the statewide results will underestimate the effectiveness of publicity efforts as the responses from the citizens not being targeted make up a significant portion of the overall measure for this research.

		2010 Phone Survey	2011 Phone Survey	2012 Phone Survey	2013 Phone Survey	2014 Phone Survey	2015 Phone Survey
In the past 60 days, have you read, seen, or heard anything about seat belt law enforcement by police?	Yes	31.7%	29.0%	26.5%	20.9%	17.7%	17.5%
	No	68.1%	70.3%	73.2%	78.7%	81.5%	82.4%
	No Opinion / Refused	0.2%	0.7%	0.2%	0.4%	0.8%	0.1%

#### Table 6: Seat Belt Law Enforcement Publicity Awareness

**Question 5:** *What do you think the chances are of getting a ticket if you don't wear your safety belt?* 

Opinions varied greatly on this issue, but a plurality (35.1%) thought people who did not wear their seat belt would only rarely get a ticket. 47.6% of the respondents thought people would be caught at least half of the time.

The number of people who thought someone would always get a ticket for not wearing a seatbelt was similar to the findings since 2012.

Table 7: Perceived Chance of C	Obtaining	Ticket for	Violating	Seat Bel	t Laws

		2010 Phone Survey	2011 Phone Survey	2012 Phone Survey	2013 Phone Survey	2014 Phone Survey	2015 Phone Survey
What do you think the	Always	12.4%	7.6%	12.9%	12.4%	10.6%	13.6%
	Most of the time	16.2%	15.0%	15.1%	15.9%	15.9%	15.3%
chances are of	Half of the time	21.4%	20.5%	19.7%	16.5%	20.5%	18.7%
getting a ticket if you don't wear	Rarely	37.4%	40.8%	36.4%	35.2%	36.3%	35.1%
	Never	10.0%	7.1%	8.5%	10.5%	10.0%	9.9%
your seat belt?	No Opinion/Refused	2.6%	9.0%	7.4%	9.6%	6.7%	7.4%

#### **Speeding Issues**

Missouri drivers answered four questions concerning speeding.

**Question 6:** On a local road with a speed limit of 30 mph, how often do you drive faster than 35 mph?

72.4% of Missouri drivers stated they never or rarely drive more than 35 mph when the speed limit is 30 mph, similar to the findings from recent years.

		2010 Phone Survey	2011 Phone Survey	2012 Phone Survey	2013 Phone Survey	2014 Phone Survey	2015 Phone Survey
	Always	4.3%	4.2%	4.2%	3.9%	3.3%	2.5%
On a local road with	Most of the time	9.8%	8.0%	9.5%	10.5%	10.8%	10.4%
a speed limit of 30	Half of the time	13.0%	15.1%	14.9%	12.4%	12.7%	13.3%
mph, how often do you travel faster than 35 mph?	Rarely	44.7%	43.8%	39.0%	39.5%	48.3%	44.7%
	Never	27.7%	28.2%	31.2%	32.3%	24.4%	27.6%
•	Refused	0.5%	0.7%	1.3%	1.4%	0.5%	1.4%

 Table 8: Speeding in 30 MPH Zones

**Question 7:** On a local road with a speed limit of 70 mph, how often do you drive faster than 75 mph?

86.8% of Missouri drivers stated they never or rarely drive more than 75 mph when the speed limit is 70 mph on local roads.

		2010 Phone	2011 Phone	2012 Phone	2013 Phone	2014 Phone	2015 Phone
	l .	Survey	Survey	Survey	Survey	Survey	Survey
	Always	2.6%	1.8%	2.2%	1.9%	1.3%	1.6%
On a local road with	Most of the time	3.5%	3.4%	4.0%	4.0%	3.7%	4.4%
a speed limit of 70	Half of the time	7.2%	9.6%	8.5%	5.9%	6.5%	6.9%
mph, how often do you driver faster than 75 mph?	Rarely	32.3%	38.0%	32.7%	31.2%	39.2%	37.6%
	Never	54.2%	46.2%	51.7%	56.4%	48.9%	49.1%
	Refused	0.2%	1.0%	0.9%	0.6%	0.3%	0.3%

#### Table 9: Speeding in 70 MPH Zones

In 2015, females between 18 to 29 were more likely to speed on roads with speed limits of 30 mph compared to other groups. Women between 30 and 49 and men between 30 and 64 were more likely to speed on roads with speed limits of 70 mph. All age and gender segments were more likely to speed on roads with a 30 mph speed limit than roads with a 70 mph speed limit. In a change from last year, this was not true of motorcyclists. While they remain the group most likely to speed on roads with a speed limit of 70 mph, this year motorcyclists stated they were less likely to speed on roads with speed limits of 30 mph than drivers of other vehicles. It is important to understand that the sample size of motorcyclists is very small, thus there is likely to be greater variation from year to year in this group. In keeping with the findings since 2010, there was no correlation between speeding and any publicity about relevant law enforcement activities; nor was there any correlation between speeding and the respondent's perception of the chance of being caught.

In 2014, men between 40 to 49 years of age were more likely to speed than other groups on local roads with speed limits of 30 mph while men 30 to 39 were more likely to speed on faster roads with speed limits of 70 mph. Similar to last year, women 65 and older were the least likely to speed under both 30 and 70 mph limits. Also similar to last year, all segments were more likely to speed on local roads with a speed limit of 30 mph than on local roads with speed limits of 70 mph. Motorcyclists continue to be the most prevalent speeders on roads with speed limits of 30 mph and this year reported being the most likely to speed on roads with speed limits of 70 miles per hour. In keeping with the findings since 2010, there was no correlation between speeding and any publicity about relevant law enforcement activities; nor was there any correlation between speeding and the respondent's perception of the chance of being caught.

In 2013, women between 30 to 39 years of age were more likely to speed than other groups on both local roads with speed limits of 30 mph and faster roads with speed limits of 70 mph. Similar to last year, women 65 and older were the least likely to speed under both 30 and 70 mph limits. Motorcyclists continue to be the most prevalent speeders on roads with speed limits of 30 mph. As has been the case in the past, truck (non-pickup) drivers were the least likely to speed on roads with speed limits of 30 mph, but the most likely to speed on local roads with speed limits of 70 mph. There was no correlation between speeding and any publicity about relevant law enforcement activities; nor was there any correlation between speeding and the respondent's perception of the chance of being caught.

In 2012, people between 18 to 29 years of age and males 40 to 49 years of age were most likely to speed on local roads with a speed limit of 30 mph. On roads with speed limits of 70 mph, males between 18 to 49 and females between 30 to 39 were more likely to speed than other groups. Women 65 and older were the least likely to speed under both 30 and 70 mph limits. All segments were more likely to speed on local roads with a speed limit of 30 mph than on local roads with speed limits of 70 mph. Motorcyclists and drivers of other types of trucks (not pickups) were the outlying cases for speeding, but their behavior was the inverse of each other. Motorcyclists said they were the most likely to speed on local roads with speed limits of 30 mph, but the least like to speed on roads where the speed limit was 70 mph. Truck (non-pickup) drivers were the least likely to speed on roads with speed limits of 30 mph, but the most likely to speed on local roads with speed limits of 30 mph, or noads with speed limits of 70 mph. As was the case in the last two years, there was no correlation between awareness of speed enforcement by police and speeding behavior nor between speeding and the respondent's perception of the chance of being caught.

In 2011 the results were similar but varied slightly. Those most likely to speed were anyone between 18 to 29, males 40 to 49, and females 65 and older. Those who stated they drove an "other type of truck" were more likely to speed than drivers of other vehicles followed by motorcyclists. Just like 2010, there was no correlation between speeding and any publicity about relevant law enforcement activities; nor was there any correlation between speeding and the respondent's perception of the chance of being caught.

In 2010 those most likely to speed were either males between 18 to 29 years of age or females between 40 to 49 years of age. Motorcycle drivers were much more likely to speed than other drivers, followed by those who stated they drove an "other type of truck" (i.e., a truck that was neither a pickup truck, a SUV, nor a crossover). There was no correlation between speeding and any publicity about relevant law enforcement activities; nor was there any correlation between speeding and the respondent's perception of the chance of being caught.

# **Question 8:** *In the past 30 days, have you read, seen or heard anything about speed enforcement by police?*

The majority (73.3%) of Missouri drivers were unaware of any recent publicity regarding speed enforcement. This was virtually identical to the findings from last year.

		2010	2011	2012	2013	2014	2015
		Phone	Phone	Phone	Phone	Phone	Phone
		Survey	Survey	Survey	Survey	Survey	Survey
In the past 30 days, have you read, seen or heard anything about speed enforcement by police?	Yes	37.4%	31.4%	34.6%	28.0%	28.1%	26.2%
	No	62.4%	67.9%	65.0%	71.6%	71.5%	73.3%
	No Opinion / Refused	0.2%	0.7%	0.4%	0.4%	0.5%	0.4%

#### Table 10: Speeding Enforcement Publicity Awareness

**Question 9:** *What do you think the chances are of getting a ticket if you drive over the speed limit?* 

Two-thirds (66.6%) of Missouri drivers thought their chances of receiving a ticket if they speed were at least fifty percent. This was also similar to the findings since 2011.

		2010 Phone Survey	2011 Phone Survey	2012 Phone Survey	2013 Phone Survey	2014 Phone Survey	2015 Phone Survey
What do you think the chances are of	Always	11.3%	8.5%	10.2%	9.9%	7.3%	8.1%
	Most of the time	27.4%	26.4%	26.3%	27.3%	27.5%	22.9%
	Half of the time	35.3%	32.8%	30.9%	31.4%	35.6%	35.6%
getting a ticket if you drive	Rarely	21.4%	24.2%	26.3%	23.0%	25.1%	27.1%
over the speed	Never	3.4%	4.5%	3.6%	4.3%	2.8%	3.6%
limit?	No Opinion/Refused	1.3%	3.5%	2.7%	4.1%	1.6%	2.7%

#### Table 11: Perceived Chance of Obtaining Ticket for Speeding

#### **Cell Phone Use While Driving**

Respondents were asked three questions about cell phone use while driving. The first two questions were added in 2012.

**Question 10:** *How often do you talk on a hand-held cellular phone while driving a car, van, sport utility vehicle, or pick-up?* 

88.4% of Missouri drivers stated they rarely or never talk on a cell phone while driving. 11.2% of Missourians talk at least half of the time they drive.

		2012 Phone Survey	2013 Phone Survey	2014 Phone Survey	2015 Phone Survey
	Always	1.0%	1.0%	0.7%	0.7%
How often do you talk on	Most of the Time	2.6%	3.5%	1.8%	2.2%
a hand-held cellular phone while driving a	Half of the Time	9.8%	8.1%	9.7%	8.4%
car, van, sport utility	Rarely	44.4%	39.0%	44.0%	43.4%
vehicle, or pick-up?	Never	41.8%	47.9%	43.5%	45.0%
	No Opinion/Refused	0.3%	0.5%	0.5%	0.4%

 Table 12: Frequency of Talking while Driving

**Question 11:** How often do you use a hand-held cellular phone for texting while driving a car, van, sport utility vehicle, or pick-up?

99.1% of Missouri drivers stated they rarely or never text on a cell phone while driving.

 Table 13: Frequency of Texting while Driving

		2012 Phone Survey	2013 Phone Survey	2014 Phone Survey	2015 Phone Survey
	Always	0.4%	0.0%	0.1%	0.1%
How often do you use a	Most of the Time	0.4%	0.2%	0.1%	0.1%
hand-held cellular phone for texting while driving a	Half of the Time	1.5%	0.8%	0.5%	0.5%
car, van, sport utility	Rarely	11.0%	7.6%	9.6%	8.9%
vehicle, or pick-up?	Never	86.3%	91.2%	89.1%	90.3%
	No Opinion/Refused	0.4%	0.3%	0.6%	0.2%

**Question 12:** *Many states have passed laws which restrict or ban cellular phone use, including texting, while driving. What level of restrictions would you support regarding cellular phone usage while driving?* 

92.5% of Missouri drivers favored some type of restriction on how people could use cell phones while driving. 29.9% favored banning all cell phone use by drivers, while a majority (62.6%) wanted to ensure drivers could still use cell phones for talking while seeing the need for some restrictions. These results were similar to previous findings.

		2010 Phone Survey	2011 Phone Survey	2012 Phone Survey	2013 Phone Survey	2014 Phone Survey	2015 Phone Survey
Many states have passed laws	Full Restrictions - No Cellular Phone Use Allowed	39.3%	34.2%	34.0%	28.9%	32.5%	29.9%
which restrict or ban cellular phone use,	Ban on Texting While Driving, Phone Use Allowed	24.7%	30.8%	22.8%	21.2%	18.8%	17.9%
including texting, while driving. What level of restrictions would	Ban on Texting While Driving, Hands-Free Phone Device Allowed	20.1%	16.4%	16.8%	14.2%	19.1%	17.0%
you support regarding cellular	Hands-Free Phone Device Use Only	12.8%	14.0%	19.7%	26.8%	23.2%	27.7%
phone usage while driving?	No Restrictions	2.4%	3.6%	4.4%	5.6%	3.8%	4.4%
	No Opinion / Refused	0.7%	1.0%	2.4%	3.1%	2.5%	3.1%

**Table 14: Statewide Opinions Regarding Cell Phone Restrictions** 

In 2015 women 65 and older were the least likely to drive while talking on a cell phone whereas females from 30 to 49 where the most likely group to talk on a cellular phone while driving. However, at just under 18% (17.9% for women 30 to 39 and 17.8% for women 40 to 49), this is significantly lower than the measures recorded in previous years. Self-reported texting while driving also continued to decline. In 2015, males 40 to 49 were the most likely age/gender segment to text while driving and only 2% of this group said they did so at least 50% of their driving time.

In 2014 men 65 and older were the least likely to talk on a cell phone while driving. As has been the case since this question was first asked, females between 30 to 39 were the most likely group to talk on a cell phone while driving with 22.3% of this segment stating they do so fifty percent of the time or more.

In 2013 women 65 and older were the least likely to talk on a cell phone while driving. Females between 30 to 39 continue to be the most likely group to talk on a cell phone while driving with 24.3% of this segment stating they do so fifty percent of the time or more. This segment was also most likely to text while driving, but only 3.4% texted at least half the time they were driving.

In 2012 females between 30 to 39 years of age were much more likely to talk on a cell phone while driving than other groups with 27.8% of this segment stating that they do so at least half of the time they are driving. People between 18 to 29 were more likely to text while driving than other segments, but only about 4% of this segment texted at least half the time they were driving.

#### **Alcohol Impaired Driving**

Missouri drivers were asked three questions regarding alcohol impaired driving. When these questions were first asked in 2010, the researchers were concerned that people might not answer these questions honestly considering the legal and ethical implications of driving under the influence. However, the survey operators had the consistent impression that people were either answering these questions honestly or simply refusing to answer the question. The same calling center has been used since the 2010 survey and the call center operators have had similar impressions every year they have conducted the surveys.

**Question 13:** *In the past 60 days, how many times have you driven a motor vehicle within two* (2) *hours after drinking alcoholic beverages?* 

89.4% of Missouri drivers stated that they had not driven a vehicle within two hours of consuming an alcoholic beverage anytime in the last sixty days. This is similar to last year's findings. 8.1% of Missouri drivers admitted to having done so at least once in the last sixty days. Another 2.5% refused to answer the question.

Researchers usually hesitate to draw conclusions from refusals, but after considering the implications for self-incrimination and the impressions of the survey operators, Heartland Market Research concluded that approximately 10.6% of Missouri drivers have driven under the influence of alcohol in the last sixty days. Considering the margin of error, this is similar to the findings that have been measured most years of this study (11.5% in 2010, 18.7% in 2011, 8.3% in 2012, 12.7% in 2013, and 9.3% in 2014).

Out of those who admitted to drinking before driving, the average driver did so about three times in the last sixty days (average of 3.1 times). This is the lowest amount recorded since Heartland became involved with this research in 2010. It compares to an average of 3.6 times in 2014 and 2013, 5.5 times in 2012, 6.2 times in 2011, and an average of 5.2 times in 2010.

						8	
		2010 Phone	2011 Phone	2012 Phone	2013 Phone	2014 Phone	2015 Phone
		Survey	Survey	Survey	Survey	Survey	Survey
	0	88.20%	81.30%	91.70%	87.30%	90.71%	89.41%
	1						
		3.20%	4.60%	2.50%	2.20%	2.57%	2.68%
	2	3.00%	1.80%	2.10%	2.60%	2.18%	2.49%
	3	0.80%	1.10%	0.40%	0.70%	0.62%	0.89%
	4	0.60%	2.20%	0.30%	0.60%	0.36%	0.75%
In the past	5	0.30%	0.40%	0.60%	0.40%	0.45%	0.25%
60 days,	6	0.40%	0.00%	0.30%	0.10%	0.16%	0.29%
how many times have	7	0.00%	0.00%	0.00%	0.10%	0.03%	0.09%
you driven	8	0.00%	0.10%	0.10%	0.20%	0.00%	0.12%
a vehicle	10	0.50%	0.40%	0.10%	0.20%	0.21%	0.11%
within two	12	0.10%	0.00%	0.00%	0.10%	0.02%	0.15%
(2) hours after	14	0.00%	0.00%	0.10%	0.00%	0.00%	0.00%
drinking	15	0.00%	0.30%	0.00%	0.00%	0.00%	0.00%
alcoholic	16	0.00%	0.00%	0.00%	0.00%	0.00%	0.10%
beverages?	20	0.10%	0.00%	0.00%	0.00%	0.03%	0.14%
	24	0.10%	0.00%	0.00%	0.00%	0.00%	0.00%
	25	0.00%	0.00%	0.00%	0.10%	0.01%	0.00%
	30	0.10%	0.40%	0.00%	0.00%	0.00%	0.02%
	60	0.20%	0.10%	0.30%	0.10%	0.09%	0.00%
	Refused	2.20%	7.30%	1.50%	5.50%	2.58%	2.52%

 Table 15: Statewide Drinking Behavior before Driving

Similar to last year, in 2015 males 65 years of age and older were most likely to drive under the influence of alcohol, closely followed by males 40 to 49 years of age. For every age category, women were less likely to drive under the influence of alcohol than males. Motorcyclists and pickup truck drivers were more likely to drive under the influence than drivers of other vehicles. Drivers of other types of trucks, closely followed by van/minivan drivers, were least likely to drive after consuming alcohol than residents of less populated areas. While awareness of DUI enforcement was not correlated with stated behavior, the expectation of being ticketed reduced the likelihood of DUI behavior similar to the results in 2014, 2013, and 2011.

In 2014 those most likely to drive under the influence of alcohol were males of 65 years of age and older. Men were much more likely to drive after drinking than women. As was the case for the two previous years, men 18 to 29 stated they drove after drinking less than the other male segments, but this group was still more likely to drive under the influence than women 18 to 29 (the female age range most likely to drink and drive). Drivers of motorcycles were more likely to drive under the influence than drivers of other vehicles followed by drivers of pickup trucks. Drivers of vans or minivans were the least likely to drive after drinking. Those who lived in highly urbanized areas were most likely to drive under the influence of alcohol compared to residents of other areas. While awareness of DUI enforcement was not correlated with stated behavior, the expectation of being ticketed reduced the likelihood of DUI behavior similar to the results in 2013 and 2011.

In 2013 those most likely to drive under the influence of alcohol were males 50 to 64 years of age and older. Men were much more likely to drive after drinking than women. As was the case in 2012, men 18 to 29 stated they drove after drinking less than the other male segments, but this group was still more likely to drive under the influence than women 30 to 39 (the female age range most likely to drive and drive). Drivers of pickup trucks were more likely to drive under the influence than drivers of other vehicles followed by drivers of SUVs/crossovers. In a change from the previous year, drivers of other types of truck were the least likely to drive after drinking. While awareness of DUI enforcement was not correlated with stated behavior, the expectation of being ticketed reduced the likelihood of driving under the influence.

In 2012 those most likely to drive under the influence of alcohol were males 40 years of age and older. Men were much more likely to drive after drinking than women. Men 18 to 29 stated they drove after drinking less than the other male segments, but this group was still more likely to drive under the influence than women 30 to 39 (the female age range most likely to drive and drive). Drivers of motorcycles, SUVs, and all types of trucks were more likely to drive under the influence than drivers. Neither awareness of DUI enforcement nor expectations of being ticketed was correlated with drinking and driving behavior.

In 2011 those most likely to drive under the influence of alcohol were again males between 50 to 64 years of age. Males 18 to 29 and females 30 to 39 were also more likely to drive under the influence than other segments. Similar to 2010, neither motorcyclists nor drivers of "other type of truck" stated they had consumed alcohol within two hours of driving, but this year some of the motorcyclists refused to answer the question. While awareness of DUI enforcement was not correlated with stated behavior, in 2011 the expectation of being ticketed reduced the likelihood of driving under the influence.

In 2010 those most likely to drive under the influence of alcohol were males between 50 to 64 years of age. Unlike other risky behavior measured in this survey, drivers of motorcycles and those who stated they drove an "other type of truck" were the least likely to drink before driving. According to the research, not a single motorcycle driver or "other" truck driver stated they had consumed alcohol within two hours of driving.

# **Question 14:** *In the past 30 days, have you read, seen or heard anything about alcohol impaired driving (or drunk driving) enforcement by police?*

Approximately half (47.2%) of Missouri drivers were aware of recent publicity regarding DUI enforcement. This was similar to the findings of the previous years. The timing of this survey made these results intriguing. Before 2013, this survey has been conducted in the summer (typically in June). In 2013 the survey was conducted in March, in 2014 the survey was conducted in April, and in 2015 the survey was conducted in March. Results were quite consistent despite the variation in timing.

		2010 Phone Survey	2011 Phone Survey	2012 Phone Survey	2013 Phone Survey	2014 Phone Survey	2015 Phone Survey
In the past 30 days, have	Yes	54.9%	48.4%	49.9%	52.0%	50.6%	47.2%
you read, seen or heard	No	44.8%	50.6%	49.3%	47.1%	48.8%	52.1%
anything about alcohol impaired driving (or drunk driving) enforcement by police?	No Opinion / Refused	0.3%	1.0%	0.8%	0.9%	0.5%	0.7%

#### Table 16: DUI Enforcement Publicity Awareness

# **Question 15:** *What do you think the chances are of someone getting arrested if they drive after drinking?*

69.0% of the respondents expected people who drove after drinking would be arrested at least half of the time, statistically identical to that of the previous measurements.

		2010	2011	2012	2013	2014	2015
		Phone	Phone	Phone	Phone	Phone	Phone
		Survey	Survey	Survey	Survey	Survey	Survey
	Always	16.6%	14.1%	16.9%	17.4%	13.0%	13.4%
What do you think	Most of the time	21.5%	22.9%	21.9%	24.3%	23.4%	21.3%
the chances are of	Half of the time	34.2%	32.1%	32.5%	30.5%	34.4%	34.3%
someone getting arrested if they drive	Rarely	24.6%	27.4%	24.4%	23.0%	25.8%	26.6%
after drinking?	Never	1.2%	0.7%	1.7%	0.7%	0.8%	1.1%
5	No Opinion/Refused	2.0%	2.8%	2.7%	4.1%	2.6%	3.4%

## Table 17: Perceived Chance of Arrest after DUI

#### **Principal Investigator and Project Members**

#### Heartland Market Research LLC

Gentry, Lance	Principal Investigator: The Principal Investigator (PI) had the primary responsibility for achieving the objectives of the project, while also
	ensuring the project complied with the financial, administrative, and legal
	constraints associated with the project contract. General responsibilities of
	the PI included the following:

- Complete the project as documented in the contract (e.g., weight and analyze results, write reports, manage subcontractor, etc.) or make changes to the plan as needed to ensure all work is completed in accordance with the research goals and objectives within the original proposal
- Fulfill the project's financial plan as presented in the funded proposal or make changes to the plan as needed to ensure all work is completed within the original budget
- Report project progress to MoDOT to ensure sponsor is kept aware of key activities and benchmarks
- Keep records of all project related expenses

#### Quancor Virtual Sales and Marketing

Korn, Marie	President and CEO: Responsible for overall operations of the company. On this project she helped program caller scripts and ensured that QVSM's Operations staff had all the tools they need to complete all jobs and exceed the project goals.
Korn, Steve	Vice-President of Sales: Responsible for ensuring how QVSM's telemarketing merges in with the rest of QVSM's clients' marketing efforts to achieve their sales and marketing goals. Duties also included contacting Heartland Market Research about any issues regarding this project and was day-to-day contact regarding the progress of survey.
Bitter, Tammy	Operations Manager: Responsible for the day-to-day operations for QVSM.
Doddy, Terry	Traffic Manager: Ensured survey calls were run at the best times to maximize their results. This included watching what days agents called, what times of day they run and which agents made the calls.
Ying, Darral	Quality Manager: Responsible for QVSM's Quality Assurance staff.

#### **Works Cited**

- Nielsen Media Research, *Glossary of Media Terms*, accessed from http://www.nielsenmedia.com/glossary/ on June 19, 2011
- Pickrell, Timothy M and Tony J. Ye (2008), *Seat Belt Use in 2008 Overall Results*, Traffic Safety Facts Research Note, NHTSA's National Center for Statistics and Analysis, <u>http://www-nrd.nhtsa.dot.gov/pubs/811036.pdf</u>

2014 Statewide Safety Belt Survey conducted June 2 – June 15, 2014 for MoDOT

## Appendix A: Work Plan

Given the objectives of this project, Heartland proposed a phone survey of Missouri drivers. MoDOT notified Heartland that their proposal was the best of those submitted on February 25 and provided a contract to Heartland on February 27. Heartland immediately notified Quancor Virtual Sales and Marketing (QVSM) that the project was underway.

After Heartland received the contract from MoDOT, Quancor Virtual Sales and Marketing immediately started programming the final version of the survey into their call center system. Next their callers and their management team were trained on the new scripts. Each caller was thoroughly tested on the scripts before they were permitted to make any live calls.

Quancor Virtual Sales and Marketing started surveying people on March 9, 2015. All survey answers were recorded and stored for 30 days in case MoDOT wanted to review any of the phone interviews. Quancor Virtual Sales and Marketing delivered 2,502 completed surveys to Heartland on March 31, 2015. Heartland organized the data and provided top line (unweighted) results to MoDOT on April 1, 2015. Heartland analyzed the data and wrote a draft report for MoDOT. In accordance with MoDOT guidelines, the report was written using their Research Report Template to ensure a consistent format with other technical reports.

Heartland provided MoDOT with an initial report on April 24, 2015. MoDOT reviewed the document and provide feedback on the report to Heartland on May 5. Heartland then delivered the final report to MoDOT on May 5.

Schedule of Events	Completion
MoDOT awarded the contract to Heartland	February 27
QVSM programs survey into call center system and tests program	March 6
QVSM conducts regional stratified survey starting March 9	March 31
QVSM provides all data to Heartland	March 31
Heartland provides top line results to MoDOT	April 1
Heartland analyzes data and provides draft report to MoDOT	April 24
MoDOT provides Heartland with feedback on draft report	May 5
Heartland completes final report and provides to MoDOT	May 5

#### Table 18: Timeline for 2015 Surveys

## Appendix B: Survey Script

#### **Phone Survey Script**

Hello, this is (RepName) calling on behalf of Heartland Market Research. We are conducting a brief survey about transportation issues facing people in Missouri. We are not selling anything, this number was selected at random, and no personal information will be gathered. This means your answers will be completely anonymous – we are just interested in the overall opinion of Missouri drivers.

- a. Are you a licensed Missouri driver?
  - a. Yes
  - b. No [end interview]
- b. What is your age?
  - a. 18-29 years old
  - b. 30-39 years old
  - c. 40-49 years old
  - d. 50-64 years old
  - e. 65+ years old

[If the respondent is under 18 years old, ask respondent if anyone over the age of 18 is available, if not, end interview]

- c. Are you male or female?
  - a. Male
  - b. Female
- d. What is your ethnicity?
  - a. American Indian or Alaska Native
  - b. Asian
  - c. Black or African American
  - d. Hispanic or Latino
  - e. Native Hawaiian or Other Pacific Islander
  - f. White

[Respondent may select multiple categories]

- e. Is the vehicle you drive most often a:
  - a. Car
  - b. Van or Minivan
  - c. Motorcycle
  - d. Sport Utility Vehicle or Crossover
  - e. Pickup Truck
  - f. Other type of truck
- f. In what county do you currently live?
  - a. \_\_\_\_\_ county name
- g. What is your home zip code:
  - a. \_\_\_\_\_ zip code

- h. What is your household income?
  - a. Under \$30,000
  - b. \$30,000 \$49,999
  - c. \$50,000 \$69,999
  - d. \$70,000 or greater
  - e. I prefer not to answer [do not ask, only use if respondent volunteers this answer]
- 1. How often do you use seat belts when you drive or ride in a car, van, sport utility vehicle or pick up?
  - a. Always
  - b. Most of the Time
  - c. Half of the Time
  - d. Rarely
  - e. Never
- 2. Do you favor keeping Missouri's seat belt law as a "secondary law"—where you can only be pulled over or ticketed if you are observed committing another violation; or do you favor changing Missouri's seat belt law to a "primary law"—where you can be pulled over or ticketed if the officer clearly observes you are not wearing your seat belt?
  - a. Keep "secondary law"
  - b. Change to "primary law"
- 3. Currently, the fine for violating Missouri's seat belt law is \$10. Would you support an increase in the fine associated with this violation?
  - a. Yes [Skip to Question 3b]
  - b. No [Skip to Question 4]
- 3b. In your opinion, what should the fine associated with violating Missouri's seat belt law be?
  - a. Under \$25
  - b. \$25 \$49
  - c. \$50 \$74
  - d. \$75 \$100
  - e. Over \$100
- 4. In the past 60 days, have you read, seen or heard anything about seat belt law enforcement by police?
  - a. Yes
  - b. No

- 5. What do you think the chances are of getting a ticket if you don't wear your safety belt?
  - a. Always
  - b. Most of the Time
  - c. Half of the Time
  - d. Rarely
  - e. Never
- 6. On a local road with a speed limit of 30 mph, how often do you drive faster than 35 mph?
  - a. Always
  - b. Most of the Time
  - c. Half of the Time
  - d. Rarely
  - e. Never
- 7. On a local road with a speed limit of 70 mph, how often do you drive faster than 75 mph?
  - a. Always
  - b. Most of the Time
  - c. Half of the Time
  - d. Rarely
  - e. Never
- 8. In the past 30 days, have you read, seen or heard anything about speed enforcement by police?
  - a. Yes
  - b. No
- 9. What do you think the chances are of getting a ticket if you drive over the speed limit?
  - a. Always
  - b. Most of the Time
  - c. Half of the Time
  - d. Rarely
  - e. Never
- 10. How often do you talk on a hand-held cellular phone while driving a car, van, sport utility vehicle, or pick-up?
  - a. Always
  - b. Most of the Time
  - c. Half of the Time
  - d. Rarely
  - e. Never

- 11. How often do you use a hand-held cellular phone for texting while driving a car, van, sport utility vehicle, or pick-up?
  - a. Always
  - b. Most of the Time
  - c. Half of the Time
  - d. Rarely
  - e. Never
- 12. Many states have passed laws which restrict or ban cellular phone use, including texting, while driving. What level of restrictions would you support regarding cellular phone usage while driving?
  - a. Full Restrictions No Cellular Phone Use Allowed
  - b. Ban on Texting While Driving, Phone Use Allowed
  - c. Ban on Texting While Driving, Hands-Free Phone Device Allowed
  - d. Hands-Free Phone Device Use Only
  - e. No Restrictions
- 13. In the past 60 days, how many times have you driven a motor vehicle within two (2) hours after drinking alcoholic beverages?
  - a. \_\_\_\_\_ (number) times
- 14. In the past 30 days, have you read, seen or heard anything about alcohol impaired driving (or drunk driving) enforcement by police?
  - a. Yes
  - b. No
- 15. What do you think the chances are of someone getting arrested if they drive after drinking?
  - a. Always
  - b. Most of the Time
  - c. Half of the Time
  - d. Rarely
  - e. Never

Thank you very much. Have a great day/night.

### Appendix C: Additional Findings: Crosstabs of Interest

The survey results in the main report were weighted proportionally to the actual population in terms of geographic, gender, and age distributions. In this appendix, the results are presented by various variables of interest, such as by district and are unweighted.

The crosstabs that the researchers thought would be of most interest to MoDOT are presented in this appendix (all research questions by district and all research questions by category of residence). Heartland Market Research will gladly provide additional crosstabs upon request.

#### **Research Questions by District**

Since the sample size for each district is smaller than the overall survey, the respective margin of error is greater. Margins of error are cumulative, so in order for a change from 2014 to 2015 to be statistically significant, it must be greater than the sum of the district's margin of error for these years. For example, for the St. Louis District, any change from 2014 to 2015 must be greater than 10.4% (5.2% + 5.2%) in order to be 95% certain it is truly a change in opinion or behavior.

-		171 11111	0	2		
Location	2010	2011	2012	2013	2014	2015
NW	4.5%	7.0%	5.2%	5.2%	5.2%	5.2%
NE	5.0%	7.9%	5.2%	5.2%	5.2%	5.1%
KC	5.4%	9.1%	5.1%	5.2%	5.2%	5.2%
CD	4.9%	7.5%	5.1%	5.2%	5.2%	5.2%
SL	5.7%	9.1%	5.0%	5.2%	5.2%	5.2%
SW	4.2%	6.7%	5.0%	5.1%	5.2%	5.2%
SE	4.1%	6.4%	5.0%	5.2%	5.1%	5.2%
State	1.8%	2.8%	1.9%	2.0%	2.0%	2.0%

 Table 19: Margin of Error by District

		Districts * How often do you use seat belts when you drive or ride in a car, van, sport utility vehicle, or pick up? Crosstabulation	you use seat belts	when you drive or	ride in a car, van,	sport utility vehicle	e, or pick up? Cros	sstab ulation	
			How often	How often do you use seat belts when you drive or ride in a car, van, sport utility vehicle, or pick up?	ts when you drive or	ride in a car, van, s	port utility vehicle,	or pick up?	
								No	
			Always	Most of the time	Half of the time	Rarely	Never	<b>Opinion/Refused</b>	Total
Districts	NM	Count	262	63	12	15	10	0	362
		% within Districts	72.4%	17.4%	3.3%	4.1%	2.8%	%0.0	100.0%
	NE	Count	263	62	15	14	0	0	363
		% within Districts	72.5%	17.1%	4.1%	3.9%	2.5%	%0.0	100.0%
	КС	Count	304	35	2	N	9	0	354
		% within Districts	85.9%	9.6%	2.0%	0.6%	1.7%	%0.0	100.0%
	CD	Count	289	37	13	8	Ø	N	357
		% within Districts	81.0%	10.4%	3.6%	2.2%	2.2%	0.6%	100.0%
	SL	Count	307	20	2	8	13	-	356
		% within Districts	86.2%	5.6%	2.0%	2.2%	3.7%	0.3%	100.0%
	SW	Count	278	46	13	7	0	0	353
		% within Districts	78.8%	13.0%	3.7%	2.0%	2.5%	%0.0	100.0%
	SE	Count	297	33	σ	11	9	-	357
		% within Districts	83.2%	9.2%	2.5%	3.1%	1.7%	0.3%	100.0%
Total		Count	2000	296	76	65	61	4	2502
		% within Districts	79.9%	11.8%	3.0%	2.6%	2.4%	0.2%	100.0%

Table 20: District by Question 1

## Table 21: District by Question 2

Districts * Do you favor keeping Missouri's seat belt law as a "secondary law"-where you can only be
pulled over or ticketed if you are observed committing another violation; or do you favor changing
Missouri's seat belt law to a "primary law"—where you can be pulled Crosstabulation

IV	iissouri	s seat belt law to a "p	rimary law —whe	re you can be pu	lied Crosstabulatio	n
			Do you favor ke	eping Missouri's s	eat belt law as a	
			"secondary law"-	—where you can o	nly be pulled over	
			or ticketed if yo	u are observed co	mmitting another	
			violation; or do yo	ou favor changing I	Vissouri's seat belt	
			law to a "prima	ary law"—where yo	ou can be pulled	
			Кеер	Change to	No	
	_	_	"secondary law"	"primary law"	Opinion/Refused	Total
Districts	NW	Count	220	120	22	362
		% within Districts	60.8%	33.1%	6.1%	100.0%
	NE	Count	236	98	29	363
		% within Districts	65.0%	27.0%	8.0%	100.0%
	KC	Count	178	153	23	354
		% within Districts	50.3%	43.2%	6.5%	100.0%
	CD	Count	215	122	20	357
		% within Districts	60.2%	34.2%	5.6%	100.0%
	SL	Count	180	157	19	356
		% within Districts	50.6%	44.1%	5.3%	100.0%
	SW	Count	191	128	34	353
		% within Districts	54.1%	36.3%	9.6%	100.0%
	SE	Count	214	121	22	357
		% within Districts	59.9%	33.9%	6.2%	100.0%
Total		Count	1434	899	169	2502
		% within Districts	57.3%	35.9%	6.8%	100.0%

## Table 22: District by Question 3

			is \$10. Would	e for violating Miss you support an inc ciated with this viol		
			Yes	No	No Opinion/Refused	Total
Districts	NW	Count	140	215	7	362
		% within Districts	38.7%	59.4%	1.9%	100.0%
	NE	Count	140	213	10	363
		% within Districts	38.6%	58.7%	2.8%	100.0%
	KC	Count	180	169	5	354
		% within Districts	50.8%	47.7%	1.4%	100.0%
	CD	Count	155	192	10	357
		% within Districts	43.4%	53.8%	2.8%	100.0%
	SL	Count	186	161	9	356
		% within Districts	52.2%	45.2%	2.5%	100.0%
	SW	Count	125	213	15	353
		% within Districts	35.4%	60.3%	4.2%	100.0%
	SE	Count	153	197	7	357
		% within Districts	42.9%	55.2%	2.0%	100.0%
Total		Count	1079	1360	63	2502
		% within Districts	43.1%	54.4%	2.5%	100.0%

# Districts \* Currently, the fine for violating Missouri's seat belt law is \$10. Would you support an increase in the fine associated with this violation? Crosstabulation

140 100.0% 155 186 125 140 100.0% 153 1080 100.0% 100.0% 100.0% 100.0% 181 100.0% 100.0% Total 2.4% 16 0.7% ო 2.1% 0.6% 2 1.3% ო 2 1.3% 1.5% 4 2.2% **Opinion/Refused** Districts \* In your opinion, what should the fine associated with violating Missouri's seat belt law be? Crosstabulation ۶ In your opinion, what should the fine associated with violating Missouri's seat belt law be? ശ 4.3% ω 5.7% 9 5.5% ω 5.2% 5 5.9% თ 7.2% 2 7.8% 5.9% 64 **Over** \$100 12.1% 5.0% 10.5% 16 12.8% 110 10.2% 17 17 11.0% 9.7% 16 10.5% 19 18 ~ \$75 - \$100 23.6% 25.8% 35 18.4% 228 20.0% 21.0% 18.8% 20.3% 21.1% 28 33 38 4 23 3 \$50 - \$74 47.1% 66 40.6% 48.9% 40.0% 470 43.5% 00 42.9% 44.8% 63 9 50 59 38.6% 8 \$25 - \$49 192 15.7% 29 20.7% 32 17.7% 25 16.1% 14.5% 24 19.2% 33 21.6% 17.8% 22 27 Under \$25 % within Districts Count Count Count Count Count Count Count Count Ш Z CO ₹ SW 8 SП S Districts Total

169 of 467

# Table 23: District by Question 3b

## Table 24: District by Question 4

-		u	y police? Crossta	bulation		
			In the past 60 c	lays, have you rea	d, seen or heard	
			anything about s	eat belt law enford	cement by police?	
					No	
			Yes	No	Opinion/Refused	Total
Districts	NW	Count	74	287	1	362
		% within Districts	20.4%	79.3%	0.3%	100.0%
	NE	Count	78	284	1	363
		% within Districts	21.5%	78.2%	0.3%	100.0%
	KC	Count	71	282	1	354
		% within Districts	20.1%	79.7%	0.3%	100.0%
	CD	Count	51	304	2	357
		% within Districts	14.3%	85.2%	0.6%	100.0%
	SL	Count	63	293	0	356
		% within Districts	17.7%	82.3%	0.0%	100.0%
	SW	Count	56	297	0	353
		% within Districts	15.9%	84.1%	0.0%	100.0%
	SE	Count	57	299	1	357
		% within Districts	16.0%	83.8%	0.3%	100.0%
Total		Count	450	2046	6	2502
		% within Districts	18.0%	81.8%	0.2%	100.0%

#### Districts \* In the past 60 days, have you read, seen or heard anything about seat belt law enforcement by police? Crosstabulation

Table 25: District by Question 5

Districts \* What do you think the chances are of getting a ticket if you don't wear your safety belt? Crosstabulation

				נוומווכבי מוב טו קבונוווץ מ נוכאבו זו אטת מטו ו אבמו אטתו צמובוא שבוו: כוטכאנמטתומווטוו	a licket II you uoli	L WEAL YOUL SALE	ity bein: Olossi	abulation	
			What	What do you think the chances are of getting a ticket if you don't wear your safety belt?	ances are of getting	a ticket if you dor	i't wear your safe	sty belt?	
								No	
			Always	Most of the time	Half of the time	Rarely	Never	Opinion/Refused	Total
Districts	MN	Count	58	68	81	98	27	30	362
		% within Districts	16.0%	18.8%	22.4%	27.1%	7.5%	8.3%	100.0%
	NE	Count	52	55	81	123	22	30	363
		% within Districts	14.3%	15.2%	22.3%	33.9%	6.1%	8.3%	100.0%
	Х С	Count	46	46	61	125	47	29	354
		% within Districts	13.0%	13.0%	17.2%	35.3%	13.3%	8.2%	100.0%
	CD	Count	51	75	61	112	28	30	357
		% within Districts	14.3%	21.0%	17.1%	31.4%	7.8%	8.4%	100.0%
	SL	Count	37	46	61	153	34	25	356
		% within Districts	10.4%	12.9%	17.1%	43.0%	9.6%	7.0%	100.0%
	SW	Count	56	48	72	109	37	31	353
		% within Districts	15.9%	13.6%	20.4%	30.9%	10.5%	8.8%	100.0%
	SE	Count	56	78	74	100	27	22	357
		% within Districts	15.7%	21.8%	20.7%	28.0%	7.6%	6.2%	100.0%
Total		Count	356	416	491	820	222	197	2502
		% within Districts	14.2%	16.6%	19.6%	32.8%	8.9%	7.9%	100.0%

V	)	
Oundation	Internot	
Distant hav		
Table 26.	Laule 20.	

362 100.0% 363 356 353 100.0% 354 100.0% 357 100.0% 100.0% 100.0% 357 100.0% 2502 Total .9% 1.4% 1.1% 0.8% 2.3% 2.0% ß 1.1% ო  $\sim$ ω  $\sim$ 4 4 38 **Opinion/Refused** ٥ On a local road with a speed limit of 30 mph, how often do you drive faster than 35 mph? 112 110 30.4% 102 28.1% 28.5% 27.2% 24.4% 31.7% 98 97 87 27.5% 101 707 Never 162 44.8% 161 44.4% 44.4% 165 46.2% 161 45.2% 149 42.2% 150 42.0% 1105 157 Rarely 42 49 43 49 40 11.6% 13.5% 14.1% 12.0% 13.8% 11.3% 55 15.4% 328 50 Half of the time 13.2% Most of the time 9.1% 9.9% 7.9% 10.1% 47 9.1% 11.5% 253 33 36 28 36 32 4 2.0% 2 3.3% ω 2.2% 10 2.8% ດ 2.5%  $\sim$ 16 .5% ი .5% 7 Always 4 N % within Districts Count Count Count Count Count Count Count Count SW ₹ ЩZ Х О 0 SП SL Districts Total

Districts \* On a local road with a speed limit of 30 mph, how often do you drive faster than 35 mph? Crosstabulation

100.0%

.5%

28.3%

44.2%

13.1%

10.1%

2.8%

% within Districts

Table 27: District by Question 7

362 100.0% 363 356 100.0% 2502 100.0% 354 100.0% 357 100.0% 100.0% 353 100.0% 100.0% 357 Total 0.8% 0.0% 0.8% 0.0% 0.4% 0.3% 0.3% 0 0.3% ი ო ~ <del>~</del> ო 0 **Opinion/Refused** ŝ Districts \* On a local road with a speed limit of 70 mph, how often do you drive faster than 75 mph? Crosstabulation On a local road with a speed limit of 70 mph, how often do you drive faster than 75 mph? 188 1275 193 53.2% 50.0% 180 50.4% 162 45.5% 192 54.4% 183 51.0% 51.9% 177 51.3% Never 119 122 33.7% 125 34.4% 140 39.5% 129 36.1% 139 33.7% 125 35.0% 899 35.9% 39.0% Rarely 26 20 159 7.2% 20 5.5% 17 4.8% 5.6% 8.7% 22 6.2% 23 6.4% 6.4% 3 Half of the time 4.0% 5.3% 3.4% 117 19 5.2% 5 4.1% 4 9 4.8% 2 5.9% 4.7% Most of the time 4 5 1.4% 2.5% 43 1.7% ဖ 1.7%  $\sim$ %6. S ი ဖ 1.7% S 1.4% S 1.4% Always % within Districts Count Count Count Count Count Count Count Count ₹ SW ШZ 8 0 S S Districts Total

173 of 467

## Table 28: District by Question 8

			police? Crosstabu			
			In the past 30 c	lays, have you rea	d, seen or heard	
			anything abo	ut speed enforcem	ent by police?	
					No	
			Yes	No	Opinion/Refused	Total
Districts	NW	Count	101	258	3	362
		% within Districts	27.9%	71.3%	0.8%	100.0%
	NE	Count	110	250	3	363
		% within Districts	30.3%	68.9%	0.8%	100.0%
	KC	Count	100	254	0	354
		% within Districts	28.2%	71.8%	0.0%	100.0%
	CD	Count	92	260	5	357
		% within Districts	25.8%	72.8%	1.4%	100.0%
	SL	Count	102	252	2	356
		% within Districts	28.7%	70.8%	0.6%	100.0%
	SW	Count	71	282	0	353
		% within Districts	20.1%	79.9%	0.0%	100.0%
	SE	Count	77	279	1	357
		% within Districts	21.6%	78.2%	0.3%	100.0%
Total		Count	653	1835	14	2502
		% within Districts	26.1%	73.3%	0.6%	100.0%

# Districts \* In the past 30 days, have you read, seen or heard anything about speed enforcement by police? Crosstabulation

 Table 29: District by Question 9

Districts \* What do you think the chances are of getting a ticket if you drive over the speed limit? Crosstabulation

					a ticket II you ally			12 diadioi	I
			Wha	What do you think the chances are of getting a ticket if you drive over the speed limit?	ances are of getting	a ticket if you dri	ve over the spee	ed limit?	
								No	
			Always	Most of the time	Half of the time	Rarely	Never	Opinion/Refused	Total
Districts	MN	Count	31	84	136	85	11	15	362
		% within Districts	8.6%	23.2%	37.6%	23.5%	3.0%	4.1%	100.0%
	NE	Count	27	100	129	29	10	18	363
		% within Districts	7.4%	27.5%	35.5%	21.8%	2.8%	5.0%	100.0%
	¥ K	Count	32	80	137	84	13	œ	354
		% within Districts	9.0%	22.6%	38.7%	23.7%	3.7%	2.3%	100.0%
	CD	Count	30	84	125	97	10	1	357
		% within Districts	8.4%	23.5%	35.0%	27.2%	2.8%	3.1%	100.0%
	SL	Count	20	68	127	123	11	2	356
		% within Districts	5.6%	19.1%	35.7%	34.6%	3.1%	2.0%	100.0%
	SW	Count	30	92	108	92	20	11	353
		% within Districts	8.5%	26.1%	30.6%	26.1%	5.7%	3.1%	100.0%
	SE	Count	36	95	122	82	11	11	357
		% within Districts	10.1%	26.6%	34.2%	23.0%	3.1%	3.1%	100.0%
Total		Count	206	603	884	642	86	81	2502
		% within Districts	8.2%	24.1%	35.3%	25.7%	3.4%	3.2%	100.0%

9
n J
tion
esti
ð
Å
<b>_</b>
trict
istri
Ā
÷
30:
able
[ab]

356 362 100.0% 363 100.0% 354 100.0% 357 100.0% 100.0% 353 100.0% 357 100.0% 2502 100.0% Total 0.3% ო 0.8% 0.0% 0 ო 0.8% 0.4% 0 0.0% 0.3% ო 0.8% 5 **Opinion/Refused** Districts \* How often do you talk on a hand-held cellular phone while driving a car, van, sport utility vehicle, or pick-up? Crosstabulation How often do you talk on a hand-held cellular phone while driving a car, van, sport utility vehicle, or pick-up? ٩ 175 46.1% 41.6% 44.9% 44.0% 49.2% 44.5% 46.8% 1133 45.3% 167 151 159 157 167 157 Never 43.9% 166 45.7% 143 149 156 44.1% 165 46.2% 40.2% 41.6% 1085 43.4% 159 147 41.7% Rarely 7.3% 205 9.9% 29 8.2% 6.4% 26 36 10.2% 29 8.1% 8.2% 26 7.2% 36 23 Half of the time 2.2% 1.1% ശ 1.7% 2.2% 2.2% 2.3% 2.2% 2.0% ω 4 ω ω ω ω 50 Most of the time 0.3% 0.8% 1.1% 1.1% 0.3% 1.1% 0.7% ო 0.3% 3 4 4 4 Always % within Districts Count Count Count Count Count Count Count Count NN А О 0 Ш Z SW SП 2 Districts Total

Table 31: District by Question 11

356 362 100.0% 363 100.0% 354 100.0% 357 100.0% 100.0% 353 100.0% 100.0% 2502 357 Total Districts \* How often do you use a hand-held cellular phone for texting while driving a car, van, sport utility vehicle, or pick-up? Crosstabulation 2 ი 0 0 2 ω 0.6% 0.8% 0.0% 0.0% 0.3% 0.6% 0 0.0% **Opinion/Refused** How often do you use a hand-held cellular phone for texting while driving a car, van, sport utility vehicle, or pick-up? ů 316 88.7% 325 89.5% 89.3% 322 90.2% 330 92.7% 321 90.9% 326 91.3% 2261 321 Never 216 35 9.7% 9.4% 38 10.7% 9.5% 23 6.5% 6.8% 28 7.8% 34 34 24 Rarely ო 0 2 2 0.6% 0.8% 0.3% 0.0% 0.3% 0.6% 4 1.1% 33 Half of the time 0.3% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0.3% 0.3% ო ~ Most of the time 0.0% 0.0% 0.0% 0.0% 0 0 0 0.0% 0 0 0.0% 0.3% 0 Always % within Districts Count Count Count Count Count Count Count Count ₹ SW А С 0 SЕ ШZ S Districts Total

# 177 of 467

100.0%

0.3%

90.4%

8.6%

0.5%

0.1%

0.0%

% within Districts

estion 12
õ
by
istrict
Dis
32:
Table

Districts \* Many states have passed laws which restrict or ban cellular phone use, including texting, while driving. What level of restrictions would you support

			regarding cell	cellular phone usa	lular phone usage while driving? Crosstabulation	Crosstabulation			
			Many states have	passed laws which r	Many states have passed laws which restrict or ban cellular phone use, including texting, while driving. What level of	r phone use, includii	ng texting, while driv	ing. What level of	
				restrictions would	restrictions would you support regarding cellular phone usage while driving?	ig cellular phone us	age while driving?		
					Ban on Texting				
			Full Restrictions -	Ban on Texting	While Driving,				
			No Cellular	While Driving,	Hands-Free	Hands-Free			
			Phone Use	Phone Use	Phone Device	Phone Device		No	
			Allowed	Allowed	Allowed	Use Only	No Restrictions	<b>Opinion/Refused</b>	Total
Districts	MN	Count	115	75	66	75	15	16	362
		% within Districts	31.8%	20.7%	18.2%	20.7%	4.1%	4.4%	100.0%
	NE	Count	106	75	49	104	17	12	363
		% within Districts	29.2%	20.7%	13.5%	28.7%	4.7%	3.3%	100.0%
	Х С	Count	110	61	53	101	16	13	354
		% within Districts	31.1%	17.2%	15.0%	28.5%	4.5%	3.7%	100.0%
	CD	Count	106	68	61	105	12	S	357
		% within Districts	29.7%	19.0%	17.1%	29.4%	3.4%	1.4%	100.0%
	SL	Count	110	49	69	66	18	11	356
		% within Districts	30.9%	13.8%	19.4%	27.8%	5.1%	3.1%	100.0%
	SW	Count	114	71	50	94	12	12	353
		% within Districts	32.3%	20.1%	14.2%	26.6%	3.4%	3.4%	100.0%
	SE	Count	111	70	53	66	10	14	357
		% within Districts	31.1%	19.6%	14.8%	27.7%	2.8%	3.9%	100.0%
Total		Count	772	469	401	677	100	83	2502
		% within Districts	30.9%	18.7%	16.0%	27.1%	4.0%	3.3%	100.0%

In the past 60 c			y times h coholic b	-					o (2) hou	urs after
				g-		Districts				
			NW	NE	KC	CD	SL	SW	SE	Total
	0	Count	327	327	323	321	299	326	334	2257
	U	%	90.3%	90.1%	91.2%	89.9%	84.0%	92.4%	93.6%	90.2%
	1	Count	10	9	9	5	14	6	4	57
	-	%	2.8%	2.5%	2.5%	1.4%	3.9%	1.7%	1.1%	2.3%
	2	Count	11	8	4	9	14	5	6	57
		%	3.0%	2.2%	1.1%	2.5%	3.9%	1.4%	1.7%	2.3%
	3	Count	2	0	2	0	7	1	0	12
		%	.6%	0.0%	.6%	0.0%	2.0%	.3%	0.0%	.5%
	4	Count	1	3	2	1	5	1	1	14
		%	.3%	.8%	.6%	.3%	1.4%	.3%	.3%	.6%
In the past 60	5	Count	1	2	0	1	3	0	0	7
days, how		%	.3%	.6%	0.0%	.3%	.8%	0.0%	0.0%	.3%
many times have you driven a motor vehicle within two (2) hours after drinking alcoholic beverages?	6	Count	0	0	1	1	3	0	0	5
		%	0.0%	0.0%	.3%	.3%	.8%	0.0%	0.0%	.2%
	7	Count	0	0	0	0	1	0	0	1
		%	0.0%	0.0%	0.0%	0.0%	.3%	0.0%	0.0%	.0%
	8	Count	0	1	1	0	0	1	0	3
		%	0.0%	.3%	.3%	0.0%	0.0%	.3%	0.0%	.1%
	10	Count	0	0	0	0	1	0	1	2
	10	%	0.0%	0.0%	0.0%	0.0%	.3%	0.0%	.3%	.1%
	12	Count	0	0	1	1	1	0	0	3
	12	%	0.0%	0.0%	.3%	.3%	.3%	0.0%	0.0%	.1%
	16	Count	0	0	0	0	1	0	0	1
	10	%	0.0%	0.0%	0.0%	0.0%	.3%	0.0%	0.0%	.0%
	20	Count	0	0	0	2	1	0	0	3
	20	%	0.0%	0.0%	0.0%	.6%	.3%	0.0%	0.0%	.1%
	30	Count	0	0	0	1	0	0	0	1
	- 50	%	0.0%	0.0%	0.0%	.3%	0.0%	0.0%	0.0%	.0%
	Refus	Count	10	13	11	15	6	13	11	79
	ed	%	2.8%	3.6%	3.1%	4.2%	1.7%	3.7%	3.1%	3.2%
Total		Count	362	363	354	357	356	353	357	2502
rotal		%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

### Table 33: District by Question 13

### Table 34: District by Question 14

-		(0		Dolice Clossiable		
			anything about	ays, have you rea alcohol impaired o ) enforcement by	driving (or drunk	
					No	
			Yes	No	Opinion/Refused	Total
Districts	NW	Count	190	171	1	362
		% within Districts	52.5%	47.2%	0.3%	100.0%
	NE	Count	182	177	4	363
		% within Districts	50.1%	48.8%	1.1%	100.0%
	KC	Count	174	178	2	354
		% within Districts	49.2%	50.3%	0.6%	100.0%
	CD	Count	173	182	2	357
		% within Districts	48.5%	51.0%	0.6%	100.0%
	SL	Count	165	187	4	356
		% within Districts	46.3%	52.5%	1.1%	100.0%
	SW	Count	158	194	1	353
		% within Districts	44.8%	55.0%	0.3%	100.0%
	SE	Count	178	177	2	357
		% within Districts	49.9%	49.6%	0.6%	100.0%
Total		Count	1220	1266	16	2502
		% within Districts	48.8%	50.6%	0.6%	100.0%

# Districts \* In the past 30 days, have you read, seen or heard anything about alcohol impaired driving (or drunk driving) enforcement by police? Crosstabulation

Table 35: District by Question 15

Districts \* What do you think the chances are of someone getting arrested if they drive after drinking? Crosstabulation

		What do you think the chances are of someone getting arrested if they drive after drinking?	What d	What do you think the chances are of someone getting arrested if they drive after drinking?	ices are of someone	getting arrested i	f they drive after o	1rinking?	
								oN	
			Always	Most of the time	Half of the time	Rarely	Never	Opinion/Refused	Total
Districts	MN	Count	47	78	131	98	4	4	362
		% within Districts	13.0%	21.5%	36.2%	27.1%	1.1%	1.1%	100.0%
	NE	Count	53	89	134	74	~	12	363
		% within Districts	14.6%	24.5%	36.9%	20.4%	0.3%	3.3%	100.0%
	КC	Count	40	68	130	97	Ð	14	354
		% within Districts	11.3%	19.2%	36.7%	27.4%	1.4%	4.0%	100.0%
	C	Count	57	78	109	89	4	20	357
		% within Districts	16.0%	21.8%	30.5%	24.9%	1.1%	5.6%	100.0%
	SL	Count	29	20	126	117	4	10	356
		% within Districts	8.1%	19.7%	35.4%	32.9%	1.1%	2.8%	100.0%
	SW	Count	68	77	114	29	r	12	353
		% within Districts	19.3%	21.8%	32.3%	22.4%	0.8%	3.4%	100.0%
	SE	Count	64	06	106	80	Ð	12	357
		% within Districts	17.9%	25.2%	29.7%	22.4%	1.4%	3.4%	100.0%
Total		Count	358	550	850	634	26	84	2502
		% within Districts	14.3%	22.0%	34.0%	25.3%	1.0%	3.4%	100.0%

### **Research Questions by Rural/Urban**

Differences between rural and urban communities often show themselves in various research projects. These differences in community are so common that the Nielsen Company has used the US Census data to develop four distinct categories of residence: Highly Urbanized, Relatively Urbanized, Relatively Rural, and Very Rural.

The highly urbanized responses come from the St. Louis area and a few counties adjacent to it. The relatively urbanized responses come from the Kansas City area and a few counties adjacent to it. The rest of the state falls in the categories of relatively rural or very rural. The following table may make this more apparent.

F				n Crosstabulatio			
				Nielse	en		
			Highly	Relatively			
			Urbanized	Urbanized	Relatively Rural	Very Rural	Total
Districts	NW	Count	0	18	38	306	362
		% within Districts	0.0%	5.0%	10.5%	84.5%	100.0%
	NE	Count	43	0	0	320	363
		% within Districts	11.8%	0.0%	0.0%	88.2%	100.0%
	KC	Count	0	236	0	118	354
		% within Districts	0.0%	66.7%	0.0%	33.3%	100.0%
	CD	Count	0	0	43	314	357
		% within Districts	0.0%	0.0%	12.0%	88.0%	100.0%
	SL	Count	356	0	0	0	356
		% within Districts	100.0%	0.0%	0.0%	0.0%	100.0%
	SW	Count	0	0	84	269	353
		% within Districts	0.0%	0.0%	23.8%	76.2%	100.0%
	SE	Count	о	0	14	343	357
		% within Districts	0.0%	0.0%	3.9%	96.1%	100.0%
Total		Count	399	254	179	1670	2502
		% within Districts	15.9%	10.2%	7.2%	66.7%	100.0%

### Table 36: District by Nielson Community Type

### **Districts \* Nielsen Crosstabulation**

It is important to note that some of Nielsen's classifications may not be intuitive for Missourians. For example, most people in Missouri would probably consider Springfield and Jefferson City to be relatively urbanized, but these areas are classified as relatively rural by Nielsen.

The percentages in these tables are by column (not by row as has been the case for most of the tables in this document). This allows readers to quickly see how people in each Nielson Community answered the research questions.

How often do	How often do you use seat belts when yo	م you drive or ride in a car, van, sport utility vehicle, or pick up? * Nielsen Crosstabulation	car, van, sport utility	<u> vehicle, or pick u</u>	p? * Nielsen Cross	tabul ation	ſ
				Nielsen	Ę		
				Relatively			
			Highly Urbanized	Urbanized	Relatively Rural	Very Rural	Total
How often do you use seat	Always	Count	347	217	136	1300	2000
belts when you drive or ride in		% within Nielsen	87.0%	85.4%	76.0%	77.8%	79.9%
a car, van, sport utility vehicle,	Most of the time	Count	23	27	26	220	296
or pick up?		% within Nielsen	5.8%	10.6%	14.5%	13.2%	11.8%
	Half of the time	Count	7	Ð	7	57	76
		% within Nielsen	1.8%	2.0%	3.9%	3.4%	3.0%
	Rarely	Count	Ø	~	Q	50	65
		% within Nielsen	2.0%	0.4%	3.4%	3.0%	2.6%
	Never	Count	13	4	4	40	61
		% within Nielsen	3.3%	1.6%	2.2%	2.4%	2.4%
	No Opinion/Refused	Count	~	0	0	С	4
		% within Nielsen	0.3%	0.0%	0.0%	0.2%	0.2%
Total		Count	399	254	179	1670	2502
		% within Nielsen	100.0%	100.0%	100.0%	100.0%	100.0%

# Table 37: Nielson Community Type by Question 1

183 of 467

2
Question
by
Type
munity
Con
Nielson
Table 38:

Do you favor keeping Missouri's seat belt law as a "secondary law"-where you can only be pulled over or ticketed if you are observed committing another

violation; or	violation; or do you favor changing Missouri'	ouri's seat belt law to a	's seat belt law to a "primary law"—where you can be pulled * Nielsen Crosstabulation	re you can be pull	ed * Nielsen Crosst	tabulation	
				Nielsen	u		
				Relatively			
			Highly Urbanized	Urbanized	Relatively Rural	Very Rural	Total
Do you favor keeping	Keep "secondary law"	Count	207	137	102	988	1434
Missouri's seat belt law as a		% within Nielsen	51.9%	53.9%	57.0%	59.2%	57.3%
"secondary law"—where you	Change to "primary law"	Count	172	101	64	562	899
can only be pulled over or		% within Nielsen	43.1%	39.8%	35.8%	33.7%	35.9%
ticketed if you are observed	No Opinion/Refused	Count	20	16	13	120	169
committing another violation; or		0/this Alisto					
do you favor changing		% within Nielsen					
Missouri's seat belt law to a			5.0%	6.3%	7.3%	7.2%	6.8%
"primary law"—where you can							
be pulled							
Total		Count	399	254	179	1670	2502
		% within Nielsen	100.0%	100.0%	100.0%	100.0%	100.0%

Table 39: Nielson Community Type by Question 3

Currently, the fine for violating Missouri's seat belt law is \$10. Would you support an increase in the fine associated with this violation? \* Nielsen

		Cross	Crosstabulation				
				Nielsen	L		
			Highly Urbanized	Relatively Urbanized	Relativelv Rural	Verv Rural	Total
Currently, the fine for violating Yes	Yes	Count	208	130	80	661	1079
Missouri's seat belt law is \$10.		% within Nielsen	52.1%	51.2%	44.7%	39.6%	43.1%
Would you support an increase No	No	Count	182	122	92	964	1360
in the fine associated with this		% within Nielsen	45.6%	48.0%	51.4%	57.7%	54.4%
violation?	No Opinion/Refused	Count	6	2	7	45	63
		% within Nielsen	2.3%	0.8%	3.9%	2.7%	2.5%
Total		Count	399	254	179	1670	2502
		% within Nielsen	100.0%	100.0%	100.0%	100.0%	100.0%

Table 40: Nielson Community Type by Question 3b

In your opinion, what should the fine associated with violating Missouri's seat belt law be? \* Nielsen Crosstabulation

				Nielsen	u		
				Relatively			
			Highly Urbanized	Urbanized	Relatively Rural	Very Rural	Total
In your opinion, what should	Under \$25	Count	33	22	14	123	192
the fine associated with		% within Nielsen	15.9%	16.8%	17.5%	18.6%	17.8%
violating Missouri's seat belt	\$25 - \$49	Count	67	59	39	275	470
law be?		% within Nielsen	46.6%	45.0%	48.8%	41.6%	43.5%
	\$50 - \$74	Count	41	30	14	143	228
		% within Nielsen	19.7%	22.9%	17.5%	21.6%	21.1%
	\$75 - \$100	Count	18	15	2	20	110
		% within Nielsen	8.7%	11.5%	8.8%	10.6%	10.2%
	Over \$100	Count	15	5	£	39	64
		% within Nielsen	7.2%	3.8%	6.3%	5.9%	5.9%
	No Opinion/Refused	Count	4	0	~	11	16
		% within Nielsen	1.9%	0.0%	1.3%	1.7%	1.5%
Total		Count	208	131	80	661	1080
		% within Nielsen	100.0%	100.0%	100.0%	100.0%	100.0%

Table 41: Nielson Community Type by Question 4

2046 0.2% 2502 100.0% 450 18.0% 81.8% ဖ Total 296 17.7% 1369 82.0% 0.3% 1670 100.0% ß Very Rural In the past 60 days, have you read, seen or heard anything about seat belt law enforcement by police? \* Nielsen Crosstabulation 14.5% 153 85.5% 179 100.0% 26 0 0.0% Relatively Rural Nielsen 100.0% 53 20.9% 200 78.7% 0.4% 254 ~ Urbanized Relatively 324 399 100.0% 75 18.8% 81.2% 0 0.0% Highly Urbanized % within Nielsen % within Nielsen % within Nielsen % within Nielsen Count Count Count Count No Opinion/Refused Yes ۶ In the past 60 days, have you read, seen or heard anything enforcement by police? about seat belt law Total

Table 42: Nielson Community Type by Question 5

356 416 820 222 2502 14.2% 16.6% 491 19.6% 32.8% 8.9% 197 7.9% 100.0% Total 15.4% 18.0% 346 490 29.3% 138 1670 258 301 20.7% 8.3% 137 8.2% 100.0% Very Rural What do you think the chances are of getting a ticket if you don't wear your safety beit? \* Nielsen Crosstabulation 179 100.0% 23 12.8% 30 16.8% 29 16.2% 39.7% 14 7 7.8% 42 6.7% Relatively Rural Nielsen 34.6% 100.0% 34 13.4% 32 12.6% 18.1% 88 35 13.8% 19 7.5% 46 254 Urbanized Relatively 4 10.3% 53 13.3% 70 17.5% 171 42.9% 35 8.8% 29 7.3% 399 100.0% Highly Urbanized % within Nielsen Count Count Count Count Count Count Count No Opinion/Refused Most of the time Half of the time What do you think the chances Always Rarely Never don't wear your safety belt? are of getting a ticket if you Total

Table 43: Nielson Community Type by Question 6

328 1105 2502 2.8% 253 10.1% 13.1% 44.2% 707 28.3% 38 1.5% 100.0% 7 Total 3.2% 214 716 1670 100.0% 168 10.1% 12.8% 42.9% 491 29.4% 1.6% 54 27 Very Rural On a local road with a speed limit of 30 mph, how often do you drive faster than 35 mph? \* Nielsen Crosstabulation 179 100.0% 3 1.7% 7.8% 22 12.3% 92 51.4% 4 47 26.3% ~ 0.6% Relatively Rural Nielsen 115 6 2.4% 19 7.5% 14.6% 45.3% 72 28.3% ß 2.0% 254 37 100.0% Urbanized Relatively ∞ 2.0% 52 13.0% 55 13.8% 182 45.6% 24.3% ß 1.3% 399 100.0% 97 Highly Urbanized % within Nielsen Count Count Count Count Count Count Count No Opinion/Refused Most of the time Half of the time Always Rarely Never you drive faster than 35 mph? limit of 30 mph, how often do On a local road with a speed Total

189 of 467

Table 44: Nielson Community Type by Question 7

43 159 899 1275 2502 1.7% 117 4.7% 6.4% 35.9% 51.0% ი 0.4% 100.0% Total 588 35.2% 868 0.4% 1670 1.9% 4.8% 5.8% 52.0% ശ 100.0% 31 80 97 Very Rural On a local road with a speed limit of 70 mph, how often do you drive faster than 75 mph? \* Nielsen Crosstabulation 179 100.0% 3 1.7% 6 5.0% 7.8% 55 30.7% 4 54.2% ~ 0.6% 97 Relatively Rural Nielsen 100.0% 3 1.2% 10 3.9% 16 6.3% 102 40.2% 122 48.0% 0.4% 254 Urbanized Relatively 399 ဖ 1.5% 18 4.5% 32 8.0% 154 38.6% 188 47.1% 0.3% 100.0% ~ Highly Urbanized % within Nielsen Count Count Count Count Count Count Count No Opinion/Refused Most of the time Half of the time Always Rarely Never you drive faster than 75 mph? limit of 70 mph, how often do On a local road with a speed Total

Table 45: Nielson Community Type by Question 8

653 1835 0.6% 2502 100.0% 26.1% 73.3% 4 Total 415 24.9% 1243 74.4% 12 0.7% 1670 100.0% Very Rural In the past 30 days, have you read, seen or heard anything about speed enforcement by police? \* Nielsen Crosstabulation 23.5% 76.5% 179 100.0% 42 0 0.0% 137 Relatively Rural Nielsen 75 179 100.0% 29.5% 70.5% 0 0.0% 254 Urbanized Relatively 276 399 100.0% 121 30.3% 69.2% 2 0.5% Highly Urbanized % within Nielsen % within Nielsen % within Nielsen % within Nielsen Count Count Count Count No Opinion/Refused Yes ٩ In the past 30 days, have you read, seen or heard anything about speed enforcement by police? Total

C-27

Table 46: Nielson Community Type by Question 9

206 603 642 2502 100.0% 8.2% 24.1% 884 35.3% 25.7% 86 3.4% 3.2% 8 Total 149 438 26.2% 34.9% 385 23.1% 3.4% 1670 8.9% 582 56 00 3.6% 100.0% Very Rural 179 100.0% 14 7.8% 35 19.6% 32.4% 59 33.0% 9 5.0% 4 58 2.2% Relatively Rural Nielsen 22 8.7% 53 20.9% 100 39.4% 65 25.6% ω 3.1% ശ 2.4% 254 100.0% Relatively Urbanized 133 399 100.0% 5.3% 77 19.3% 144 36.1% 33.3% 13 3.3% £ 2.8% 5 Highly Urbanized % within Nielsen Count Count Count Count Count Count Count No Opinion/Refused Most of the time Half of the time What do you think the chances Always Rarely Never are of getting a ticket if you drive over the speed limit? Total

# What do you think the chances are of getting a ticket if you drive over the speed limit? \* Nielsen Crosstabulation

Table 47: Nielson Community Type by Question 10

18 205 1085 1133 2502 0.7% 2.0% 8.2% 43.4% 45.3% 0.4% 100.0% 50 ÷ Total How often do you talk on a hand-held cellular phone while driving a car, van, sport utility vehicle, or pick-up? \* Nielsen Crosstabulation 0.7% 136 42.6% 770 1670 2.0% 8.1% 711 46.1% ω 0.5% 100.0% ÷ 8 Very Rural 52.0% 179 100.0% 2 1.1% З 1.7% 15 8.4% 93 66 0 0.0% 36.9% Relatively Rural Nielsen 118 3 1.2% 5 20 7.9% 46.5% 108 0 0.0% 2.0% 42.5% 254 100.0% Urbanized Relatively 2 0.5% ∞ 2.0% 34 8.5% 163 40.9% 189 47.4% ო 0.8% 399 100.0% Highly Urbanized % within Nielsen Count Count Count Count Count Count Count No Opinion/Refused Most of the time Half of the time Always Rarely Never hand-held cellular phone while driving a car, van, sport utility How often do you talk on a vehicle, or pick-up? Total

193 of 467

Table 48: Nielson Community Type by Question 11

0.1% 216 2502 100.0% 0.0% 13 0.5% 8.6% 2261 90.4% 0.3% ო ω Total How often do you use a hand-held cellular phone for texting while driving a car, van, sport utility vehicle, or pick-up? \* Nielsen Crosstabulation 0.1% 142 8.5% 1508 1670 0.1% 2 9 0.6% 90.3% 0.4% 100.0% <del>、</del>  $\sim$ Very Rural 159 179 100.0% 0 0.0% 0.6% 0.6% 18 10.1% 88.8% 0 0.0% ~ Relatively Rural Nielsen 88.6% 0 0.0% 0 0.0% 0 0.0% 29 11.4% 225 0 0.0% 254 100.0% Relatively Urbanized 369 399 100.0% 0 0.0% 0 0.0% 2 0.5% 6.8% 92.5% 0.3% 27 ~ Highly Urbanized % within Nielsen Count Count Count Count Count Count Count No Opinion/Refused Most of the time Half of the time Always Rarely Never How often do you use a handheld cellular phone for texting while driving a car, van, sport utility vehicle, or pick-up? Total

Table 49: Nielson Community Type by Question 12

Many states have passed laws which restrict or ban cellular phone use, including texting, while driving. What level of restrictions would you support regarding

	cellular p	cellular phone usage while driving? * Nielsen Crosstabulation	ving? * Nielsen Cros	stabulation			
				Nielsen	Ц		
				Relatively			
			Highly Urbanized	Urbanized	Relatively Rural	Very Rural	Total
Many states have passed laws	Full Restrictions - No Cellular	Count	120	73	51	528	772
which restrict or ban cellular	Phone Use Allowed	% within Nielsen	30.1%	28.7%	28.5%	31.6%	30.9%
phone use, including texting,	Ban on Texting While Driving,	Count	63	50	30	326	469
while driving. What level of	Phone Use Allowed	% within Nielsen	15.8%	19.7%	16.8%	19.5%	18.7%
restrictions would you support	Ban on Texting While Driving,	Count	23	40	35	253	401
regarding cendar priore usage while driving?	Hands-Free Phone Device Allowed	% within Nielsen	18.3%	15.7%	19.6%	15.1%	16.0%
	Hands-Free Phone Device Use	Count	111	69	51	446	677
	Only	% within Nielsen	27.8%	27.2%	28.5%	26.7%	27.1%
	No Restrictions	Count	20	13	4	63	100
		% within Nielsen	5.0%	5.1%	2.2%	3.8%	4.0%
	No Opinion/Refused	Count	12	σ	Ø	54	83
		% within Nielsen	3.0%	3.5%	4.5%	3.2%	3.3%
Total		Count	399	254	179	1670	2502
		% within Nielsen	100.0%	100.0%	100.0%	100.0%	100.0%

				ve you drive verages? * N			
				Niels	en		
			Highly Urbanized	Relatively Urbanized	Relatively Rural	Very Rural	Total
	0	Count	336	235	162	1524	2257
	0	%	84.2%	92.5%	90.5%	91.3%	90.2%
	1	Count	15	7	4	31	57
	1	%	3.8%	2.8%	2.2%	1.9%	2.3%
	0	Count	15	3	6	33	57
	2	%	3.8%	1.2%	3.4%	2.0%	2.3%
	0	Count	7	1	1	3	12
	3	%	1.8%	.4%	.6%	.2%	.5%
	4	Count	6	0	2	6	14
In the past	4	%	1.5%	0.0%	1.1%	.4%	.6%
60 days,	F	Count	4	0	0	3	7
how many	5	%	1.0%	0.0%	0.0%	.2%	.3%
times have you driven a motor	c	Count	3	0	1	1	5
	6	%	.8%	0.0%	.6%	.1%	.2%
	7	Count	1	0	0	0	1
vehicle within two	7	%	.3%	0.0%	0.0%	0.0%	.0%
(2) hours	0	Count	0	1	0	2	3
after	8	%	0.0%	.4%	0.0%	.1%	.1%
drinking	10	Count	1	0	0	1	2
alcoholic	10	%	.3%	0.0%	0.0%	.1%	.1%
beverages?	12	Count	1	0	0	2	3
	12	%	.3%	0.0%	0.0%	.1%	.1%
	16	Count	1	0	0	0	1
	10	%	.3%	0.0%	0.0%	0.0%	.0%
	20	Count	1	0	1	1	3
	20	%	.3%	0.0%	.6%	.1%	.1%
	20	Count	0	0	0	1	1
	30	%	0.0%	0.0%	0.0%	.1%	.0%
	Defueed	Count	8	7	2	62	79
	Refused	%	2.0%	2.8%	1.1%	3.7%	3.2%
Total	•	Count	399	254	179	1670	2502
		%	100.0%	100.0%	100.0%	100.0%	100.0%

# Table 50: Nielson Community Type by Question 13

Table 51: Nielson Community Type by Question 14

1266 16 2502 100.0% 1220 48.8% 50.6% 0.6% In the past 30 days, have you read, seen or heard anything about alcohol impaired driving (or drunk driving) enforcement by police? \* Nielsen Crosstabulation Total 813 48.7% 0.6% 1670 847 50.7% 9 100.0% Very Rural 52.5% 179 46.9% 0.6% 8 8 ~ 100.0% **Relatively Rural** Nielsen 100.0% 50.0% 126 49.6% 0.4% 127 254 <u>\_\_\_\_</u> Urbanized Relatively 209 399 100.0% 186 46.6% 52.4% 4 1.0% Highly Urbanized % within Nielsen % within Nielsen % within Nielsen % within Nielsen Count Count Count Count No Opinion/Refused Yes ۶ about alcohol impaired driving (or drunk driving) enforcement In the past 30 days, have you read, seen or heard anything by police? Total

Table 52: Nielson Community Type by Question 15

358 634 2502 14.3% 550 22.0% 850 34.0% 25.3% 26 1.0% 3.4% 100.0% 84 Total 276 16.5% 393 23.5% 565 362 21.7% 1670 33.8% 8 1.1% 56 3.4% 100.0% Very Rural What do you think the chances are of someone getting arrested if they drive after drinking? \* Nielsen Crosstabulation 18.4% 179 100.0% 23 12.8% 33 28.5% 66 36.9% 5 2.8% 51 ~ 0.6% Relatively Rural Nielsen 100.0% 24 9.4% 50 19.7% 34.3% 78 30.7% ო 1.2% 12 4.7% 254 87 Urbanized Relatively 399 35 8.8% 74 18.5% 147 36.8% 128 32.1% 4 1.0% 1 2.8% 100.0% Highly Urbanized % within Nielsen Count Count Count Count Count Count Count No Opinion/Refused Most of the time Half of the time What do you think the chances Always Rarely Never arrested if they drive after are of someone getting drinking? Total

198 of 467

## Appendix D: Demographics

### Table 53: Question a

		Are you a l	icensea wis	souri driver?	
					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	Yes	2502	100.0	100.0	100.0

### Are you a licensed Missouri driver?

### Table 54: Question b

What is your age?						
[					Cumulative	
		Frequency	Percent	Valid Percent	Percent	
Valid	18 to 29	354	14.1	14.1	14.1	
	30 to 39	355	14.2	14.2	28.3	
	40 to 49	515	20.6	20.6	48.9	
	50 to 64	610	24.4	24.4	73.3	
	65 and up	668	26.7	26.7	100.0	
	Total	2502	100.0	100.0		

### What is your age?

### Table 55: Question c

	Gender						
					Cumulative		
		Frequency	Percent	Valid Percent	Percent		
Valid	Female	1283	51.3	51.3	51.3		
	Male	1219	48.7	48.7	100.0		
	Total	2502	100.0	100.0			

### Table 56: Question d

### What is your ethnicity?

					Cumulative
	-	Frequency	Percent	Valid Percent	Percent
Valid	American Indian or Alaska Native	44	1.8	1.8	1.8
	American Indian or Alaska Native, and Asian	1	.0	.0	1.8
	American Indian or Alaska Native, and Black or African American	1	.0	.0	1.8
	American Indian or Alaska Native, and Native Hawaiian or Other Pacific Islander	1	.0	.0	1.9
	American Indian or Alaska Native, and White	17	.7	.7	2.6
	Asian	7	.3	.3	2.8
	Asian, and White	4	.2	.2	3.0
	Black or African American	52	2.1	2.1	5.1
	Black or African American, and Hispanic or Latino, and Native Hawaiian or Other Pacific Islander	1	.0	.0	5.1
	Black or African American, and White	8	.3	.3	5.4
	Hispanic or Latino	31	1.2	1.2	6.7
	Hispanic or Latino, and White	2	.1	.1	6.8
	Native Hawaiian or Other Pacific Islander	6	.2	.2	7.0
	Native Hawaiian or Other Pacific Islander, and White	2	.1	.1	7.1
	Refused	66	2.6	2.6	9.7
	White	2259	90.3	90.3	100.0
	Total	2502	100.0	100.0	

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	Car	1002	40.0	40.0	40.0
	Van or Minivan	330	13.2	13.2	53.2
	Motorcycle	8	.3	.3	53.6
	Sport Utility Vehicle or	535	21.4	21.4	74.9
	Crossover	555	21.4	21.4	/4.5
	Pickup Truck	570	22.8	22.8	97.
	Other type of truck	50	2.0	2.0	99.
	No Opinion/Refused	7	.3	.3	100.
	Total	2502	100.0	100.0	

Is the car you drive most often a:

### Table 58: Question f

In what count	y do you	currently live?
---------------	----------	-----------------

			you currenti		Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	ADAIR	22	.9	.9	.9
	ANDREW	18	.7	.7	1.6
	ATCHISON	17	.7	.7	2.3
	AUDRAIN	21	.8	.8	3.1
	BARRY	17	.7	.7	3.8
	BARTON	18	.7	.7	4.5
	BATES	18	.7	.7	5.2
	BENTON	16	.6	.6	5.9
	BOLLINGER	15	.6	.6	6.5
	BOONE	20	.8	.8	7.3
	BUCHANAN	20	.8	.8	8.1
	BUTLER	14	.6	.6	8.6
	CALDWELL	18	.7	.7	9.4
	CALLAWAY	20	.8	.8	10.2
	CAMDEN	20	.8	.8	11.0
	CAPE GIRARDEAU	14	.6	.6	11.5

_				
CARROLL	18	.7	.7	12.2
CARTER	14	.6	.6	12.8
CASS	39	1.6	1.6	14.3
CEDAR	16	.6	.6	15.0
CHARITON	17	.7	.7	15.7
CHRISTIAN	17	.7	.7	16.3
CLARK	21	.8	.8	17.2
CLAY	42	1.7	1.7	18.9
CLINTON	18	.7	.7	19.6
COLE	21	.8	.8	20.4
COOPER	20	.8	.8	21.2
CRAWFORD	19	.8	.8	22.0
DADE	16	.6	.6	22.6
DALLAS	16	.6	.6	23.3
DAVIESS	18	.7	.7	24.0
DEKALB	20	.8	.8	24.8
DENT	19	.8	.8	25.5
DOUGLAS	14	.6	.6	26.1
DUNKLIN	15	.6	.6	26.7
FRANKLIN	73	2.9	2.9	29.6
GASCONADE	20	.8	.8	30.4
GENTRY	18	.7	.7	31.1
GREENE	17	.7	.7	31.8
GRUNDY	17	.7	.7	32.5
HARRISON	12	.5	.5	33.0
HENRY	17	.7	.7	33.7
HICKORY	16	.6	.6	34.3
HOLT	18	.7	.7	35.0
HOWARD	19	.8	.8	35.8
HOWELL	14	.6	.6	36.3
IRON	14	.6	.6	36.9
JACKSON	39	1.6	1.6	38.4
JASPER	17	.7	.7	39.1
JEFFERSON	70	2.8	2.8	41.9
JOHNSON	40	1.6	1.6	43.5

	_		_	
KNOX	24	1.0	1.0	44.5
LACLEDE	18	.7	.7	45.2
LAFAYETTE	38	1.5	1.5	46.7
LAWRENCE	17	.7	.7	47.4
LEWIS	21	.8	.8	48.2
LINCOLN	21	.8	.8	49.1
LINN	19	.8	.8	49.8
LIVINGSTON	19	.8	.8	50.6
MACON	20	.8	.8	51.4
MADISON	14	.6	.6	52.0
MARIES	20	.8	.8	52.8
MARION	21	.8	.8	53.6
MCDONALD	16	.6	.6	54.2
MILLER	19	.8	.8	55.0
MISSISSIPPI	15	.6	.6	55.6
MONITEAU	23	.9	.9	56.5
MONROE	20	.8	.8	57.3
MONTGOMERY	21	.8	.8	58.2
MORGAN	19	.8	.8	58.9
NEW MADRID	14	.6	.6	59.5
NEWTON	18	.7	.7	60.2
NODAWAY	51	2.0	2.0	62.2
OREGON	14	.6	.6	62.8
OSAGE	19	.8	.8	63.5
OZARK	15	.6	.6	64.1
PEMISCOT	16	.6	.6	64.8
PERRY	15	.6	.6	65.4
PETTIS	39	1.6	1.6	66.9
PHELPS	20	.8	.8	67.7
PIKE	21	.8	.8	68.6
PLATTE	39	1.6	1.6	70.1
POLK	17	.7	.7	70.8
PULASKI	19	.8	.8	71.6
PUTNAM	9	.4	.4	71.9
RALLS	20	.8	.8	72.7

RANDOLPH	36	1.4	1.4	74.2
RAY	39	1.6	1.6	75.7
REYNOLDS	14	.6	.6	76.3
RIPLEY	14	.6	.6	76.9
SAINT CHARLES	71	2.8	2.8	79.7
SAINT CLAIR	16	.6	.6	80.3
SAINT FRANCOIS	14	.6	.6	80.9
SAINT LOUIS	70	2.8	2.8	83.7
SAINT LOUIS CITY	72	2.9	2.9	86.6
SAINTE GENEVIEVE	14	.6	.6	87.1
SALINE	39	1.6	1.6	88.7
SCHUYLER	21	.8	.8	89.5
SCOTLAND	11	.4	.4	90.0
SCOTT	14	.6	.6	90.5
SHANNON	13	.5	.5	91.0
SHELBY	20	.8	.8	91.8
STODDARD	14	.6	.6	92.4
STONE	17	.7	.7	93.1
SULLIVAN	18	.7	.7	93.8
TANEY	17	.7	.7	94.5
TEXAS	14	.6	.6	95.0
VERNON	17	.7	.7	95.7
WARREN	22	.9	.9	96.6
WASHINGTON	22	.9	.9	97.5
WAYNE	14	.6	.6	98.0
WEBSTER	17	.7	.7	98.7
WORTH	17	.7	.7	99.4
WRIGHT	15	.6	.6	100.0
Total	2502	100.0	100.0	

### Table 59: Question g

What is your home zip	code?
-----------------------	-------

					Cumulative
	_	Frequency	Percent	Valid Percent	Percent
Valid	63005	1	.0	.0	.0
	63010	13	.5	.5	.6
	63011	4	.2	.2	.7
	63012	3	.1	.1	.8
	63013	4	.2	.2	1.0
	63015	1	.0	.0	1.0
	63016	1	.0	.0	1.1
	63017	3	.1	.1	1.2
	63020	6	.2	.2	1.4
	63021	4	.2	.2	1.6
	63023	2	.1	.1	1.7
	63025	4	.2	.2	1.8
	63026	4	.2	.2	2.0
	63028	7	.3	.3	2.3
	63031	3	.1	.1	2.4
	63033	8	.3	.3	2.7
	63034	1	.0	.0	2.8
	63038	1	.0	.0	2.8
	63039	3	.1	.1	2.9
	63041	1	.0	.0	3.0
	63042	1	.0	.0	3.0
	63043	1	.0	.0	3.0
	63044	1	.0	.0	3.1
	63048	3	.1	.1	3.2
	63049	5	.2	.2	3.4
	63050	4	.2	.2	3.6
	63051	7	.3	.3	3.8
	63052	9	.4	.4	4.2
	63055	3	.1	.1	4.3
	63056	2	.1	.1	4.4
	63060	1	.0	.0	4.4

				-
63061	1	.0	.0	4.5
63069	8	.3	.3	4.8
63070	2	.1	.1	4.9
63071	1	.0	.0	4.9
63072	2	.1	.1	5.0
63074	1	.0	.0	5.0
63077	9	.4	.4	5.4
63080	1	.0	.0	5.4
63084	3	.1	.1	5.6
63089	7	.3	.3	5.8
63090	28	1.1	1.1	7.0
63104	7	.3	.3	7.2
63107	3	.1	.1	7.4
63108	6	.2	.2	7.6
63109	14	.6	.6	8.2
63110	6	.2	.2	8.4
63111	4	.2	.2	8.6
63112	3	.1	.1	8.7
63114	3	.1	.1	8.8
63115	3	.1	.1	8.9
63116	13	.5	.5	9.4
63118	1	.0	.0	9.5
63119	4	.2	.2	9.6
63120	1	.0	.0	9.7
63121	1	.0	.0	9.7
63122	2	.1	.1	9.8
63123	7	.3	.3	10.1
63125	1	.0	.0	10.1
63126	3	.1	.1	10.2
63127	1	.0	.0	10.3
63128	3	.1	.1	10.4
63129	5	.2	.2	10.6
63130	2	.1	.1	10.7
63131	2	.1	.1	10.8
63132	1	.0	.0	10.8

D-8

	10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.8 12.2 12.5 12.8 12.9 13.0 13.1
631371.0.0631394.2.2631412.1.1631463.1.1631473.1.16330110.4.4633039.4.4633049.4.4633347.3.3633363.1.1	<ol> <li>11.0</li> <li>11.1</li> <li>11.2</li> <li>11.3</li> <li>11.4</li> <li>11.8</li> <li>12.2</li> <li>12.5</li> <li>12.8</li> <li>12.9</li> <li>13.0</li> <li>13.1</li> </ol>
631394.2.2631412.1.1631463.1.1631473.1.16330110.4.4633039.4.4633049.4.4633347.3.3633363.1.1	<ol> <li>11.1</li> <li>11.2</li> <li>11.3</li> <li>11.4</li> <li>11.8</li> <li>12.2</li> <li>12.5</li> <li>12.8</li> <li>12.9</li> <li>13.0</li> <li>13.1</li> </ol>
631412.1.1631463.1.1631473.1.16330110.4.4633039.4.4633049.4.4633347.3.3633363.1.1	<ol> <li>11.2</li> <li>11.3</li> <li>11.4</li> <li>11.8</li> <li>12.2</li> <li>12.5</li> <li>12.8</li> <li>12.9</li> <li>13.0</li> <li>13.1</li> </ol>
631463.1.1631473.1.16330110.4.4633039.4.4633049.4.4633347.3.3633363.1.1	<ol> <li>11.3</li> <li>11.4</li> <li>11.8</li> <li>12.2</li> <li>12.5</li> <li>12.8</li> <li>12.9</li> <li>13.0</li> <li>13.1</li> </ol>
631473.1.16330110.4.4633039.4.4633049.4.4633347.3.3633363.1.1	<ol> <li>11.4</li> <li>11.8</li> <li>12.2</li> <li>12.5</li> <li>12.8</li> <li>12.9</li> <li>13.0</li> <li>13.1</li> </ol>
6330110.4.4633039.4.4633049.4.4633347.3.3633363.1.1	11.8 12.2 12.5 12.8 12.9 13.0 13.1
633039.4.4633049.4.4633347.3.3633363.1.1	12.2 12.5 12.8 12.9 13.0 13.1
633049.4.4633347.3.3633363.1.1	12.5 12.8 12.9 13.0 13.1
63334       7       .3       .3         63336       3       .1       .1	12.8 12.9 13.0 13.1
63336 3 .1 .1	12.9 13.0 13.1
	13.0 13.1
63339 2 .1 .1	13.1
63341 1 .0 .0	12.4
63344 2 .1 .1	13.1
63348 2 .1 .1	13.2
63349 2 .1 .1	13.3
63350 3 .1 .1	13.4
63351 3 .1 .1	13.5
63353 5 .2 .2	13.7
63357 4 .2 .2	13.9
63361 13 .5 .5	14.4
63362 4 .2 .2	14.6
63366 9 .4 .4	14.9
63367 5 .2 .2	15.1
63368 6 .2 .2	15.4
63376 11 .4 .4	15.8
63377 2 .1 .1	15.9
63379 8 .3 .3	16.2
63382 6 .2 .2	16.5
63383 7 .3 .3	16.7
63384 3 .1 .1	16.9
63385 10 .4 .4	17.3
63386 1 .0 .0	17.3
63389 4 .2 .2	17.5

	_			
63390	8	.3	.3	17.8
63401	20	.8	.8	18.6
63430	1	.0	.0	18.6
63432	1	.0	.0	18.7
63435	8	.3	.3	19.0
63436	1	.0	.0	19.0
63437	3	.1	.1	19.1
63440	5	.2	.2	19.3
63441	2	.1	.1	19.4
63443	1	.0	.0	19.5
63445	17	.7	.7	20.1
63446	1	.0	.0	20.2
63447	1	.0	.0	20.2
63448	3	.1	.1	20.3
63450	1	.0	.0	20.4
63452	4	.2	.2	20.5
63454	1	.0	.0	20.6
63456	4	.2	.2	20.7
63457	1	.0	.0	20.8
63459	9	.4	.4	21.1
63460	3	.1	.1	21.3
63461	4	.2	.2	21.4
63462	1	.0	.0	21.5
63465	1	.0	.0	21.5
63468	10	.4	.4	21.9
63469	9	.4	.4	22.3
63501	21	.8	.8	23.1
63531	1	.0	.0	23.1
63532	2	.1	.1	23.2
63534	1	.0	.0	23.3
63536	10	.4	.4	23.7
63537	15	.6	.6	24.3
63543	2	.1	.1	24.3
63546	2	.1	.1	24.4
63547	2	.1	.1	24.5

209 of 467	
------------	--

6354811.4.4.44.24.9 $63549$ 7.3.3.25.2 $63551$ 2.1.1.25.3 $63552$ 6.2.2.25.5 $63555$ 5.2.2.26.7 $63556$ 15.6.6.26.3 $63557$ 1.0.0.26.4 $63563$ 4.2.2.26.6 $63655$ 6.2.2.26.6 $63665$ 6.2.2.26.8 $63661$ 2.1.1.27.0 $63620$ 3.1.1.27.1 $63621$ 2.1.1.27.2 $63623$ 4.2.2.27.3 $63624$ 1.0.0.27.4 $63625$ 1.0.0.27.4 $63626$ 1.0.0.27.5 $63627$ 2.1.1.27.5 $63628$ .3.1.1.27.7 $63629$ 4.2.2.27.8 $63630$ .3.1.1.27.9 $63631$ 1.0.0.28.1 $63633$ .2.1.1.28.1 $63634$ .1.0.0.28.1 $63645$ .13.5.5.28.9 $63646$ .1.0.0.28.1 $63653$ .1.0.28.1 $63654$ .3.1.1 $63655$ .1.0.28.1		L			
63551         2         .1         .1         25.3           63552         6         2         2         25.5           63555         5         2         2         25.7           63556         15         6         6         26.3           63557         1         0         0         26.4           63558         1         0         0         26.4           63563         4         2         2         26.6           63565         6         2         2         26.8           63601         2         1         1         27.0           63620         3         .1         .1         27.1           63621         2         1         .1         27.2           63623         4         2         .2         27.3           63624         1         0         0         27.4           63625         1         0         0         27.5           63626         1         0         0         27.5           63626         1         0         0         28.0           63630         3         .1         1 <td< td=""><td>63548</td><td>11</td><td>.4</td><td>.4</td><td>24.9</td></td<>	63548	11	.4	.4	24.9
63552         6         .2         .2         25.5           63555         5         .2         .2         .25.7           63556         15         .6         .6         .26.3           63557         1         .0         .0         .26.4           63558         1         .0         .0         .26.4           63563         .4         .2         .2         .26.6           63565         .6         .2         .2         .26.8           63601         .2         .1         .1         .26.9           63620         .3         .1         .1         .27.0           63621         .2         .1         .1         .27.1           63622         .1         .1         .27.1         .27.4           63623         .4         .2         .2         .27.3           63624         1         .0         .0         .27.4           63625         1         .0         .0         .27.5           63626         1         .0         .0         .27.5           63623         .1         .1         .27.5         .27.6           63630         .1	63549	7	.3	.3	25.2
63555         5         2         2         2         25.7           63556         15         6         .6         26.3           63557         1         .0         .0         26.4           63558         1         .0         .0         26.4           63563         4         .2         .2         26.6           63565         6         .2         .2         .26.8           63601         .2         .1         .1         .26.9           63620         .3         .1         .1         .27.0           63621         .2         .1         .1         .27.1           63622         .2         .1         .1         .27.2           63623         .4         .2         .2         .27.3           63624         1         .0         .0         .27.4           63625         1         .0         .0         .27.5           63627         .2         .1         .1         .27.5           63628         .3         .1         .1         .27.9           63630         .3         .1         .1         .27.9           63633	63551	2	.1	.1	25.3
63556         15         6         6         26.3           63557         1         0         0         26.4           63558         1         0         0         26.4           63563         4         2         2         26.6           63565         6         2         2         26.8           63601         2         1         1         26.9           63620         3         1         1         27.0           63621         2         1         1         27.1           63622         2         1         1         27.2           63623         4         2         2         27.3           63624         1         0         0         27.4           63625         1         0         0         27.4           63626         1         0         0         27.5           63627         2         1         1         27.5           63628         3         1         1         27.9           63631         1         0         0         28.0           63633         2         1         1         28.1 </td <td>63552</td> <td>6</td> <td>.2</td> <td>.2</td> <td>25.5</td>	63552	6	.2	.2	25.5
63557100 $26.4$ $63558$ 100 $26.4$ $63563$ 422 $26.6$ $63565$ 622 $26.8$ $63601$ 21.1 $26.9$ $63620$ 3.1.1 $27.0$ $63621$ 2.1.1 $27.1$ $63622$ 2.1.1 $27.2$ $63623$ 4.2.2 $27.3$ $63624$ 1.0.0 $27.4$ $63625$ 1.0.0.7.4 $63626$ 1.0.0.7.5 $63627$ .2.1.1.27.5 $63628$ .3.1.1.27.7 $63629$ .4.2.2.27.8 $63630$ .3.1.1.27.9 $63631$ 1.0.0.28.0 $63633$ .2.1.1.28.1 $63640$ .7.3.3.28.4 $63645$ .13.5.28.9 $63648$ .1.0.0.29.3 $63650$ .4.2.2.29.1 $63651$ .1.0.29.3 $63655$ .1.0.29.3 $63656$ .1.0.29.3 $63656$ .1.0.29.3 $63656$ .1.0.29.3 $636660$ .2.1.1.29.4	63555	5	.2	.2	25.7
6355810026.46356342226.66356562226.8636012.1.126.9636203.1.127.0636212.1.127.2636234.2.227.3636241.0.027.4636251.0.027.4636261.0.027.5636272.1.127.5636283.1.127.7636294.2.2.27.8636303.1.1.27.9636311.0.0.28.163633.2.1.1.28.163640.7.3.3.28.46364513.5.5.28.9636481.0.0.29.3636504.2.2.29.1636511.0.0.29.3636551.0.0.29.3636561.0.29.3636561.0.29.363656.1.0.29.363656.1.0.29.363656.1.0.29.363656.1.0.29.363656.1.0.29.363656.1.0.29.3636660.1.1.29.4 <td>63556</td> <td>15</td> <td>.6</td> <td>.6</td> <td>26.3</td>	63556	15	.6	.6	26.3
6356342226.66356562.226.8636012.1.126.9636203.1.127.0636212.1.127.1636222.1.127.2636234.2.227.3636241.0.027.4636251.0.027.4636261.0.027.5636272.1.127.7636283.1.127.7636294.2.227.8636303.1.127.7636332.1.127.7636341.0.028.0636332.1.128.16363413.5.528.96364513.5.28.9636481.0.029.1636511.0.029.1636531.0.029.3636551.0.029.3636561.0.029.3636561.0.29.3636561.0.29.3636561.0.29.3636561.0.29.3636561.0.29.3636561.0.29.3636602.1.163660<	63557	1	.0	.0	26.4
635656.2.226.8636012.1.126.9636203.1.127.0636212.1.127.1636222.1.127.2636234.2.227.3636241.0.027.4636251.0.027.4636261.0.027.5636272.1.127.5636283.1.127.5636294.2.227.8636303.1.127.9636311.0.028.063633.2.1.1.28.1636341.0.028.16364513.5.528.96364513.5.28.9636504.2.2.29.1636511.0.0.29.3636551.0.0.29.3636561.0.29.3636561.0.29.3636561.0.29.3636561.0.29.3636561.0.29.3636561.0.29.3636561.0.29.3636561.0.29.3636561.0.29.3636561.0.29.3636561.	63558	1	.0	.0	26.4
636012.1.126.9636203.1.1.27.0636212.1.1.27.1636222.1.1.27.2636234.2.2.27.3636241.0.0.27.4636251.0.0.27.4636261.0.0.27.563627.1.1.27.563628.1.1.27.763629.1.1.27.763629.1.1.27.963631.1.1.27.963633.2.1.163633.2.1.163648.1.0.063645.13.5.28.963648.1.0.063650.2.2.29.163653.1.0.29.363654.1.0.029.3.3.1.129.3.3.28.463653.1.0.29.363654.1.0.029.3.3.28.963655.1.0.29.363656.1.0.29.363656.1.0.29.363656.1.0.29.363656.1.0.29.363656.1.0.29.363656.1.1.29.463660.1.1.29.4 <td>63563</td> <td>4</td> <td>.2</td> <td>.2</td> <td>26.6</td>	63563	4	.2	.2	26.6
636203.1.127.0636212.1.1.27.1636222.1.1.27.2636234.2.2.27.3636241.0.0.27.4636251.0.0.27.4636261.0.0.27.5636272.1.1.27.5636283.1.1.27.7636294.2.2.27.8636303.1.1.27.9636311.0.0.28.163633.2.1.1.28.163640.7.3.3.28.463645.13.5.5.28.963648.1.0.0.29.163653.1.0.0.29.163654.1.0.0.29.163655.1.0.0.29.363656.1.0.0.29.363656.1.0.0.29.363656.1.0.0.29.363656.1.0.0.29.363656.1.0.0.29.363656.1.0.0.29.363656.1.0.0.29.363656.1.0.0.29.363660.2.1.1.29.4	63565	6	.2	.2	26.8
636212.1.127.1636222.1.1.27.2636234.2.2.27.3636241.0.0.27.4636251.0.0.27.4636261.0.0.27.5636272.1.1.27.5636283.1.1.27.5636294.2.2.27.8636303.1.1.27.9636311.0.0.28.063633.2.1.1.28.1636341.0.0.28.163645.13.5.28.9636461.0.28.163653.1.0.0.28.163654.13.5.5.28.963655.1.0.0.29.163653.1.0.0.29.163654.1.0.0.29.163655.1.0.0.29.363656.1.0.0.29.363656.1.0.0.29.363656.1.0.0.29.363656.1.0.0.29.363656.1.0.0.29.363656.1.0.0.29.363656.1.0.0.29.363660.1.1.1.29.4	63601	2	.1	.1	26.9
636222.1.127.2636234.2.2.27.3636241.0.0.27.4636251.0.0.27.4636261.0.0.27.563627.1.1.27.563628.1.1.163629.1.1.27.763629.1.1.27.963631.1.1.27.963633.1.1.27.963634.1.0.28.063635.1.0.28.163648.1.0.28.163654.13.5.28.963655.1.0.29.163654.1.0.29.163655.1.0.29.363656.1.0.29.363660.2.1.1.29.3	63620	3	.1	.1	27.0
636234.2.227.3636241.0.0.27.4636251.0.0.27.4636261.0.0.27.563627.2.1.1.27.563628.3.1.1.27.763629.4.2.2.27.863630.3.1.1.27.963631.1.0.0.28.063633.2.1.1.28.163634.1.0.0.28.163645.13.5.28.963645.13.5.28.963648.1.0.0.28.163653.1.0.29.163654.3.1.1.29.363655.1.0.29.363656.1.0.29.363660.2.1.129.3.3.1.129.3.3.3.29.3	63621	2	.1	.1	27.1
636241.0.027.4636251.0.0.27.4636261.0.0.27.5636272.1.1.27.563628.3.1.1.27.763629.4.2.2.27.863630.3.1.1.27.9636311.0.0.28.063633.2.1.1.28.163634.1.0.0.28.163645.13.5.28.963648.1.0.0.28.963650.4.2.2.29.163653.1.0.0.29.363654.1.0.0.29.363655.1.0.29.363656.1.0.29.363656.1.0.29.363656.1.0.29.363656.1.0.29.363656.1.0.29.363656.1.0.29.363656.1.0.29.363656.1.0.29.363656.1.0.29.363656.1.0.29.363656.1.0.29.363660.2.1.1.1.29.4.1.1.1.29.4.1.1.1.29.4.1.1.2.1.1.29.4	63622	2	.1	.1	27.2
636251.0.027.4636261.0.0.27.5636272.1.1.27.5636283.1.1.27.7636294.2.2.27.8636303.1.1.27.9636311.0.0.28.063633.2.1.1.28.1636381.0.0.28.1636481.0.0.28.163645.13.5.5.28.9636481.0.0.28.163653.1.0.0.28.163654.1.0.0.28.163655.1.0.28.963655.1.0.29.163656.1.0.29.363656.1.0.29.363660.2.1.163660.2.1.1	63623	4	.2	.2	27.3
636261.0.27.5636272.1.1.27.5636283.1.1.27.7636294.2.2.27.8636303.1.1.27.9636311.0.0.28.0636332.1.1.28.1636381.0.0.28.1636381.0.0.28.1636381.0.0.28.16364513.5.28.96364613.5.28.9636504.2.2.29.163653.1.0.0.28.163654.1.0.0.28.163655.1.0.0.28.163656.1.0.0.28.163655.1.0.0.28.163656.1.0.0.29.163656.1.0.0.29.363656.1.0.0.29.363656.1.0.0.29.363650.2.1.1.29.4	63624	1	.0	.0	27.4
636272.1.127.5636283.1.1.27.7636294.2.2.27.8636303.1.1.27.9636311.0.0.28.0636332.1.1.28.1636381.0.0.28.1636407.3.3.28.46364513.5.5.28.9636481.0.0.28.1636504.2.2.29.1636531.0.0.28.9636543.1.1.29.3636551.0.0.29.1636561.0.0.29.3636561.0.0.29.3636561.0.0.29.3636561.0.0.29.3636602.1.1.29.4	63625	1	.0	.0	27.4
636283.1.127.7636294.2.2.27.8636303.1.1.27.9636311.0.0.28.0636332.1.1.28.1636381.0.0.28.1636407.3.3.28.46364513.5.5.28.9636481.0.0.28.9636504.2.2.29.1636531.0.0.29.1636543.1.1.29.3636551.0.0.29.3636561.0.29.3636602.1.1.29.4	63626	1	.0	.0	27.5
636294.2.2.27.8636303.1.1.27.9636311.0.0.28.0636332.1.1.28.1636381.0.0.28.1636407.3.3.28.46364513.5.5.28.9636481.0.0.28.9636504.2.2.29.1636531.0.0.29.1636543.1.1.29.3636551.0.0.29.3636561.0.29.363660.2.1.1.29.4	63627	2	.1	.1	27.5
636303.1.127.9636311.0.028.0636332.1.128.1636381.0.028.1636407.3.328.46364513.5.528.9636481.0.028.9636504.2.229.1636531.0.029.3636543.1.129.3636551.0.029.3636561.0.029.3636602.1.1.29.4	63628	3	.1	.1	27.7
636311.0.028.0636332.1.128.1636381.0.028.1636407.3.328.46364513.5.528.9636481.0.028.963650.4.2.229.163653.1.0.029.163654.1.0.029.363655.1.0.029.363656.1.0.029.363660.2.1.129.4	63629	4	.2	.2	27.8
636332.1.128.1636381.0.028.1636407.3.328.46364513.5.528.9636481.0.028.9636504.2.229.1636531.0.029.1636543.1.129.3636551.0.029.3636561.0.029.3636602.1.129.4	63630	3	.1	.1	27.9
636381.0.028.1636407.3.328.46364513.5.528.9636481.0.028.9636504.2.229.1636531.0.029.1636543.1.129.3636551.0.029.3636561.0.029.3636602.1.129.4	63631	1	.0	.0	28.0
636407.3.328.46364513.5.528.9636481.0.028.9636504.2.229.1636531.0.029.1636543.1.129.3636551.0.029.3636561.0.029.3636602.1.129.4	63633	2	.1	.1	28.1
6364513.528.9636481.0.028.9636504.2.229.1636531.0.029.1636543.1.129.3636551.0.029.3636561.0.029.3636602.1.129.4	63638	1	.0	.0	28.1
636481.0.028.9636504.2.229.1636531.0.029.1636543.1.129.3636551.0.029.3636561.0.029.3636602.1.129.4	63640	7	.3	.3	28.4
636504.2.229.1636531.0.029.1636543.1.129.3636551.0.029.3636561.0.029.3636602.1.129.4	63645	13	.5	.5	28.9
636531.0.029.1636543.1.129.3636551.0.029.3636561.0.029.3636602.1.129.4	63648	1	.0	.0	28.9
636543.1.129.3636551.0.029.3636561.0.029.3636602.1.129.4	63650	4	.2	.2	29.1
636551.0.029.3636561.0.029.3636602.1.129.4	63653	1	.0	.0	29.1
636561.0.029.3636602.1.129.4	63654	3	.1	.1	29.3
63660 2 .1 .1 29.4	63655	1	.0	.0	29.3
	63656	1	.0	.0	29.3
63662 2 .1 .1 29.5	63660	2	.1	.1	29.4
	63662	2	.1	.1	29.5

63664	11	.4	.4	29.9
63670	12	.5	.5	30.4
63701	10	.4	.4	30.8
63703	1	.0	.0	30.9
63730	3	.1	.1	31.0
63736	2	.1	.1	31.1
63748	1	.0	.0	31.1
63751	3	.1	.1	31.2
63755	3	.1	.1	31.3
63764	6	.2	.2	31.6
63771	2	.1	.1	31.7
63775	14	.6	.6	32.2
63780	2	.1	.1	32.3
63781	4	.2	.2	32.5
63801	9	.4	.4	32.8
63823	2	.1	.1	32.9
63824	1	.0	.0	32.9
63825	1	.0	.0	33.0
63826	1	.0	.0	33.0
63827	3	.1	.1	33.1
63829	2	.1	.1	33.2
63830	7	.3	.3	33.5
63834	6	.2	.2	33.7
63841	6	.2	.2	34.0
63845	7	.3	.3	34.3
63846	2	.1	.1	34.3
63848	1	.0	.0	34.4
63851	2	.1	.1	34.5
63852	1	.0	.0	34.5
63857	6	.2	.2	34.7
63863	3	.1	.1	34.9
63866	1	.0	.0	34.9
63867	2	.1	.1	35.0
63869	3	.1	.1	35.1
63873	5	.2	.2	35.3

<b></b>			1	
63876	1	.0	.0	35.3
63877	1	.0	.0	35.4
63878	1	.0	.0	35.4
63879	1	.0	.0	35.5
63901	10	.4	.4	35.9
63933	2	.1	.1	35.9
63935	8	.3	.3	36.3
63936	2	.1	.1	36.3
63937	3	.1	.1	36.5
63939	2	.1	.1	36.5
63940	2	.1	.1	36.6
63942	1	.0	.0	36.7
63943	4	.2	.2	36.8
63944	1	.0	.0	36.9
63952	1	.0	.0	36.9
63953	3	.1	.1	37.0
63954	1	.0	.0	37.1
63956	4	.2	.2	37.2
63957	9	.4	.4	37.6
63965	7	.3	.3	37.8
63967	3	.1	.1	38.0
64011	4	.2	.2	38.1
64012	16	.6	.6	38.8
64014	2	.1	.1	38.8
64015	5	.2	.2	39.0
64017	2	.1	.1	39.1
64018	2	.1	.1	39.2
64019	3	.1	.1	39.3
64020	7	.3	.3	39.6
64024	12	.5	.5	40.1
64029	1	.0	.0	40.1
64030	2	.1	.1	40.2
64034	3	.1	.1	40.3
64035	1	.0	.0	40.4
64040	9	.4	.4	40.7

				-
64050	1	.0	.0	40.8
64052	1	.0	.0	40.8
64055	2	.1	.1	40.9
64057	1	.0	.0	40.9
64060	2	.1	.1	41.0
64061	6	.2	.2	41.2
64062	10	.4	.4	41.6
64067	7	.3	.3	41.9
64068	7	.3	.3	42.2
64071	2	.1	.1	42.3
64076	15	.6	.6	42.9
64077	2	.1	.1	43.0
64079	4	.2	.2	43.1
64080	3	.1	.1	43.2
64081	2	.1	.1	43.3
64083	10	.4	.4	43.7
64084	1	.0	.0	43.8
64085	13	.5	.5	44.3
64086	3	.1	.1	44.4
64089	3	.1	.1	44.5
64093	16	.6	.6	45.2
64096	2	.1	.1	45.2
64108	1	.0	.0	45.3
64109	1	.0	.0	45.3
64110	1	.0	.0	45.4
64113	1	.0	.0	45.4
64116	1	.0	.0	45.4
64117	2	.1	.1	45.5
64118	11	.4	.4	46.0
64119	5	.2	.2	46.2
64124	1	.0	.0	46.2
64125	1	.0	.0	46.2
64128	1	.0	.0	46.3
64130	1	.0	.0	46.3
64131	2	.1	.1	46.4

			1	
64133	2	.1	.1	46.5
64134	1	.0	.0	46.5
64137	2	.1	.1	46.6
64138	1	.0	.0	46.6
64145	1	.0	.0	46.7
64151	10	.4	.4	47.1
64152	15	.6	.6	47.7
64153	2	.1	.1	47.8
64154	2	.1	.1	47.8
64155	5	.2	.2	48.0
64156	1	.0	.0	48.1
64157	2	.1	.1	48.2
64158	1	.0	.0	48.2
64163	1	.0	.0	48.2
64402	9	.4	.4	48.6
64422	3	.1	.1	48.7
64423	1	.0	.0	48.8
64424	7	.3	.3	49.0
64427	1	.0	.0	49.1
64429	16	.6	.6	49.7
64430	1	.0	.0	49.8
64434	2	.1	.1	49.8
64437	2	.1	.1	49.9
64439	2	.1	.1	50.0
64441	1	.0	.0	50.0
64442	3	.1	.1	50.2
64444	2	.1	.1	50.2
64446	3	.1	.1	50.4
64448	1	.0	.0	50.4
64451	1	.0	.0	50.4
64454	5	.2	.2	50.6
64456	14	.6	.6	51.2
64457	1	.0	.0	51.2
64458	1	.0	.0	51.3
64461	1	.0	.0	51.3

64463         3         .1         .1         51.4           64465         3         .1         .1         51.6           64468         42         1.7         1.7         53.2           64469         4         2         2         53.4           64470         15         .6         .6         54.0           64474         2         .1         .1         54.1           64477         2         .1         .1         54.2           64477         2         .1         .1         54.2           64479         1         .0         .0         54.2           64482         2         .1         .1         54.3           64485         13         .5         .5         54.9           64486         2         .1         .1         55.0           64487         2         .2         .55.2         54.49           64487         2         .1         .1         55.0           64489         4         .2         .2         .55.4           64491         10         .4         .55.9         .54.9           64493         1					-
64468421.71.753.2644694.2.2.53.46447015.6.6.54.064474.1.1.54.1644761.0.0.54.164477.2.1.1.54.2644791.0.0.54.264482.2.1.1.54.3644841.0.0.54.264485.13.5.5.54.964486.2.1.1.55.064487.2.1.1.55.064489.4.2.2.55.264490.6.2.2.55.464491.0.4.4.55.864492.1.1.55.964493.1.0.0.56.064494.1.1.55.964493.1.0.0.56.064494.1.1.56.064497.1.1.56.164498.1.1.56.264501.1.0.56.364503.1.0.56.364504.2.2.56.464505.8.3.364506.4.2.264505.8.3.57.764620.3.1.164624.2.1.164625.3.1.164633.6.59.1 <t< td=""><td>64463</td><td>3</td><td>.1</td><td>.1</td><td>51.4</td></t<>	64463	3	.1	.1	51.4
6446942253.46447015666644742116644761006644772116644791006644822116644822116644831355664484100664485135566448621150644872115064489422526449062526449110458644921156.0644931156.0644941156.0644971156.0644931156.0644941156.0645051156.0645041156.0645051156.0645051156.0645051156.0645051156.0645051157.0646201157.0 <td>64465</td> <td>3</td> <td>.1</td> <td>.1</td> <td>51.6</td>	64465	3	.1	.1	51.6
64470156654.06447421154.16447610054.16447721154.26447910054.26448221154.36448410054.464485135554.96448621155.06448721155.06448942255.2644906256449110455.964492211644931156.064494211644953156.06449621164497211645031066.264504211645058336450642264506422646011945646242116462814656462814656462931564633166564633166564640765 <td>64468</td> <td>42</td> <td>1.7</td> <td>1.7</td> <td>53.2</td>	64468	42	1.7	1.7	53.2
644742.1.154.1644761.0.054.1644772.1.154.2644791.0.054.2644822.1.154.3644841.0.054.46448513.5.554.9644862.1.155.0644872.1.1.55.0644872.1.1.55.0644894.2.2.55.4644802.1.1.55.06448110.4.4.55.8644922.1.1.55.06449310.4.4.55.8644942.1.1.56.0644952.1.1.56.0644942.1.1.56.0644952.1.1.56.2645011.0.0.56.2645031.0.0.56.3645042.1.1.56.2645058.3.3.56.8645058.3.3.56.8645064.2.2.56.96460119.8.8.57.764620.3.1.1.57.964623.14.6.6.58.464633.16.6.59.164634.1.0.0<	64469	4	.2	.2	53.4
644761.0.054.1644772.1.154.2644791.0.054.2644822.1.154.3644841.0.054.46448513.5.54.9644862.1.155.0644872.1.1.55.0644894.2.2.55.2644906.2.2.55.46449110.4.4.55.8644922.1.1.55.96449310.4.4.55.9644942.1.1.56.0644952.1.1.56.0644962.1.1.56.2645011.0.0.56.2645031.0.0.56.2645042.1.1.56.2645058.3.3.56.8645064.2.2.56.96460119.8.8.57.7646203.1.1.57.864624.1.1.57.964625.14.6.58.464626.14.6.58.464633.16.6.59.164634.1.0.0.59.164634.1.0.0.59.164640.1.0.59.164640.1 </td <td>64470</td> <td>15</td> <td>.6</td> <td>.6</td> <td>54.0</td>	64470	15	.6	.6	54.0
644772.1.154.26447910054.2644822.1.154.36448410054.46448513.555.9644862.1.155.0644872.1.155.0644894.2.255.2644906.2.255.46449110.4.455.864492.1.1.55.9644931.0.056.064494.1.1.56.164495.1.1.56.264501.1.1.56.264503.1.0.064504.2.2.56.464505.3.3.56.864506.4.2.264507.3.3.56.864506.4.2.264601.9.3.364624.1.1.57.964628.1.1.57.964629.1.1.57.964629.1.1.57.964629.1.1.57.964629.1.1.57.964629.1.1.57.964629.1.1.57.964629.1.1.57.964633.16.6.59.164639.1.0.064639<	64474	2	.1	.1	54.1
644791.0.054.2644822.1.1.54.3644841.0.0.54.46448513.5.54.9644862.1.1644872.1.1644894.2.264490.6.2.26449110.4.464492.1.1644931.0.064494.1.164497.1.164498.1.164498.1.1645011.064503.1.164505.3.364506.2.264601.864624.1.164628.164633.164639.164640.3 <t< td=""><td>64476</td><td>1</td><td>.0</td><td>.0</td><td>54.1</td></t<>	64476	1	.0	.0	54.1
644822.1.1.54.3644841.0.0.54.46448513.5.54.9644862.1.164487.2.1644894.2.264480.2.264480.4.55.964491.4.55.964492.1.164493.1.064494.1.56.064493.1.164494.1.1.51.964495.1.164496.1.064497.1.1.1.56.264503.1.1.54.3.3.364504.2.2.64505.3.3.64506.4.2.64507.3.3.64620.3.1.57.8.56.2.56.9.56.2.56.9.56.2.56.9.56.2.56.9.56.2.56.9.56.3.57.7.56.9 </td <td>64477</td> <td>2</td> <td>.1</td> <td>.1</td> <td>54.2</td>	64477	2	.1	.1	54.2
644841.0.054.46448513.5.5.54.9644862.1.1.55.0644872.1.1.55.0644894.2.2.55.2644906.2.2.55.46449110.4.4.55.8644922.1.1.55.96449310.4.4.55.9644942.1.1.56.0644952.1.1.56.0644962.1.1.56.0644972.1.1.56.1644982.1.1.56.2645011.0.0.56.3645044.2.2.56.4645058.3.3.56.8645064.2.2.56.96450119.8.8.57.7646203.1.1.57.8646242.1.1.57.8646242.1.1.57.8646242.1.1.57.86462316.6.58.46463316.6.59.1646391.0.0.59.1646407.3.3.59.4	64479	1	.0	.0	54.2
6448513.5.554.9644862.1.1.50.0644872.1.1.50.0644894.2.2.55.2644906.2.2.55.46449110.4.4.55.864492.2.1.1.55.964493.1.0.0.56.064494.2.1.1.56.064497.2.1.1.56.064498.2.1.1.56.064497.2.1.1.56.064498.2.1.1.56.064497.2.1.1.56.264501.1.0.0.56.364503.1.0.0.56.364504.4.2.2.56.464505.8.3.3.56.864506.4.2.2.56.964601.19.8.8.57.764620.3.1.1.57.864624.2.1.1.57.864624.1.1.57.964628.14.6.58.464633.16.6.59.164633.16.6.59.164639.1.0.59.164640.7.3.3.59.4	64482	2	.1	.1	54.3
644862.1.155.0644872.1.155.0644894.2.255.2644906.2.2.546449110.4.4.55.864492.2.1.1.55.964493.1.0.0.56.064494.2.1.1.56.064494.2.1.1.56.064497.2.1.1.56.164498.2.1.1.56.264501.1.0.0.56.264503.1.0.0.56.264504.2.2.56.464505.8.3.3.56.864506.4.2.2.56.964601.9.8.8.57.764620.3.1.1.57.964624.2.1.1.57.964623.1.1.57.964624.1.1.57.964623.1.1.57.964633.16.6.59.164633.1.0.59.164639.1.0.59.164640.7.3.3.59.4	64484	1	.0	.0	54.4
644872.1.155.0644894.2.2.55.4644906.2.2.55.46449110.4.4.55.864492.2.1.1.55.9644931.0.0.56.064494.1.1.56.064494.1.1.56.064494.1.1.56.064494.1.1.56.064497.1.1.56.264501.1.0.064503.1.0.56.364504.2.2.56.464505.8.3.364506.4.2.264601.9.8.864624.1.1.57.964624.1.1.57.964628.14.6.6.59.1.64633.16.6.64639.1.0.59.164640.7.3.3.59.4	64485	13	.5	.5	54.9
6448942.255.26449062.255.46449110.4.455.8644922.1.155.96449310.056.0644942.1.156.0644972.1.156.2644982.1.156.2645011.0.056.2645031.0.56.3645044.2.256.4645058.3.356.8645064.2.256.96460119.8.857.7646203.1.157.964624.1.157.96462814.6.658.464633.16.6.59.164639.1.0.59.164640.7.3.3.59.4	64486	2	.1	.1	55.0
644906.2.2.55.46449110.4.4.55.8644922.1.1.55.9644931.0.0.56.0644942.1.1.56.0644972.1.1.56.1644982.1.1.56.2645011.0.0.56.2645031.0.0.56.2645044.2.2.56.4645058.3.3.56.8645064.2.2.56.964601.19.8.8.57.764620.1.1.57.964624.1.1.57.964628.14.6.58.464633.16.6.59.164639.1.0.59.164640.7.3.3.59.4	64487	2	.1	.1	55.0
6449110.4.4.55.8644922.1.1.55.9644931.0.0.56.0644942.1.1.56.1644972.1.1.56.1644982.1.1.56.2645011.0.0.56.2645031.0.0.56.3645044.2.2.56.4645058.3.3.56.8645064.2.2.56.96460119.8.8.57.7646242.1.1.57.8646242.1.1.57.864623.14.6.6.58.464633.16.6.59.164639.1.0.0.59.164640.7.3.3.59.4	64489	4	.2	.2	55.2
644922.1.155.9644931.0.056.0644942.1.156.0644972.1.156.1644982.1.156.2645011.0.056.3645031.0.056.3645044.2.256.4645058.3.356.8645064.2.256.96460119.8.857.7646203.1.157.8646242.1.157.86462314.6.658.46463316.6.59.1646391.0.059.1646407.3.3.59.4	64490	6	.2	.2	55.4
644931.0.056.0644942.1.156.0644972.1.156.1644982.1.156.2645011.0.056.2645031.0.056.3645044.2.256.4645058.3.356.8645064.2.256.96460119.8.857.7646203.1.157.8646242.1.157.96462814.6.658.46463316.6.59.1646391.0.0.59.1646407.3.3.59.4	64491	10	.4	.4	55.8
644942.1.1.56.0644972.1.1.56.1644982.1.1.56.2645011.0.0.56.2645031.0.0.56.3645044.2.2.56.4645058.3.3.56.8645064.2.2.56.96460119.8.8.57.7646203.1.1.57.9646242.1.1.57.96462814.6.6.59.16463316.6.59.1646407.3.3.59.4	64492	2	.1	.1	55.9
644972.1.156.1644982.1.156.2645011.0.056.2645031.0.056.3645044.2.256.4645058.3.356.8645064.2.256.96460119.8.857.7646203.1.157.8646242.1.157.96462814.6.659.16463316.6.59.1646407.3.359.4	64493	1	.0	.0	56.0
644982.1.156.2645011.0.056.2645031.0.056.3645044.2.256.4645058.3.356.8645064.2.256.96460119.8.857.7646203.1.157.8646242.1.157.96462314.6.659.16463316.6.59.1646407.3.359.4	64494	2	.1	.1	56.0
645011.0.056.2645031.0.056.364504.4.2.256.464505.8.3.356.864506.4.2.256.964601.19.8.857.764620.3.1.157.864624.2.1.157.964628.14.6.658.464633.16.6.59.164639.1.0.0.59.164640.7.3.3.59.4	64497	2	.1	.1	56.1
645031.0.056.3645044.2.256.4645058.3.356.8645064.2.256.96460119.8.857.7646203.1.157.8646242.1.157.96462814.6.659.16463316.6.59.1646407.3.359.4	64498	2	.1	.1	56.2
645044.2.256.4645058.3.356.8645064.2.256.96460119.8.857.7646203.1.157.8646242.1.157.96462814.6.658.46463316.659.1646407.3.359.4	64501	1	.0	.0	56.2
645058.3.356.8645064.2.256.96460119.8.857.7646203.1.157.8646242.1.157.96462814.6.658.46463316.659.1646391.0.059.1646407.3.359.4	64503	1	.0	.0	56.3
645064.2.256.96460119.8.8.57.7646203.1.1.57.8646242.1.1.57.96462814.6.6.58.46463316.6.59.1646391.0.0.59.1646407.3.3.59.4	64504	4	.2	.2	56.4
6460119.8.857.7646203.1.157.8646242.1.157.96462814.6.658.46463316.6.659.1646391.0.059.1646407.3.359.4	64505	8	.3	.3	56.8
646203.1.157.8646242.1.1.57.96462814.6.6.58.46463316.6.6.59.1646391.0.0.59.1646407.3.3.59.4	64506	4	.2	.2	56.9
646242.1.157.96462814.6.658.46463316.6.659.1646391.0.059.1646407.3.359.4	64601	19	.8	.8	57.7
6462814.6.658.46463316.6.659.1646391.0.059.1646407.3.359.4	64620	3	.1	.1	57.8
6463316.659.1646391.0.059.1646407.3.359.4	64624	2	.1	.1	57.9
646391.0.059.1646407.3.359.4	64628	14	.6	.6	58.4
64640 7 .3 .3 59.4	64633	16	.6	.6	59.1
	64639	1	.0	.0	59.1
64644 6 .2 .2 59.6	64640	7	.3	.3	59.4
	64644	6	.2	.2	59.6

646453.1.159.8 $64648$ 2.1.1.59.8 $64649$ 1.0.0.59.9 $64650$ 1.0.0.60.0 $64655$ 1.0.0.60.0 $64657$ 1.0.0.60.2 $64660$ 2.1.1.60.3 $64668$ 1.0.0.60.6 $64670$ 5.2.2.60.6 $64671$ 1.0.0.60.6 $64671$ 1.0.0.60.6 $64674$ 2.1.1.60.7 $64683$ 17.7.61.4 $64684$ 2.1.1 $64701$ 8.3.3 $64701$ 8.3.3 $64724$ 4.2.2 $64723$ 1.0.0 $64724$ .2.2 $64733$ .3.3 $64734$ .3.3 $64735$ .1.1 $64738$ .1.1 $64744$ .3.3 $64744$ .3.3 $64755$ .1.1 $64756$ .1.1 $64756$ .1.1 $64756$ .1.1 $64756$ .1.1 $64756$ .1.1 $64756$ .1.1 $64756$ .1.1 $64756$ .1.1 $64761$ .1.1 $64762$ .1.1 <th></th> <th>6</th> <th></th> <th></th> <th></th>		6			
64649         1         .0         .0         59.9           64650         1         .0         .0         59.9           64655         1         .0         .0         60.0           64657         1         .0         .0         60.0           64658         6         .2         .2         60.2           64660         2         .1         .1         60.3           64668         1         .0         .0         60.4           64667         5         .2         .2         60.6           64671         1         .0         .0         60.6           64676         1         .0         .0         60.6           64671         1         .0         .0         60.6           64671         1         .0         .0         60.6           64683         .7         .7         .61.4         .1         61.5           64701         8         .3         .3         .61.8         .1           64720         4         .2         .2         .62.0         .2         .2         .2         .2         .2         .2         .2         .2	64645	3	.1	.1	59.8
64650         1         .0         .0         59.9           64655         1         .0         .0         60.0           64657         1         .0         .0         60.0           64658         .6         .2         .2         .00.2           64660         .1         .1         .00.3         .0.4           64660         .2         .1         .1         .00.3           64668         1         .0         .0         .0.6.4           64670         .5         .2         .2         .0.6.6           64671         1         .0         .0         .0.6.6           64671         1         .0         .0         .0.6.6           64671         1         .0         .0         .0.6.6           64681         .2         .1         .1         .0.7           64683         .17         .7         .61.4         .0.6.6           64720         4         .2         .2         .0.2.2           64723         1         .0         .0         .0.2.2           64723         1         .0         .0         .0.2.2           64733 <td< td=""><td>64648</td><td>2</td><td>.1</td><td>.1</td><td>59.8</td></td<>	64648	2	.1	.1	59.8
64655         1         0         0         60.0           64657         1         0         0         60.0           64658         6         2         2         60.2           64660         2         .1         .1         60.3           64668         1         0         0         60.4           64668         1         0         0         60.4           64670         5         2         2         60.6           64671         1         0         0         60.6           64681         2         .1         .1         60.7           64683         17         .7         61.4         61.5           64701         8         .3         .3         61.8           64720         4         .2         .2         62.0           64723         1         0         0         62.2           64733         2         .1         .1         62.6           64735         12         .5         .63.1         63.3           64738         3         .1         .1         63.2           64740         2         .1         .1	64649	1	.0	.0	59.9
64657         1         .0         .0         60.0           64658         6         .2         .2         60.2           64660         2         .1         .1         60.3           64668         1         .0         .0         60.4           646670         5         .2         .2         60.6           64671         1         .0         .0         60.6           64676         1         .0         .0         60.6           64681         2         .1         .1         60.7           64683         17         .7         .61.4           64689         2         .1         .1         .61.5           64701         8         .3         .3         .61.8           64720         4         .2         .2         .62.0           64723         1         .0         .0         .62.2           64723         1         .0         .0         .62.2           64735         .2         .1         .1         .62.6           64733         .2         .1         .1         .62.6           64738         .3         .1	64650	1	.0	.0	59.9
64658         6         2         2         60.2           64660         2         .1         .1         60.3           64668         1         .0         .0         60.4           64668         1         .0         .0         60.4           64670         5         .2         .2         60.6           64671         1         .0         .0         60.6           64671         1         .0         .0         60.6           64681         .2         .1         .1         60.7           64683         .7         .7         .61.4         64689           64701         8         .3         .3         61.8           64720         .4         .2         .2         62.0           64723         1         .0         .0         62.2           64724         .4         .2         .2         62.2           64733         .1         .0         .0         62.2           64733         .1         .0         .0         62.2           64733         .1         .0         .0         .1           64743         .1         .0 <td>64655</td> <td>1</td> <td>.0</td> <td>.0</td> <td>60.0</td>	64655	1	.0	.0	60.0
64660         2         .1         .1         60.3           64668         1         .0         .0         60.4           64670         5         .2         .2         60.6           64671         1         .0         .0         60.6           64671         1         .0         .0         60.6           64676         1         .0         .0         60.6           64681         2         .1         .1         60.7           64683         17         .7         .7         61.4           64689         2         .1         .1         .61.5           64701         8         .3         .3         .61.8           64720         4         .2         .2         .62.0           64723         1         .0         .0         .62.2           64724         4         .2         .2         .62.2           64733         2         .1         .1         .62.2           64733         .1         .0         .0         .62.2           64733         .1         .1         .62.6	64657	1	.0	.0	60.0
6466810.060.4646705.2.260.66467110.060.66467610.060.6646812.1.160.76468317.7.761.4646892.1.161.5647018.3.361.8647204.2.262.0647231.0.062.2647244.2.262.2647351.0.062.2647368.3.362.56473712.5.563.1647402.1.163.3647448.3.363.66474510.0.63.3647448.3.363.6647481.0.063.3647552.1.1.63.8647562.1.1.63.86475912.5.5.64.3647612.1.1.64.4647623.1.1.64.4647623.1.1.64.5647632.1.1.64.5	64658	6	.2	.2	60.2
646705.2260.6646711.0.060.6646761.0.060.6646812.1.1.60.76468317.7.761.4646892.1.1.61.5647018.3.3.61.8647204.2.2.62.0647231.0.0.62.2647244.2.2.62.2647351.0.0.62.264736.3.3.62.5.63.16473712.5.5.63.164740.1.1.63.264744.3.3.63.664748.1.0.064755.1.1.63.764756.1.1.63.764756.1.1.63.864761.1.1.63.864762.1.1.64.564763.1.1.64.5	64660	2	.1	.1	60.3
646711.0.0 $60.6$ $64676$ 1.0.0 $60.6$ $64681$ 2.1.1.60.7 $64683$ 17.7.7.61.4 $64689$ 2.1.1.61.5 $64701$ 8.3.3.61.8 $64720$ 4.2.2.62.0 $64723$ 1.0.0.62.2 $64724$ 4.2.2.62.2 $64725$ 1.0.0.62.2 $64733$ 2.1.1.62.6 $64734$ .3.3.62.5 $64735$ .12.5.5.63.1 $64738$ .3.1.1.63.2 $64740$ .1.1.63.3 $64744$ .3.3.63.6 $64744$ .1.0.0 $64755$ .1.1.63.7 $64755$ .1.1.63.7 $64756$ .1.1.63.8 $64761$ .1.1.63.8 $64761$ .1.1.64.4 $64762$ .1.1.64.4 $64763$ .1.1.64.5 $64763$ .2.1.1.64.5 $64763$ .2.1.1.64.5	64668	1	.0	.0	60.4
646761.0.0 $60.6$ $64681$ 2.1.1 $60.7$ $64683$ 17.7.7 $61.4$ $64689$ 2.1.1 $61.5$ $64701$ 8.3.3 $61.8$ $64720$ 4.2.2 $62.0$ $64723$ 1.0.0 $62.2$ $64724$ 4.2.2 $62.2$ $64725$ 1.0.0 $62.2$ $64730$ 8.3.3 $62.5$ $64733$ 2.1.1 $62.6$ $64735$ 12.5.5 $63.1$ $64738$ 3.1.1 $63.3$ $64744$ 8.3.3 $63.6$ $64744$ 8.3.3 $63.6$ $64744$ 8.3.3 $63.6$ $64744$ 8.3.3 $63.6$ $64744$ 8.3.3 $63.6$ $64744$ 8.3.3 $63.6$ $64744$ 10.0.63.7 $64755$ 2.1.1.63.8 $64759$ 12.5.5.64.3 $64761$ 2.1.1.64.4 $64762$ 3.1.1.64.5 $64763$ 2.1.1.64.5 $64763$ 2.1.1.64.5 $64763$ 2.1.1.64.5 $64763$ 2.1.1.64.5 $64763$ 2.1<	64670	5	.2	.2	60.6
646812.1.1 $60.7$ $64683$ 17.7.7 $61.4$ $64689$ 2.1.1 $61.5$ $64701$ 8.3.3 $61.8$ $64720$ 4.2.2 $62.0$ $64723$ 1.0.0 $62.0$ $64724$ 4.2.2 $62.2$ $64725$ 1.0.0 $62.2$ $64730$ 8.3.3 $62.5$ $64733$ 2.1.1 $62.6$ $64735$ 12.5.5 $63.1$ $64738$ 3.1.1 $63.3$ $64744$ 8.3.3 $63.6$ $64744$ 8.3.3 $63.6$ $64745$ 1.0.0 $63.3$ $64744$ 8.3.3 $63.6$ $64748$ 1.0.0 $63.7$ $64755$ 2.1.1 $63.8$ $64759$ 12.5.5 $64.3$ $64761$ 2.1.1 $64.6$ $64762$ 3.1.1 $64.5$ $64763$ 2.1.1 $64.5$	64671	1	.0	.0	60.6
6468317.7.761.4646892.1.161.5647018.3.361.8647204.2.262.0647231.0.062.2647244.2.262.2647251.0.062.2647308.3.362.5647332.1.162.66473512.5.563.1647402.1.163.2647421.0.063.3647421.0.063.3647448.3.363.6647552.1.163.8647562.1.163.86475912.5.564.3647612.1.163.8647612.1.164.5647632.1.164.5	64676	1	.0	.0	60.6
646892.1.1 $61.5$ $64701$ 8.3.3 $61.8$ $64720$ 4.2.2 $62.0$ $64723$ 1.0.0 $62.0$ $64724$ 4.2.2 $62.2$ $64725$ 1.0.0 $62.2$ $64730$ 8.3.3 $62.5$ $64733$ 2.1.1 $62.6$ $64733$ 2.1.1 $62.6$ $64735$ 12.5.5 $63.1$ $64740$ 2.1.1 $63.3$ $64744$ 8.3.3 $63.6$ $64744$ 8.3.3 $63.6$ $64744$ 8.3.3 $63.6$ $64755$ 2.1.1 $63.7$ $64756$ 2.1.1 $63.8$ $64759$ 12.5.5 $64.3$ $64761$ 2.1.1 $64.6$ $64762$ 3.1.1 $64.5$ $64763$ 2.1.1 $64.5$	64681	2	.1	.1	60.7
647018.3.361.8647204.2.262.0647231.0.062.0647244.2.262.2647251.0.062.2647308.3.362.5647332.1.162.66473412.5.563.16473512.5.563.1647402.1.163.3647421.0.063.3647448.3.363.6647552.1.163.7647552.1.163.8647562.1.163.8647612.1.163.4647612.1.163.664763.1.5.64.364763.1.1.64.564763.1.1.64.5	64683	17	.7	.7	61.4
647204.2.262.0647231.0.062.0647244.2.262.2647251.0.062.2647308.3.362.5647332.1.162.66473512.5.563.1647383.1.163.2647402.1.1.63.3647421.0.0.63.3647448.3.3.63.6647552.1.1.63.7647562.1.1.63.8647612.1.1.63.8647612.1.1.63.864763.12.5.5.64.364763.12.5.5.64.364763.1.1.64.564763.1.1.64.5	64689	2	.1	.1	61.5
647231.0.062.0647244.2.262.2647251.0.062.2647308.3.362.564733.2.1.162.66473512.5.63.1647383.1.163.264740.1.0.063.3647421.0.063.3647448.3.363.664755.1.0.063.764756.1.1.63.864759.12.5.564761.1.163.864762.1.1.64.564763.2.1.164763.1.1.64.5	64701	8	.3	.3	61.8
647244.2.262.2647251.0.062.2647308.3.362.5647332.1.162.66473512.5.563.1647383.1.163.2647402.1.163.3647421.0.063.3647448.3.363.6647552.1.163.7647562.1.163.86475912.5.564.3647612.1.163.8647623.1.164.5647632.1.164.5	64720	4	.2	.2	62.0
647251.0.062.2647308.3.362.5647332.1.162.66473512.5.563.1647383.1.163.2647402.1.1.63.3647421.0.063.3647448.3.3.63.6647481.0.063.7647552.1.1.63.8647562.1.1.63.8647612.1.1.64.4647623.1.1.64.5647632.1.1.64.6	64723	1	.0	.0	62.0
647308.3.362.5647332.1.162.66473512.5.563.1647383.1.163.2647402.1.163.3647421.0.063.3647448.3.363.6647481.0.063.7647552.1.163.7647562.1.163.8647612.1.164.3647623.1.164.4647632.1.164.5647632.1.164.6	64724	4	.2	.2	62.2
647332.1.162.66473512.5.563.1647383.1.163.2647402.1.163.3647421.0.063.3647448.3.363.6647481.0.063.7647552.1.163.86475912.5.564.3647612.1.163.4647623.1.164.5647632.1.164.5	64725	1	.0	.0	62.2
6473512.5.563.1647383.1.1.63.2647402.1.1.63.3647421.0.0.63.3647448.3.3.63.6647481.0.0.63.7647552.1.1.63.7647562.1.1.63.8647612.1.1.63.8647623.1.1.64.5647632.1.1.64.5	64730	8	.3	.3	62.5
647383.1.163.2647402.1.163.3647421.0.063.3647448.3.363.6647481.0.063.7647552.1.163.7647562.1.163.8647612.1.164.3647623.1.164.5647632.1.164.5	64733	2	.1	.1	62.6
647402.1.163.3647421.0.063.3647448.3.363.6647481.0.063.7647552.1.163.7647562.1.163.86475912.5.564.3647612.1.164.4647623.1.164.5647632.1.164.6	64735	12	.5	.5	63.1
647421.0.063.3647448.3.363.6647481.0.063.7647552.1.163.7647562.1.163.86475912.5.564.3647612.1.164.4647623.1.164.5647632.1.164.6	64738	3	.1	.1	63.2
647448.3.363.6647481.0.063.7647552.1.163.7647562.1.163.86475912.5.564.3647612.1.164.4647623.1.164.5647632.1.164.6	64740	2	.1	.1	63.3
647481.0.063.7647552.1.163.7647562.1.163.86475912.5.564.3647612.1.164.4647623.1.164.5647632.1.164.6	64742	1	.0	.0	63.3
647552.1.163.7647562.1.163.86475912.5.564.3647612.1.164.4647623.1.164.5647632.1.164.6	64744	8	.3	.3	63.6
647562.1.163.86475912.5.564.3647612.1.164.4647623.1.164.5647632.1.164.6	64748	1	.0	.0	63.7
6475912.5.564.3647612.1.164.4647623.1.164.5647632.1.164.6	64755	2	.1	.1	63.7
647612.1.164.4647623.1.164.5647632.1.164.6	64756	2	.1	.1	63.8
647623.1.164.5647632.1.164.6	64759	12	.5	.5	64.3
64763 2 .1 .1 64.6	64761	2	.1	.1	64.4
	64762	3	.1	.1	64.5
64770 2 .1 .1 64.7	64763	2	.1	.1	64.6
	64770	2	.1	.1	64.7

64772         17         .7         .7         .653           64776         4         .2         .2         .655           64780         1         .0         .0         .655           64783         2         .1         .1         .656           64784         2         .1         .1         .656           64801         5         .2         .659         .64804         .657           64804         7         .3         .3         .662           64831         .6         .2         .2         .664           64834         .3         .1         .1         .665           64835         .1         .0         .0         .666           64836         .4         .2         .667         .648           64836         .1         .0         .0         .668           64836         .1         .0         .0         .668           64843         .1         .1         .67.3         .3         .67.2           64856         .2         .1         .1         .67.4         .64851         .1         .0         .0         .67.7           64865 <th></th> <th></th> <th></th> <th></th> <th></th>					
6478010655647832.1.165.6647882.1.165.7648015.2.265.9648047.3.366.2648316.2.266.4648343.1.166.5648351.0.066.6648364.2.266.7648401.0.066.8648364.2.266.7648401.0.066.864836.1.1.764850.7.3.3.67.264854.1.1.764856.1.1.67.364865.1.1.67.764865.1.1.67.764873.1.0.67.864865.1.1.67.764874.1.0.065011.1.1.67.965011.1.1.68.065013.7.3.365014.2.1.165015.1.0.68.665016.2.1.165017.1.0.68.665018.11.4.465024.1.165025.1.0.69.465026.5.2.2.69.5	64772	17	.7	.7	65.3
647832.1.165.6647882.1.1.65.7648015.2.2.65.9648047.3.3.66.2648316.2.2.66.4648343.1.1.66.5648351.0.0.66.6648364.2.2.66.7648401.0.0.66.864843.3.1.1.66.964850.7.3.3.67.264854.1.0.0.67.464856.1.1.1.67.364861.1.0.0.67.464862.1.1.67.764873.1.0.0.67.864865.1.0.0.67.864865.1.0.0.67.864874.1.0.0.67.865011.2.1.1.68.065013.7.3.3.68.365014.1.0.0.68.665018.1.1.68.565016.1.1.68.565017.1.1.68.565018.1.1.68.565018.1.1.68.565024.1.1.69.365025.1.0.69.465026.2.2.69.2	64776	4	.2	.2	65.5
647882.1.1.65.7648015.2.2.65.9648047.3.3.66.2648316.2.2.66.4648343.1.1.66.5648351.0.0.66.6648364.2.2.66.7648401.0.0.66.8648433.1.1.66.9648507.3.3.67.2648543.1.1.67.3648562.1.1.67.4648611.0.0.67.4648622.1.1.67.7648731.0.0.67.8648741.0.0.67.8648731.0.0.67.8648741.0.0.67.8648731.0.0.67.8648741.0.0.67.8650112.1.1.67.965013.7.3.3.68.3650144.2.2.68.565015.1.1.68.565016.1.1.68.565017.1.1.68.565018.11.4.465024.1.1.69.365025.1.0.69.465026.2.2.69.6	64780	1	.0	.0	65.5
648015.2.2.6648047.3.3.66.2648316.2.2.66.4648343.1.1.66.5648351.0.0.66.6648364.2.2.66.7648401.0.0.66.8648333.1.1.66.9648433.1.1.66.9648507.3.3.67.2648543.1.1.67.3648562.1.1.67.4648611.0.0.67.4648622.1.1.67.7648654.2.2.67.7648731.0.0.67.8648741.0.0.67.8650112.1.1.67.9650137.3.3.68.3650142.1.1.67.9650152.1.1.68.0650162.1.1.68.0650171.0.0.68.66501811.4.4.69.0650243.1.1.69.3650251.0.0.69.4650265.2.2.69.6	64783	2	.1	.1	65.6
64804         7         .3         .3         .66.2           64831         6         .2         .2         .66.4           64834         3         .1         .1         .66.5           64835         1         .0         .0         .66.6           64836         4         .2         .2         .66.7           64836         4         .2         .2         .66.7           64840         1         .0         .0         .66.8           64843         3         .1         .1         .66.9           64850         .7         .3         .3         .67.2           64854         .3         .1         .1         .67.3           64856         .2         .1         .1         .67.3           64861         1         .0         .0         .67.8           64862         .1         .1         .67.7         .64873         .1         .1           64865         .4         .2         .2         .67.7           64874         1         .0         .0         .67.8           65010         .1         .1         .67.9         .65.1 <td< td=""><td>64788</td><td>2</td><td>.1</td><td>.1</td><td>65.7</td></td<>	64788	2	.1	.1	65.7
64831       6       .2       .2       66.4         64834       3       .1       .1       .66.5         64835       1       .0       .0       66.6         64836       4       .2       .2       .66.7         64836       4       .2       .2       .66.7         64836       4       .2       .2       .66.7         64840       1       .0       .0       .66.8         64843       3       .1       .1       .66.9         64850       .7       .3       .3       .67.2         64856       .1       .1       .67.3       .3       .67.7         64856       .2       .1       .1       .67.3       .64865       .64865       .64.2       .2       .67.7         64865       .4       .2       .2       .67.7       .64873       .1       .67.7         64867       .2       .1       .1       .67.7       .64873       .1       .67.8         64873       .1       .0       .0       .67.8       .65011       .65.1       .65.0         65011       .2       .1       .1       .67.9       .65.2 <td>64801</td> <td>5</td> <td>.2</td> <td>.2</td> <td>65.9</td>	64801	5	.2	.2	65.9
64834       3       .1       .1       66.5         64835       1       .0       .0       66.6         64836       4       .2       .2       66.7         64836       1       .0       .0       66.8         64840       1       .0       .0       66.8         64843       3       .1       .1       66.9         64850       7       .3       .3       67.2         64854       3       .1       .1       67.3         64856       2       .1       .1       67.4         64861       1       .0       .0       67.4         64862       2       .1       .1       67.5         64865       4       .2       .2       67.7         64865       4       .2       .2       67.7         64873       1       0       .0       67.8         64874       1       .0       .0       67.8         65010       2       .1       .1       67.9         65011       1       .0       .0       68.3         65014       .4       .2       .2       .68.5	64804	7	.3	.3	66.2
648351.0.0.66.6648364.2.2.66.7648401.0.0.66.8648433.1.1.66.9648507.3.3.67.2648543.1.1.67.3648562.1.1.67.4648611.0.0.67.4648622.1.1.67.5648654.2.2.67.7648702.1.1.67.5648731.0.0.67.8650102.1.1.67.9650102.1.1.68.0650111.0.0.68.0650137.3.3.68.3650144.2.2.68.5650151.1.68.5650162.1.1.65021.1.1.68.565016.2.2.69.265024.3.1.1.65025.1.0.69.4.65026.2.2.69.6	64831	6	.2	.2	66.4
648364.2.2.66.7648401.0.0.66.8648433.1.1.66.9648507.3.3.67.2648543.1.1.67.3648562.1.1.67.4648611.0.0.67.4648622.1.1.67.5648654.2.2.67.7648702.1.1.67.8648731.0.0.67.8650112.1.1.67.9650102.1.1.68.0650111.0.0.68.0650137.3.3.68.3650144.2.2.68.5650151.1.1.68.5650162.1.1.68.5650171.0.0.68.66501811.4.4.69.0650205.2.2.69.2650243.1.1.69.3650251.0.0.69.4650265.2.2.69.6	64834	3	.1	.1	66.5
648401.0.066.8648433.1.166.9648507.3.367.2648543.1.167.3648562.1.167.4648611.0.067.4648622.1.167.5648654.2.267.7648702.1.167.7648731.0.067.8650012.1.167.9650102.1.167.9650111.0.067.8650137.3.368.0650144.2.268.565015.1.1.68.0650162.1.1650171.0.68.66501811.4.465020.2.269.265024.3.1.165025.1.0.69.465026.2.2.69.565026.2.2.69.6	64835	1	.0	.0	66.6
648433.1.166.9648507.3.367.2648543.1.167.3648562.1.167.4648611.0.067.4648622.1.167.5648654.2.267.7648702.1.167.8648731.0.067.8648741.0.067.8650012.1.167.9650137.3.368.3650144.2.268.565015.1.1.68.965016.1.1.68.965017.1.0.68.665018.11.4.465020.2.269.265024.3.1.165025.1.0.69.465026.2.2.69.6	64836	4	.2	.2	66.7
648507.3.3.67.2648543.1.1.67.3648562.1.1.67.4648611.0.0.67.4648622.1.1.67.5648654.2.2.67.7648702.1.1.67.7648731.0.0.67.8648741.0.0.67.8650012.1.1.67.9650102.1.1.68.0650111.0.0.68.0650137.3.3.68.3650144.2.2.68.5650151.0.0.68.66501811.4.4.69.0650205.2.2.69.2650251.0.0.69.4650255.2.2.69.6	64840	1	.0	.0	66.8
648543.1.167.3648562.1.1.67.4648611.0.0.67.4648622.1.1.67.5648654.2.2.67.7648702.1.1.67.7648731.0.0.67.8648741.0.0.67.8650012.1.1.67.9650102.1.1.68.0650111.0.0.68.0650137.3.3.68.3650144.2.2.68.565015.1.0.0.68.665016.1.1.69.065018.11.4.465020.2.2.69.265024.1.0.0.69.465025.1.0.0.69.465026.2.2.2.69.6	64843	3	.1	.1	66.9
648562.1.167.4648611.0.067.4648622.1.167.5648654.2.267.7648702.1.167.7648731.0.067.8648741.0.067.8650102.1.167.9650102.1.168.0650111.0.068.0650137.3.368.3650144.2.268.5650162.1.168.5650171.0.068.66501811.4.469.0650205.2.269.2650251.0.069.4650265.2.269.6	64850	7	.3	.3	67.2
648611.0.067.4648622.1.167.5648654.2.267.7648702.1.167.7648731.0.067.8648741.0.067.8650012.1.167.9650102.1.168.0650111.0.068.0650137.3.368.3650144.2.268.5650162.1.168.5650171.0.068.66501811.4.469.0650243.1.169.3650251.0.069.4650265.2.269.5650265.2.269.6	64854	3	.1	.1	67.3
648622.1.167.5648654.2.267.7648702.1.167.7648731.0.067.8648741.0.067.8650012.1.167.9650102.1.168.0650111.0.068.0650137.3.368.3650144.2.268.5650162.1.168.5650171.0.068.66501811.4.469.0650243.1.169.3650251.0.069.4650265.2.269.4650265.2.269.4650265.2.269.4650265.2.269.4	64856	2	.1	.1	67.4
648654.2.267.7648702.1.167.7648731.0.067.8648741.0.067.8650012.1.167.9650102.1.168.0650111.0.068.0650137.3.368.3650144.2.268.5650162.1.168.5650171.0.068.66501811.4.469.0650243.1.169.3650251.0.069.4650265.2.269.5650265.2.269.6	64861	1	.0	.0	67.4
648702.1.1.67.7648731.0.0.67.8648741.0.0.67.8650112.1.1.67.9650102.1.1.68.0650111.0.0.68.0650137.3.3.68.3650144.2.2.68.5650162.1.1.68.5650171.0.0.68.66501811.4.4.69.0650243.1.1.69.3650251.0.0.69.4650265.2.2.69.6	64862	2	.1	.1	67.5
648731.0.067.8648741.0.067.8650012.1.167.9650102.1.168.0650111.0.068.0650137.3.368.3650144.2.268.5650162.1.168.5650171.0.068.66501811.4.469.0650243.1.169.3650251.0.069.4650265.2.269.6	64865	4	.2	.2	67.7
648741.0.067.8650012.1.167.9650102.1.168.0650111.0.068.0650137.3.368.3650144.2.268.5650162.1.168.5650171.0.068.66501811.4.469.0650243.1.169.3650251.0.069.4650265.2.269.6	64870	2	.1	.1	67.7
650012.1.167.9650102.1.1.68.0650111.0.0.68.0650137.3.3.68.3650144.2.2.68.5650162.1.1.68.5650171.0.0.68.66501811.4.4.69.0650205.2.2.69.2650243.1.1.69.3650251.0.0.69.4650265.2.2.69.6	64873	1	.0	.0	67.8
650102.1.1.68.0650111.0.0.68.0650137.3.3.68.3650144.2.2.68.5650162.1.1.68.5650171.0.0.68.66501811.4.4.69.0650243.1.1.69.3650251.0.0.69.4650265.2.2.69.6	64874	1	.0	.0	67.8
650111.0.068.0650137.3.3.68.3650144.2.2.68.5650162.1.1.68.5650171.0.0.68.66501811.4.4.69.0650205.2.2.69.2650243.1.1.69.3650251.0.0.69.4650265.2.2.69.6	65001	2	.1	.1	67.9
650137.3.3.68.3650144.2.2.68.5650162.1.1.68.5650171.0.0.68.66501811.4.4.69.0650205.2.2.69.2650243.1.1.69.3650251.0.0.69.4650265.2.2.69.6	65010	2	.1	.1	68.0
650144.2.268.5650162.1.1.68.5650171.0.0.68.66501811.4.4.69.0650205.2.2.69.2650243.1.1.69.3650251.0.0.69.4650265.2.2.69.6	65011	1	.0	.0	68.0
650162.1.168.5650171.0.068.66501811.4.469.0650205.2.269.2650243.1.1.69.3650251.0.069.4650265.2.269.6	65013	7	.3	.3	68.3
650171.0.068.66501811.4.4.69.0650205.2.2.69.2650243.1.1.69.3650251.0.0.69.4650265.2.2.69.6	65014	4	.2	.2	68.5
6501811.4.469.0650205.2.269.2650243.1.169.3650251.0.069.4650265.2.269.6	65016	2	.1	.1	68.5
650205.2.269.2650243.1.169.3650251.0.069.4650265.2.269.6	65017	1	.0	.0	68.6
650243.1.169.3650251.0.069.4650265.2.269.6	65018	11	.4	.4	69.0
650251.0.069.4650265.2.269.6	65020	5	.2	.2	69.2
65026         5         .2         .2         69.6	65024	3	.1	.1	69.3
	65025	1	.0	.0	69.4
65032 1 .0 .0 69.6	65026	5	.2	.2	69.6
	65032	1	.0	.0	69.6

65037         3           65039         1	.1 .0	.1 .0	69.7
	.0	0	
		.0	69.8
65040 3	.1	.1	69.9
65041 13	.5	.5	70.4
65043 8	.3	.3	70.7
65046 3	.1	.1	70.9
65047 1	.0	.0	70.9
65049 4	.2	.2	71.1
65051 8	.3	.3	71.4
65052 1	.0	.0	71.4
65054 2	.1	.1	71.5
65055 1	.0	.0	71.5
65058 3	.1	.1	71.7
65061 1	.0	.0	71.7
65063 1	.0	.0	71.7
65066 3	.1	.1	71.9
65068 4	.2	.2	72.0
65072 1	.0	.0	72.1
65074 5	.2	.2	72.3
65078 4	.2	.2	72.4
65079 4	.2	.2	72.6
65080 1	.0	.0	72.6
65081 5	.2	.2	72.8
65082 3	.1	.1	72.9
65083 1	.0	.0	73.0
65084 6	.2	.2	73.2
65085 2	.1	.1	73.3
65101 8	.3	.3	73.6
65109 8	.3	.3	73.9
65201 2	.1	.1	74.0
65202 6	.2	.2	74.3
65203 4	.2	.2	74.4
65230 2	.1	.1	74.5
65232 1	.0	.0	74.5
65233 14	.6	.6	75.1

65236	5	.2	.2	75.3
65237	2	.1	.1	75.4
65239	5	.2	.2	75.6
65240	4	.2	.2	75.7
65243	2	.1	.1	75.8
65247	1	.0	.0	75.9
65248	6	.2	.2	76.1
65250	1	.0	.0	76.1
65251	10	.4	.4	76.5
65254	5	.2	.2	76.7
65255	1	.0	.0	76.8
65256	3	.1	.1	76.9
65257	4	.2	.2	77.1
65258	2	.1	.1	77.1
65260	1	.0	.0	77.2
65261	4	.2	.2	77.3
65263	5	.2	.2	77.5
65264	2	.1	.1	77.6
65265	14	.6	.6	78.2
65270	26	1.0	1.0	79.2
65274	2	.1	.1	79.3
65275	6	.2	.2	79.5
65279	2	.1	.1	79.6
65280	1	.0	.0	79.7
65281	1	.0	.0	79.7
65283	1	.0	.0	79.7
65301	30	1.2	1.2	80.9
65321	2	.1	.1	81.0
65323	1	.0	.0	81.1
65324	1	.0	.0	81.1
65325	6	.2	.2	81.3
65326	2	.1	.1	81.4
65327	1	.0	.0	81.5
65329	1	.0	.0	81.5
65332	2	.1	.1	81.6

6533410081.6653363.1.181.76533742281.96533810081.965340261.01.083.0653452.1.183.16534710083.16534810083.46535010083.46535142283.66535573383.96536010083.96536010084.46543610084.46543733384.96544010084.96544310084.96544310084.96544310084.96544310084.96544310084.96544310084.96545342285.76545342285.7654633.1.185.9654643.1.185.9654533.1.185.96554242286.76555510.586.56555510.6655551086.7 <th></th> <th>6</th> <th></th> <th></th> <th></th>		6			
66533742281.96533810081.965340261.01.083.06534521.183.16534710083.16534810083.16534962283.46535010083.96535142283.66535573.383.96536010084.46543610084.46543610084.4654383.1.184.56544010084.96543173.384.96544310084.96544310084.96544310084.96545342285.26545342285.26546331.185.76546331.185.9654642.1.185.9655453.1.185.9655463.1.185.9655462.1.185.9655462.1.185.9655463.1.185.9655463.1.185.9655462 <td< td=""><td>65334</td><td>1</td><td>.0</td><td>.0</td><td>81.6</td></td<>	65334	1	.0	.0	81.6
66533810081.965340261.01.083.06534521.183.16534710083.16534810083.4653496.2.283.46535010083.9653514.2.283.6653557.3.383.96536010084.46543610084.4654383.1.184.56544010084.96544310.084.96544310.084.96544310.084.96544310.084.96545342.285.2654534.2.285.765453.1.1.85.165453.1.1.85.765463.1.0.85.765463.1.0.85.865466.1.1.85.965535.3.1.165536.1.0.85.865536.1.1.85.965536.1.1.85.965536.1.1.85.965536.1.1.85.965536.1.1.86.765536.1.0.86.7 <td>65336</td> <td>3</td> <td>.1</td> <td>.1</td> <td>81.7</td>	65336	3	.1	.1	81.7
65340261.01.083.0653452.1.1.83.1653471.0.0.83.1653481.0.0.83.1653496.2.2.83.4653501.0.0.83.4653514.2.2.83.665355.7.3.3.83.9653601.0.0.83.96536112.5.84.4654361.0.0.84.465438.3.1.1.84.5654401.0.0.84.965443.1.0.0.84.965443.1.0.0.84.965443.1.0.0.84.965443.1.0.0.84.965443.1.0.0.84.965443.1.0.0.84.965443.1.0.0.84.965452.3.1.1.85.165453.4.2.2.85.265459.6.2.2.85.265466.3.1.1.85.965546.3.1.1.85.965534.2.1.1.85.965535.3.1.1.86.165536.12.5.86.565542.4.2.2.86.765550.1.0 </td <td>65337</td> <td>4</td> <td>.2</td> <td>.2</td> <td>81.9</td>	65337	4	.2	.2	81.9
65345         2         1         1         83.1           65347         1         0         0         83.1           65348         1         0         0         83.1           65348         1         0         0         83.1           65349         6         2         2         83.4           65350         1         0         0         83.4           65351         4         2         2         83.6           65355         7         3         3         83.9           65360         1         0         0         84.4           65436         1         0         0         84.4           65438         3         .1         1         84.5           65440         1         0         0         84.9           65438         3         .1         1         84.5           65440         1         0         0         84.9           65443         1         0         0         84.9           65452         3         .1         1         85.1           65453         4         2         2         85.2	65338	1	.0	.0	81.9
65347         1         0         0         83.1           65348         1         0         0         83.1           65349         6         2         2         83.4           65350         1         0         0         83.4           65350         1         0         0         83.4           65351         4         2         2         83.6           65355         7         3         3         83.9           65360         1         0         0         83.9           65361         12         5         5         84.4           65436         1         0         0         84.9           65440         1         0         0         84.9           65443         1         0         0         84.9           65443         1         0         0         84.9           65443         1         0         0         84.9           65452         3         .1         1         85.1           65453         4         2         2         85.7           65463         3         .1         1         85.7	65340	26	1.0	1.0	83.0
6534810.083.1653496.2.283.4653501.0.083.4653514.2.283.6653557.3.383.9653601.0.083.96540112.5.584.4654361.0.084.4654383.1.184.5654401.0.084.9654431.0.084.9654431.0.084.9654431.0.084.9654431.0.084.9654523.1.185.165453.4.2.285.565463.1.0.084.965453.1.0.084.965453.1.1.85.165463.1.1.85.165463.1.1.85.765463.1.1.85.765463.1.1.85.865466.1.1.165535.3.1.165536.1.0.85.865535.3.1.165536.1.0.86.765550.1.0.86.765550.1.0.86.765552.1.1.165552.1.1.68.8 </td <td>65345</td> <td>2</td> <td>.1</td> <td>.1</td> <td>83.1</td>	65345	2	.1	.1	83.1
6534962.283.4653501.0.083.4653514.2.283.6653557.3.383.9653601.0.083.96540112.5.584.4654361.0.084.4654383.1.184.5654401.0.084.9654431.0.084.9654431.0.084.9654431.0.084.9654431.0.084.9654431.0.084.9654431.0.084.965452.3.1.185.165463.1.0.084.965453.4.2.285.565463.1.0.084.965453.1.1.85.165463.1.1.85.765463.1.1.85.765463.1.1.85.865466.1.1.165470.1.1.85.965535.3.1.165536.12.5.65.565542.4.2.265550.1.0.67.765550.1.0.67.765552.2.1.1.68.7	65347	1	.0	.0	83.1
6535010083.4653514.2.283.6653557.3.383.9653601.0083.96540112.5.584.4654361.0.084.4654383.1.184.5654401.0.084.9654431.0.084.9654431.0.084.9654431.0.084.9654431.0.084.965452.1.1.85.165453.4.2.285.565463.1.1.85.665463.1.1.85.665463.1.1.85.965463.1.1.85.965464.2.1.1.65470.1.1.85.965535.1.1.85.965536.1.1.85.965535.1.1.85.965536.1.5.86.565542.4.2.2.65550.1.0.86.765550.1.0.86.765552.2.1.1.86.8	65348	1	.0	.0	83.1
653514.2283.6653557.3.3.83.9653601.0.0.83.96540112.5.5.84.4654361.0.0.84.4654383.1.1.84.5654401.0.0.84.9654417.3.3.84.9654431.0.0.84.9654431.0.0.84.9654431.0.0.84.965452.1.1.85.165453.1.1.85.165453.1.1.85.165463.1.1.85.665463.1.1.85.765464.1.0.0.85.865465.1.1.165483.1.1.85.965534.2.1.165535.1.1.85.965536.1.1.85.965536.1.5.86.565542.4.2.265550.1.0.86.765552.2.1.1.86.8	65349	6	.2	.2	83.4
653557.3.383.9653601.0.083.96540112.5.584.4654361.0.084.4654383.1.1.84.5654401.0.084.6654417.3.3.84.9654431.0.084.9654431.0.0.84.9654431.0.0.84.965452.1.1.5.84.965453.1.0.0.84.965453.1.0.0.84.965453.1.0.0.84.965453.1.1.85.165453.1.1.85.165463.1.1.85.765463.1.1.85.765470.1.0.085.8.1.1.85.965534.2.1.165535.3.1.165536.12.5.86.565542.4.2.265550.1.0.66.765550.1.0.66.765552.2.1.1.86.8	65350	1	.0	.0	83.4
653601.0.083.96540112.5.584.4654361.0.084.4654383.1.184.5654401.0.084.6654417.3.384.9654431.0.084.9654431.0.084.9654431.0.084.9654523.1.185.1654534.2.285.2654533.1.185.6654633.1.185.7654633.1.185.7654633.1.185.7654701.0.085.8654831.0.085.8654831.1.185.9655342.1.185.9655353.1.186.16553612.5.6.66553612.5.6655424.2.2655501.0.6655522.1.186.8	65351	4	.2	.2	83.6
65401125584.46543610084.46543831184.56544010084.66544173384.96544310084.96544310084.96544310084.96544310084.96545231185.16545342285.26545342285.56546331185.66546311654701006548311654831165483165483165534655356553665550655526555265552655526555265552	65355	7	.3	.3	83.9
654361.0.084.4654383.1.184.5654401.0.084.6654417.3.384.9654431.0.084.9654431.0.084.9654431.0.084.9654523.1.185.1654534.2.285.2654633.1.185.6654643.1.185.7654633.1.185.7654633.1.185.7654633.1.185.7654701.0.085.8654862.1.185.9655353.1.185.96553612.5.86.5655424.2.286.7655501.0.086.7655522.1.186.8	65360	1	.0	.0	83.9
654383.1.184.5654401.0.084.6654417.3.384.9654431.0.084.9654491.0.084.9654523.1.185.1654534.2.285.2654633.1.185.6654633.1.185.7654633.1.185.7654633.1.185.7654633.1.185.7654633.1.185.7654633.1.185.7654633.1.185.9655342.1.185.9655353.1.185.96553612.5.65.65655424.2.286.7655501.0.086.7655522.1.1.86.8	65401	12	.5	.5	84.4
654401.0.084.6654417.3.384.9654431.0.084.9654491.0.084.965452.3.1.185.165453.4.2.285.265459.6.2.285.565463.1.185.665464.1.0.085.765463.1.0.085.765483.1.0.085.865486.1.1.85.965534.2.1.185.965535.3.1.185.965536.12.5.66.565542.4.2.286.5.1.0.086.5550.1.0.86.765552.2.1.1.86.8	65436	1	.0	.0	84.4
654417.3.384.9654431.0.084.9654491.0.084.9654523.1.185.165453.4.2.285.2654596.2.285.565463.1.1.85.665464.1.0.085.765465.1.0.085.7654701.0.085.865483.1.0.085.865534.1.0.085.965535.3.1.185.965536.12.5.65.5.86.565550.1.0.086.765552.2.1.1.86.8	65438	3	.1	.1	84.5
654431.0.084.9654491.0.084.9654523.1.185.1654534.2.285.2654596.2.285.5654633.1.185.6654633.1.185.7654633.1.185.7654633.1.185.7654633.1.185.7654631.0.8654642.1.1654701.0.8654831.0.0654831.185.9655342.1.1655353.1.16553612.5.6655424.2.2655501.0.86.7655522.1.1.86.8	65440	1	.0	.0	84.6
654491.0.084.9654523.1.185.1654534.2.285.26545966.2.285.5654633.1.185.6654663.1.185.7654701.0.085.7654831.0.085.8654862.1.185.9655353.1.185.96553612.1.186.16553612.5.586.5655424.2.286.7655501.0.086.7655522.1.1.86.8	65441	7	.3	.3	84.9
654523.1.185.1654534.2.285.2654596.2.285.5654633.1.185.6654663.1.185.7654701.0.085.7654831.0.085.8654862.1.185.9655342.1.185.9655353.1.186.16553612.5.686.5655424.2.286.7655501.0.086.7655522.1.1.6	65443	1	.0	.0	84.9
6545342285.26545962285.5654633.1.185.6654663.1.185.7654701.0.085.7654831.0.085.8654862.1.185.9655342.1.185.9655353.1.186.16553612.5.586.5655424.2.286.7655501.0.086.7655522.1.1.86.8	65449	1	.0	.0	84.9
654596.2.285.5654633.1.185.6654663.1.185.7654701.0.085.7654831.0.085.8654862.1.185.9655342.1.185.9655353.1.186.16553612.5.586.5655424.2.286.7655501.0.086.7655522.1.1.86.8	65452	3	.1	.1	85.1
654633.1.185.6654663.1.185.7654701.0.085.7654831.0.085.8654862.1.185.9655342.1.185.9655353.1.186.16553612.5.586.5655424.2.286.7655501.0.086.7655522.1.1.86.8	65453	4	.2	.2	85.2
654663.1.185.7654701.0.085.7654831.0.085.8654862.1.185.9655342.1.185.9655353.1.186.16553612.5.586.5655424.2.286.7655501.0.086.7655522.1.186.8	65459	6	.2	.2	85.5
654701.0.085.7654831.0.085.8654862.1.185.9655342.1.185.9655353.1.186.16553612.5.586.5655424.2.286.7655501.0.086.7655522.1.186.8	65463	3	.1	.1	85.6
654831.0.085.8654862.1.185.9655342.1.185.9655353.1.186.16553612.5.586.5655424.2.286.7655501.0.086.7655522.1.186.8	65466	3	.1	.1	85.7
654862.1.185.9655342.1.1.85.9655353.1.1.86.16553612.5.5.86.5655424.2.2.86.7655501.0.0.86.7655522.1.1.86.8	65470	1	.0	.0	85.7
655342.1.185.9655353.1.186.16553612.5.586.5655424.2.286.7655501.0.086.7655522.1.186.8	65483	1	.0	.0	85.8
655353.1.186.16553612.5.586.5655424.2.286.7655501.0.086.7655522.1.186.8	65486	2	.1	.1	85.9
6553612.5.586.5655424.2.286.7655501.0.086.7655522.1.186.8	65534	2	.1	.1	85.9
655424.2.286.7655501.0.086.7655522.1.186.8	65535	3	.1	.1	86.1
655501.0.086.7655522.1.186.8	65536	12	.5	.5	86.5
65552 2 .1 .1 86.8	65542	4	.2	.2	86.7
	65550	1	.0	.0	86.7
65555 1 .0 .0 86.9	65552	2	.1	.1	86.8
	65555	1	.0	.0	86.9

65556         6         .2         .2         87.1           65557         1         .0         .0         87.1           65559         9         .4         .4         87.5           65560         18         .7         .7         88.2           65565         .4         .2         .2         .88.4           65567         1         .0         .0         .88.4           65561         .1         .1         .88.5         .8           65582         .6         .2         .2         .88.8           65583         .6         .2         .2         .89.9           .65590         .5         .2         .2         .89.4           .65591         .2         .1         .1         .89.5           .65601         .1         .0         .0         .89.6           .65603         .3         .1         .1         .89.7           .65604         .2         .1         .1         .89.7           .65605         .3         .1         .1         .89.7           .65606         .7         .3         .3         .90.2           .65605					
665559         9         4         4         87.5           65560         18         .7         .7         88.2           65565         4         .2         .2         88.4           65567         1         .0         .0         88.4           65571         .3         .1         .1         .85.5           65582         .6         .2         .2         .88.8           65583         .6         .2         .2         .89.9           65584         .2         .2         .89.9           65585         .2         .2         .89.4           65591         .2         .1         .1         .89.5           65603         .3         .1         .1         .89.9           65604         .1         .1         .89.9           65605         .3         .1         .1         .89.9           65606         .7         .3         .3         .90.2           65605         .3         .1         .1         .89.9           65606         .3         .3         .90.2         .90.4           65605         .3         .1         .1         .99.9	65556	6	.2	.2	87.1
65560         18         .7         .88.2           65565         4         .2         .86.4           65567         1         .0         .0         .88.4           65567         3         .1         .1         .88.5           65582         6         .2         .2         .88.8           65583         6         .2         .2         .89.0           65584         6         .2         .2         .89.2           65590         .5         .2         .2         .89.4           65591         .2         .1         .1         .89.5           65601         1         .0         .0         .89.6           65603         .3         .1         .1         .89.7           65604         .2         .1         .1         .89.8           65605         .3         .1         .1         .89.9           65606         .7         .3         .3         .90.2           65605         .3         .1         .1         .89.9           65606         .2         .2         .90.4         .65613         .0         .90.2           .65613 <td< td=""><td>65557</td><td>1</td><td>.0</td><td>.0</td><td>87.1</td></td<>	65557	1	.0	.0	87.1
65565         4         2         2         88.4           65567         1         0         0         88.4           65571         3         .1         .1         88.5           65582         6         .2         .2         88.8           65583         6         .2         .2         89.0           65588         6         .2         .2         89.2           65590         5         .2         .2         89.4           65591         2         .1         .1         89.5           65601         1         .0         .0         89.6           65603         .3         .1         .1         89.7           65604         .2         .1         .1         89.8           65605         .3         .1         .1         89.7           65606         .7         .3         .3         90.2           65605         .3         .1         .1         89.8           65605         .3         .1         .1         89.9           65606         .2         .2         90.4         65610           .65611         1         .0 <td>65559</td> <td>9</td> <td>.4</td> <td>.4</td> <td>87.5</td>	65559	9	.4	.4	87.5
65567         1         0         0         88.4           65571         3         .1         .1         88.5           65582         6         .2         .2         88.8           65583         6         .2         .2         89.0           65588         6         .2         .2         89.2           65590         5         .2         .2         89.4           65591         2         .1         .1         89.5           65601         1         .0         .0         89.6           65603         3         .1         .1         89.7           65604         .2         .1         .1         89.8           65605         .3         .1         .1         89.8           65605         .3         .1         .1         89.8           65605         .3         .1         .1         89.8           65605         .3         .1         .1         89.8           65605         .3         .1         .1         89.9           65606         .2         .2         90.4         65610           .0         .0         .0	65560	18	.7	.7	88.2
65571         3         .1         .1         88.5           65582         6         .2         .2         .88.8           65583         6         .2         .2         .89.0           65583         6         .2         .2         .89.0           65583         6         .2         .2         .89.2           65590         5         .2         .2         .89.4           65591         2         .1         .1         .89.5           65601         1         .0         .0         .89.6           65603         .3         .1         .1         .89.7           65604         .2         .1         .1         .89.8           65605         .3         .1         .1         .89.8           65605         .3         .1         .1         .89.8           65605         .3         .1         .1         .89.8           65605         .3         .1         .1         .89.8           65605         .3         .1         .1         .89.9           65606         .2         .2         .90.4         .65613           .1         .0	65565	4	.2	.2	88.4
6558262288.86558362289.06558862289.26559052289.46559121.189.5666011.0.089.6656033.1.189.7656042.1.189.8656053.1.189.9656067.3.390.2656086.2.290.4656091.0.090.5656111.0.090.56561312.5.91.0656151.0.091.5656263.1.1.91.7656261.0.0.91.8656332.1.1.91.9656353.1.1.92.0656353.1.1.92.1656402.1.1.92.1656442.1.1.92.2656464.2.2.92.4	65567	1	.0	.0	88.4
6558362289.06558862289.26559052289.46559121189.56560110089.6656033.1.189.7656042.1.189.8656053.1.189.8656067.3.390.2656086.2.290.4656091.0.090.5656111.0.090.56561312.5.591.0656151.0.090.56561611.4.491.565625.1.0.091.865632.1.1.91.765626.1.0.0.91.865633.1.1.92.065635.1.0.0.92.065640.1.1.22.165644.1.1.92.165646.1.1.22.265646.2.2.265646.2.2.265646.2.2.265646.2.2.2	65571	3	.1	.1	88.5
655886.2.2.89.2655905.2.2.89.4655912.1.1.89.5656011.0.0.89.6656033.1.1.89.7656042.1.1.89.8656053.1.1.89.8656067.3.3.90.2656086.2.2.90.4656091.0.0.90.5656101.0.0.90.56561312.5.5.91.06561611.4.4.91.5656223.1.1.91.6656253.1.1.91.7656261.0.0.91.865633.2.1.1.91.965635.3.1.1.92.065640.1.0.0.92.165644.2.1.1.92.265646.4.2.2.92.4	65582	6	.2	.2	88.8
6559052289.4655912.1.189.56560110.089.6656033.1.189.7656042.1.189.8656053.1.189.9656067.3.390.2656086.2.290.4656091.0090.5656101.0.090.56561312.5.591.06561611.4.491.565622.1.0.091.865625.1.0.091.865633.1.1.91.965635.1.0.0.91.865635.1.0.0.91.865635.1.0.0.91.865635.1.0.0.91.865635.1.0.0.91.865635.1.0.0.91.865635.1.0.0.92.065640.1.1.92.165644.2.1.1.92.265646.2.1.1.92.265646.2.2.92.4	65583	6	.2	.2	89.0
655912.1.1.89.5656011.0.0.89.6656033.1.1.89.7656042.1.1.89.8656053.1.1.89.9656067.3.3.90.2656086.2.2.90.4656091.0.0.90.5656101.0.0.90.56561312.5.5.91.0656151.0.0.90.56561611.4.4.91.565625.3.1.1.91.665626.3.1.1.91.765626.3.1.1.91.765635.3.1.1.91.965635.3.1.1.92.065635.3.1.1.92.165644.2.1.1.92.265646.3.1.1.92.2	65588	6	.2	.2	89.2
656011.0.089.6656033.1.189.7656042.1.189.8656053.1.189.9656067.3.390.2656086.2.290.4656091.0.090.4656101.0.090.56561312.5.591.0656151.0.091.06561611.4.491.5656253.1.1.91.7656261.0.0.91.8656353.1.1.91.7656361.0.0.91.8656353.1.1.91.7656361.0.0.91.8656353.1.1.91.7656461.0.0.91.865635.1.0.0.91.865636.1.0.0.91.865635.1.1.91.965635.1.0.0.92.065644.2.1.1.92.165644.2.1.1.92.265646.2.1.1.92.265646.2.1.1.92.465646.2.1.1.92.465646.2.1.1.92.465646.2.1.1<	65590	5	.2	.2	89.4
656033.1.189.7656042.1.189.8656053.1.189.9656067.3.390.2656086.2.290.4656091.0.090.4656101.0.090.56561312.5.591.0656151.0.091.06561611.4.491.5656223.1.191.7656253.1.191.7656353.1.191.9656353.1.191.9656353.1.192.0656402.1.192.1656442.1.192.2656464.2.292.4	65591	2	.1	.1	89.5
656042.1.189.8656053.1.189.9656067.3.390.2656086.2.290.4656091.0.090.4656101.0.090.56561312.5.591.0656151.0.091.06561611.4.491.5656223.1.191.6656353.1.191.8656353.1.191.9656353.1.192.0656371.0.092.0656442.1.192.2656464.2.292.4	65601	1	.0	.0	89.6
656053.1.189.9656067.3.390.2656086.2.290.4656091.0.090.4656101.0.090.56561312.5.591.0656151.0.091.06561611.4.491.5656223.1.191.6656253.1.191.7656261.0.091.865633.1.1.91.7656353.1.1.91.865635.1.0.0.91.865635.1.0.0.91.865635.1.0.0.91.865635.1.0.0.91.865635.1.0.0.91.865635.1.0.0.92.065640.1.0.0.92.065644.2.1.1.92.265646.2.1.1.92.265646.2.1.1.92.4	65603	3	.1	.1	89.7
656067.3.390.2656086.2.290.4656091.0.090.4656101.0.090.56561312.5.591.0656151.0.091.06561611.4.491.5656223.1.191.7656261.0.091.8656323.1.191.7656353.1.191.9656353.1.192.0656402.1.192.0656442.1.192.2656464.2.292.4	65604	2	.1	.1	89.8
656086.2.290.4656091.0.090.4656101.0.090.5656111.0.090.56561312.5.91.0656151.0.091.06561611.4.491.565622.3.1.1.91.665625.3.1.1.91.765626.3.1.1.91.865633.1.0.0.91.865635.3.1.1.91.965635.3.1.1.92.065637.3.1.1.92.165644.2.1.1.92.265646.4.2.2.92.4	65605	3	.1	.1	89.9
656091.0.090.4656101.0.090.5656111.0.090.56561312.5.591.0656151.0.091.06561611.4.491.565622.1.1.191.665625.1.0.091.865626.1.0.091.865633.1.1.91.965635.1.0.0.91.865635.1.0.0.91.865635.1.1.1.92.065640.1.0.0.92.065640.1.1.1.92.165644.1.1.1.92.165646.1.2.1.192.4.1.1.92.4	65606	7	.3	.3	90.2
656101.0.090.5656111.0.090.56561312.5.591.0656151.0.091.06561611.4.491.565622.3.1.191.665625.3.1.191.765626.1.0.091.865632.1.0.091.865633.1.1.91.765635.3.1.1.92.065635.3.1.1.92.065636.1.0.0.92.065637.1.0.0.92.165640.2.1.1.92.165644.2.1.1.92.4	65608	6	.2	.2	90.4
656111.0.090.56561312.5.591.0656151.0.091.06561611.4.491.5656223.1.191.6656253.1.191.7656261.0.091.8656321.0.091.8656353.1.191.9656353.1.1.91.9656353.1.1.92.0656371.0.0.92.0656402.1.1.92.1656442.1.1.92.2656464.2.2.92.4	65609	1	.0	.0	90.4
6561312.591.0656151.0.091.06561611.4.491.5656223.1.191.665625.3.1.191.765626.1.0.091.865632.1.0.091.865633.1.0.091.865635.1.0.091.865635.1.0.091.865635.1.0.092.065637.1.0.092.065640.1.1.192.165644.2.1.192.265646.4.2.2.265646.4.2.2.2	65610	1	.0	.0	90.5
656151.0.091.06561611.4.491.5656223.1.191.6656253.1.191.7656261.0.091.8656321.0.091.8656332.1.191.9656353.1.192.0656371.0.092.0656402.1.192.1656442.1.192.2656464.2.292.4	65611	1	.0	.0	90.5
6561611.4.491.5656223.1.191.6656253.1.191.7656261.0.091.8656321.0.091.8656332.1.191.9656353.1.192.0656371.0.092.0656402.1.192.1656442.1.192.2656464.2.292.4	65613	12	.5	.5	91.0
656223.1.191.6656253.1.191.7656261.0.091.8656321.0.091.8656332.1.191.9656353.1.192.0656371.0.092.0656402.1.192.1656442.1.192.2656464.2.292.4	65615	1	.0	.0	91.0
656253.1.191.7656261.0.091.8656321.0.091.8656332.1.191.9656353.1.192.0656371.0.092.0656402.1.192.1656442.1.192.2656464.2.292.4	65616	11	.4	.4	91.5
656261.0.091.8656321.0.091.8656332.1.191.9656353.1.192.0656371.0.092.0656402.1.192.1656442.1.192.2656464.2.292.4	65622	3	.1	.1	91.6
656321.0.091.8656332.1.191.9656353.1.192.0656371.0.092.0656402.1.192.1656442.1.192.2656464.2.292.4	65625	3	.1	.1	91.7
656332.1.191.9656353.1.192.0656371.0.092.0656402.1.192.1656442.1.192.2656464.2.292.4	65626	1	.0	.0	91.8
656353.1.192.0656371.0.092.0656402.1.192.1656442.1.192.2656464.2.292.4	65632	1	.0	.0	91.8
656371.0.092.0656402.1.192.1656442.1.192.2656464.2.292.4	65633	2	.1	.1	91.9
656402.1.192.1656442.1.192.2656464.2.292.4	65635	3	.1	.1	92.0
656442.1.192.2656464.2.292.4	65637	1	.0	.0	92.0
65646 4 .2 .2 92.4	65640	2	.1	.1	92.1
	65644	2	.1	.1	92.2
65647 2 .1 .1 92.4	65646	4	.2	.2	92.4
	65647	2	.1	.1	92.4

65650         2         .1         .1         92.5           65652         1         .0         .0         92.6           65653         1         .0         .0         92.6           65655         3         .1         .1         192.7           65656         1         .0         .0         92.8           65661         3         .1         .1         192.9           65662         1         .0         .0         92.9           65668         3         .1         .1         193.0           65672         1         .0         .0         93.1           65679         2         .1         .1         193.2           65681         3         .1         .1         93.3           65682         1         .0         .0         93.3           65685         3         .1         .1         93.4           65686         2         .1         .1         93.5           65685         3         .1         .1         93.5           65685         .2         .2         .93.7           65706         .2         .2         .94.1<					
666653         1         0         0         92.6           65655         3         1         1         92.7           65656         1         0         0         92.8           65661         3         1         1         92.9           65662         1         0         0         92.9           65662         1         0         0         92.9           65668         3         1         1         93.0           65672         1         0         0         93.1           65679         2         1         1         93.3           65681         3         1         1         93.3           65682         1         0         0         93.3           65685         3         1         1         93.5           65686         2         1         1         93.5           65685         3         1         0         0         93.7           65685         1         0         0         93.7         65692         1         0         93.7           65705         1         0         0         93.7         657	65650	2	.1	.1	92.5
656553.1.1 $92.7$ $65656$ 100 $92.8$ $65661$ 3.1.1 $92.9$ $65662$ 100 $92.9$ $65662$ 100 $92.9$ $65668$ 3.1.1 $93.0$ $65672$ 100 $93.1$ $65679$ 2.1.1 $93.3$ $65681$ 3.1.1 $93.3$ $65682$ 100 $93.3$ $65685$ 3.1.1 $93.4$ $65686$ 2.1.1 $93.3$ $65685$ 3.1.1 $93.4$ $65686$ 2.1.1 $93.7$ $65686$ 2.1.1 $93.7$ $65686$ 2.1.0.0 $93.7$ .5.2.2 $65705$ 1.0.0 $93.9$ .5.5.2.2 $65706$ 5.2.2.94.1 $65708$ 7.3.3.94.7 $65712$ 2.1.1.94.8 $65713$ 1.0.0.94.8 $65714$ 4.2.2.95.2 $65721$ .5.2.2.95.2 $65723$ .7.3.3.95.8 $65724$ .1.1.95.8 $65732$ .2.1.1.95.8 $65746$ .2.2.96.2 $65746$	65652	1	.0	.0	92.6
666666         1         0         0         92.8           65661         3         .1         .1         92.9           65662         1         0         0         92.9           65662         1         0         0         92.9           65668         3         .1         .1         93.0           65672         1         .0         .0         93.1           65679         2         .1         .1         93.2           65681         3         .1         .1         93.3           65682         1         .0         .0         93.3           65686         2         .1         .1         93.5           65689         4         .2         .2         93.7           65692         1         .0         .0         93.9           65705         1         .0         .0         93.9           65705         1         .0         .0         93.9           65713         .1         .0         .0         93.9           65714         .2         .2         .94.1           65713         .1         .0         .94.8	65653	1	.0	.0	92.6
666613.1.1 $92.9$ $65662$ 10.0 $92.9$ $65662$ 1.0.0 $93.1$ $65672$ 1.0.0 $93.1$ $65672$ 2.1.1.93.2 $65681$ 3.1.1.93.3 $65682$ 1.0.0.93.3 $65682$ 3.1.1.93.3 $65685$ 3.1.1.93.4 $65686$ 2.1.1.93.5 $65689$ 4.2.2.93.7 $65692$ 1.0.0.93.7 $65704$ 4.2.2.93.9 $65705$ 1.0.0.93.9 $65706$ 5.2.2.94.1 $65713$ 1.0.0.93.9 $65714$ 4.2.2.94.1 $65713$ .1.0.0.93.9 $65714$ .2.2.94.1 $65713$ .1.0.0 $65714$ .2.2.94.1 $65717$ .5.2.2 $65714$ .4.2.2 $65721$ .6.2.2 $65723$ .7.3.3 $65724$ .1.1.95.8 $65724$ .1.1.96.0 $65737$ .4.2.2 $65742$ .1.1.96.3 $65746$ .2.2.96.5 $65746$ .2.2 <td>65655</td> <td>3</td> <td>.1</td> <td>.1</td> <td>92.7</td>	65655	3	.1	.1	92.7
65662100 $92.9$ $65668$ 3.1.1 $93.0$ $65672$ 100 $93.1$ $65672$ 2.1.1 $93.2$ $65681$ 3.1.1 $93.3$ $65682$ 100 $93.3$ $65685$ 3.1.1 $93.4$ $65686$ 2.1.1 $93.4$ $65686$ 2.1.1 $93.4$ $65686$ 2.1.1 $93.7$ $65682$ 100 $93.7$ $65692$ 100 $93.7$ $65704$ 422 $93.9$ $65705$ 100 $93.9$ $65706$ 522 $94.1$ $65713$ 100 $93.9$ $65714$ 422 $94.1$ $65713$ 73.3 $94.4$ $65714$ 422 $95.0$ $65717$ 522 $95.0$ $65717$ 522 $95.2$ $65721$ 622 $95.8$ $65722$ 2.1.1 $95.8$ $65724$ 2.1.1 $95.9$ $65732$ 2.1.1 $96.7$ $65742$ 3.1.1 $96.7$ $65742$ 3.1.1 $96.7$ $65742$ 3.1.1 $96.7$ $65742$ 3.1.1 <td>65656</td> <td>1</td> <td>.0</td> <td>.0</td> <td>92.8</td>	65656	1	.0	.0	92.8
65668         3         .1         .1         93.0           65672         1         .0         .0         93.1           65672         1         .0         .0         93.1           65679         2         .1         .1         93.2           65681         3         .1         .1         93.3           65682         1         .0         .0         93.3           65685         3         .1         .1         93.5           65686         2         .1         .1         93.5           65689         4         .2         .2         93.7           65692         1         .0         .0         93.9           65704         4         .2         .2         93.9           65705         1         .0         .0         93.9           65706         5         .2         .2         94.1           65711         .7         .3         .3         94.4           65712         .1         .1         94.8           65713         1         .0         .0         94.8           65714         4         .2         .2	65661	3	.1	.1	92.9
66567210093.1656792.1.1.93.2656813.1.1.93.365682100.93.3656853.1.1.93.4656862.1.1.93.4656853.1.1.93.4656862.1.1.93.5656894.2.2.93.7656921.0.0.93.9657044.2.2.93.9657051.0.0.93.9657065.2.2.94.1657087.3.3.94.4657117.3.3.94.4657122.1.1.94.8657131.0.0.94.8657144.2.2.95.0657175.2.2.95.2657216.2.2.95.4657237.3.3.95.8657242.1.1.95.9657374.2.2.96.2657423.1.1.96.3657423.1.1.96.3657466.2.2.96.2	65662	1	.0	.0	92.9
656792.1.193.2656813.1.193.3656821.0.093.3656853.1.193.4656862.1.193.5656894.2.293.7656921.0.093.9657044.2.293.9657051.0.093.9657065.2.2.94.1657087.3.3.94.4657117.3.3.94.8657122.1.1.94.8657131.0.0.94.8657144.2.2.95.065715.1.1.1.94.865713.1.0.0.94.865714.2.2.95.265715.2.2.95.265721.2.1.1.3.3.95.865723.7.3.3.6574.2.1.1.95.9.1.1.95.965732.1.1.95.965732.1.1.96.3.65742.3.1.1.96.3.1.1.96.3.9746.2.2.96.2.95746.2.2.96.5	65668	3	.1	.1	93.0
656813.1.193.3656821.0.093.3656853.1.193.4656862.1.193.5656894.2.293.7656921.0.093.9657044.2.293.9657051.0.093.9657065.2.294.1657087.3.3.94.4657117.3.3.94.7657122.1.1.94.8657131.0.0.94.8657144.2.2.95.065715.1.1.95.565716.2.2.95.265717.3.3.95.865724.1.1.95.865725.1.1.195.9.1.1.95.865724.2.1.1.3.3.95.865725.1.1.95.965732.1.1.95.965732.1.1.96.365742.3.1.1.96.3.1.1.96.3.95746.2.2.96.2.95746.2.2.96.2.95746.2.2.96.5.95746.2.2.96.5.95746.2.2.96.5.95746.2.2 </td <td>65672</td> <td>1</td> <td>.0</td> <td>.0</td> <td>93.1</td>	65672	1	.0	.0	93.1
6568210093.3656853.1.193.4656862.1.193.5656894.2.293.7656921.0.093.7657044.2.293.9657051.0.093.9657065.2.294.1657087.3.3.94.4657117.3.3.94.4657122.1.1.94.8657131.0.0.94.8657144.2.2.95.065715.2.2.95.2657216.2.2.95.2657237.3.3.95.8657242.1.1.95.8657252.1.1.95.8657262.1.1.95.8657272.1.1.95.8657242.1.1.95.8657322.1.1.96.3657374.2.2.96.2657423.1.1.96.3657423.1.1.96.3657423.1.1.96.3657466.2.2.96.5	65679	2	.1	.1	93.2
656853.1.193.4656862.1.193.5656894.2.293.7656921.0.093.7657044.2.293.9657051.0.093.9657065.2.294.1657087.3.394.4657117.3.394.7657122.1.194.8657131.0.094.8657144.2.295.0657175.2.295.2657216.2.295.4657237.3.395.8657242.1.195.9657322.1.196.9657374.2.296.2657423.1.196.3657423.1.196.3657423.1.196.3657423.1.196.3657423.1.196.3657423.1.196.3657423.1.196.3657423.1.196.3657423.1.196.3657423.1.196.3657423.1.196.3657466.2.296.5 <td>65681</td> <td>3</td> <td>.1</td> <td>.1</td> <td>93.3</td>	65681	3	.1	.1	93.3
656862.1.193.5656894.2.293.7656921.0.093.7657044.2.293.9657051.0.093.9657065.2.2.94.1657087.3.3.94.4657117.3.3.94.4657122.1.1.94.8657131.0.0.94.8657144.2.2.95.065715.2.2.95.2657216.2.2.95.4657237.3.3.95.8657242.1.1.95.8657322.1.1.95.9657322.1.1.96.3657354.2.2.96.2657423.1.1.96.3657453.1.1.96.3657466.2.2.96.5	65682	1	.0	.0	93.3
656894.2.293.7656921.0.093.7657044.2.293.9657051.0.093.9657065.2.2.94.1657087.3.3.94.4657117.3.3.94.7657122.1.1.94.8657131.0.0.94.8657144.2.2.95.0657175.2.2.95.2657216.2.2.95.2657216.2.2.95.2657237.3.3.95.8657242.1.1.95.9657322.1.1.95.9657322.1.1.96.0657374.2.2.96.3657423.1.1.96.3657466.2.2.96.5	65685	3	.1	.1	93.4
656921.0.093.7657044.2.293.9657051.0.093.9657065.2.294.1657087.3.3.94.4657117.3.3.94.7657122.1.1.94.8657131.0.0.94.8657144.2.2.95.0657175.2.2.95.2657216.2.2.95.2657237.3.3.94.8657242.1.1.95.8657252.1.1.95.8657262.1.1.95.9657374.2.2.96.2657423.1.1.96.3657466.2.2.96.5	65686	2	.1	.1	93.5
657044.2.293.9657051.0.093.9657065.2.294.1657087.3.3.94.4657117.3.3.94.7657122.1.1.94.8657131.0.0.94.8657144.2.2.95.0657175.2.2.95.2657216.2.2.95.4657237.3.3.94.8657242.1.1.95.8657252.1.1.95.8657262.1.1.95.8657272.1.1.95.8657322.1.1.95.8657322.1.1.96.0657374.2.2.96.2657423.1.1.96.3657466.2.2.96.5	65689	4	.2	.2	93.7
657051.0.093.9657065.2.294.1657087.3.394.4657117.3.394.7657122.1.194.8657131.0.094.8657144.2.295.0657175.2.295.0657176.2.295.4657216.2.295.4657237.3.395.8657242.1.195.8657252.1.195.8657262.1.196.0657374.2.296.2657423.1.196.3657466.2.2.96.3	65692	1	.0	.0	93.7
657065.2.294.1657087.3.394.4657117.3.394.7657122.1.194.8657131.0.094.8657144.2.295.0657175.2.295.2657176.2.295.4657216.2.295.4657237.3.395.8657242.1.195.9657322.1.195.9657322.1.196.9657374.2.296.2657423.1.196.3657466.2.296.5	65704	4	.2	.2	93.9
657087.3.394.4657117.3.394.7657122.1.194.8657131.0.094.8657144.2.295.0657175.2.295.2657216.2.295.4657237.3.395.8657242.1.195.9657252.1.195.9657262.1.195.9657272.1.196.0657374.2.296.2657423.1.196.3657466.2.296.5	65705	1	.0	.0	93.9
657117.3.394.7657122.1.194.8657131.0.094.8657144.2.295.0657175.2.295.2657216.2.295.4657222.1.195.5657237.3.395.8657242.1.195.9657322.1.195.9657322.1.196.0657374.2.296.2657423.1.196.3657466.2.296.5	65706	5	.2	.2	94.1
657122.1.194.8657131.0.094.8657144.2.295.0657175.2.295.2657216.2.295.4657222.1.195.5657237.3.395.8657242.1.195.9657322.1.196.3657374.2.296.2657423.1.196.3657466.2.296.5	65708	7	.3	.3	94.4
657131.0.094.8657144.2.295.0657175.2.295.2657216.2.295.4657222.1.195.5657237.3.395.8657242.1.195.9657252.1.195.9657262.1.196.0657374.2.296.2657423.1.196.3657466.2.296.5	65711	7	.3	.3	94.7
657144.2.295.0657175.2.295.2657216.2.295.4657222.1.195.5657237.3.395.8657242.1.195.8657292.1.195.9657322.1.196.0657374.2.296.2657423.1.196.3657466.2.296.5	65712	2	.1	.1	94.8
657175.2.295.2657216.2.295.4657222.1.195.5657237.3.395.8657242.1.195.8657292.1.195.9657322.1.196.0657374.2.296.2657423.1.196.3657466.2.296.5	65713	1	.0	.0	94.8
657216.2.295.4657222.1.195.5657237.3.395.8657242.1.195.8657292.1.195.9657322.1.196.0657374.2.296.2657423.1.196.3657466.2.296.5	65714	4	.2	.2	95.0
657222.1.195.5657237.3.395.8657242.1.195.8657292.1.195.9657322.1.196.0657374.2.296.2657423.1.196.3657466.2.296.5	65717	5	.2	.2	95.2
657237.3.395.8657242.1.195.8657292.1.195.9657322.1.196.0657374.2.296.2657423.1.196.3657466.2.296.5	65721	6	.2	.2	95.4
657242.1.195.8657292.1.195.9657322.1.196.0657374.2.296.2657423.1.196.3657466.2.296.5	65722	2	.1	.1	95.5
657292.1.195.9657322.1.196.0657374.2.296.2657423.1.196.3657466.2.296.5	65723	7	.3	.3	95.8
657322.1.196.0657374.2.296.2657423.1.196.3657466.2.296.5	65724	2	.1	.1	95.8
657374.2.296.2657423.1.196.3657466.2.296.5	65729	2	.1	.1	95.9
657423.1.196.3657466.2.296.5	65732	2	.1	.1	96.0
65746 6 .2 .2 96.5	65737	4	.2	.2	96.2
	65742	3	.1	.1	96.3
65747 5 .2 .2 .96.7	65746	6	.2	.2	96.5
	65747	5	.2	.2	96.7

				-
65753	5	.2	.2	96.9
65754	1	.0	.0	97.0
65755	1	.0	.0	97.0
65757	2	.1	.1	97.1
65759	2	.1	.1	97.2
65760	1	.0	.0	97.2
65761	3	.1	.1	97.3
65764	2	.1	.1	97.4
65766	1	.0	.0	97.4
65767	3	.1	.1	97.6
65768	2	.1	.1	97.6
65769	1	.0	.0	97.7
65772	4	.2	.2	97.8
65773	2	.1	.1	97.9
65774	3	.1	.1	98.0
65775	11	.4	.4	98.5
65779	4	.2	.2	98.6
65785	6	.2	.2	98.9
65786	1	.0	.0	98.9
65787	2	.1	.1	99.0
65789	1	.0	.0	99.0
65791	6	.2	.2	99.3
65793	2	.1	.1	99.4
65802	3	.1	.1	99.5
65803	3	.1	.1	99.6
65804	4	.2	.2	99.8
65807	4	.2	.2	99.9
65809	1	.0	.0	100.0
65810	1	.0	.0	100.0
Total	2502	100.0	100.0	

		hat is your no			
_					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	Under \$30,000	501	20.0	20.0	20.0
	\$30,000 - \$49,999	398	15.9	15.9	35.9
	\$50,000 - \$69,999	307	12.3	12.3	48.2
	\$70,000 or greater	554	22.1	22.1	70.3
	Refused	742	29.7	29.7	100.0
	Total	2502	100.0	100.0	

What is your household income?

O.M.B. No. 2127-0003

-

•

the state and the second

U.S. Department of Transportation National Highway Traffic Safety Administration

HIGHWAY SAFETY PROGRAM COST SUMMARY

•

Federal Highway Administration

State Missouri Number 17-1 Date June 23, 2016

100,000         13,80           0.00         1,947,102.87         13,80           0.00         0.00         8,234           0.00         0.00         8,234           0.00         0.00         1,947,102.87         15,500           0.00         0.00         15,500         15,500           0.00         0.00         15,500         15,500           0.00         0.00         15,500         15,500           0.00         0.00         141,450         141,450           0.00         0.00         141,450         141,450           0.00         0.00         10,00         141,450         141,450           0.00         0.00         10,00         141,450         141,450           0.00         0.00         0.00         141,450         141,450           0.00         0.00         0.00         141,450         141,450           0.00         0.00         0.00         141,450         141,450           0.00         0.00         0.00         141,450         141,450           0.00         0.00         0.00         141,450         141,450           0.00         0.00         0.00         0	Appre	Approved Program Costs 100 000 00	Statef.ocal Funes 400 000 00	Previous Balance	Federally Rundeo Programs II 23 [norease/(Decrease)] III Or	ms Ourrent Balance	Federal Share to Local
0.00         0.00         13,50           0.00         0.00         535,34           0.00         0.00         8,20           1,947,102.87         0.00         8,20           0.00         0.00         15,00           0.00         0.00         15,00           0.00         0.00         15,00           0.00         0.00         15,00           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,47           0.00         0.00         141,47           0.00         0.00         141,47           0.00         0.00         141,47           0.00         0.00         141,47           0.00         0.00         141,47           0.00         0.00         141,47           0.00         0	45	000.000	00.0				00.0
0.00         0.00         5.35,34           0.00         0.00         8,20           1,947,102.87         0.00         8,224,85           0.00         0.00         15,00           0.00         0.00         15,00           0.00         0.00         333,17           0.00         0.00         333,17           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,47           0.00         0.00         141,47           0.00         0.00         141,47           0.00         0.00         141,47           0.00         0.00         141,47           0.00         0.00         141,47           0.00         0.00         141,47           0.00         0.00         141,47           0.00         0.00         141,47           0.00         0.00         141,47           0.00	Ť	3,800.00	00.0				13,800.00
0.00         0.00         8,20           1,947,102.87         3.624,65           0.00         1.5,00           0.00         3.624,65           0.00         1.5,00           0.00         1.5,00           0.00         1.5,00           0.00         1.5,00           0.00         1.5,00           0.00         1.5,00           0.00         1.5,00           0.00         1.41,45           0.00         1.41,45           0.00         1.41,45           0.00         1.41,45           0.00         1.41,45           0.00         1.000           0.00         1.41,45           0.00         1.41,45           0.00         1.41,45           0.00         1.41,45           0.00         1.41,45           0.00         1.41,45           0.00         1.41,45           0.00         1.41,45           0.00         1.41,45           0.00         1.41,45           0.00         1.41,45           1.41,45         1.41,45           1.41,45         1.41,47           1.43,43,719,25 <td>74</td> <td>2,699.20</td> <td>00.0</td> <td></td> <td></td> <td></td> <td>535,344.00</td>	74	2,699.20	00.0				535,344.00
1,947,102.87         3,624,68           0.00         15,00           0.00         15,00           0.00         0.00           4.38,719.26         0.00           4.38,719.26         0.00           0.00         0.00           0.00         0.00           0.00         0.00           0.00         0.00           0.00         0.00		8,200.00	0.00				8,200.00
0.00         15,00           0.00         0.00         333,17           0.00         0.00         333,17           0.00         0.00         50,90           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         1441,45           0.00         0.00         1441,45           0.00         0.00         1441,45           0.00         141,45         144,45           0.00         1441,45         144,45           0.00         1441,45         144,45           0.00         1441,45         144,45           0.00         144,45         144,45           0.00         144,45         144,45           0.00         144,45         144,45           1.14,17         144,45         144,45           1.14,14	4,49	6,092.03	1,947,102.87				3,624,858.70
0.00         333,17           0.00         0.00           0.00         50,90           0.00         141,45           0.00         141,45           0.00         141,45           0.00         0.00           0.00         141,45           0.00         0.00           0.00         141,45           0.00         0.00           0.00         141,45           0.00         0.00           0.00         141,45           0.00         100           0.00         141,45           0.00         1441,45           0.00         1441,45           0.00         1441,45           0.00         1441,45           0.00         1441,45           144,45         144,45           144,45         144,45           144,45         144,45           144,45         144,45           144,45         144,45           144,45         144,45           144,45         144,45           144,45         144,45           144,45         144,45           144,45         144,45           <		16,278.44	0.00				15,000.00
0.00         0.00         50,90           0.00         0.00         17,00           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         1.00         1.01,44           0.00         1.00         1.01,44           0.00         1.00         1.01,44           0.00         1.00         1.01,44           0.00         1.00         1.01,44           0.00         1.00         1.01,44           0.00         1.00         1.01,44           1.01,44         1.01,44         1.01,44           1.01,44         1.01,44         1.01,44           1.01,145         1.01,44         1.01,44           1.01,44         1.01,44         1.01,44           1.01,44         1.01,44         1.01,44           1.01,44         1.01,44         1.01,44           1.01,44         1.01,44         1.01,44           1.01,44         1.01,44         1.01	တိ	54,198.80	0.00				333,177.00
0.00         0.00         17,00           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         0.00           0.00         0.00         141,45           0.00         0.00         0.00           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         1.00         141,45           0.00         1.00         141,45           0.00         1.00         1.147,47           1.147,47         1.147,47         1.147,47           1.147,47         1.147,47         1.147,47           1.147,47         1.147,47         1.147,47           1.147,47         1.147,47         1.147,47           1.147,47         1.147,47         1.147,47           1.147,47         1.147,47         1.147,47 </td <td>7</td> <td>03,190.00</td> <td>00.0</td> <td></td> <td></td> <td></td> <td>50,900.00</td>	7	03,190.00	00.0				50,900.00
0.00         0.00         17,00           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         0.00         141,45           0.00         100         147,17           0.00         141,17         147,45           0.00         141,17         147,47           0.00         141,17         141,17           0.00         141,17         141,17           0.00         141,17         141,17           0.00         141,17         141,17           0.00         141,17         141,17           0.00         141,17         141,17           0.00         141,17         141,17           0.00         141,17         141,17           0.00         141,17         141,17           0.	õ	05,678.80	0.00				00.0
0.00         0.00         141,45           0.00         0.00         0.00         141,45           0.00         0.00         0.00         66,96           0.00         0.00         6,498,83         66,96           0.00         0.00         141,45         141,45           0.00         0.00         6,498,83         6,498,83           0.00         0.00         147,17         6,498,83           0.00         0.00         147,17         6,498,83           0.00         0.00         147,17         147,17           0.00         0.00         1417,17         147,17           0.00         0.00         1417,17         147,17           0.00         1.00         1.00         1.00           0.00         1.00         1.00         1.00           0.00         1.00         1.00         1.00           0.00         1.00         1.00         1.00           1.00         1.00         1.00         1.00           1.00         1.00         1.00         1.00		17,000.00	0.00				17.000.00
0.00         0.00         141,45           0.00         0.00         0.00         141,45           0.00         0.00         141,45         166,96           0.00         0.00         141,45         166,96           0.00         0.00         141,45         141,45           0.00         0.00         141,45         166,96           0.00         0.00         141,17         147,17           0.00         0.00         147,17         147,17           0.00         0.00         147,17         147,17           1.43,719.25         1.43,719.26         1.447,47         1.447,47		90,000.00	0.00				0.00
0.00       0.00       0.00       66,96         0.00       0.00       0.00       6,498,83         0.00       0.00       0.00       6,498,83         0.00       0.00       0.00       147,17         0.00       0.00       147,17       147,17         0.00       0.00       147,17       147,17         0.00       0.00       147,17       147,17         0.00       0.00       147,17       147,17         0.00       0.00       147,17       147,17         0.00       0.00       147,17       147,17         0.00       1.00       1.00       1.147,17         0.00       1.00       1.11       1.147,17         0.00       1.11       1.147,17       1.147,17         0.00       1.11       1.147,17       1.147,17         1.11       1.11       1.147,17       1.147,17         1.11       1.11       1.147,17       1.147,17         1.11       1.11       1.147,17       1.147,17         1.11       1.11       1.147,17       1.147,17         1.11       1.11       1.147,17       1.147,17         1.11       1.11		41,456.87	00.0				141,456.87
0.00       0.00       0.00       0.00       6,498,83         0.00       0.00       0.00       6,498,83       83         0.00       0.00       0.00       14/1/1       14/1/1         0.00       0.00       14/1/1       14/1/1       14/1/1         1.438,719.25       0.00       0.00       14/1/1       14/1/1         0.00       0.00       0.00       0.00       0.00       0.14/1/1         1.47,17       19.25       1.47/1/1       14/1/1       14/1/1         1.438,719.25       0.00       0.00       0.00       0.00       0.00	$\sum$	10,000.00	0.00				00.0
0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.14,806,83         0.00       0.00       0.00       0.00       0.00       0.14,808,83       0.14,806,83         0.00       0.00       0.00       0.00       0.14,108,83       0.14,11       0.14,11         0.00       0.00       0.00       0.00       0.14,11       0.14,11       147,11         1.14,11       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00         1.14,11       1.17,11       1.17,11       0.00       0.14,11       147,11       147,17         1.14,12       1.19,25       1.19,26       1.19,26       1.14,17       1.17,17       1.17,17         1.14,19,25       1.19,26       1.19,26       1.11,27       1.14,17       1.17,17       1.14,17	۲Ì	209,817.35	0.00				66,967.00
2.047,102,87       0.00       4,806,70         0.00       6,498,83       6,498,83         0.00       0.00       6,498,83         0.00       0.00       147,17         0.00       0.00       147,17         0.00       0.00       900,00         438,719.25       0.00       900,00         438,719.25       0.00       900,00	' -	705,000.00	0.00				0.00
0.00       6,498,83         0.00       147,17         143,719.25       19,26         143,719.25       19,26         143,719.25       19,26         144,17       19,26         144,17       19,26         144,17       19,26         144,17       19,26         144,17       19,26         144,17       19,26         144,17       19,26         144,17       19,26         144,17       19,26     <	ò	88,411,49	2 047,102,87	000	000		4,306.70
0.00       0.00       6.498       3         0.00       0.00       147,17         0.00       0.00       147,17         0.00       0.00       147,17         0.00       0.00       147,17         0.00       0.00       900,00         438,719.25       900,00       900,00	8	56,568.45	0.00				6.498.834.45
0.00       147,17         0.00       0.00         0.00       0.00         0.00       0.00         438,719.25       0.00         438,719.25       0.00	8	56,568.45	000	10000 100 100 100 100 100 100 100 100 1			
0.00 0.00 0.00 438,719.25 438,719.25 0.00 900,00 900,00 900,00	2	67,177.00	0.00				147,177.00
0.00 0.00 438,719.25 438,719.25 900,00 900,00	Ψ	00,000.00	0.00				00.0
0.00 438,719.25 438,719.25 0.00		45,000.00	00.0				00.0
438,719.25 900,00 900,00 438,719.25 0.00 900,00		42,700.00	0.00				0.00
468/719:25	တ	00,000.00	438,719.25				900,000.00
	αX.	4,877,00	438,719,25	000	0000		

Federal Share to I mai	176.551.45	176,551,45	1.584.082.36			44 580 50		3 000 000 000	4 629 662 86				17 157 929 33	101 101 101 101 101 101 101 101 101 101	17,157,928,33
ns Current Balance	ne. Na kana na kana kana kana kana kana kan	0.00													0.00
Federally Funded Programs		000										000	00.0		0.00
Frederally Funded Progra		000										000	0.00		000
State/Loca	550,504.27	1 550 504 27	0.00	00.0	00.0	0.00	00.0	1,635,567.62	1.635,567,62	00.0	72,500.00	72,500.00	4,744,394.01		4,744,394,01
Approved Program Costs	2,202,017.09	53	1,699,521.48	160,000.00	419,220.30	232,122.26	1,031,406.42	3,000,000.00	6 542 270.46	200,000.00	00'000'06	000000000000000000000000000000000000000	27,634,144.49		27,634,144,49
Program Area	M3DA	405c Total	M5HVE	M5IDC	M5CS	M5TR	M5OT	M5X	405d Total	M9MA	X9M	405fT0tal	Total NHTSA	Total FHWA	Total NHTSA & FHWA

. . .

the second second

State Official Authorized Signature:

ł Ń Aller

Patrick K. McKenna Director, Department of NAME: TITLE:

Transportation and Governor's

Representative for Highway Safety *C* - ス 3 - /C

DATE:

HS Form 217

Federal Official Authorized Signature:

NHTSA - NAME: TITLE: DATE:

Effective Date:

2017 HSP 1							
Program Area Project	Description	Prior Approved Program Funds	State Funds	Previous Bal.	Incre/(Decre)	<b>Current Balance</b>	Share to Local
NHTSA NHTSA 402							
Planning and Administration PA-2017-07-01-00	THSD-Planning & Administration	ου υς	\$100 000 O	ου υς	\$100 000 O	\$100 000 OD	ςη ηη
Planning and Administration Total		\$0.00	\$100,000.00	\$0.00	\$100,000.00	\$100,000.00	\$0.00
Emergency Medical Services							
EM-2017-02-01-00	UofMO Curators-Safety Training for Em Re	\$0.00	\$0.00	\$0.00	\$45,000.00	\$45,000.00	\$0.00
Emergency Medical Services Total	es Total	\$0.00	\$0.00	\$0.00	\$45,000.00	\$45,000.00	\$0.00
Motorcycle Safety							
MC-2017-12-01-00	KC Bd of Pol Comm-Police Motorcycle Inst	\$0.00	\$0.00	\$0.00	\$13,800.00	\$13,800.00	\$13,800.00
Motorcycle Safety Total	ety Total	\$0.00	\$0.00	\$0.00	\$13,800.00	\$13,800.00	\$13,800.00
Occupant Protection							
OP-2017-05-01-00	MO Safety Center-Statewide Seat Belt Sur	\$0.00	\$0.00	\$0.00	\$157,752.76	\$157,752.76	\$0.00
OP-2017-05-02-00	MO Safety Center-Enforcement CIOT	\$0.00	\$0.00	\$0.00	\$232,103.72	\$232,103.72	\$200,000.00
OP-2017-05-03-00	Jeferson Co Sheriff-Occupant Protection	\$0.00	\$0.00	\$0.00	\$45,000.00	\$45,000.00	\$45,000.00
OP-2017-05-04-00	Kirkwood Police-Buckle Up,Save A Life,Yo	\$0.00	\$0.00	\$0.00	\$13,438.08	\$13,438.08	\$13,438.08
OP-2017-05-00	Lake St Louis Police-Occupant Protection	\$0.00	\$0.00	\$0.00	\$4,500.00	\$4,500.00	\$4,500.00
OP-2017-05-06-00	Maryland Heights Pol-Safety&Drivers Lice	\$0.00	\$0.00	\$0.00	\$2,207.36	\$2,207.36	\$2,207.36
OP-2017-05-07-00	Moline Acres Police-Safety Enforcement	\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00	\$5,000.00
OP-2017-05-08-00	Olivette Police-Occupant Protection Init	\$0.00	\$0.00	\$0.00	\$2,450.00	\$2,450.00	\$2,450.00
OP-2017-05-09-00	Pevely Police-Occupant Protection Enforc	\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00	\$5,000.00
OP-2017-05-10-00	St Charles City Police-Occupant Protecti	\$0.00	\$0.00	\$0.00	\$5,750.00	\$5,750.00	\$5,750.00
OP-2017-05-11-00	St Louis Co Police-Occupant Protection E	\$0.00	\$0.00	\$0.00	\$30,000.00	\$30,000.00	\$30,000.00
OP-2017-05-12-00	MO Safety Center-Enforcement-Youth Seat	\$0.00	\$0.00	\$0.00	\$77,498.72	\$77,498.72	\$60,000.00
OP-2017-05-13-00	Webster Groves Police-Occupant Protectio	\$0.00	\$0.00	\$0.00	\$6,000.00	\$6,000.00	\$6,000.00
OP-2017-05-14-00	Wentzville Police-Click It or Ticket	\$0.00	\$0.00	\$0.00	\$8,000.00	\$8,000.00	\$8,000.00
OP-2017-05-15-00	Independence Police-Occupant Protectior	\$0.00	\$0.00	\$0.00	\$52,000.00	\$52,000.00	\$52,000.00
OP-2017-05-16-00	KC Bd of Police Comm-Occupant Protection	\$0.00	\$0.00	\$0.00	\$71,000.00	\$71,000.00	\$71,000.00
OP-2017-05-17-00	Eureka Police-Occupant Protection	\$0.00	\$0.00	\$0.00	\$6,000.00	\$6,000.00	\$6,000.00
OP-2017-05-18-00	Florissant Police-Occupant Protection	\$0.00	\$0.00	\$0.00	\$7,000.00	\$7,000.00	\$7,000.00
OP-2017-05-19-00	Adair Co Sheriff-CIOT: Zero Deaths	\$0.00	\$0.00	\$0.00	\$11,998.56	\$11,998.56	\$11,998.56
Occupant Protection Total	on Total	\$0.00	\$0.00	\$0.00	\$742,699.20	\$742,699.20	\$535,344.00
Pedestrian/Bicycle Safety							
PS-2017-02-01-00	Trailnet-Share Our Streets Safely	\$0.00	\$0.00	\$0.00	\$8,200.00	\$8,200.00	\$8,200.00
Pedestrian/Bicycle Safety Total	ety Total	\$0.00	\$0.00	\$0.00	\$8,200.00	\$8,200.00	\$8,200.00
Police Lramic Services							
PT-2017-02-00-00 PT-2017-02-01-00	THSD-Statewide PTS THSD-PTS Program Coordination	\$0.00 \$0.00	\$1,947,102.87 \$0.00	\$0.00 \$0.00	\$1,300,000.00 \$260,000.00	\$1,300,000.00 \$260,000.00	\$1,300,000.00 \$0.00
	,				•	•	

2017 HSP	1							
Program Area	Project	Description	Prior Approved Program Funds	State Funds	Previous Bal.	Incre/(Decre)	<b>Current Balance</b>	Share to Local
	PT-2017-02-02-00	THSD-402 Training Survey Assessments	\$0.00	\$0.00	\$0.00	\$125,000.00	\$125,000.00	\$0.00
	PT-2017-02-04-00	Arnold Police-Aggressive Drivers	\$0.00	\$0.00	\$0.00	\$13,700.00	\$13,700.00	\$13,700.00
	PT-2017-02-05-00	THSD-2017 LETSAC	\$0.00	\$0.00	\$0.00	\$24,500.00	\$24,500.00	\$0.00
	РТ-2017-02-06-00	MO Sheriffs Assoc-Law Enforcement Liaiso	\$0.00	\$0.00	\$0.00	\$68,400.00	\$68,400.00	\$68,400.00
	PT-2017-02-07-00	MO Police Chiefs Assoc-LETSAC Conf 2017	\$0.00	\$0.00	\$0.00	\$25,500.00	\$25,500.00	\$25,500.00
	PT-2017-02-08-00	Ballwin Police-Hazardous Moving	\$0.00	\$0.00	\$0.00	\$7,000.00	\$7,000.00	\$7,000.00
	РТ-2017-02-09-00	Byrnes Mill Police-Move Over & Slow Down	\$0.00	\$0.00	\$0.00	\$7,000.00	\$7,000.00	\$7,000.00
	PT-2017-02-10-00	Calverton Park Police-HMV Enf, 2 School	\$0.00	\$0.00	\$0.00	\$2,000.00	\$2,000.00	\$2,000.00
	РТ-2017-02-12-00	THSD-Older Driver Program	\$0.00	\$0.00	\$0.00	\$2,500.00	\$2,500.00	\$0.00
	РТ-2017-02-13-00	Chesterfield Police-HMV Enforcement	\$0.00	\$0.00	\$0.00	\$9,000.00	\$9,000.00	\$9,000.00
	РТ-2017-02-14-00	Clayton Police-HMV Enforcement	\$0.00	\$0.00	\$0.00	\$5,989.20	\$5,989.20	\$5,989.20
	РТ-2017-02-15-00	Creve Coeur Police-Speed HMV	\$0.00	\$0.00	\$0.00	\$10,000.00	\$10,000.00	\$10,000.00
	РТ-2017-02-16-00	Crystal City Police-HMV	\$0.00	\$0.00	\$0.00	\$15,000.00	\$15,000.00	\$15,000.00
	РТ-2017-02-17-00	DeSoto Pub Safety-HMV	\$0.00	\$0.00	\$0.00	\$2,000.00	\$2,000.00	\$2,000.00
	РТ-2017-02-18-00	Eureka Police-HMV	\$0.00	\$0.00	\$0.00	\$13,000.00	\$13,000.00	\$13,000.00
	РТ-2017-02-20-00	Festus Police-Hazardous Moving Overtime	\$0.00	\$0.00	\$0.00	\$18,250.00	\$18,250.00	\$18,250.00
	РТ-2017-02-22-00	Florissant Police-HMV	\$0.00	\$0.00	\$0.00	\$18,000.00	\$18,000.00	\$18,000.00
	РТ-2017-02-23-00	Glendale Police-HMV	\$0.00	\$0.00	\$0.00	\$4,750.00	\$4,750.00	\$4,750.00
	РТ-2017-02-24-00	Hazelwood Police-Hazardous Moving Enforc	\$0.00	\$0.00	\$0.00	\$19,250.00	\$19,250.00	\$19,250.00
	РТ-2017-02-25-00	Herculaneum Police-HMV	\$0.00	\$0.00	\$0.00	\$4,409.00	\$4,409.00	\$4,409.00
	РТ-2017-02-26-00	Jefferson Co Sheriff-HMV	\$0.00	\$0.00	\$0.00	\$216,500.00	\$216,500.00	\$216,500.00
	РТ-2017-02-27-00	Kirkwood Police-HMV, Distracted Driving	\$0.00	\$0.00	\$0.00	\$11,198.00	\$11,198.00	\$11,198.00
	РТ-2017-02-28-00	Lake St Louis Police-HMV	\$0.00	\$0.00	\$0.00	\$6,000.00	\$6,000.00	\$6,000.00
	РТ-2017-02-29-00	Lincoln Co Sheriff-HMV	\$0.00	\$0.00	\$0.00	\$10,500.00	\$10,500.00	\$10,500.00
	РТ-2017-02-30-00	Macon Co Sheriff-Operation Drive Safe	\$0.00	\$0.00	\$0.00	\$4,000.00	\$4,000.00	\$4,000.00
	РТ-2017-02-31-00	Macon Police-Macon Our Roads Safe-HMV 16	\$0.00	\$0.00	\$0.00	\$2,500.00	\$2,500.00	\$2,500.00
	РТ-2017-02-32-00	Manchester Police-Haz Moving /Occupant P	\$0.00	\$0.00	\$0.00	\$5,005.00	\$5,005.00	\$5,005.00
	РТ-2017-02-33-00	Maryland Heights Police-Interstate Speed	\$0.00	\$0.00	\$0.00	\$13,025.00	\$13,025.00	\$13,025.00
	РТ-2017-02-34-00	Monroe Co Sheriff-HMV Enforcement	\$0.00	\$0.00	\$0.00	\$2,000.00	\$2,000.00	\$2,000.00
	РТ-2017-02-35-00	O'Fallon Police-Speeding /Red Light Enf,	\$0.00	\$0.00	\$0.00	\$21,000.00	\$21,000.00	\$21,000.00
	РТ-2017-02-36-00	Olivette Police-HMV Enforcement	\$0.00	\$0.00	\$0.00	\$4,900.00	\$4,900.00	\$4,900.00
	РТ-2017-02-37-00	Overland Police-Hazardous & Speeding	\$0.00	\$0.00	\$0.00	\$8,175.00	\$8,175.00	\$8,175.00
	РТ-2017-02-38-00	Pevely Police-HMV Enforcement	\$0.00	\$0.00	\$0.00	\$8,750.00	\$8,750.00	\$8,750.00
	РТ-2017-02-39-00	Richmond Heights Police-HMV Enforcement	\$0.00	\$0.00	\$0.00	\$8,500.00	\$8,500.00	\$8,500.00
	PT-2017-02-40-00	Shrewsbury Police-HMV & Speeders	\$0.00	\$0.00	\$0.00	\$7,500.00	\$7,500.00	\$7,500.00
	РТ-2017-02-41-00	St Ann Police-Speed Enforcement	\$0.00	\$0.00	\$0.00	\$8,000.00	\$8,000.00	\$8,000.00
	РТ-2017-02-42-00	St Charles City Police-HMV	\$0.00	\$0.00	\$0.00	\$16,000.00	\$16,000.00	\$16,000.00
	PT-2017-02-43-00	St Charles Co Police-HMV	\$0.00	\$0.00	\$0.00	\$17,000.00	\$17,000.00	\$17,000.00

Program Area	Project	Description	Prior Approved Program Funds	State Funds	Previous Bal.	Incre/(Decre)	<b>Current Balance</b>	Share to Local
PT-2017-02-44-00	)2-44-00	St Clair Police-Speed Enforcement	\$0.00	\$0.00	\$0.00	\$5,500.00	\$5,500.00	\$5,500.00
PT-2017-02-45-00	)2-45-00	St John Police-HMV	\$0.00	\$0.00	\$0.00	\$9,000.00	\$9,000.00	\$9,000.00
PT-2017-02-46-00	12-46-00	St Louis Co Police-Highway Safety Unit	\$0.00	\$0.00	\$0.00	\$299,873.50	\$299,873.50	\$299,873.50
PT-2017-02-47-00	12-47-00	St Louis Metro Police-Haz Violations/Spe	\$0.00	\$0.00	\$0.00	\$144,500.00	\$144,500.00	\$144,500.00
PT-2017-02-48-00	12-48-00	St Peter Police-Hazardous Moving	\$0.00	\$0.00	\$0.00	\$27,073.44	\$27,073.44	\$27,073.44
PT-2017-02-49-00	12-49-00	Town & Country Police-HMV Initiative	\$0.00	\$0.00	\$0.00	\$9,000.00	\$9,000.00	\$9,000.00
PT-2017-02-50-00	12-50-00	Troy Police-HMV	\$0.00	\$0.00	\$0.00	\$7,000.00	\$7,000.00	\$7,000.00
PT-2017-02-51-00	12-51-00	Union Police-HMV Enforcement	\$0.00	\$0.00	\$0.00	\$11,525.00	\$11,525.00	\$11,525.00
PT-2017-02-52-00	12-52-00	Webster Groves Police-HMV 2017	\$0.00	\$0.00	\$0.00	\$5,750.00	\$5,750.00	\$5,750.00
PT-2017-02-53-00	12-53-00	Wentzville Police-HMV	\$0.00	\$0.00	\$0.00	\$9,086.00	\$9,086.00	\$9,086.00
PT-2017-02-54-00	)2-54-00	Belton Police-Hazardous Moving	\$0.00	\$0.00	\$0.00	\$8,864.00	\$8,864.00	\$8,864.00
PT-2017-02-55-00	12-55-00	Blue Springs Police-Hazardous Moving	\$0.00	\$0.00	\$0.00	\$12,585.00	\$12,585.00	\$12,585.00
РТ-2017-02-56-00	12-56-00	Buchanan Co Sheriff-HMV	\$0.00	\$0.00	\$0.00	\$15,100.00	\$15,100.00	\$15,100.00
PT-2017-02-57-00	12-57-00	Cameron Police-Operation Safe Travels	\$0.00	\$0.00	\$0.00	\$8,500.00	\$8,500.00	\$8,500.00
РТ-2017-02-58-00	12-58-00	Cass Co Sheriff-HMV	\$0.00	\$0.00	\$0.00	\$4,600.00	\$4,600.00	\$4,600.00
PT-2017-02-59-00	12-59-00	Chillicothe Police-HMV Enforcement	\$0.00	\$0.00	\$0.00	\$7,030.00	\$7,030.00	\$7,030.00
PT-2017-02-60-00	00-00	Clay Co Sheriff-HMV Enforcement	\$0.00	\$0.00	\$0.00	\$11,080.00	\$11,080.00	\$11,080.00
PT-2017-02-61-00	12-61-00	Excelsior Springs Police-HMV Enforcement	\$0.00	\$0.00	\$0.00	\$5,400.00	\$5,400.00	\$5,400.00
PT-2017-02-62-00	12-62-00	Gladstone Pub Safety-HMV	\$0.00	\$0.00	\$0.00	\$7,500.00	\$7,500.00	\$7,500.00
РТ-2017-02-63-00	12-63-00	Grain Valley Police-HMV Enforcement	\$0.00	\$0.00	\$0.00	\$1,680.00	\$1,680.00	\$1,680.00
PT-2017-02-64-00	12-64-00	Grandview Police-HMV	\$0.00	\$0.00	\$0.00	\$15,000.00	\$15,000.00	\$15,000.00
PT-2017-02-65-00	12-65-00	Harrisonville Police-Speeding	\$0.00	\$0.00	\$0.00	\$2,800.00	\$2,800.00	\$2,800.00
PT-2017-02-66-00	)2-66-00	Henry Co Sheriff-HMV Enforcement	\$0.00	\$0.00	\$0.00	\$9,135.00	\$9,135.00	\$9,135.00
PT-2017-02-67-00	12-67-00	Independence Police-HMV	\$0.00	\$0.00	\$0.00	\$181,800.00	\$181,800.00	\$181,800.00
РТ-2017-02-68-00	12-68-00	Jackson Co Sheriff-HMV & LETSAC Training	\$0.00	\$0.00	\$0.00	\$14,000.00	\$14,000.00	\$14,000.00
PT-2017-02-69-00	12-69-00	KC Bd of Police Comm-HMV	\$0.00	\$0.00	\$0.00	\$240,000.00	\$240,000.00	\$240,000.00
PT-2017-02-70-00	12-70-00	Kearney Police-Remove Aggressive Drivers	\$0.00	\$0.00	\$0.00	\$3,000.00	\$3,000.00	\$3,000.00
PT-2017-02-71-00	12-71-00	Lee's Summit Police-HMV	\$0.00	\$0.00	\$0.00	\$30,000.00	\$30,000.00	\$30,000.00
РТ-2017-02-72-00	12-72-00	Llberty Police-HMV	\$0.00	\$0.00	\$0.00	\$10,500.00	\$10,500.00	\$10,500.00
PT-2017-02-73-00	12-73-00	Marshall Police-HMV Enforcement	\$0.00	\$0.00	\$0.00	\$3,250.00	\$3,250.00	\$3,250.00
PT-2017-02-74-00	12-74-00	Pettis Co Sheriff-Aggressive Driving	\$0.00	\$0.00	\$0.00	\$4,823.80	\$4,823.80	\$4,823.80
PT-2017-02-75-00	12-75-00	Platte Co Sheriff-Traffic Safety Officer	\$0.00	\$0.00	\$0.00	\$28,500.00	\$28,500.00	\$28,500.00
PT-2017-02-76-00	12-76-00	Platte Co Sheriff-HMV	\$0.00	\$0.00	\$0.00	\$20,750.00	\$20,750.00	\$20,750.00
РТ-2017-02-77-00	12-77-00	Pleasant Hill Police-HMV	\$0.00	\$0.00	\$0.00	\$3,500.00	\$3,500.00	\$3,500.00
PT-2017-02-78-00	12-78-00	Raymore Police-HNV Enforcement	\$0.00	\$0.00	\$0.00	\$5,500.00	\$5,500.00	\$5,500.00
PT-2017-02-79-00	12-79-00	Raytown Police-Hazardous Moving 2017	\$0.00	\$0.00	\$0.00	\$4,000.00	\$4,000.00	\$4,000.00
PT-2017-02-80-00	12-80-00	Richmond Police-HMV Enforcement	\$0.00	\$0.00	\$0.00	\$3,120.00	\$3,120.00	\$3,120.00
РТ-2017-02-81-00	)2-81-00	Riverside Pub Safety- HMV Enforcement	\$0.00	\$0.00	\$0.00	\$3,000.00	\$3,000.00	\$3,000.00

2017 HSP	1							
Program Area	Project	Description	Prior Approved Program Funds	State Funds	Previous Bal.	Incre/(Decre)	<b>Current Balance</b>	Share to Local
	PT-2017-02-82-00	Sedalia Police-Hazardous Moving 2017	\$0.00	\$0.00	\$0.00	\$3,250.00	\$3,250.00	\$3,250.00
	PT-2017-02-83-00	Smithville Police-HMV Enforcement	\$0.00	\$0.00	\$0.00	\$4,492.00	\$4,492.00	\$4,492.00
	РТ-2017-02-84-00	St Joseph Police-HMV Enforcement	\$0.00	\$0.00	\$0.00	\$6,480.00	\$6,480.00	\$6,480.00
	PT-2017-02-85-00	MO Southern St Univ-Law Enf Training	\$0.00	\$0.00	\$0.00	\$30,000.00	\$30,000.00	\$0.00
	РТ-2017-02-86-00	MSHP-Skill Development	\$0.00	\$0.00	\$0.00	\$20,000.00	\$20,000.00	\$0.00
	РТ-2017-02-87-00	MSHP-Radar/EVOC/Instr Dev/Equip Material	\$0.00	\$0.00	\$0.00	\$96,560.00	\$96,560.00	\$0.00
	РТ-2017-02-88-00	Scott City Police-HMV Enforcement 2017	\$0.00	\$0.00	\$0.00	\$3,200.00	\$3,200.00	\$3,200.00
	РТ-2017-02-89-00	Scott Co Sheriff-HMV Enforcement	\$0.00	\$0.00	\$0.00	\$3,718.00	\$3,718.00	\$3,718.00
	РТ-2017-02-90-00	Wayne Co Sheriff-HMV Enforcement	\$0.00	\$0.00	\$0.00	\$10,185.00	\$10,185.00	\$10,185.00
	РТ-2017-02-91-00	West Plains Police-HMV 2017	\$0.00	\$0.00	\$0.00	\$3,500.00	\$3,500.00	\$3,500.00
	РТ-2017-02-92-00	Willow Springs Police-HMV	\$0.00	\$0.00	\$0.00	\$1,500.00	\$1,500.00	\$1,500.00
	РТ-2017-02-93-00	Howell Co Sheriff-HMV	\$0.00	\$0.00	\$0.00	\$6,000.00	\$6,000.00	\$6,000.00
	РТ-2017-02-94-00	Jackson Police-HMV Project	\$0.00	\$0.00	\$0.00	\$3,750.00	\$3,750.00	\$3,750.00
	РТ-2017-02-95-00	Kennett Police-HMV Enforcement	\$0.00	\$0.00	\$0.00	\$3,500.00	\$3,500.00	\$3,500.00
	РТ-2017-02-96-00	Butler Co Sheriff-HMV 2016-17	\$0.00	\$0.00	\$0.00	\$7,192.73	\$7,192.73	\$7,192.73
	РТ-2017-02-97-00	Cape Girardeau Police-HMV Enforcement	\$0.00	\$0.00	\$0.00	\$6,500.00	\$6,500.00	\$6,500.00
	РТ-2017-02-98-00	Essex Police-Safer Roads for Essex	\$0.00	\$0.00	\$0.00	\$3,675.04	\$3,675.04	\$3,675.04
	РТ-2017-02-99-00	Farmington Police-HMV	\$0.00	\$0.00	\$0.00	\$4,500.00	\$4,500.00	\$4,500.00
	PT-2017-02-A0-00	Madison Co Sheriff-Operation Safe Travel	\$0.00	\$0.00	\$0.00	\$3,750.00	\$3,750.00	\$3,750.00
	PT-2017-02-A2-00	Mountain View Police-HMV Violations	\$0.00	\$0.00	\$0.00	\$2,250.00	\$2,250.00	\$2,250.00
	PT-2017-02-A3-00	MSHP-Hazardous Moving Operations	\$0.00	\$0.00	\$0.00	\$250,000.00	\$250,000.00	\$0.00
	РТ-2017-02-А5-00	MO Safety Center-Driver Improvement Prog	\$0.00	\$0.00	\$0.00	\$47,673.33	\$47,673.33	\$0.00
	РТ-2017-02-А6-00	Livingston Co Sheriff-HMV Project	\$0.00	\$0.00	\$0.00	\$2,500.00	\$2,500.00	\$2,500.00
	РТ-2017-02-А9-00	Hollister Police-HMV Enforcement	\$0.00	\$0.00	\$0.00	\$2,750.00	\$2,750.00	\$2,750.00
	РТ-2017-02-В0-00	Greene Co Sheriff-HMV	\$0.00	\$0.00	\$0.00	\$65,000.00	\$65,000.00	\$65,000.00
	РТ-2017-02-В1-00	Potosi Police-HMV	\$0.00	\$0.00	\$0.00	\$7,142.21	\$7,142.21	\$7,142.21
	PT-2017-02-B2-00	Osage Beach Police-Hazardous Moving Enfo	\$0.00	\$0.00	\$0.00	\$4,500.00	\$4,500.00	\$4,500.00
	РТ-2017-02-ВЗ-00	Republic Police-Safety Is Our 1st Priori	\$0.00	\$0.00	\$0.00	\$3,500.00	\$3,500.00	\$3,500.00
	PT-2017-02-B4-00	Phelps Co Sheriff-Hazardous Moving Enf 2	\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00	\$5,000.00
	PT-2017-02-B5-00	Rolla Police-HMV & Occupant Protection	\$0.00	\$0.00	\$0.00	\$6,000.00	\$6,000.00	\$6,000.00
	PT-2017-02-B6-00	Rogersville Police-HMV 2016-17	\$0.00	\$0.00	\$0.00	\$2,000.00	\$2,000.00	\$2,000.00
	PT-2017-02-B7-00	St Clair Co Sheriff-Traffic Enforcement	\$0.00	\$0.00	\$0.00	\$3,000.00	\$3,000.00	\$3,000.00
	PT-2017-02-B8-00	Springfield Police-HMV	\$0.00	\$0.00	\$0.00	\$76,404.20	\$76,404.20	\$76,404.20
	РТ-2017-02-В9-00	THSD-Statewide HMV	\$0.00	\$0.00	\$0.00	\$30,000.00	\$30,000.00	\$15,000.00
	PT-2017-02-C0-00	Stone Co Sheriff-HMV	\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00	\$5,000.00
	РТ-2017-02-С1-00	Jasper Co Sheriff-HMV	\$0.00	\$0.00	\$0.00	\$10,000.00	\$10,000.00	\$10,000.00
	PT-2017-02-C2-00	Jefferson City Police-HMV Enforcement	\$0.00	\$0.00	\$0.00	\$20,750.00	\$20,750.00	\$20,750.00
	PT-2017-02-C3-00	Joplin Police-HMV Overtime	\$0.00	\$0.00	\$0.00	\$10,000.00	\$10,000.00	\$10,000.00

Program Area	Project	Description	Prior Approved Program Funds	State Funds	Previous Bal.	Incre/(Decre)	Current Balance	Share to Local
Community Traffic Safety Project	ic Safety Project		)					
	CP-2017-09-01-00	THSD-Tween Safety	\$0.00	\$0.00	\$0.00	\$30,000.00	\$30,000.00	\$0.00
	CP-2017-09-02-00	THSD-Teen Driving Programs	\$0.00	\$0.00	\$0.00	\$33,590.00	\$33,590.00	\$0.00
	CP-2017-09-03-00	Cape Girardeau Safe Comm-Team Spirit You	\$0.00	\$0.00	\$0.00	\$183,177.00	\$183,177.00	\$183,177.00
	CP-2017-09-04-00	Mercy Hospital-Occupant Protection-Injur	\$0.00	\$0.00	\$0.00	\$60,000.80	\$60,000.80	\$0.00
	CP-2017-09-05-00	Univ of MO Curators-ThinkFirst MO	\$0.00	\$0.00	\$0.00	\$497,431.00	\$497,431.00	\$0.00
	CP-2017-09-06-00	THSD-Youth & CPS Training	\$0.00	\$0.00	\$0.00	\$150,000.00	\$150,000.00	\$150,000.00
Communit	Community Traffic Safety Project Total	tal	\$0.00	\$0.00	\$0.00	\$954,198.80	\$954,198.80	\$333,177.00
Driver Education								
	DE-2017-02-01-00	MO Police Chiefs Assoc-Law Enf Driving T	\$0.00	\$0.00	\$0.00	\$41,300.00	\$41,300.00	\$41,300.00
	DE-2017-02-02-00	MO Sheriffs Assoc-Law Enf Driver Trainin	\$0.00	\$0.00	\$0.00	\$9,600.00	\$9,600.00	\$9,600.00
	DE-2017-02-03-00	Univ of MO Curators-MobileAge Comp Educa	\$0.00	\$0.00	\$0.00	\$52,290.00	\$52,290.00	\$0.00
	Driver Education Total		\$0.00	\$0.00	\$0.00	\$103,190.00	\$103,190.00	\$50,900.00
Driver Licensing								
	DL-2017-02-01-00	Wash Univ StL-R&D Standard Tr Sign Namin	\$0.00	\$0.00	\$0.00	\$126,047.40	\$126,047.40	\$0.00
	DL-2017-02-02-00	Wash Univ Stl-R&D ID & Ed of Older Drive	\$0.00	\$0.00	\$0.00	\$134,293.40	\$134,293.40	\$0.00
	DL-2017-02-03-00	Wash Univ StL-R&D Older Drvr Fitness Ass	\$0.00	\$0.00	\$0.00	\$45,338.00	\$45,338.00	\$0.00
	Driver Licensing Total	tal	\$0.00	\$0.00	\$0.00	\$305,678.80	\$305,678.80	\$0.00
Railroad/Highway Crossings	y Crossings							
	RH-2017-02-01-00	MO Operation Livesaver-MO Operation Life	\$0.00	\$0.00	\$0.00	\$17,000.00	\$17,000.00	\$17,000.00
Railrc	Railroad/Highway Crossings Total		\$0.00	\$0.00	\$0.00	\$17,000.00	\$17,000.00	\$17,000.00
Roadway Safety								
	RS-2017-11-01-00	THSD-TEAP	\$0.00	\$0.00	\$0.00	\$60,000.00	\$60,000.00	\$0.00
	RS-2017-11-02-00	U of MO Curators-Traffic Safety & Bluepr	\$0.00	\$0.00	\$0.00	\$30,000.00	\$30,000.00	\$0.00
	Roadway Safety Total	tal	\$0.00	\$0.00	\$0.00	\$90,000.00	\$90,000.00	\$0.00
Safe Communities	S							
	SA-2017-09-01-00	Cape Girardeau Safe Comm-Safe Communitie	\$0.00	\$0.00	\$0.00	\$76,053.87	\$76,053.87	\$76,053.87
	SA-2017-09-02-00	St Joseph Safety&Health-Traffic Safety T	\$0.00	\$0.00	\$0.00	\$65,403.00	\$65,403.00	\$65,403.00
	Safe Communities Total	tal	\$0.00	\$0.00	\$0.00	\$141,456.87	\$141,456.87	\$141,456.87
Speed Enforcement	ent							
	SE-2017-02-01-00	MSHP-Speed Enforcement	\$0.00	\$0.00	\$0.00	\$110,000.00	\$110,000.00	\$0.00
	Speed Enforcement Total	tal	\$0.00	\$0.00	\$0.00	\$110,000.00	\$110,000.00	\$0.00

	4							
Program Area	Project	Description	Prior Approved Program Funds	State Funds	Previous Bal.	Incre/(Decre)	<b>Current Balance</b>	Share to Local
Child Restraint			I					
	CR-2017-05-01-00	THSD-CPS Program Activities	\$0.00	\$0.00	\$0.00	\$28,000.00	\$28,000.00	\$0.00
	CR-2017-05-02-00	C MO Foster Care&Adopt-Car Seat & Safety	\$0.00	\$0.00	\$0.00	\$10,967.00	\$10,967.00	\$10,967.00
	CR-2017-05-03-00	MO Safety Center-Enforcement CPS Week	\$0.00	\$0.00	\$0.00	\$73,043.72	\$73,043.72	\$56,000.00
	CR-2017-05-04-00	MO Safety Center-Survey CPS	\$0.00	\$0.00	\$0.00	\$47,806.63	\$47,806.63	\$0.00
	CR-2017-05-05-00	THSD-Car Seat Distribution Program	\$0.00	\$0.00	\$0.00	\$50,000.00	\$50,000.00	\$0.00
	Child Restraint Total	otal	\$0.00	\$0.00	\$0.00	\$209,817.35	\$209,817.35	\$66,967.00
Paid Advertising	50							
	PM-2017-02-01-00	THSD-Youth Seat Belt Enforcement Campaig	\$0.00	\$0.00	\$0.00	\$300,000.00	\$300,000.00	\$0.00
	PM-2017-02-02-00	THSD-Work Zone Awareness	\$0.00	\$0.00	\$0.00	\$50,000.00	\$50,000.00	\$0.00
	PM-2017-02-03-00	THSD-PI Creative Services	\$0.00	\$0.00	\$0.00	\$50,000.00	\$50,000.00	\$0.00
	PM-2017-02-04-00	THSD-Bike, Ped & Distracted Drv PI&E	\$0.00	\$0.00	\$0.00	\$270,000.00	\$270,000.00	\$0.00
	PM-2017-02-05-00	THSD-Motorcycle Safety Initiatives	\$0.00	\$0.00	\$0.00	\$35,000.00	\$35,000.00	\$0.00
	Paid Advertising Tota	_	\$0.00	\$0.00	\$0.00	\$705,000.00	\$705,000.00	\$0.00
	NHTSA 402 Tota	otal	\$0.00	\$2,047,102.87	\$0.00	\$8,188,411.49	\$8,188,411.49	\$4,806,703.57
<b>154 Transfer Funds</b>	nds							
	154AL-2017-AL-00-00	THSD-Statewide 154AL Program	\$0.00	\$0.00	\$0.00	\$3,500,000.00	\$3,500,000.00	\$3,500,000.00
	154AL-2017-AL-01-00	Barry Co Sheriff-DWI Check Pt	\$0.00	\$0.00	\$0.00	\$2,310.00	\$2,310.00	\$2,310.00
	154AL-2017-AL-02-00	Billings Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$1,500.00	\$1,500.00	\$1,500.00
	154AL-2017-AL-03-00	Bolivar Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$9,385.00	\$9,385.00	\$9,385.00
	154AL-2017-AL-04-00	Boone Co Sheriff-Youth Alcohol Enf	\$0.00	\$0.00	\$0.00	\$2,750.00	\$2,750.00	\$2,750.00
	154AL-2017-AL-05-00	Boone Co Sheriff-FullTime DWI /Traffic U	\$0.00	\$0.00	\$0.00	\$68,575.00	\$68,575.00	\$68,575.00
	154AL-2017-AL-06-00	Branson Police-DWI Saturation Enf	\$0.00	\$0.00	\$0.00	\$3,500.00	\$3,500.00	\$3,500.00
	154AL-2017-AL-07-00	Branson Police-Youth Alcohol Enf	\$0.00	\$0.00	\$0.00	\$3,500.00	\$3,500.00	\$3,500.00
	154AL-2017-AL-08-00	THSD-Impaired Driving Paid Media Campaig	\$0.00	\$0.00	\$0.00	\$850,000.00	\$850,000.00	\$0.00
	154AL-2017-AL-09-00	THSD-Alliance Sports Marketing	\$0.00	\$0.00	\$0.00	\$80,000.00	\$80,000.00	\$0.00
	154AL-2017-AL-10-00	Camden Co Sheriff-DWI Enf	\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00	\$5,000.00
	154AL-2017-AL-11-00	MSHP-Wolfpack DWI Effort	\$0.00	\$0.00	\$0.00	\$64,600.00	\$64,600.00	\$0.00
	154AL-2017-AL-12-00	Carterville Police-SW MO DWI Task Force	\$0.00	\$0.00	\$0.00	\$5,500.00	\$5,500.00	\$5,500.00
	154AL-2017-AL-13-00	Carthage Police-DWI Sobriety Checkpoint	\$0.00	\$0.00	\$0.00	\$3,125.00	\$3,125.00	\$3,125.00
	154AL-2017-AL-14-00	Christian Co Sheriff-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00	\$5,000.00
	154AL-2017-AL-16-00	Arnold Police-Sobriety Checkpoint	\$0.00	\$0.00	\$0.00	\$8,400.00	\$8,400.00	\$8,400.00
	154AL-2017-AL-17-00	Arnold Police-Youth Alcohol Enforcement	\$0.00	\$0.00	\$0.00	\$6,200.00	\$6,200.00	\$6,200.00
	154AL-2017-AL-18-00	Arnold Police-DWI Saturation Patrol	\$0.00	\$0.00	\$0.00	\$13,000.00	\$13,000.00	\$13,000.00
	154AL-2017-AL-19-00	Ballwin Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$10,750.00	\$10,750.00	\$10,750.00
	154AL-2017-AL-20-00	Christian Co Sheriff-Youth Alcohol Enf	\$0.00	\$0.00	\$0.00	\$3,000.00	\$3,000.00	\$3,000.00
	154AL-2017-AL-21-00	Cole Co Sheriff-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$11,000.00	\$11,000.00	\$11,000.00
	154AL-2017-AL-22-00	Columbia Police-DWI Enforcement Activiti	\$0.00	\$0.00	\$0.00	\$25,000.00	\$25,000.00	\$25,000.00

Program Area	Project	Description	Prior Approved Program Funds	State Funds	Previous Bal.	Incre/(Decre)	<b>Current Balance</b>	Share to Local
	154AL-2017-AL-23-00	Crocker Police-Sobriety Ckpt & DWI Satur	\$0.00	\$0.00	\$0.00	\$5,520.00	\$5,520.00	\$5,520.00
	154AL-2017-AL-24-00	Franklin Co Sheriff-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$15,000.00	\$15,000.00	\$15,000.00
	154AL-2017-AL-25-00	Franklin Co Sheriff-Youth Alcohol	\$0.00	\$0.00	\$0.00	\$10,000.00	\$10,000.00	\$10,000.00
	154AL-2017-AL-26-00	Greene Co Sheriff-DWI	\$0.00	\$0.00	\$0.00	\$90,000.00	\$90,000.00	\$90,000.00
	154AL-2017-AL-27-00	Greene Co Sheriff-Youth Alcohol Enf	\$0.00	\$0.00	\$0.00	\$38,000.00	\$38,000.00	\$38,000.00
	154AL-2017-AL-28-00	MO Sheriffs Assoc-LE Liaison (Alcohol) 2	\$0.00	\$0.00	\$0.00	\$159,000.00	\$159,000.00	\$159,000.00
	154AL-2017-AL-29-00	Hollister Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$1,500.00	\$1,500.00	\$1,500.00
	154AL-2017-AL-30-00	Hollister Police-Youth Alcohol Enforceme	\$0.00	\$0.00	\$0.00	\$2,000.00	\$2,000.00	\$2,000.00
	154AL-2017-AL-31-00	THSD-Youth Alcohol Program	\$0.00	\$0.00	\$0.00	\$18,000.00	\$18,000.00	\$0.00
	154AL-2017-AL-32-00	Jasper Co Sheriff-DWI Enf & Checkpoint	\$0.00	\$0.00	\$0.00	\$20,000.00	\$20,000.00	\$20,000.00
	154AL-2017-AL-33-00	Jefferson City Police-DWI Enf / Saturati	\$0.00	\$0.00	\$0.00	\$24,000.00	\$24,000.00	\$24,000.00
	154AL-2017-AL-34-00	Joplin Police-DWI Enf & Youth Alcohol	\$0.00	\$0.00	\$0.00	\$10,000.00	\$10,000.00	\$10,000.00
	154AL-2017-AL-35-00	Joplin Police-Full Time DWI Unit	\$0.00	\$0.00	\$0.00	\$61,700.00	\$61,700.00	\$61,700.00
	154AL-2017-AL-36-00	Lake Winnebago Pol-DWI Enf /Youth Alcoho	\$0.00	\$0.00	\$0.00	\$2,500.00	\$2,500.00	\$2,500.00
	154AL-2017-AL-37-00	Lamar Police-You Booze You Loose	\$0.00	\$0.00	\$0.00	\$2,500.00	\$2,500.00	\$2,500.00
	154AL-2017-AL-38-00	Lawrence Co Sheriff-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$12,000.00	\$12,000.00	\$12,000.00
	154AL-2017-AL-39-00	Monett Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$1,234.80	\$1,234.80	\$1,234.80
	154AL-2017-AL-40-00	Neosho Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$3,780.00	\$3,780.00	\$3,780.00
	154AL-2017-AL-41-00	Ballwin Police-Youth Alcohol	\$0.00	\$0.00	\$0.00	\$2,750.00	\$2,750.00	\$2,750.00
	154AL-2017-AL-43-00	Byrnes Mill Police-Arrive Safe & Sober	\$0.00	\$0.00	\$0.00	\$4,000.00	\$4,000.00	\$4,000.00
	154AL-2017-AL-44-00	Chesterfield Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$6,500.00	\$6,500.00	\$6,500.00
	154AL-2017-AL-45-00	Chesterfield Police-Sobriety Checkpoint	\$0.00	\$0.00	\$0.00	\$10,000.00	\$10,000.00	\$10,000.00
	154AL-2017-AL-46-00	Clark Co Sheriff-DWI	\$0.00	\$0.00	\$0.00	\$8,995.35	\$8,995.35	\$8,995.35
	154AL-2017-AL-47-00	Clayton Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$2,994.60	\$2,994.60	\$2,994.60
	154AL-2017-AL-48-00	Cottleville Pol-Cottleville/StCharles DW	\$0.00	\$0.00	\$0.00	\$6,400.00	\$6,400.00	\$6,400.00
	154AL-2017-AL-49-00	Creve Coeur Police-You Drink, Drive, Los	\$0.00	\$0.00	\$0.00	\$6,500.00	\$6,500.00	\$6,500.00
	154AL-2017-AL-50-00	Creve Coeur Police-Sobriety Ckpoint /BAT	\$0.00	\$0.00	\$0.00	\$13,000.00	\$13,000.00	\$13,000.00
	154AL-2017-AL-51-00	Creve Coeur Police-DWI Officer	\$0.00	\$0.00	\$0.00	\$56,000.00	\$56,000.00	\$56,000.00
	154AL-2017-AL-52-00	Des Peres Pub Safety-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$2,000.00	\$2,000.00	\$2,000.00
	154AL-2017-AL-53-00	Ellisville Police-DWI Enforcement FY16-1	\$0.00	\$0.00	\$0.00	\$3,000.00	\$3,000.00	\$3,000.00
	154AL-2017-AL-54-00	Eureka Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$2,500.00	\$2,500.00	\$2,500.00
	154AL-2017-AL-55-00	Eureka Police-Sobriety Checkpoint	\$0.00	\$0.00	\$0.00	\$7,500.00	\$7,500.00	\$7,500.00
	154AL-2017-AL-56-00	Eureka Police-Youth Alcohol	\$0.00	\$0.00	\$0.00	\$2,000.00	\$2,000.00	\$2,000.00
	154AL-2017-AL-57-00	Festus Police-DWI Overtime Enforcement	\$0.00	\$0.00	\$0.00	\$12,000.00	\$12,000.00	\$12,000.00
	154AL-2017-AL-58-00	Festus Police-Youth Alcohol Overtime Enf	\$0.00	\$0.00	\$0.00	\$8,000.00	\$8,000.00	\$8,000.00
	154AL-2017-AL-59-00	Florissant Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$9,000.00	\$9,000.00	\$9,000.00
	154AL-2017-AL-60-00	Hazelwood Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$32,310.48	\$32,310.48	\$32,310.48
	154AL-2017-AL-61-00	Hazelwood Police-Youth Alcohol Enforceme	\$0.00	\$0.00	\$0.00	\$10,000.00	\$10,000.00	\$10,000.00

Program Area	Project	Description	Prior Approved Program Funds	State Funds	Previous Bal.	Incre/(Decre)	Current Balance	Share to Local
	154AL-2017-AL-62-00	Hazelwood Police-BAT Van Operations	\$0.00	\$0.00	\$0.00	\$5,750.00	\$5,750.00	\$5,750.00
	154AL-2017-AL-63-00	Nevada Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$4,000.00	\$4,000.00	\$4,000.00
	154AL-2017-AL-64-00	Newton Co Sheriff-Impaired Driver	\$0.00	\$0.00	\$0.00	\$7,500.00	\$7,500.00	\$7,500.00
	154AL-2017-AL-65-00	Nixa Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$9,500.00	\$9,500.00	\$9,500.00
	154AL-2017-AL-66-00	Jefferson Co Sheriff-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$215,000.00	\$215,000.00	\$215,000.00
	154AL-2017-AL-67-00	Jefferson Co Sheriff-DWI Enf Unit	\$0.00	\$0.00	\$0.00	\$129,905.27	\$129,905.27	\$129,905.27
	154AL-2017-AL-68-00	Jefferson Co Sheriff-Sobriety Checkpoint	\$0.00	\$0.00	\$0.00	\$80,000.00	\$80,000.00	\$80,000.00
	154AL-2017-AL-69-00	Jefferson Co Sheriff-Youth Alcohol	\$0.00	\$0.00	\$0.00	\$180,000.00	\$180,000.00	\$180,000.00
	154AL-2017-AL-70-00	Lake St Louis Police-DWI Saturation Patr	\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00	\$5,000.00
	154AL-2017-AL-71-00	Lake St Louis Police-DWI Checkpoint	\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00	\$5,000.00
	154AL-2017-AL-72-00	Macon Police-Macon Our Roads Safe-DWI Pr	\$0.00	\$0.00	\$0.00	\$2,500.00	\$2,500.00	\$2,500.00
	154AL-2017-AL-73-00	Manchester Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$5,005.00	\$5,005.00	\$5,005.00
	154AL-2017-AL-74-00	Maryland Heights Police-DWI Saturation P	\$0.00	\$0.00	\$0.00	\$6,230.00	\$6,230.00	\$6,230.00
	154AL-2017-AL-75-00	Maryland Heights Pol-Hollywd Amph Youth	\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00	\$5,000.00
	154AL-2017-AL-76-00	Moberly Police-DWI Enf /Checkpoint	\$0.00	\$0.00	\$0.00	\$3,750.00	\$3,750.00	\$3,750.00
	154AL-2017-AL-77-00	Osage Beach Police-Stop Drinking & Drivi	\$0.00	\$0.00	\$0.00	\$3,500.00	\$3,500.00	\$3,500.00
	154AL-2017-AL-78-00	Monroe Co Sheriff-DWI Saturation Enf	\$0.00	\$0.00	\$0.00	\$2,000.00	\$2,000.00	\$2,000.00
	154AL-2017-AL-79-00	O'Fallon Police-DWI Saturation Patrols	\$0.00	\$0.00	\$0.00	\$23,040.00	\$23,040.00	\$23,040.00
	154AL-2017-AL-80-00	O'Fallon Police-Sobriety Checkpoint	\$0.00	\$0.00	\$0.00	\$10,000.00	\$10,000.00	\$10,000.00
	154AL-2017-AL-81-00	O'Fallon Police-Youth Alcohol, Before Th	\$0.00	\$0.00	\$0.00	\$6,500.00	\$6,500.00	\$6,500.00
	154AL-2017-AL-82-00	Olivette Police-DWI Enforcement Initiati	\$0.00	\$0.00	\$0.00	\$10,575.00	\$10,575.00	\$10,575.00
	154AL-2017-AL-83-00	Overland Police-Youth Alcohol	\$0.00	\$0.00	\$0.00	\$1,680.00	\$1,680.00	\$1,680.00
	154AL-2017-AL-84-00	<b>Overland Police- DWI Saturation Patrols</b>	\$0.00	\$0.00	\$0.00	\$7,500.00	\$7,500.00	\$7,500.00
	154AL-2017-AL-85-00	<b>Overland Police-DWI Sobriety Checkpoints</b>	\$0.00	\$0.00	\$0.00	\$13,600.00	\$13,600.00	\$13,600.00
	154AL-2017-AL-86-00	Pevely Police-DWI Wolf Pack	\$0.00	\$0.00	\$0.00	\$5,500.00	\$5,500.00	\$5,500.00
	154AL-2017-AL-87-00	Pevely Police-Youth Alcohol Enforcement	\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00	\$5,000.00
	154AL-2017-AL-88-00	St Ann Police-Sobriety Checkpoint	\$0.00	\$0.00	\$0.00	\$14,000.00	\$14,000.00	\$14,000.00
	154AL-2017-AL-89-00	St Charles City Police-DWI Saturation/Wo	\$0.00	\$0.00	\$0.00	\$15,500.00	\$15,500.00	\$15,500.00
	154AL-2017-AL-90-00	St Charles City Police-DWI Checkpoint	\$0.00	\$0.00	\$0.00	\$15,125.00	\$15,125.00	\$15,125.00
	154AL-2017-AL-91-00	St Charles City Police-Youth Alcohol Enf	\$0.00	\$0.00	\$0.00	\$6,000.00	\$6,000.00	\$6,000.00
	154AL-2017-AL-92-00	St Charles Co Police-DWI Checkpoint	\$0.00	\$0.00	\$0.00	\$10,000.00	\$10,000.00	\$10,000.00
	154AL-2017-AL-93-00	Ozark Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$6,000.00	\$6,000.00	\$6,000.00
	154AL-2017-AL-95-00	St Charles Co Police-Youth Alcohol	\$0.00	\$0.00	\$0.00	\$10,000.00	\$10,000.00	\$10,000.00
	154AL-2017-AL-96-00	St Charles Co Police-DWI Wolfpack/Satura	\$0.00	\$0.00	\$0.00	\$15,500.00	\$15,500.00	\$15,500.00
	154AL-2017-AL-97-00	Potosi Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$8,000.00	\$8,000.00	\$8,000.00
	154AL-2017-AL-98-00	Republic Police-DWI Enf & Education	\$0.00	\$0.00	\$0.00	\$9,000.00	\$9,000.00	\$9,000.00
	154AL-2017-AL-99-00	Rogersville Police-DWI Enforcement 2016-	\$0.00	\$0.00	\$0.00	\$3,000.00	\$3,000.00	\$3,000.00
	154AL-2017-AL-A0-00	Rolla Police-DWI Enf /Checkpoint	\$0.00	\$0.00	\$0.00	\$14,000.00	\$14,000.00	\$14,000.00

Program Area	Project	Description	Prior Approved Program Funds	State Funds	Previous Bal.	Incre/(Decre)	<b>Current Balance</b>	Share to Local
	154AL-2017-AL-A1-00	Seneca Police-Zero Tolerance	\$0.00	\$0.00	\$0.00	\$1,500.00	\$1,500.00	\$1,500.00
	154AL-2017-AL-A2-00	MADD-Power of Parents & Power of Youth	\$0.00	\$0.00	\$0.00	\$53,500.00	\$53,500.00	\$53,500.00
	154AL-2017-AL-A3-00	Safe & Sober Inc-MO Safe & Sober	\$0.00	\$0.00	\$0.00	\$310,000.00	\$310,000.00	\$310,000.00
	154AL-2017-AL-A4-00	St Clair Police-R.I.D.	\$0.00	\$0.00	\$0.00	\$5,500.00	\$5,500.00	\$5,500.00
	154AL-2017-AL-A5-00	St John Police-Sobriety Checkpoints	\$0.00	\$0.00	\$0.00	\$13,000.00	\$13,000.00	\$13,000.00
	154AL-2017-AL-A6-00	St John Police-DWI Saturation	\$0.00	\$0.00	\$0.00	\$8,000.00	\$8,000.00	\$8,000.00
	154AL-2017-AL-A7-00	St Louis Co Police-Sobriety Ckpt/Saturat	\$0.00	\$0.00	\$0.00	\$31,500.00	\$31,500.00	\$31,500.00
	154AL-2017-AL-A8-00	St Louis Metro Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$115,000.00	\$115,000.00	\$115,000.00
	154AL-2017-AL-A9-00	St Louis Metro Police-Sobriety Ckpoint	\$0.00	\$0.00	\$0.00	\$20,000.00	\$20,000.00	\$20,000.00
	154AL-2017-AL-B0-00	St Peters Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$28,000.00	\$28,000.00	\$28,000.00
	154AL-2017-AL-B1-00	Sullivan Police-DWI Enf Overtime	\$0.00	\$0.00	\$0.00	\$5,500.00	\$5,500.00	\$5,500.00
	154AL-2017-AL-B2-00	Sullivan Police-Franklin Co DWI Task For	\$0.00	\$0.00	\$0.00	\$3,000.00	\$3,000.00	\$3,000.00
	154AL-2017-AL-B3-00	Troy Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00	\$5,000.00
	154AL-2017-AL-B4-00	U of MO Curators-Partners In Prevention	\$0.00	\$0.00	\$0.00	\$320,000.00	\$320,000.00	\$0.00
	154AL-2017-AL-B5-00	Union Police-Franklin Co Impaired Drivin	\$0.00	\$0.00	\$0.00	\$3,000.00	\$3,000.00	\$3,000.00
	154AL-2017-AL-B6-00	Velda City Police-Safer Roads	\$0.00	\$0.00	\$0.00	\$3,000.00	\$3,000.00	\$3,000.00
	154AL-2017-AL-B7-00	Vinita Park Police-DWI Ckpoint & Saturat	\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00	\$5,000.00
	154AL-2017-AL-B8-00	Wentzville Police-Sobriety Checkpoint	\$0.00	\$0.00	\$0.00	\$8,000.00	\$8,000.00	\$8,000.00
	154AL-2017-AL-B9-00	Wentzville Police-Underage Drinking	\$0.00	\$0.00	\$0.00	\$5,500.00	\$5,500.00	\$5,500.00
	154AL-2017-AL-C0-00	Wentzville Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$10,000.00	\$10,000.00	\$10,000.00
	154AL-2017-AL-C1-00	Woodson Terrace Police-DWI Wolfpack Enf	\$0.00	\$0.00	\$0.00	\$2,500.00	\$2,500.00	\$2,500.00
	154AL-2017-AL-C2-00	DeSoto Public Safety-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$2,000.00	\$2,000.00	\$2,000.00
	154AL-2017-AL-C3-00	Belton Police-DWI Wolfpack	\$0.00	\$0.00	\$0.00	\$3,048.00	\$3,048.00	\$3,048.00
	154AL-2017-AL-C4-00	Belton Police-Sobriety Checkpoint	\$0.00	\$0.00	\$0.00	\$10,080.00	\$10,080.00	\$10,080.00
	154AL-2017-AL-C5-00	Benton Co Sheriff-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$8,000.00	\$8,000.00	\$8,000.00
	154AL-2017-AL-C6-00	Blue Springs Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$2,500.00	\$2,500.00	\$2,500.00
	154AL-2017-AL-C7-00	Blue Springs Police-Sobriety Checkpoints	\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00	\$5,000.00
	154AL-2017-AL-C8-00	Cass Co Sheriff-Alcohol Enforcement	\$0.00	\$0.00	\$0.00	\$9,300.00	\$9,300.00	\$9,300.00
	154AL-2017-AL-C9-00	Clay Co Sheriff-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$12,995.00	\$12,995.00	\$12,995.00
	154AL-2017-AL-D0-00	Clay Co Sheriff-Youth Alcohol Enforcemen	\$0.00	\$0.00	\$0.00	\$2,000.00	\$2,000.00	\$2,000.00
	154AL-2017-AL-D1-00	Clay Co Sheriff-Sobriety Ckpt / Task For	\$0.00	\$0.00	\$0.00	\$4,000.00	\$4,000.00	\$4,000.00
	154AL-2017-AL-D2-00	Excelsior Springs Police-Clay/Platte DWI	\$0.00	\$0.00	\$0.00	\$7,300.00	\$7,300.00	\$7,300.00
	154AL-2017-AL-D3-00	Gladstone Pub Safety-DWI & Ckpoint	\$0.00	\$0.00	\$0.00	\$8,000.00	\$8,000.00	\$8,000.00
	154AL-2017-AL-D4-00	Grain Valley Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$3,500.00	\$3,500.00	\$3,500.00
	154AL-2017-AL-D5-00	Grandview Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$19,000.00	\$19,000.00	\$19,000.00
	154AL-2017-AL-D6-00	Harrisonville Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$1,750.00	\$1,750.00	\$1,750.00
	154AL-2017-AL-D7-00	Springfield Police-Youth Alcohol Enforce	\$0.00	\$0.00	\$0.00	\$29,879.00	\$29,879.00	\$29,879.00
	154AL-2017-AL-D8-00	St Clair Co Sheriff-DWI Enf & Checkpoint	\$0.00	\$0.00	\$0.00	\$1,548.00	\$1,548.00	\$1,548.00

Program Area	Project	Description	Prior Approved Program Funds	State Funds	Previous Bal.	Incre/(Decre)	Current Balance	Share to Local
	154AL-2017-AL-D9-00	St Robert Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$7,924.00	\$7,924.00	\$7,924.00
	154AL-2017-AL-E0-00	Stone Co Sheriff-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$9,000.00	\$9,000.00	\$9,000.00
	154AL-2017-AL-E1-00	Washington Co Sheriff-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$5,800.00	\$5,800.00	\$5,800.00
	154AL-2017-AL-E2-00	Jackson Co Sheriff-DWI Unit Salary	\$0.00	\$0.00	\$0.00	\$159,485.08	\$159,485.08	\$159,485.08
	154AL-2017-AL-E3-00	KC Bd of Pol Comm-Youth Alcohol	\$0.00	\$0.00	\$0.00	\$22,500.00	\$22,500.00	\$22,500.00
	154AL-2017-AL-E4-00	Kearney Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$3,000.00	\$3,000.00	\$3,000.00
	154AL-2017-AL-E5-00	Webster Co Sheriff-Youth DWI 16-17	\$0.00	\$0.00	\$0.00	\$2,700.00	\$2,700.00	\$2,700.00
	154AL-2017-AL-E6-00	Liberty Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$2,500.00	\$2,500.00	\$2,500.00
	154AL-2017-AL-E7-00	Livingston Co Sheriff-DWI Project	\$0.00	\$0.00	\$0.00	\$3,510.00	\$3,510.00	\$3,510.00
	154AL-2017-AL-E8-00	Marshall Police-Sobriety Checkpoint	\$0.00	\$0.00	\$0.00	\$7,749.87	\$7,749.87	\$7,749.87
	154AL-2017-AL-E9-00	Oak Grove Police-DWI Enforcement 2017	\$0.00	\$0.00	\$0.00	\$3,348.00	\$3,348.00	\$3,348.00
	154AL-2017-AL-F0-00	Platte City Police-Platt & Clay Co Ckpt	\$0.00	\$0.00	\$0.00	\$1,500.00	\$1,500.00	\$1,500.00
	154AL-2017-AL-F1-00	Platte Co Sheriff-Sobriety Checkpoint	\$0.00	\$0.00	\$0.00	\$27,401.00	\$27,401.00	\$27,401.00
	154AL-2017-AL-F2-00	Raymore Police-Sobriety Ckpt /DWI Enforc	\$0.00	\$0.00	\$0.00	\$7,500.00	\$7,500.00	\$7,500.00
	154AL-2017-AL-F3-00	Riverside Pub Safety-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$5,040.00	\$5,040.00	\$5,040.00
	154AL-2017-AL-F4-00	Sedalia Police-DWI Enforcement 2017	\$0.00	\$0.00	\$0.00	\$4,220.00	\$4,220.00	\$4,220.00
	154AL-2017-AL-F5-00	Smithville Police-Youth Alcohol Enforcem	\$0.00	\$0.00	\$0.00	\$3,432.00	\$3,432.00	\$3,432.00
	154AL-2017-AL-F6-00	St Joseph Police-Midland Empire Alcohol	\$0.00	\$0.00	\$0.00	\$33,984.00	\$33,984.00	\$33,984.00
	154AL-2017-AL-F7-00	St Joseph Police-NW MO DWI Task Force	\$0.00	\$0.00	\$0.00	\$31,500.00	\$31,500.00	\$31,500.00
	154AL-2017-AL-F8-00	THSD-DWI Enforcement Equipment	\$0.00	\$0.00	\$0.00	\$80,000.00	\$80,000.00	\$0.00
	154AL-2017-AL-F9-00	MADD-Court Monitoring Program	\$0.00	\$0.00	\$0.00	\$123,000.00	\$123,000.00	\$123,000.00
	154AL-2017-AL-G0-00	OSCA-DWI Court Project	\$0.00	\$0.00	\$0.00	\$258,284.00	\$258,284.00	\$0.00
	154AL-2017-AL-G1-00	MSHP-Sobiety Checkpoint Operations	\$0.00	\$0.00	\$0.00	\$240,000.00	\$240,000.00	\$0.00
	154AL-2017-AL-G2-00	MSHP-DWI Saturations	\$0.00	\$0.00	\$0.00	\$246,850.00	\$246,850.00	\$0.00
	154AL-2017-AL-G3-00	Franklin Co Sheriff-Sobriety Checkpoint	\$0.00	\$0.00	\$0.00	\$19,000.00	\$19,000.00	\$19,000.00
	154AL-2017-AL-G4-00	Christian Co Sheriff-Sobriety Checkpoint	\$0.00	\$0.00	\$0.00	\$6,500.00	\$6,500.00	\$6,500.00
	154AL-2017-AL-G5-00	Phelps Co Sheriff-DWI Enforcement 2017	\$0.00	\$0.00	\$0.00	\$6,000.00	\$6,000.00	\$6,000.00
	154AL-2017-AL-G6-00	Gladstone Pub Safety-Not 21, Do Not Sell	\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00	\$5,000.00
	154 Alcohol Tota	al	\$0.00	\$0.00	\$0.00	\$8,656,568.45	\$8,656,568.45	\$6,498,834.45
	154 Transfer Funds Tota	al	\$0.00	\$0.00	\$0.00	\$8,656,568.45	\$8,656,568.45	\$6,498,834.45
MAP 21 405b OP Low	o Low							
	M2HVE-2017-05-01-00	Arnold Police-Unrestrained Drivers & Pas	\$0.00	\$0.00	\$0.00	\$14,700.00	\$14,700.00	\$14,700.00
	M2HVE-2017-05-02-00	Greene Co Sheriff-Occupant Protection	\$0.00	\$0.00	\$0.00	\$22,000.00	\$22,000.00	\$22,000.00
	M2HVE-2017-05-03-00	Ballwin Police-Occupant Protection	\$0.00	\$0.00	\$0.00	\$3,977.00	\$3,977.00	\$3,977.00
	M2HVE-2017-05-04-00	Brentwood Police-Max Prim Seat Belt Ordi	\$0.00	\$0.00	\$0.00	\$2,500.00	\$2,500.00	\$2,500.00
	M2HVE-2017-05-05-00	Byrnes Mill Police-Safety First	\$0.00	\$0.00	\$0.00	\$3,500.00	\$3,500.00	\$3,500.00
	M2HVE-2017-05-06-00	Calverton Park Police-Click It Or Ticket	\$0.00	\$0.00	\$0.00	\$4,500.00	\$4,500.00	\$4,500.00
	M2HVE-2017-05-07-00	Creve Coeur Police-Click It Or Ticket	\$0.00	\$0.00	\$0.00	\$8,000.00	\$8,000.00	\$8,000.00

Program Area	Project	Description	Prior Approved Program Funds	State Funds	Previous Bal.	Incre/(Decre)	Current Balance	Share to Local
	M2HVE-2017-05-08-00	Hazelwood Police-Seat Belt Enforcement	\$0.00	\$0.00	\$0.00	\$15,000.00	\$15,000.00	\$15,000.00
	M2HVE-2017-05-09-00	Maryland Heights Police-Seat Belt Enforc	\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00	\$5,000.00
	M2HVE-2017-05-10-00	Winfield Police-Winfield Cares Buckle Up	\$0.00	\$0.00	\$0.00	\$3,000.00	\$3,000.00	\$3,000.00
	M2HVE-2017-05-11-00	Jackson Police-Occupant Protection	\$0.00	\$0.00	\$0.00	\$6,000.00	\$6,000.00	\$6,000.00
	M2HVE-2017-05-12-00	Cape Girardeau Co Sheriff-Occup Protecti	\$0.00	\$0.00	\$0.00	\$3,500.00	\$3,500.00	\$3,500.00
	M2HVE-2017-05-13-00	Dexter Police-Occupant Protection Enforc	\$0.00	\$0.00	\$0.00	\$10,000.00	\$10,000.00	\$10,000.00
	M2HVE-2017-05-14-00	Fredericktown Police-Keep Our Citizens S	\$0.00	\$0.00	\$0.00	\$10,000.00	\$10,000.00	\$10,000.00
	M2HVE-2017-05-15-00	Madison Co Sheriff-Safety First	\$0.00	\$0.00	\$0.00	\$3,000.00	\$3,000.00	\$3,000.00
	M2HVE-2017-05-16-00	MSHP-Occupant Protection Project	\$0.00	\$0.00	\$0.00	\$120,000.00	\$120,000.00	\$0.00
	M2HVE-2017-05-17-00	Jackson Co Sheriff-Seat Belt Enf/Educati	\$0.00	\$0.00	\$0.00	\$7,000.00	\$7,000.00	\$7,000.00
	M2HVE-2017-05-18-00	Grandview Police-Occupant Protection	\$0.00	\$0.00	\$0.00	\$20,000.00	\$20,000.00	\$20,000.00
	M2HVE-2017-05-19-00	Harrisonville Police-Safety Belt Enforce	\$0.00	\$0.00	\$0.00	\$3,000.00	\$3,000.00	\$3,000.00
	M2HVE-2017-05-20-00	Clay Co Sheriff-Occupant Protection	\$0.00	\$0.00	\$0.00	\$2,500.00	\$2,500.00	\$2,500.00
	405b Low HVE Total	al	\$0.00	\$0.00	\$0.00	\$267,177.00	\$267,177.00	\$147,177.00
405b Low Public Education	: Education							
	M2PE-2017-05-02-00	THSD-Click It Or Ticket Enf Campaign	\$0.00	\$0.00	\$0.00	\$350,000.00	\$350,000.00	\$0.00
	M2PE-2017-05-03-00	THSD-Child Passenger Safety	\$0.00	\$0.00	\$0.00	\$150,000.00	\$150,000.00	\$0.00
405	405b Low Public Education Tota	al	\$0.00	\$0.00	\$0.00	\$500,000.00	\$500,000.00	\$0.00
405b Low Comr	405b Low Community CPS Services							
	M2CPS-2017-05-01-00	THSD-Child Passenger Safety Coordination	\$0.00	\$0.00	\$0.00	\$45,000.00	\$45,000.00	\$0.00
405b Low C	405b Low Community CPS Services Total	al	\$0.00	\$0.00	\$0.00	\$45,000.00	\$45,000.00	\$0.00
405b Low CSS Pı	405b Low CSS Purchase/Distribution							
	M2CSS-2017-05-01-00	THSD-MAP 21 Child Safety Seat Distributi	\$0.00	\$0.00	\$0.00	\$42,700.00	\$42,700.00	\$0.00
405b Low CS 405b OP Low	405b Low CSS Purchase/Distribution Total 5b OP Low	al	\$0.00	\$0.00	\$0.00	\$42,700.00	\$42,700.00	\$0.00
	M2X-2017-05-00-00	THSD-Statewide 405b OP Low	\$0.00	\$438,719.25	\$0.00	\$900,000.00	\$900,000.00	\$900,000.00
	405b OP Low Total	al	\$0.00	\$438,719.25	\$0.00	\$900,000.00	\$900,000.00	\$900,000.00
	MAP 21 405b OP Low Total	al	\$0.00	\$438,719.25	\$0.00	\$1,754,877.00	\$1,754,877.00	\$1,047,177.00
MAP 21 405c Data Program	ita Program							
	M3DA-2017-04-00-00	THSD-Statewide 405c Data Program	\$0.00	\$550,504.27	\$0.00	\$1,300,000.00	\$1,300,000.00	\$0.00
	M3DA-2017-04-01-00	Blue Springs Police-E Citation	\$0.00	\$0.00	\$0.00	\$52,000.00	\$52,000.00	\$52,000.00
	M3DA-2017-04-02-00	OSCA-JIS Monitoring & Reporting	\$0.00	\$0.00	\$0.00	\$169,325.64	\$169,325.64	\$0.00
	M3DA-2017-04-03-00	MSHP-STARS and FARS Support	\$0.00	\$0.00	\$0.00	\$224,052.00	\$224,052.00	\$0.00
	M3DA-2017-04-04-00	Ballwin Police-E Citations	\$0.00	\$0.00	\$0.00	\$14,300.00	\$14,300.00	\$14,300.00
	M3DA-2017-04-05-00	Christian Co Sheriff-E Citation	\$0.00	\$0.00	\$0.00	\$40,912.04	\$40,912.04	\$40,912.04
	M3DA-2017-04-06-00	Dexter Police-Ticket Printers For Patro	\$0.00	\$0.00	\$0.00	\$4,365.00	\$4,365.00	\$4,365.00
	M3DA-2017-04-07-00	Jackson Police-E Ticketing Project	\$0.00	\$0.00	\$0.00	\$44,815.33	\$44,815.33	\$44,815.33

Drogram Area	Droiect	Description	Prior Approved	State Funds	Previous	Incre/(Decre)	Current Balance	Share to Local
			Program Funds		Bal.			
	M3DA-2017-04-08-00	MSHP-Statewide Traffic Accident Records	\$0.00	\$0.00	\$0.00	\$139,300.00	\$139,300.00	\$0.00
	M3DA-2017-04-09-00	REJIS-LETS Sustainment & Enhancements	\$0.00	\$0.00	\$0.00	\$84,976.00	\$84,976.00	\$0.00
	M3DA-2017-04-10-00	REJIS-Electronic Records Adoption Improv	\$0.00	\$0.00	\$0.00	\$17,812.00	\$17,812.00	\$0.00
	M3DA-2017-04-11-00	Rogersville Police-E Ticketing	\$0.00	\$0.00	\$0.00	\$3,604.00	\$3,604.00	\$3,604.00
	M3DA-2017-04-12-00	THSD-Traffic Records Data Improvement	\$0.00	\$0.00	\$0.00	\$90,000.00	\$90,000.00	\$0.00
	M3DA-2017-04-13-00	Washington Police-Mobile Ticketing Print	\$0.00	\$0.00	\$0.00	\$5,118.00	\$5,118.00	\$5,118.00
	M3DA-2017-04-14-00	Webb City Police-Digital Ticket Processi	\$0.00	\$0.00	\$0.00	\$4,297.08	\$4,297.08	\$4,297.08
	M3DA-2017-04-15-00	Willow Springs Police-E Ticket Printers	\$0.00	\$0.00	\$0.00	\$7,140.00	\$7,140.00	\$7,140.00
	405c Data Program Tota	al	\$0.00	\$550,504.27	\$0.00	\$2,202,017.09	\$2,202,017.09	\$176,551.45
MAP	MAP 21 405c Data Program Total	al	\$0.00	\$550,504.27	\$0.00	\$2,202,017.09	\$2,202,017.09	\$176,551.45
MAP 21 405d lm	MAP 21 405d Impaired Driving Mid							
	M5HVE-2017-03-01-00	Boone Co Sheriff-Sobriety Ckpt /Saturati	\$0.00	\$0.00	\$0.00	\$13,500.00	\$13,500.00	\$13,500.00
	M5HVE-2017-03-02-00	Columbia Police-DWI Full Time Unit	\$0.00	\$0.00	\$0.00	\$74,302.40	\$74,302.40	\$74,302.40
	M5HVE-2017-03-03-00	Franklin Co Sheriff-Traffic Safety /DWI	\$0.00	\$0.00	\$0.00	\$112,472.11	\$112,472.11	\$112,472.11
	M5HVE-2017-03-04-00	Greene Co Sheriff-DWI Unit	\$0.00	\$0.00	\$0.00	\$50,753.15	\$50,753.15	\$50,753.15
	M5HVE-2017-03-05-00	Lebanon Police-Sobriety Ckpt /DWI Enforc	\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00	\$5,000.00
	M5HVE-2017-03-06-00	Union Police-Impaired Driving Saturation	\$0.00	\$0.00	\$0.00	\$13,750.00	\$13,750.00	\$13,750.00
	M5HVE-2017-03-07-00	Springfield Police-DWI Enf /Sobriety Ckp	\$0.00	\$0.00	\$0.00	\$108,629.00	\$108,629.00	\$108,629.00
	M5HVE-2017-03-08-00	Independence Police-Sob Ckpt Youth AI Wo	\$0.00	\$0.00	\$0.00	\$260,000.00	\$260,000.00	\$260,000.00
	M5HVE-2017-03-09-00	Washington Police-Youth Alcohol Enforcem	\$0.00	\$0.00	\$0.00	\$4,500.00	\$4,500.00	\$4,500.00
	M5HVE-2017-03-10-00	Jackson Co Sheriff-Sobriety Checkpoint	\$0.00	\$0.00	\$0.00	\$25,000.00	\$25,000.00	\$25,000.00
	M5HVE-2017-03-11-00	Jackson Co Sheriff-Wolf Pack Saturation	\$0.00	\$0.00	\$0.00	\$20,000.00	\$20,000.00	\$20,000.00
	M5HVE-2017-03-12-00	Jackson Co Sheriff-No Refusal DWI Unit	\$0.00	\$0.00	\$0.00	\$10,000.00	\$10,000.00	\$10,000.00
	M5HVE-2017-03-13-00	KC Bd of Police Comm-Sobriety Checkpoint	\$0.00	\$0.00	\$0.00	\$150,000.00	\$150,000.00	\$150,000.00
	M5HVE-2017-03-14-00	KC Bd of Police Comm-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$110,000.00	\$110,000.00	\$110,000.00
	M5HVE-2017-03-15-00	Washington Police-Sobriety Checkpoint	\$0.00	\$0.00	\$0.00	\$9,750.00	\$9,750.00	\$9,750.00
	M5HVE-2017-03-16-00	Waynesville Police-It Don't Jive To Drin	\$0.00	\$0.00	\$0.00	\$3,750.00	\$3,750.00	\$3,750.00
	M5HVE-2017-03-17-00	Lee's Summit Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$33,500.00	\$33,500.00	\$33,500.00
	M5HVE-2017-03-18-00	Webb City Police-DWI Saturation Patrols	\$0.00	\$0.00	\$0.00	\$11,500.00	\$11,500.00	\$11,500.00
	M5HVE-2017-03-19-00	Webster Co Sheriff-DWI Enforcement 2016-	\$0.00	\$0.00	\$0.00	\$12,000.00	\$12,000.00	\$12,000.00
	M5HVE-2017-03-20-00	Platte Co Sheriff-DWI Enf Officer	\$0.00	\$0.00	\$0.00	\$43,562.50	\$43,562.50	\$43,562.50
	M5HVE-2017-03-21-00	Pleasant Hill Police-DWI Wolf Packs /Ckp	\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00	\$5,000.00
	M5HVE-2017-03-22-00	MO Safety Center-Enforcement Drive Sober	\$0.00	\$0.00	\$0.00	\$419,239.12	\$419,239.12	\$360,000.00
	M5HVE-2017-03-23-00	Smithville Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$3,541.96	\$3,541.96	\$3,541.96
	M5HVE-2017-03-24-00	Smithville Police-Joint Clay/Platte DWI	\$0.00	\$0.00	\$0.00	\$4,976.64	\$4,976.64	\$4,976.64
	M5HVE-2017-03-25-00	THSD-Statewide DWI 405d	\$0.00	\$0.00	\$0.00	\$50,000.00	\$50,000.00	\$0.00
	M5HVE-2017-03-26-00	Scott City Police-SEMO DWI Task Force	\$0.00	\$0.00	\$0.00	\$4,000.00	\$4,000.00	\$4,000.00
	M5HVE-2017-03-27-00	Scott Co Sheriff-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$4,320.00	\$4,320.00	\$4,320.00

lighway Safety Plan Cost Summary - <sup>I</sup> 017 HSP 1

Program Area	Project	Description	Prior Approved Program Funds	State Funds	Previous Bal.	Incre/(Decre)	Current Balance	Share to Local
	M5HVE-2017-03-28-00	Scott Co Sheriff-DWI Task Force	\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00	\$5,000.00
	M5HVE-2017-03-29-00	St Genevieve Co Sheriff-Impaired Driving	\$0.00	\$0.00	\$0.00	\$11,500.00	\$11,500.00	\$11,500.00
	M5HVE-2017-03-30-00	Thayer Police-DWI Saturation Patrol	\$0.00	\$0.00	\$0.00	\$2,556.80	\$2,556.80	\$2,556.80
	M5HVE-2017-03-31-00	West Plains Police-Sobriety Checkpoints	\$0.00	\$0.00	\$0.00	\$3,000.00	\$3,000.00	\$3,000.00
	M5HVE-2017-03-32-00	Willow Springs Police-Sobriety Checkpoin	\$0.00	\$0.00	\$0.00	\$2,500.00	\$2,500.00	\$2,500.00
	M5HVE-2017-03-33-00	Howell Co Sheriff-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00	\$5,000.00
	M5HVE-2017-03-34-00	Jackson Police-DWI Enf /DWI Task Force	\$0.00	\$0.00	\$0.00	\$10,600.00	\$10,600.00	\$10,600.00
	M5HVE-2017-03-35-00	Kennett Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$11,000.00	\$11,000.00	\$11,000.00
	M5HVE-2017-03-36-00	Kennett Police-Kennet PD /Task Force Ckp	\$0.00	\$0.00	\$0.00	\$9,030.00	\$9,030.00	\$9,030.00
	M5HVE-2017-03-37-00	Cape Girardeau Co Shrf-DWI Enf/SEMO DWI	\$0.00	\$0.00	\$0.00	\$15,400.00	\$15,400.00	\$15,400.00
	M5HVE-2017-03-38-00	Cape Girardeau Police-DWI Enforcement	\$0.00	\$0.00	\$0.00	\$7,700.00	\$7,700.00	\$7,700.00
	M5HVE-2017-03-39-00	Cape Girardeau Police-Sobriety Ckpoint	\$0.00	\$0.00	\$0.00	\$9,100.00	\$9,100.00	\$9,100.00
	M5HVE-2017-03-40-00	Charleston Pub Safety-SEMO DWI Task Forc	\$0.00	\$0.00	\$0.00	\$1,100.00	\$1,100.00	\$1,100.00
	M5HVE-2017-03-41-00	Dexter Police-Sobriety Ckpoint Operation	\$0.00	\$0.00	\$0.00	\$10,087.80	\$10,087.80	\$10,087.80
	M5HVE-2017-03-42-00	Dexter Police-Roving Patrol DWI Enforcem	\$0.00	\$0.00	\$0.00	\$6,000.00	\$6,000.00	\$6,000.00
	M5HVE-2017-03-43-00	Doniphan Police-In Car & Officer Worn Ca	\$0.00	\$0.00	\$0.00	\$2,500.00	\$2,500.00	\$2,500.00
	M5HVE-2017-03-44-00	Hayti Police-DWI Enforcement 2016-17	\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00	\$5,000.00
	M5HVE-2017-03-45-00	Madison Co Sheriff-Sobriety Checkpoint	\$0.00	\$0.00	\$0.00	\$5,330.00	\$5,330.00	\$5,330.00
	M5HVE-2017-03-46-00	Madison Co Sheriff-DWI Saturation Projec	\$0.00	\$0.00	\$0.00	\$5,770.00	\$5,770.00	\$5,770.00
	M5HVE-2017-03-47-00	MSHP-DWI Tracking System (DWITS)	\$0.00	\$0.00	\$0.00	\$6,200.00	\$6,200.00	\$0.00
	M5HVE-2017-03-48-00	Mtn View Police-DWI Checkpoints	\$0.00	\$0.00	\$0.00	\$2,100.00	\$2,100.00	\$2,100.00
	405d Mid HVE Tota	al	\$0.00	\$0.00	\$0.00	\$1,699,521.48	\$1,699,521.48	\$1,584,082.36
405d Mid ID Coordinator	ordinator							
	M5IDC-2017-03-01-00	THSD-Alcohol Coordination	\$0.00	\$0.00	\$0.00	\$80,000.00	\$80,000.00	\$0.00
	M5IDC-2017-03-02-00	THSD-Youth Alcohol Program Coordination	\$0.00	\$0.00	\$0.00	\$80,000.00	\$80,000.00	\$0.00
4	405d Mid ID Coordinator Total	tal	\$0.00	\$0.00	\$0.00	\$160,000.00	\$160,000.00	\$0.00
405d Mid Court Support	Support							
	M5CS-2017-03-01-00	DOR-Attorney & Legal Assistant	\$0.00	\$0.00	\$0.00	\$124,536.21	\$124,536.21	\$0.00
	M5CS-2017-03-02-00	MOPS-Traffic Safety Resource Prosecutor	\$0.00	\$0.00	\$0.00	\$294,684.09	\$294,684.09	\$0.00
7	405d Mid Court Support Total	tal	\$0.00	\$0.00	\$0.00	\$419,220.30	\$419,220.30	\$0.00
4050 MIG ITAINING	ng MFTB 2017 02 01 00		το ου			¢ 4.4 F00 F0	¢ 4 1 FOO FO	¢44 ΓΒΟ ΓΟ
	00-T0-20-7T0-7U15W	MU Police Chiefs Assoc-ULLEP 2017	\$0.00	\$0.00	50.UU	744,58U.5U	544,58U.5U	05.08č,44¢
	M5TR-2017-03-02-00	MO South St U-Alcohol Training for LE Of	\$0.00	\$0.00	\$0.00	\$54,600.00	\$54,600.00	\$0.00
	M5TR-2017-03-03-00	MSHP-BAC/DRE/ARIDE/SFST	\$0.00	\$0.00	\$0.00	\$132,941.76	\$132,941.76	\$0.00
	405d Mid Training Tota	al	\$0.00	\$0.00	\$0.00	\$232,122.26	Ş232,122.26	\$44,580.50

Program Area Project	Description	Prior Approved Program Funds	State Funds	Previous Bal.	Incre/(Decre)	Current Balance	Share to Local
405d Mid Other Based on Problem ID		-		-			
M5OT-2017-03-01-00	THSD-Impaired Driving Program Activities	\$0.00	\$0.00	\$0.00	\$30,000.00	\$30,000.00	\$0.00
M5OT-2017-03-02-00	DOR-DOR & Law Enforcement Training	\$0.00	\$0.00	\$0.00	\$23,594.00	\$23,594.00	\$0.00
M5OT-2017-03-03-00	REJIS-Drug Recognition Expert System	\$0.00	\$0.00	\$0.00	\$52,208.00	\$52,208.00	\$0.00
M5OT-2017-03-04-00	MO Safety Center-Impaired Driving Counte	\$0.00	\$0.00	\$0.00	\$875,604.42	\$875,604.42	\$0.00
M5OT-2017-03-05-00	THSD-Drug Testing in Fatal Crashes	\$0.00	\$0.00	\$0.00	\$50,000.00	\$50,000.00	\$0.00
405d Mid Other Based on Problem ID Total	tal	\$0.00	\$0.00	\$0.00	\$1,031,406.42	\$1,031,406.42	\$0.00
405d Impaired Driving Mid							
M5X-2017-03-00-00	THSD-Statewide 450d Impaired Driving Mid	\$0.00	\$1,635,567.62	\$0.00	\$3,000,000.00	\$3,000,000.00	\$3,000,000.00
405d Impaired Driving Mid Total	tal	\$0.00	\$1,635,567.62	\$0.00	\$3,000,000.00	\$3,000,000.00	\$3,000,000.00
MAP 21 405d Impaired Driving Mid Total	tal	\$0.00	\$1,635,567.62	\$0.00	\$6,542,270.46	\$6,542,270.46	\$4,628,662.86
MAP 21 405f Motorcycle Programs							
M9MA-2017-12-01-00	THSD-Motorcycle Safety Initiatives	\$0.00	\$0.00	\$0.00	\$200,000.00	\$200,000.00	\$0.00
405f Motorcyclist Awareness Total	tal	\$0.00	\$0.00	\$0.00	\$200,000.00	\$200,000.00	\$0.00
405f Motorcycle Programs							
M9X-2017-12-00-00	THSD-Statewide 405f Motorcycle Program	\$0.00	\$72,500.00	\$0.00	\$90,000.00	\$90,000.00	\$0.00
405f Motorcycle Programs Total	tal	\$0.00	\$72,500.00	\$0.00	\$90,000.00	\$90,000.00	\$0.00
MAP 21 405f Motorcycle Programs Total	tal	\$0.00	\$72,500.00	\$0.00	\$290,000.00	\$290,000.00	\$0.00
NHTSA Total	tal	\$0.00	\$4,744,394.01	\$0.00	\$27,634,144.49	\$27,634,144.49	\$17,157,929.33
To	Total	\$0.00	\$4,744,394.01	\$0.00	\$27,634,144.49	\$27,634,144.49	\$17,157,929.33

## Fiscal Year 2017

## Equipment List

Agency	Item Description	Amount	Contract
Boone County DWI Unit	SUV w/ equipment	\$55,000.00	17-M5HVE-03-002
Greene County DWI Unit	2016 Ford Explorer	\$30,993.00	17-M5HVE-03-004
Joplin PD DWI Unit	Police Vehicle	\$40,000.00	17-154-AL-035
Platte County HMV Unit	Police Vehicle	\$45,000.00	17-PT-02-075
Jefferson County	Chevy Tahoes	\$176,988.00	17-154-AL-067
St. Louis County	Ford Interceptor	\$32,000.00	17-PT-02-046
Jackson County DWI Unit	BAT van	\$94,275.00	no contract
	Total	\$474,256.00	

#### Fiscal Year 2017 Equipment List

## NKTSA Program Assessments

NHTSA Program Assessments completed in the last fiscal year are included in this section. Assessments included in previous HSP's are referenced below with the date of competition. Please contact our office for a full copy of an assessment.

Included in this section:

• Traffic Records Program Assessment - January 19, 2016

Submitted in a previous HSP:

- Occupant Protection Program Assessment March 31 April 4, 2014
- Standardized Field Sobriety Testing Program Assessment May 16-18, 2006 (Scheduled for fall, 2016)
- Impaired Driving Program Assessment April 19-23, 1999
- Impaired Driving Special Management Review May 7-10, 2007

### State of Missouri

#### Traffic Records Assessment January 19, 2016

National Highway Traffic Safety Administration Technical Assessment Team

#### **Table of Contents**

Executive Summary	2
Recommendations	3
Introduction	6
Background	<u>6</u>
Methodology	7
Results	
Traffic Records Coordinating Committee Management	<u>13</u>
Strategic Planning	23
Crash	
Vehicle	57
Driver	76
Roadway	<u>99</u>
Citation / Adjudication	<u> 118</u>
EMS / Injury Surveillance	<u>146</u>
Data Use and Integration	210
Appendix A	217
Assessment Participants	217
State and Local Respondents	218
Assessment Facilitator	<u>219</u>
Assessment Team Members	219
Appendix B	220
National Acronyms and Abbreviations	220
State-Specific Acronyms and Abbreviations	223

#### **Index of Figures**

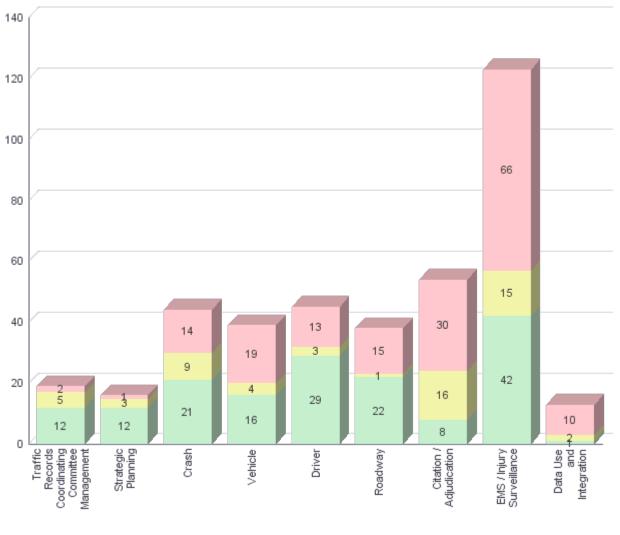
Figure 1: Rating Distribution by Module	<u> 2</u>
Figure 2: Assessment Section Ratings	3
Figure 3: Traffic Records Assessment Time Table	8
Figure 4: State Schedule for the Traffic Records Assessment	. 10
Figure 5: State Traffic Records Assessment Process	. 11

#### **Executive Summary**

Out of 391 assessment questions, Missouri met the Advisory ideal for 163 questions (41.7%), partially met the Advisory ideal for 58 questions (14.8%), and did not meet the Advisory ideal for 170 questions (43.5%).

As Figure 1 illustrates, within each assessment module, Missouri met the criteria outlined in the *Traffic Records Program Assessment Advisory* 63.2% of the time for Traffic Records Coordinating Committee Management, 75% of the time for Strategic Planning, 47.7% of the time for Crash, 41% of the time for Vehicle, 64.4% of the time for Driver, 57.9% of the time for Roadway, 14.8% of the time for Citation / Adjudication, 34.1% of the time for EMS / Injury Surveillance, and 7.7% of the time for Data Use and Integration.

#### Figure 1: Rating Distribution by Module



Meets Advisory ideal

Partially meets Advisory ideal Does not meet Advisory ideal

	(Juny)		$\bigcirc$		Citation /	EMS / Injury
_	Crash	Vehicle	Driver	Roadway	Adjudication	Surveillance
Description and Contents	97.6%	66.7%	90.0%	100.0%	66.7%	52.9%
Applicable Guidelines	86.7%	81.8%	100.0%	83.3%	64.9%	87.7%
Data Dictionaries	86.7%	81.0%	100.0%	80.0%	36.5%	63.3%
Procedures / Process Flow	77.1%	68.2%	98.0%	87.5%	66.7%	83.6%
Interfaces	53.3%	57.6%	76.2%	88.9%	40.5%	81.0%
Data Quality Control Programs	56.5%	52.0%	53.8%	51.9%	41.0%	48.4%
Overall	73.0%	62.6%	79.3%	73.3%	53.2%	59.8%
			Overall			

#### Figure 2: Assessment Section Ratings



#### Recommendations

Figure 2 shows the aggregate ratings by data system and assessment module. Each question's score is derived by multiplying its rank and rating (very important = 3, somewhat important = 2, and less important = 1; meets = 3, partially meets = 2, and does not meet = 1). The sum total for each module section is calculated based upon the individual question scores. Then, the percentage is calculated for each module section as follows:

Section average (%) =  $\frac{Section sum total}{Section total possible}$ 

The cells highlighted in red indicate the module sub-sections that scored below that data system's weighted average. The following priority recommendations are based on improving those module subsections with scores below the overall system score.

According to 23 CFR Part 1200, §1200.22, applicants for State traffic safety information system improvements grants are required to maintain a State traffic records strategic plan that—

"(3) Includes a list of all recommendations from its most recent highway safety data and traffic records system assessment; (4) Identifies which such recommendations the State intends to implement and the performance measures to be used to demonstrate quantifiable and measurable progress; and (5) For recommendations that the State does not intend to implement, provides an explanation."

Missouri can address the recommendations below by implementing changes to improve the ratings for the questions in those section modules with lower than average scores. Missouri can also apply for a NHTSA Traffic Records GO Team, for targeted technical assistance.

#### **Crash Recommendations**

Improve the interfaces with the Crash data system to reflect best practices identified in the Traffic Records Program Assessment Advisory.

Improve the data quality control program for the Crash data system to reflect best practices identified in the Traffic Records Program Assessment Advisory.

#### Vehicle Recommendations

Improve the interfaces with the Vehicle data system to reflect best practices identified in the Traffic Records Program Assessment Advisory.

Improve the data quality control program for the Vehicle data system to reflect best practices identified in the Traffic Records Program Assessment Advisory.

#### **Driver Recommendations**

Improve the interfaces with the Driver data system to reflect best practices identified in the Traffic Records Program Assessment Advisory.

Improve the data quality control program for the Driver data system to reflect best practices identified in the Traffic Records Program Assessment Advisory.

#### **Roadway Recommendations**

Improve the data quality control program for the Roadway data system to reflect best practices identified in the Traffic Records Program Assessment Advisory.

#### **Citation / Adjudication Recommendations**

Improve the data dictionary for the Citation and Adjudication systems to reflect best practices identified in the Traffic Records Program Assessment Advisory.

Improve the interfaces with the Citation and Adjudication systems to reflect best practices identified in the Traffic Records Program Assessment Advisory.

Improve the data quality control program for the Citation and Adjudication systems to reflect best practices identified in the Traffic Records Program Assessment Advisory.

#### **EMS / Injury Surveillance Recommendations**

Improve the description and contents of the Injury Surveillance systems to reflect best practices identified in the Traffic Records Program Assessment Advisory.

Improve the data quality control program for the Injury Surveillance systems to reflect best practices identified in the Traffic Records Program Assessment Advisory.

#### **Data Use and Integration Recommendations**

Improve the traffic records systems capacity to integrate data to reflect best practices identified in the Traffic Records Program Assessment Advisory.

#### Introduction

A traffic records system consists of data about a State's roadway transportation network and the people and vehicles that use it. The six primary components of a State traffic records system are: Crash, Driver, Vehicle, Roadway, Citation/Adjudication, and Injury Surveillance. These components address driver demographics, licensure, behavior and sanctions; vehicle types, configurations, and usage; engineering, education, enforcement measures; crash-related medical issues and actions; and how they affect highway traffic safety.

Quality traffic records data exhibiting the six primary data quality attributes—timeliness, accuracy, completeness, uniformity, integration, and accessibility—is necessary to improve traffic safety and effectively manage the motor vehicle transportation network, at the Federal, State, and local levels. Such data enables problem identification, countermeasure development and application, and outcome evaluation. Continued application of data-driven, science-based management practices can decrease the frequency of traffic crashes and mitigate their substantial negative effects on individuals and society.

State traffic records systems are the culmination of the combined efforts of collectors, managers, and users of data. Collaboration and cooperation between these groups can improve data and ensure that the data is used in ways that provide the greatest benefit to traffic safety efforts. Thoughtful, comprehensive, and uniform data use and governance policies can improve service delivery, link business processes, maximize return on investments, and improve risk management.

Congress has recognized the benefit of independent peer reviews for State traffic records data systems. These assessments help States identify areas of high performance and areas in need of improvement in addition to fostering greater collaboration among data systems. In order to encourage States to undertake such reviews regularly, Congress' Moving Ahead for Progress in the 21st Century (MAP-21) legislation requires States to conduct or update an assessment of its highway safety data and traffic records system every 5 years in order to qualify for §405(c) grant funding. The State's Governor's Representative must certify that an appropriate assessment has been completed within five years of the application deadline.

#### **Background**

In 2012, the National Highway Traffic Safety Administration published an updated *Traffic Records Program Assessment Advisory* (Report No. DOT HS 811 644). This *Advisory* was drafted by a group of traffic safety experts from a variety of backgrounds and affiliations, including: State highway safety offices, the Governors Highway Safety Association (GHSA) and the Association of Transportation Safety Information Professionals (ATSIP), as well as staff from NHTSA, FMCSA, and FHWA. The *Advisory* provides information on the contents, capabilities, and data quality of effective traffic records systems by describing an ideal that supports quality data driven decisions and improves highway safety. In addition, the *Advisory* describes in detail the importance of quality data in the identification of crash causes and outcomes, the development of effective interventions, implementation of countermeasures that prevent crashes and improve crash outcomes, updating traffic safety programs, systems, and policies, and evaluating progress in

reducing crash frequency and severity.

The *Advisory* is based upon a uniform set of questions derived from the ideal model traffic records data system. This model and suite of questions is designed to be used by independent subject matter experts in their assessment of the systems and processes that govern the collection, management, and analysis of traffic records data in a given State.

# **Methodology**

A State initiates the assessment process by submitting a formal request to its NHTSA Regional Administrator. Once that request is passed onto the NHTSA National Center for Statistics and Analysis Traffic Records Team, it appoints an assessment facilitator to work with the State Governor's Representative to identify a State assessment coordinator and appropriate State respondents for each assessment question. Respondents enter the data into NHTSA's State Traffic Records Assessment Program (STRAP), the Web-based application for the assessment. The assessment facilitator works with the State assessment coordinator to prepare for the assessment and establish a schedule consistent with the example outlined in Figure 3. Actual schedules can vary as dates may be altered to accommodate State-specific needs.

Upon NHTSA TR Team receipt of request		Initial pre-assessment conference call	
1 month prior to kickoff meeting		Facilitator introduction pre-assessment conference call	
Between facil kickoff	itator conference call and	State Coordinator assigns questions, enters contact information into STRAP, and builds initial document library	
Monday, Week 1 Tuesday, Week 1 – 12pm EST, Friday, Week 3 Friday, Week 3 – Wednesday, Week 5		On-site kickoff meeting	
		Round 1 Data Collection: State answers standardized assessment questions	
		<b>Round 1 Analysis</b> : Assessors review State answers and rate the responses and, if needed, request necessary clarifications	
Wednesday, Week 5Wednesday, Week 5Thursday, Week 5 – 12pm EST, Friday, Week 7Friday, Week 7 – Wednesday, Week 9Thursday, Week 9 – Thursday, Week 9 –		Round 2 Data Collection: State responds to the assessors initial ratings and requests for more information and clarification	
Friday, Week 7 – Wednesday, Week 9		<b>Round 2 Analysis</b> : Assessors review additional information from the State and, if needed, adjust initial ratings	
Thursday, Week 9 – 12pm EST, Friday, Week 11 Friday, Week 11 – Monday, Week 13		Round 3 Data Collection: State provides final response to the assessors' ratings	
		Round 3 Analysis: make final ratings	
	Tuesday, Week 13 – Monday, Week 14	Facilitator prepares final report	
Week 15		NHTSA delivers final report to State and Region	
(After comple by State)	tion of assessment, date set	NHTSA hosts webinar to debrief State participants	
(After comple	tion of assessment)	(OPTIONAL) State may request GO Team targeted technical assistance or training	

# Figure 3: Traffic Records Assessment Time Table

Following a kickoff meeting that explains the assessment process, schedule, and confirms question assignments, each respondent is sent an email with a token enabling them to log onto STRAP and answer assessment questions that had been assigned to them. The respondents may (a) answer a question, (b) answer the question and refer that question to another person to answer it as well, (c) refer the question—decline the question and send the question to someone else to answer—or (d) decline the question.

The traffic records assessment is an iterative process that includes three question-answer cycles. In each, State respondents have the opportunity to answer each question assigned to them before the assessors examine their answers and supporting evidence, at which point the assessors rate each response. The second and third question and answer cycles are used to clarify responses and provide the most accurate rating for each question. In an attempt to prioritize the capabilities of each system being assessed, each question is ranked as "very important," "somewhat important" or "less important." To assist the State in responding to each question, the *Advisory* also provides State respondents with standards of evidence that identify the specific information necessary to answer each assessment question.

A group of qualified independent assessors rates the responses and determines how closely a State's capabilities match those of the ideal system outlined in the *Advisory*. Each system component is evaluated independently by two or more assessors, who reach a consensus on the ratings. Specifically, the assessors rate each response and determine if a State (a) meets the description of the ideal traffic records system, (b) partially meets the ideal description, or (c) does not meet the ideal description. The assessors write a brief narrative to explain their rating for each question.

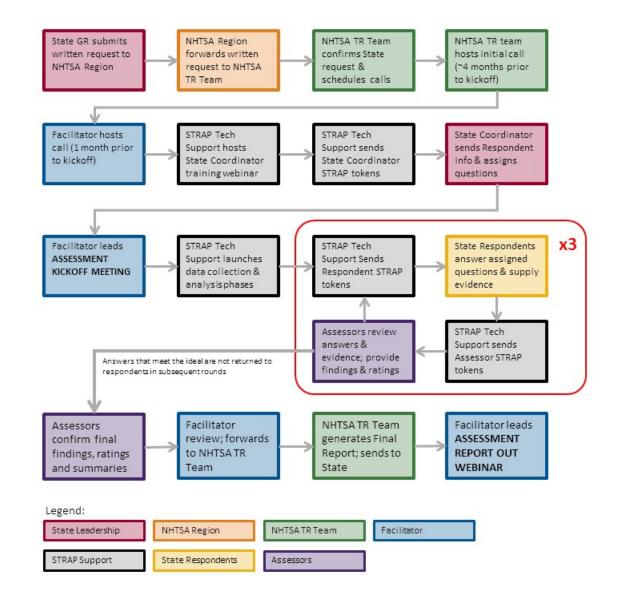
In order for NHTSA to accept and approve an assessment each question must have an answer. When appropriate, however, a State may answer questions with "no, we do not have this capability/use this practice" etc. These responses constitute an acceptable answer and will receive a "does not meet" rating. An assessment with unanswered or blank questions will not be acceptable and cannot be used to qualify for §405 grant funds.

The complete traffic records assessment process is outlined in Figure 5 below.

States are encouraged to use the conclusions of this report as a basis for the State data improvement program strategic planning process, and are encouraged to review the conclusions at least annually to gauge how the State is addressing the items in this report. NHTSA can provide support in addressing these conclusions by means of GO Teams. NHTSA's Traffic Records GO Team program helps States improve their traffic records systems by deploying teams of subject matter experts to deliver tailored technical assistance and training based on States' actual needs.

Kickoff	October 14, 2015	
Begin first Q&A Cycle	October 14, 2015	
End first Q&A Cycle	October 30, 2015	
Begin second Q&A Cycle	November 12, 2015	
End second Q&A Cycle	November 27, 2015	
Begin third Q&A Cycle	December 10, 2015	
End third Q&A Cycle	December 25, 2015	
Assessors' Final Results Complete	January 06, 2016	
Final Report Due	January 19, 2016	
Debrief	January 25, 2016	

# Figure 4: State Schedule for the Traffic Records Assessment



# Figure 5: State Traffic Records Assessment Process

# **Results**

For each question, a rating was assigned based on the answers and supporting documentation provided by the State. The ratings are shown as three icons, depicting 'meets', 'partially meets', or 'does not meet'.

Legend:



# **Traffic Records Coordinating Committee Management**

The State has a two tiered TRCC structure with a technical level committee that meets monthly and an executive level that meets as part of a larger coalition on a semi-annual basis. The TRCC has a designated chair and coordinator to facilitate the work of the committee. The members included in the technical TRCC roster are at a level to represent and influence the system in which they work. The State uses an overarching executive committee that meets on a wide variety of transportation issues as the executive TRCC. TRCC issues are a part of this semi-annual meeting. The State may wish to consider if this meets their needs as an executive committee and can provide the needed oversight.

The TRCC works in a collaborative effort to positively impact traffic records systems and processes. The committee is actively involved in the project selection process and employs costs benefit analysis in the decision-making process. The TRCC does a good job monitoring projects funded with federal traffic records improvement dollars.

State TRCCs are charged with developing, implementing, and monitoring the traffic records strategic plan over time. Projects are monitored, but no information was available related to monitoring the overall multi-year strategic plan. The TRCC should continue to work to establish performance measures for all core systems using NHTSA's 'Traffic Safety Performance Measures for States and Federal Agencies' document for guidance.

#### Question 1:

Does the State have both an executive and a technical TRCC?

#### Standard of Evidence:

Provide a charter and/or MOU. Also provide a roster with all members' names, affiliations, and titles for both the executive and technical TRCC.

### Question Rank: Very Important

#### Assessor conclusions:

The executive level TRCC functions under a broader coalition, which has other responsibilities beyond the functions of a TRCC. The documentation for the State TRCC is very clear, with MOUs for participating agencies. The documentation concerning the broader coalition is not as clearly defined concerning the authority that establishes the group as the executive level TRCC.

Respondents 1 Responses assigned 1 received	1 Response rate	100%
--	--------------------	------

# **Question 2:**

Do the executive TRCC members have the power to direct the agencies' resources for their respective areas of responsibility?

# Standard of Evidence:

Provide a charter and/or memorandum of understanding (MOU). Also provide a roster with all members' names, affiliations, and titles for the executive TRCC.



Very Important

#### Assessor conclusions:

The members included in the technical TRCC roster work at a level to represent and influence the system in which they work. The State asserts that the executive TRCC membership is made up of members who supervise the technical level members.

Respondents assigned	100%						
Question 3:							
Does the executive TRCC review and approve actions proposed by the technical TRCC?							
Standard of Evidence:							
Provide a narrative example of recent actions or programs approved by the executive TRCC (e.g., an approved project or funding proposal). Question Rank Very Important							
Assessor conclusions:							
The executive level TRCC members have some say with proposed projects but do not appear to officially approve the planned actions and projects. The TRCC would benefit from a formal approval process from the executive level of Strategic Plan updates and applications for funding.							

Respondents assigned	1 Responses 1 received 1	Response 100% rate
-------------------------	--------------------------	-----------------------

Important

#### **Question 4:** Does the TRCC include representation from the core data systems at both the executive and technical levels? Standard of Evidence: Identify the executive and technical TRCC members that represent the core data systems: crash, driver, vehicle, roadway, citation and adjudication, and **Question Rank:** injury surveillance. Very Important Assessor conclusions: Rosters for both the technical and executive level TRCCs are available. It may be helpful for the State to provide titles for the TRCC members to further emphasize the decision-making ability of the members. Respondents Responses Response 1 1 100% assigned received rate Question 5: Does the TRCC consult with the appropriate State IT agency or offices when planning and implementing technology projects? Standard of Evidence: Provide a narrative example of the TRCC's process of consulting the **Question Rank:** appropriate IT agency or offices. Identify the appropriate agency or offices Somewhat

and their responsibilities.

# **Assessor conclusions:**

The TRCC proposes projects and then vets them through the appropriate agencies' IT staff before proceeding. Projects are well coordinated with IT staff at the project level and State level.

Respondents 1	Responses 1	Response	100%
assigned	received	rate	

# **Question 6:**

Is there a formal document authorizing the TRCC?

#### Standard of Evidence:

Provide the authorizing document (e.g. MOU, charter).

#### Assessor conclusions:

The FY16 405c Strategic Plan provides the MOUs for the TRCC going forward under the MAP-21 provisions.

Respondents 1 assigned	Responses received	1 Response rate	100%
---------------------------	--------------------	--------------------	------

#### Question 7:

Does the TRCC provide the leadership and coordination necessary to develop, implement, and monitor the TRCC strategic plan?

#### Standard of Evidence:

Provide a narrative describing the TRCC's role in developing the TRCC strategic plan as well as implementation of a project detailed in the plan.

#### Assessor conclusions:

The TRCC is charged with developing, implementing, and monitoring the Strategic Plan over time. Although it appears the leadership is there and projects are monitored, no evidence of ongoing monitoring of the multi-year plan was provided.

	Respondents assigned	1	Responses received	1	Response rate	100%
--	-------------------------	---	-----------------------	---	------------------	------



Juestion Rank: Very Important

Question Rank:

Respondents assigned	1	Responses received	1	Response rate	100%
Assessor conclusi The TRCC is activel analysis in the decis the needs and bene award of Section 40	y involved i ion-making fits to the S	process. The com State. Thorough dis	nmittee alloo	cates Section 40	5c funds based on
Specify what funds t provide a narrative o program year's fund	lescribing ł ing.				Question Rank: Very Important
Standard of Evider	ice:				
Question 9: Does the TRCC allo	cate federa	al traffic records im	provement	grant funds?	
Respondents assigned	1	Responses received	1	Response rate	100%
Assessor conclusi The TRCC works in processes. The Stat data quality and con	a collabora e provided	an excellent exam			
Provide a narrative of engaged by compor processes.					Question Rank: Somewhat Important
Standard of Evider	ice:				
Question 8: Does the TRCC influ records system?	ience polic	y decisions that im	pact the St	ate's traffic	

# Question 10:

Does the TRCC identify core system performance measures and monitor progress?

### Standard of Evidence:

Provide at least one performance measure for each of the six core systems and describe how the TRCC identified it and has tracked its progress over time.

Question Rank: Very Important

Important

#### Assessor conclusions:

The TRCC has tracked crash data and commercial motor vehicle (CMV) citation timeliness but does not consistently track measures for all of the core systems. Other measures of timeliness and accuracy are done at the project (not system) level.

While it is understood that there are some legislative hurdles that currently cause issues for setting clear performance measures for some of the core systems, the TRCC should continue to work to establish performance measures for all core systems.

Respondents assigned	1	Responses received	1	Response rate	100%	

#### **Question 11:**

Does the TRCC enable meaningful coordination among stakeholders and serve as a forum for the discussion of the State's traffic records programs, challenges, and investments?

#### Standard of Evidence:

Provide the charter or MOU and minutes from the two most recent technical **Question Rank:** Somewhat

#### Assessor conclusions:

The TRCC has representation from the core systems and serves as the forum for improvements on a Statewide level. The minutes provided were largely based on federal funding applications and projects and did not reflect a broader coordination of efforts.

Respondents	1 Responses	1 Response	100%
assigned	received	rate	



#### Question 12: Does the TRCC have a traffic records inventory? Standard of Evidence: Provide the traffic records inventory. **Question Rank:** Somewhat Assessor conclusions: Important The TRCC does not have a traffic records inventory. A complete traffic records inventory is extremely helpful to data users and can help with data linkage opportunities and avoiding duplication of efforts among agencies. Respondents Responses Response 1 1 100% assigned received rate Question 13: Does the technical TRCC have a designated chair? Standard of Evidence: Provide a position description, identify the individual, and describe the chair's Question Rank: responsibilities. Very Important Assessor conclusions: The TRCC has a designated chair who is responsible for facilitating discussion among members in regards to traffic data systems, reviewing projects, and presenting semiannually to the Executive committee the projects, proposed projects, and results. Respondents Responses Response 1 1 100%

received

rate

assigned

# **Question 14:**

Does the TRCC have a designated coordinator?

1

#### Standard of Evidence:

Provide a position description, identify the individual, and describe the coordinator's responsibilities.

#### Assessor conclusions:

assigned

The TRCC has a designated coordinator. The coordinator schedules the TRCC meetings, takes the meeting minutes, creates the meeting agendas, provides guidance on contracting procedure, creates and manages the 405c contracts, and works with partners to improve the traffic data system.

**Question Rank:** 

Very Important

100%

rate

Respondents assigned	1	Responses received	1	Response rate	100%
Question 15:					
Does the executive TF	RCC mee	et at least once annu	ually?		
Standard of Evidenc	e:				
Provide a schedule of years.	executiv	e meeting dates fro	m the pas	t two program	Question Rank: Somewhat Important
Assessor conclusion	าร:				
The State uses an ove transportation issues a meeting. The State ma	as the ex	ecutive TRCC. TRC	C issues	are a part of this	semi-annual
Respondents	1	Responses	1	Response	100%

received

1

Question 16:					
Does the technical TRC	C mee	et at least quarterly?			
Standard of Evidence:	:				
Provide a schedule of te year. If the TRCC has to purposes, and meeting	opical s	sub-committees, ide			Question Rank: Somewhat Important
Assessor conclusions					
The TRCC technical lev	el com	mittee is scheduled	to meet on	a monthly basis	S.
Respondents assigned	1	Responses received	1	Response rate	100%
Question 17:					
Does the TRCC overse impacting the core data			/ improvem	ent programs	
Standard of Evidence:	:				
Provide meeting minute activities that the TRCC		•	the quality	control	Question Rank: Very Important
Assessor conclusions Although the TRCC mo programs for the core s owner level.	nitors p				
Respondents assigned	1	Responses received	1	Response rate	100%

# Question 18:

Does the TRCC address technical assistance and training needs?

#### Standard of Evidence:



Document TRCC discussion of technical assistance and training needs with meeting agendas or minutes. Question Ran Somewhat Important

#### Assessor conclusions:

Training is a standing agenda item for the TRCC. Each of the core agencies discuss training needs at numerous meetings around the State in regards to their programs. These events include local engineer conferences, safety conferences, law enforcement training events, and ambulance services training events. Grants have training as a specific line item in the contract.

Respondents assigned	1	Responses received	1	Response rate	100%
<b>Question 19</b> : Does the TRCC use a	a varietv	of federal funds to s	strategically	/ allocate	
resources for traffic re					
Standard of Evidence	e:				
Provide an inventory improvement projects			oort traffic i	records	Question Rank: Very Important
Assessor conclusio	ns:				
A wide variety of fede funding opportunities Some State funds are	beyond of	data improvement s			

Respondents assigned	2	Responses received	2	Response rate	100%	
-------------------------	---	--------------------	---	------------------	------	--

# **Strategic Planning**

Missouri's Traffic Records Coordinating Committee (TRCC) has a process for development and review of its strategic plan for traffic records improvement. The Plan uses the latest traffic records assessment to determine deficiencies, as well as comments from data users and TRCC members. In determining what projects to select for funding, the State considers major systems first, then other interfacing and local data improvement projects. Missouri updates its strategic plan annually and the system seems to work well enough for the State and its data systems.

While this process is relatively successful, as data management improves it is more important to perfect the process to insure that funding is used most effectively to upgrade data systems, which are the foundation of actions to improve traffic safety for the State's citizens and road users. Some areas which have room for improvement are:

Prioritization of grant-funded projects should be based on a standard procedure that is transparent, agreed upon, and used by the TRCC. There are a number of processes which can be used for prioritization--one is the 4-box system. One aspect of determining the most effective selection process involves having the applications include not just timelines and milestones, but also performance measures which will show how the project will improve data quality in one or more of the six areas of timeliness, accuracy, completeness, uniformity, accessibility, or integration. This will require that a baseline measurement has been determined and the expected improvement outlined as a goal.

The plan should include not just those projects which have been selected and funded, but projects which are deemed important to data improvement that cannot be funded with current resources. This is the basis for strategic thinking and planning. The State's vision for traffic records should be the foundation upon which the planning is built. Once the TRCC determines what direction it will take, the projects should align with and improve the aspects of records upon which the Plan is focusing for the future. With prioritized projects in the plan, it improves the likelihood that funding or resources that become available unexpectedly are used to maximum effectiveness. It can also lead to combination of similar projects which seek to meet a Statewide need. It is particularly true if the State makes an effort to locate various additional sources of grant money and when State agencies are aware of pending needs when State funds become available.

Strategic planning should not be an annual or semi-annual process for data users, managers, and collectors. To be most effective, it must be a consistent way of thinking. If the State limits its strategic planning to a once-a-year exercise, it is less likely to change the status of data and data collection than will a consistent application of strategic thinking about data, data improvement, data use, and traffic safety improvement. Once the TRCC and the State make a concerted effort to think of data improvement holistically, it will be more likely that substantial improvement in data use and usefulness result. The ability to demonstrate how the funding is improving the data will also help advocates for funding show that data improvement is a wise use of resources and will help to justify the expense.

#### Question 20:

Does the TRCC develop the TRCC strategic plan?

### Standard of Evidence:



Document the process undertaken by the TRCC in developing the strategic plan.

Question Rank: Very Important

#### Assessor conclusions:

It appears that the TRCC is active in putting together the Strategic Plan for Traffic Records for the State, but the process seems dependent upon the 405 grant funding. Effective strategic planning should initially ignore funding availability. Strategic planning should begin with determination of the State's mission and vision, which has been accomplished including a plan for the near future. The vision should map out where the State hopes to be in the next 5-10 years. Once the vision is developed, the determined deficiencies in records and record systems will be the basis for the types of projects and programs which need to be accomplished or implemented. A list of projects should be developed and priorities set. At that point, the State can request grant proposals in order to fulfill the State's needs in its vision for the future. Projects for which funding is not currently available should remain in the plan, so that they can be considered when appropriate funding become available. Funding should be considered from State and federal sources as well as any and all grant opportunities that may apply. Once the projects are planned, it is much easier to take action on available funding or to seek grant funding that may exceed the traffic records funds that are supplied by NHTSA or available State funding.

Respondents assigned	1	Responses received	1	Response rate	100%
-------------------------	---	-----------------------	---	------------------	------

# Question 21:

Does the TRCC strategic plan address existing data and data systems deficiencies and document how these deficiencies are identified?

#### Standard of Evidence:

Identify, with appropriate citations, how the strategic plan addresses existing data and data systems deficiencies and documents how they were identified.

Question Rank: Very Important

#### Assessor conclusions:

The State describes how they identify and address existing data and data systems deficiencies presented by the data users and TRCC members each year to create the TRCC Strategic Plan. The deficiencies presented by the most recent traffic records assessment are also included in the plan noting which recommendations have been addressed by the State. Projects that address those deficiencies or which promise to substantially improve an aspect of data quality should be considered and solicited from State and local agencies who collect, manage, or use the data. The current status of each project addressing all of the noted deficiencies is also included in the Strategic Plan.

Respondents 1 Responses 1 Response 1 assigned 1 received 1 rate	00%
--	-----

#### Question 22:

Does the TRCC strategic plan identify strategies that address the timeliness, accuracy, completeness, uniformity, integration, and accessibility of the six core data systems?

#### Standard of Evidence:

Identify, with appropriate citations, how the strategic plan identifies strategies that address the timeliness, accuracy, completeness, uniformity, integration, and accessibility of the six core data systems.

Question Rank: Very Important

#### Assessor conclusions:

Any grant application which seeks 405c funding should outline the improvements to be made in the data by virtue of the project and should set forth performance measures that will ensure that the project is successful. While each project should have a plan and milestones for its completion, these performance measures should be separate and should address the results of the completion and implementation of the program or project that is proposed. For example, a grant request for electronic citation software should be able to: improve timeliness of citation arrival at courts; reduce officer time at the roadside; increase accuracy due to drop-down menus or GPS determination of the location of the stop; improve completeness or ability to determine system completeness due to centralized citation numbering; improve integration from ability to link from the citation system to the court case management system; or improve accessibility due to the direct input of the citation data into the case management systems, to name a few. These are the types of performance measures that should accompany each grant proposal as it outlines how the proposed project will improve the data upon which the State relies for its data-driven traffic safety initiatives.

Respondents assigned	1	Responses received	1	Response rate	100%	
-------------------------	---	-----------------------	---	------------------	------	--



#### Question 23:

Does the TRCC strategic plan indicate what funds are used to undertake efforts detailed in the plan and describe how these allocations contribute to the plan's stated goals?

#### Standard of Evidence:

Identify, with appropriate citations, how efforts detailed in the plan are funded and explain how these allocations address the plan's stated goals as specified in the strategic plan.

# **Question Rank:** Very Important

**Question Rank:** 

Very Important

#### Assessor conclusions:

The State details what funds are budgeted for each project and how the funds are used to complete the project. If local or other funds are used within the same project, this is noted in the progress reports. It is important to outline all funding used for traffic records projects, including funding other than 405c grant funds. It provides a record of the cost of traffic records improvements in the State and allows for an evaluation of return on investment if the improved records allow for improved engineering or education or more effective enforcement, based on data-driven countermeasure development.

Respondents 1 Responses assigned 1 received	1 Response rate	100%
---	--------------------	------

#### Question 24:

Does the TRCC have a process for prioritizing traffic records improvement projects in the TRCC strategic plan?

#### Standard of Evidence:

Identify, with appropriate citations, how the TRCC prioritizes traffic records improvement projects as specified in the strategic plan.

#### Assessor conclusions:

The TRCC prioritizes the State's data projects by major systems first, then other interfacing and local data improvement requests. Developing a standardized method of reviewing and selecting projects helps to insure that funding is used most effectively. A standardized method of prioritization involving risk-assessment, cost/benefit, multi-attribute ranking, or something similar would ensure a transparent and uniform methodology.

Respondents assigned	1	Responses received	1	Response rate	100%	
-------------------------	---	-----------------------	---	------------------	------	--



# **Question 25:**

Does the TRCC have a process for identifying performance measures and corresponding metrics for the six core data systems in the TRCC strategic plan?

# Standard of Evidence:

Identify, with appropriate citations, how the TRCC identifies performance measures and any corresponding metrics for each of the six core data systems as specified in the strategic plan.

Question Rank: Very Important

Question Rank:

Somewhat Important

#### Assessor conclusions:

Performance measures are selected for each grant-funded project depending on which aspect of data the grant activity is deemed to be impacting. However, the State has not provided information on how the metrics are developed and how goals are set as systems improve.

Respondents	1 Responses	1 Response	100%
assigned	received	rate	

Qı	uestior	า 26:

Does the TRCC have a process for identifying and addressing technical assistance and training needs in the TRCC strategic plan?

#### Standard of Evidence:

Identify, with appropriate citations, how the TRCC identifies and addresses technical assistance and training needs as specified in the strategic plan.

# Assessor conclusions:

The TRCC provides training when necessary; an example being that training is being provided by the municipal courts from in-house technical trainers. There is also training provided to law enforcement officers for the proper entry of traffic reports..

# Question 27:<br/>Does the TRCC have a process for leveraging federal funds and assistance<br/>programs in the TRCC strategic plan?Image: Comparison of the trace o

While the State does not have a specific strategy for leveraging federal funds, it does require some grant recipients to find partial funding from other federal or State sources as they are able. Having a subcommittee of the TRCC which reviews and reports on available federal funding opportunities might be an effective first step in ensuring that funding opportunities are maximally utilized.

The State might also include data improvement programs such as the Crash Data Improvement Program or the Roadway Data Improvement Program in the Strategic Plan if the State feels they would be beneficial.

Respondents	Responses	1 Response	100%
assigned	received	rate	

# **Question 28:**

Does the TRCC have a process for establishing timelines and responsibilities for projects in the TRCC strategic plan?

# Standard of Evidence:

Identify, with appropriate citations, how the TRCC establishes timelines and responsibilities for projects in the plan. Question Rank: Very Important

# Assessor conclusions:

Project progress is reviewed by the TRCC at least annually and the projects adopted include timelines and milestones.

Respondents 1 Responses assigned 1 received	1 .	100%
--	-----	------

# **Question 29:**

Does the TRCC have a process for integrating State and local data needs and goals into the TRCC strategic plan?

### Standard of Evidence:

Identify, with appropriate citations, how the TRCC integrates State and local data needs and goals into the TRCC strategic plan.

#### Assessor conclusions:

The State specifically reviews requests for funding from local agencies. However, it is not clear how local data users are heard from. The TRCC should make every effort to ensure users from whatever level of government agency are heard in terms of their data needs. The cost of data collection and analysis is too high unless the data is used to its maximum potential for purposes of improving highway safety.

Respondents assigned	1	Responses received	1	Response rate	100%
Question 30: Does the TRCC cons managing traffic record		•		eveloping and	
Standard of Evidence	e:				
Identify, with appropri whose development in technology.					Question Rank: Somewhat Important
Assessor conclusio	ns:				
The State has include was to provide tablet data more accurately	computer	s for all local agenc	ies allowir	ng them to submit	t electronic EMS

Respondents assigned	1	Responses received	1	Response rate	100%	
-------------------------	---	-----------------------	---	------------------	------	--



**Question Rank:** 

#### Question 31:

Does the TRCC consider lifecycle costs in implementing improvement projects?

#### Standard of Evidence:

Identify, with appropriate citations, a project or projects in the strategic plan whose development included consideration of lifecycle costs. Question Rank: Somewhat Important

**Question Rank:** 

Somewhat Important

#### Assessor conclusions:

While lifecycle costs were not fully considered in the initial field data collection software, experience has changed the State's perspective to a more forward-thinking approach. It is difficult to turn down much needed technological advancements when funding is immediately available. However, maintenance and hardware replacement, as well as software updates are expensive aspects of any such project. After experiencing difficulties with updating software in individual units, the State worked to provide a new approach that did not require the individual service that the original program required. The Strategic Plan does not address the need to consider on-going costs for all projects to prevent having to abandon a project or procedure due to lack of on-going funding.

Respondents 1 Responses 1 assigned received	1 Response rate	100%
--	--------------------	------

#### Question 32:

Is the strategic plan responsive to the needs of all stakeholders, including local users?

# Standard of Evidence:

Identify, with appropriate citations, specific instances demonstrating that local stakeholder needs are incorporated into the TRCC's strategic plan.

#### Assessor conclusions:

Local users are able to request funds to add or upgrade systems to allow them to better supply the traffic records data needed by an effective TRCC.

Respondents assigned1Responses receivedResponse rate	100%
---	------

# **Question 33:**

Does the strategic plan make provisions for coordination with key federal traffic records data systems?

### Standard of Evidence:

Provide a narrative demonstrating how the strategic plan coordinates with key federal traffic records data systems. Provide citations from the strategic plan if appropriate.

#### Assessor conclusions:

Coordination with federal data systems is considered by the State and such coordination has been the source of several projects over the last few years. State data systems transfer data to the federal systems, such as FARS. This data is monitored for timeliness and accuracy through reports submitted to the TRCC on a regular basis and updated in the Strategic Plan.

Respondents assigned	1	Responses received	1	Response rate	100%
Question 34:					
Does the TRCC hav to coordination with					
Standard of Eviden	ice:				
Provide a narrative of address impediment systems. Provide cit	s to coordi	nation with key Fed	eral traffic	records data	Question Rank: Very Important
Assessor conclusion	ons:				
It appears that the S discussion during TF reporting would help systems are address	RCC meetir to prevent	ngs. Perhaps additio	onal focus/	measures regard	ling federal system

Respondents assigned	1	Responses received	1	Response rate	100%	
-------------------------	---	--------------------	---	------------------	------	--



**Question Rank:** 

Somewhat

Important

Question 35:				
Is the TRCC's strategic p	plan reviewed and	d updated annua	ally?	
Standard of Evidence:				
Provide a narrative detail reviews and updates. Ide review process. Provide	entify the stakeho	lder agencies re	epresented in the	Question Rank: Very Important
Assessor conclusions:				
The Traffic Records Strate executive TRCC and is support to date.				
Respondents assigned	1 Respo rece	nses 1 eived 1	Response rate	100%

# Crash

The Missouri State Highway Patrol (MSHP) is the primary custodian of the State's crash data system called the Statewide Traffic Accident Records System (STARS), which is a component of the Missouri Department of Transportation's Transportation Management System (TMS). The State's Revised Statute 43.250 specifies the requirements for law enforcement officers who investigate a crash resulting in a fatal, injury, or PDO (damages to property in excess of \$500) to submit the crash information to the State. While the State does not require crash reports for crashes occurring in non-trafficways, Missouri does collect limited crash, driver, and person information for non-trafficway crashes.

Missouri does a great job of utilizing the crash data to identify crash risk factors, guide engineering projects, prioritize law enforcement activities, and evaluate safety countermeasure programs. The crash data is used extensively to help identify roadway segments in need of improvements. This can be seen in the "high severity" crash lists, "top horizontal curves" list, top intersections list, and top pedestrian corridors list. The data is also used to guide engineering and construction projects. By identifying roadway sections which are over-represented with serious crashes, the State has successful installed such countermeasures as rumble strips, median guard cable, chevrons, painted edge-lines, and j-turns to help decrease the number of crash-related serious injuries and fatalities. Lastly, the Missouri State Highway Patrol Troops routinely utilize the crash data to allocate manpower and develop enforcement activities.

In 2010/2011, the STARS team considered both MMUCC and ANSI standards when evaluating their crash data report and crash system data dictionary. While ANSI D-16 was used, ANSI D-20 was not considered at that time. The State should consider reviewing their crash report and data dictionary again using the new ANSI D-20 standards. The 2012 Missouri Uniform Crash Report (MUCR) Preparation Manual and the 2012 MUCR Field Specification document together do a good job of defining each data element, field edits, valid codes, and validation rules. However, these documents do not address elements populated through data linkages with other systems. Adding this information to the current documents would be beneficial. Identifying and documenting elements populated through linkages would help stakeholders' understanding of each data element and how the values are being derived. The State is commended for creating these documents and for developing processes used to keep these documents up-to-date.

As of December 2015, the State does not know which agencies were collecting crash data electronically and does not have a desire to achieve 100% electronic crash data collection. However, the Missouri State Highway Patrol does maintain a list of law enforcement agencies reporting electronically and how many reports are reported electronically or via paper. It is strongly recommended that the State strive to increase the number of crash reports collected and submitted electronically. To help accomplish this, a survey could be conducted through the Traffic Records Coordinating Committee (TRCC) to determine if agencies are currently collecting and submitting crash data electronically and if not, why. The results of this survey can aid in identifying roadblocks for agencies and the State. Identifying these issues and assisting agencies in overcoming identified roadblocks will pave the way for improved crash data collection within the areas of timeliness, completeness, accuracy, and uniformity.

At the present time, the State's crash system has an interface with the driver and vehicle data systems. Local law enforcement agencies and the Missouri State Highway Patrol have the ability to access driver and vehicle information via the Department of Revenue. Given a driver license number and/or a vehicle license plate number, an officer can populate the driver and/or vehicle information on the crash report. These processes help verify and validate information, as well as assist in identifying any inconsistencies in the data. The State is commended for their work in this area. However, there was no discussion of accessing the driver and/or vehicle record itself. This is something that should be considered, if not already in place. Having the ability to access a driver's record to determine the driver's previous crash involvements can assist an officer in their investigation. Likewise, accessing a vehicle's record can assist identifying if a car is stolen.

While the crash data may not directly interface with the roadway system, it does link with the roadway system. The State is doing excellent work in this area and can link crash data with the roadway inventory, sign inventory, rumble strip inventory, and traffic volumes data. This linkage was instrumental in the creation of the Transportation Management System (TMS) and allows the State to perform robust analyses of the data. The State should continue to strive to develop linkages with the citation & adjudication and injury surveillance systems. Having these systems integrated with the crash data will allow for more accurate data, enhanced data analysis, and benefit all stakeholders. The TRCC can be an effective resource in pushing data linkage forward by identifying the appropriate personnel, assisting with resources, and explaining the importance/benefits of data integration.

Currently, Missouri does not have any crash data performance measures. It is highly recommended that the State review the NHTSA proposed performance measures and consider the creation of multiple crash system performance measures. Without system wide measurements of performance, there is no goal for data custodians to strive for and no means of measuring success/failure of projects. Since the Missouri State Highway Patrol houses the crash data, they should consider the creation of timeliness performance measures such as overall reporting days or percentage of reports received within 30 days of the crash. This should be performed at the State level for all reports. As the State increases electronic reporting, these performance measures will help document and demonstrate the State's success. Completeness and uniformity performance measures should also be created. Since the State has crash interfaces with the driver and vehicle systems, examples of a possible completeness measures could be percentage of reports with no missing driver or vehicle information.

Data quality is a very important aspect of crash data collection, evaluation, and reporting. Paper reports are manually entered into STARS and the Records Division has the authority to correct obvious errors, except for crash reports created by the Missouri State Highway Patrol (MSHP). These reports are returned to MSHP via an inter-agency electronic workflow process for correction. The State is doing a great job of capturing and documenting common errors in need of correction. They are also using this information to update training content and data collection manuals. The State should use the information collected within these processes to create an accuracy performance measure.

While Missouri seems to have a good foundation for the development of robust crash data quality processes, they should strive to capitalize more in this area. For example, a data quality project to be considered is performing independent random quality review audits on an agency basis. Random quality review audits could be implemented by randomly selecting X% of fatal reports, Y% of injury reports, and Z% of PDO reports at an agency level and reviewing the selected

reports for data quality issues. This process will help the State increase the data accuracy and assist with improving training content. It will also assist Missouri in distributing error reports and developing tailored data quality training at an agency level. All of which will help increase data accuracy over time.

Lastly, data quality information should be shared and discussed more with key stakeholders and the TRCC. While the State is communicating data quality feedback to data collectors on occasion, they should strive to provide this communication on a regular basis. They are also strongly encouraged to consider getting the TRCC involved in data quality management. Having data quality topics discussions at TRCC meetings opens the opportunity for the TRCC to fulfill its roles in overseeing and advising on data quality improvement projects and fulfilling their role in Strategic Planning.

#### **Question 36:**

Is statewide crash data consolidated into one database?

#### Standard of Evidence:

Provide a description of the statewide database and specify how the data is consolidated. Question Rank: Somewhat

#### Assessor conclusions:

Within Missouri, the crash data is consolidated into the Statewide Traffic Accident Records System (STARS) database.

Respondents assigned1Responses received1Response rate	100%
--	------

#### **Question 37:**

Is the statewide crash system's organizational custodian clearly defined?

#### Standard of Evidence:

Identify what agency has the custodial responsibility for the statewide crash system, detail the extent of the agency's role, and provide all relevant statutes.

#### Assessor conclusions:

A Memorandum of Understanding between the Missouri Highways and Transportation Commission and the Missouri State Highway Patrol (MSHP) clearly identifies the MSHP as the custodian of the State's crash database.

Respondents Respon	nses 1 Response 100%
assigned rece	eived rate 100%



Important



**Question Rank:** 

#### Question 38: Does the State have criteria requiring the submission of fatal crashes to the statewide crash system? Standard of Evidence: **Question Rank:** Provide the fatal crash inclusion criteria for the statewide crash system. Very Important Assessor conclusions: Section 43.250 of the Revised Statutes of Missouri requires submission of fatal crashes to the Statewide crash system. Respondents Responses Response 1 1 100% assigned received rate Question 39: Does the State have criteria requiring the submission of injury crashes to the statewide crash system? Standard of Evidence: Provide the injury crash inclusion criteria for the statewide crash system. **Question Rank:** Very Important Assessor conclusions: Section 43.250 of the Revised Statutes of Missouri requires submission of injury crashes to the Statewide crash system. Respondents Responses Response 100% 1 1 assigned received rate Question 40: Does the State have criteria requiring the submission of PDO crashes to the statewide crash system? Standard of Evidence: Question Rank: Provide the PDO crash submission criteria for the statewide crash system. Very Important Assessor conclusions: Section 43.250 of the Revised Statutes of Missouri requires submission of PDO crashes to the Statewide crash system. PDO crashes within Missouri are defined as total property damage to an apparent extent of five hundred dollars or more to one person. Respondents Responses Response 1 1 100% assigned received

rate

# Question 41:

Does the statewide crash system record crashes occurring in non-trafficway areas (e.g., parking lots, driveways)?

#### Standard of Evidence:

Provide the non-trafficway reporting criteria for the statewide crash system.

#### Assessor conclusions:

While there are no documented criteria for non-trafficway areas, the State does collect limited crash, driver, and person information which is entered into their crash database for non-traffic crashes.

Respondents assigned	1	Responses received	1	Response rate	100%
Question 42: Is data from the cras	h system	used to identify cras	sh risk fact	ors?	
Standard of Eviden	ce:				
Provide example rep features, behaviors, relate to crash risk. If relevant page numbe	driver cha referenci	racteristics, or vehic	cle charact	eristics as they	Question Rank: Very Important
Assessor conclusions: The State does utilize their crash data to identify crash risk factors. This can be seen by the identification of "high severity" crash lists, "top horizontal curves" list, roadways that are over-represented by most severe crash types, top intersections, and top pedestrian corridors as identified within the State's SHSP.					
Respondents assigned	1	Responses received	1	Response rate	100%

Question Rank:

Somewhat

Important

### **Question 43:**

Is data from the crash system used to guide engineering and construction projects?

#### Standard of Evidence:

Describe the State's network screening and countermeasure selection processes. Describe how construction projects are funded based on the analysis of crash data. If referencing large documents like the SHSP, please view relevant page numbers.

# Assessor conclusions:

The State provided ample examples of how the crash system is used to guide engineering and construction projects. Those examples included rumble strips, guard cable, and j-turns.

Respondents assigned	1	Responses received	1	Response rate	100%
Question 44:					

Is data from the crash system regularly used to prioritize law enforcement activity?

# Standard of Evidence:

Provide a sample location-based analysis and any associated law enforcement activities. If a State DDACTS program exists, provide details.

# Assessor conclusions:

The reports created from Statewide Traffic Enforcement Program (STEP manual) are used by MHSP troops and zones to determine areas where there is an increased incidence of crashes. These reports can also be used by the State to show numbers of crashes involving fatalities, personal injury, involvement of alcohol/speed/following too closely, breakdown by type of highway/time of day/day of week/CMV involvement/etc.

Respondents assigned	1	Responses received	1	Response rate	100%	
-------------------------	---	--------------------	---	------------------	------	--



Question Rank: Very Important

**Question Rank:** 

# Question 45:

Is data from the crash system used to evaluate safety countermeasure programs?

# Standard of Evidence:

Describe how crash data is used to evaluate safety countermeasure programs. If referencing large documents like the SHSP, HSP, or Crash Facts, please cite relevant page numbers.

#### Assessor conclusions:

The State has multiple strategies in place to reduce injury and fatality rates. Examples of such strategies include reducing alcohol/drug impairment, aggressive/hazardous driving, and increasing seat belt usage as identified within the Missouri State Highway Patrol's Strategic Plan.

Respondents assigned	1	Responses received	1	Response rate	100%
Question 46:					
Is MMUCC a primary se attributes the State coll		or identifying what c	rash data (	elements and	
Standard of Evidence	:				
Provide a narrative des identify what crash data database and on the Po	a eleme	ents and attributes a	re included		Question Rank: Very Important
Assessor conclusions					
During their last revision of the crash report, in 2010/2011, the State used the Third Edition of MMUCC to discuss and vote on various MMUCC data elements and attributes which were not previously identified within their crash report and STARS database.					
Respondents		Responses		Response	

Respondents	1 Responses	1 Response	100%
assigned	received	rate	



**Question Rank:** 

Question 47:					
Are the ANSI D-16 ar crash system data did		-20 used as source	es for the d	efinitions in the	
Standard of Evidend	ce:				
Provide a narrative de D-20 were used to de and user manual.					Question Rank: Somewhat Important
Assessor conclusion State identifies extension incorporated within the patrol records person	sive use o le crash m	anual and the State	e's annual t	raining sessions	
Respondents assigned	1	Responses received	1	Response	100%
uccignou				Tuto	
Question 48:					
		le a definition for ea	ach data ele		
Question 48: Does the data diction	ent's allow	le a definition for ea	ach data ele		
Question 48: Does the data diction define that data elem	ent's allow	le a definition for eavable values?			Question Rank: Very Important
Question 48: Does the data diction define that data elem Standard of Evidence	ent's allow ce: crash sys ons: crash Re crash rep	le a definition for ea vable values? stem data dictionary eport (MUCR) Prep port and in STARS.	/. aration Ma	ement and nual provides a o	Very Important definition of data

# **Question 49:**

Does the data dictionary document the system edit checks and validation rules?

# Standard of Evidence:

Provide a copy of the crash system data dictionary. If the crash system edit checks and validation rules are documented elsewhere, provide the appropriate document.

### Assessor conclusions:

The State has documentation outlining the crash database system, crash form, allowable values, and functional edits.

Respondents assigned		sponses received	1	Response rate	100%
-------------------------	--	---------------------	---	------------------	------

# **Question 50:**

Is the data dictionary up to date and consistent with the field data collection manual, coding manual, crash report, and any training materials?

### Standard of Evidence:

Describe the processes to update the crash system's data dictionary, field data collection manual, coding manual, crash report, and training manuals. Specify which of the documents exist and describe processes to keep them consistent with each other.

#### Assessor conclusions:

The State routinely updates their data dictionary and ensures it is consistent with the field data collection manual, coding manual, crash report, and any training materials.

Respondents	1 Responses ,	1 Response	100%
assigned	received	rate	



Question Rank: Somewhat Important

**Question Rank:** 

Question 51: Does the crash syst through links to othe Standard of Evider	er traffic rec	2		nents populated	
Provide a list of data through linkages to file, the vehicle file, the	other traffic the roadwa	records system co	mponents	(e.g., the driver	Question Rank: Somewhat Important
Assessor conclusi The State's crash sy linkages with other t	vstem data			lata elements por	oulated through
Respondents assigned	1	Responses received	1	Response rate	100%
Question 52					
Question 52: Do all law enforcem	ent agencie	es collect crash data	a electroni	cally?	
	·	es collect crash data	a electroni	cally?	
Do all law enforcem	nce:	encies and specify	their data	collection	Question Rank: Somewhat Important
Do all law enforcem <b>Standard of Evider</b> Provide a list of all re- methods. Specify and collection. <b>Assessor conclusi</b>	nce: eporting ag by State pla ons:	encies and specify Ins for achieving 10	their data 0% electro	collection onic in-field data	Somewhat Important
Do all law enforcem <b>Standard of Evider</b> Provide a list of all re methods. Specify an collection.	eporting ag by State pla ons: police agen	encies and specify ins for achieving 10 cies use electronic	their data 0% electro data colleo	collection onic in-field data ction. No formal p	Somewhat Important blan exists for

# **Question 53:**

Do all law enforcement agencies submit their data to the statewide crash system electronically?

#### Standard of Evidence:



Describe—using a narrative or flow diagram—all data submission processes used to transmit data from collecting agencies to the statewide crash data system. Include the percentage of total data submitted for each specified method. Question Rank: Very Important

# Assessor conclusions:

While not all law enforcement agencies submit their data to the Statewide crash system electronically, some do utilize electronic submission.

Respondents assigned	1	Responses received	1	Response rate	100%
Question 54:					

Do all law enforcement agencies collecting crash data electronically apply validation rules that are consistent with those in the statewide crash system prior to submission?

#### Standard of Evidence:

Describe the validation processes used by the collecting agencies. Specify if the validation rules are applied to the data prior to submission to the statewide crash system. Include, in the description, how the validation rules are distributed to the collecting agencies and how the State checks the submitted data for consistency to rules in the statewide crash system.

#### Assessor conclusions:

The State is uncertain of validation rules relating to crash data collection in the field.

Respondents	Responses	1 Response	100%
assigned	received	rate	

Question 55: Does the State maintai policies and procedure reporting, and posting data to the State FARS	s for key of crash	y processes governir data—including the	ng the coll submissio	ection, on of fatal crash	
Standard of Evidence Provide a process flow documenting key proce of crash data—includir unit and commercial ve	diagran esses go ng the su	overning the collection ubmission of fatal cra	n, reporti	ng, and posting	Question Rank: Very Important
Assessor conclusion The State maintains da SafetyNet processes.	-	s of the different cras	h report ty	ypes, including th	e FARS and
Respondents assigned	1	Responses received	1	Response rate	100%
Question 56: Are the processes for a Standard of Evidence	· ·	ng errors and incomp	lete data	documented?	
Provide a process flow documenting the proce					Question Rank: Very Important
Assessor conclusion The State has a detaile flow diagrams outlining	ed proce		rs and inc	complete data and	d maintains data
Respondents		Responses	1	Response	100%

# **Question 57:**

Do the document retention and archival storage policies meet the needs of safety engineers and other users with a legitimate need for long-term access to the crash data reports?

#### Standard of Evidence:

Provide a copy of the retention policy.

#### Assessor conclusions:

Crash records are not removed from the database and date back to 1987. Crash report images exist from 1997 to present, and prior to 1997 they exist on microfilm.

Respondents 1 Responses assigned 1 received	1 Response rate	100%
--	--------------------	------

#### **Question 58:**

Does the crash system interface with the driver system?

#### Standard of Evidence:

Provide narrative description of the crash-to-driver system interfaces that enable: verification and validation of the driver's personal information, access to driver records, identification of inconsistencies between the crash and driver records, and/or identification of the driver's prior crash involvement?

#### Assessor conclusions:

Local law enforcement agencies and the Missouri State Highway Patrol have the ability to input a driver's license number and populate the driver information on the crash report via an interface with DOR. This interface allows for verification and validation of the driver's personal information as well as identification of inconsistencies between the crash and driver records. However, there is no mention of the information helping with access to driver records, identification of inconsistencies between the crash and/or identification of the driver's prior crash involvement.

Respondents 2 assigned	Responses received	2 Resp	oonse 100% rate 100%	
---------------------------	-----------------------	--------	-------------------------	--

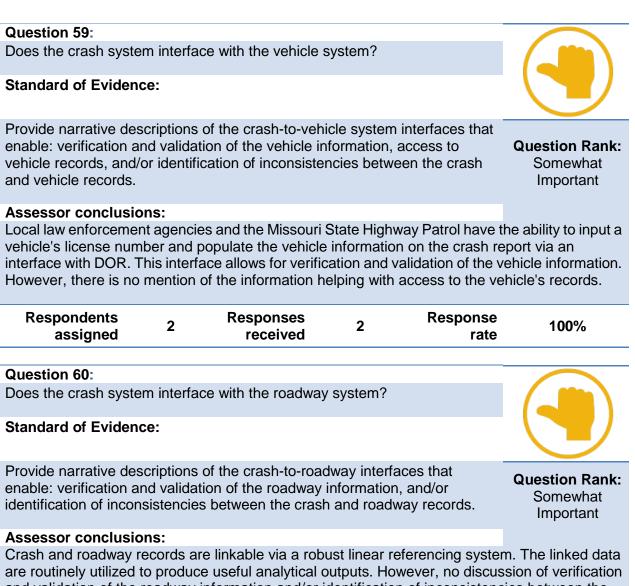


Question Rank: Somewhat Important

**Question Rank:** 

Somewhat

Important



are routinely utilized to produce useful analytical outputs. However, no discussion of verification and validation of the roadway information and/or identification of inconsistencies between the crash and roadway records were provided, though this might be considered an obvious conclusion.

#### Question 61: Does the crash system interface with the citation and adjudication systems? Standard of Evidence: Provide narrative descriptions of the crash-to-citation and -adjudication interfaces that enable: verification and validation of citations and/or alcohol **Question Rank:** or drug test information in the crash record; identification of any Somewhat inconsistencies between crash and citation records; and access to criminal Important history, contact history, and location history. Assessor conclusions: Within the State, the crash system does not interface with the citation and adjudication system. Respondents Responses Response 1 1 100% assigned received rate Question 62: Does the crash system interface with the injury surveillance system? Standard of Evidence: Provide narrative descriptions of the crash-to-injury surveillance interfaces **Question Rank:** that enable: verification and validation of EMS information, and identification Somewhat of inconsistencies between crash and EMS records. Important Assessor conclusions:

Within the State, the crash system does not interface with the injury surveillance system. However, Missouri's Fatality Analysis Reporting System (FARS) Analyst does have access to the Missouri Department of Health and Senior Services EMS System and Missouri Patient Registry System.

Respondents1Responses1Response1assigned1received1rate1	100%
--	------

Very Important

#### **Question 63:**

Are there automated edit checks and validation rules to ensure that entered data falls within a range of acceptable values and is logically consistent among data elements?

# Standard of Evidence:

Provide the formal methodology or describe the process by which automated edit checks or validation rules ensure entered data falls within the range of **Question Rank:** acceptable values and is logically consistent between fields.

#### Assessor conclusions:

The State has automated edit checks and validation rules to ensure that entered data falls within a range of acceptable values and is logically consistent among data elements.

Respondents assigned	1	Responses received	1	Response rate	100%
Question 64:					
Is limited state-level working with the stat omissions without re	ewide cras turning the	sh database to ame	nd obvious	s errors and	
Standard of Eviden		1 11 41			
Provide the formal m state-level correction the statewide crash o	authority				Question Rank: Somewhat Important
Assessor conclusion	ons:				
Quality control staff i enforcement agencie from Missouri State I	es. Howeve	er, they do not have			
Respondents assigned	1	Responses received	1	Response rate	100%

# Question 65:

Are there formally documented processes for returning rejected crash reports to the originating officer and tracking resubmission of the report in place?

# Standard of Evidence:

Provide the formal m crash reports are ret the statewide crash	Question Rank: Very Important				
Assessor conclusion		a process for return	ing roject	od crach roporte	to the originating
They State does hav officer and tracking r	-	•	ing rejecti		
Respondents assigned	1	Responses received	1	Response rate	100%
0					
<b>Question 66:</b> Are there timeliness	nerformar	nce measures tailore	d to the n	ends of data	
managers and data	•				
Standard of Eviden	ce:				
Provide a complete I including the most co		•			Question Rank: Very Important
Assessor conclusion	ons:				
There are no timeline users within the Stat		mance measures tail	ored to the	e needs of data n	nanagers and data

Respondents assigned	1	Responses received	1	Response rate	100%	
-------------------------	---	-----------------------	---	------------------	------	--

#### Question 67: Are there accuracy performance measures tailored to the needs of data managers and data users? Standard of Evidence: Provide a complete list of crash system accuracy measures the State uses, **Question Rank:** including the most current baseline and actual values for each. Very Important Assessor conclusions: There are no accuracy performance measures tailored to the needs of data managers and data users within the State. Respondents Responses Response 1 1 100% assigned received rate **Question 68:** Are there completeness performance measures tailored to the needs of data managers and data users? Standard of Evidence: Provide a complete list of crash system completeness measures the State **Question Rank:** uses, including the most current baseline and actual values for each. Very Important Assessor conclusions: There are no completeness performance measures tailored to the needs of data managers and data users within the State. Respondents Responses Response 1 1 100% assigned received rate

# **Question 69:**

Are there uniformity performance measures tailored to the needs of data managers and data users?

# Standard of Evidence:

Provide a complete list of crash system uniformity measures the State uses, including the most current baseline and actual values for each.

#### Assessor conclusions:

There are no uniformity performance measures tailored to the needs of data managers and data users within the State. However, all crash reports submitted to the State must match the format of the Missouri Uniform Crash Report form.

Respondents assigned	1	Responses received	1	Response rate	100%
<b>Question 70</b> : Are there integration	performa	nce measures tailor	ed to the n	eeds of data	
managers and data u Standard of Evidence	sers?				
Provide a complete lis including the most cu		, ,			Question Rank: Very Important
Assessor conclusio There are no integrati users within the State	on perfor	mance measures ta	ilored to the	e needs of data m	anagers and data
Respondents assigned	1	Responses received	1	Response rate	100%



**Question Rank:** 

Very Important

#### Question 71: Are there accessibility performance measures tailored to the needs of data managers and data users? Standard of Evidence: Provide a complete list of crash system accessibility measures the State **Question Rank:** uses, including the most current baseline and actual values for each. Somewhat Important Assessor conclusions: There are no accessibility performance measures tailored to the needs of data managers and data users within the State. Respondents Responses Response 1 100% 1 assigned received rate **Question 72:** Has the state established numeric goals-performance metrics-for each performance measure? Standard of Evidence: Provide the specific, State-determined numeric goals associated with each **Question Rank:** performance measure in use. Very Important Assessor conclusions: Established numeric goals—performance metrics—have not been created since the State does not have any defined performance measures at this time. Respondents Responses Response 1 1 100% assigned received rate Question 73: Is there performance reporting that provides specific timeliness, accuracy, and completeness feedback to each law enforcement agency? Standard of Evidence: Provide a sample report, list of receiving law enforcement agencies, and **Question Rank:** specify the frequency of issuance. Very Important Assessor conclusions: There are no performance reports that provide informative feedback generated or distributed to each law enforcement agency within the State. Respondents Responses Response 1 100% 1 assigned received rate

#### Question 74:

Is the detection of high frequency errors used to generate updates to training content and data collection manuals, update the validation rules, and prompt form revisions?

#### Standard of Evidence:

Provide the formal methodology or describe the process by which high frequency errors are used to generate new training content and data collection manuals, update the validation rules, and prompt form revisions.

#### Assessor conclusions:

In Missouri, high frequency crash reporting errors are monitored by the Missouri State Highway Patrol Information and Communication Technology Division to assess, in conjunction with the Patrol Records Division, various validation rules/edits. Also, the Patrol Records Division assesses reports being returned to officers for correction and makes modifications to annual training of Missouri law enforcement personnel.

Respondents assigned	1	Responses received	1	Response rate	100%

# **Question 75:**

Are quality control reviews comparing the narrative, diagram, and coded contents of the report considered part of the statewide crash database's data acceptance process?

#### Standard of Evidence:

Provide the formal methodology or describe the process by which quality control reviews comparing the narrative, diagram, and coded contents of the report are considered part of the statewide crash database's data acceptance process.

Question Rank: Somewhat Important

#### Assessor conclusions:

Within Missouri, a review of each crash report narrative, diagram, and coded contents is completed during the quality control phase. Some of the things Q/C analysts are checking include: crash classifications such as crash type and on/off roadway, sequence of events, crash location, number of lanes, directional analysis, roadway characteristics, trafficway type, intersection type if applicable, traffic control, fixed object codes, etc.

Respondents 1 Responses assigned 1 received	1 Response rate	100%
---	--------------------	------



**Question Rank:** 

Very Important

Question 76:					
Are independent sam reports and related da			conducted	for crash	
Standard of Evidence	ce:				
Describe the formal a output, and specify the			sample rep	ort or other	Question Rank: Somewhat Important
Assessor conclusio	ns:				mportant
There are no indeper related database con		ole-based audits p	eriodically c	conducted for cra	ash reports and
Respondents assigned	1	Responses received	1	Response rate	100%
Question 77:					$\frown$
Question 77: Are periodic compara differences in the data		2		unexplained	
Are periodic compara	a across y	2		unexplained	
Are periodic compara differences in the data	a across y <b>ce:</b> s, provide	ears and jurisdiction	ons?		Question Rank: Very Important
Are periodic compara differences in the data Standard of Evidence Describe the analyse	a across y <b>ce:</b> s, provide icy.	ears and jurisdiction	ons?		
Are periodic compara differences in the data <b>Standard of Evidend</b> Describe the analyse the analyses' frequen	a across y <b>ce:</b> s, provide cy. <b>ns:</b> rm periodic	ears and jurisdiction a sample report of c comparative and	ons? • other outp trend analys	ut, and specify	Very Important

# Question 78:

Is data quality feedback from key users regularly communicated to data collectors and data managers?

#### Standard of Evidence:

Describe the process for transmitting and utilizing key users' data quality feedback to inform changes.

#### Assessor conclusions:

The Missouri Department of Transportation (MoDOT) on occasion will question crash data that they are analyzing. However, this process does not seem to occur on a regular basis and does not seem to be a formal process.

Respondents assigned	1	Responses received	1	Response rate	100%
Question 79:					
Are data quality mana review?	agement	reports provided to t	he TRCC	for regular	
Standard of Evidend	e:				
Provide a sample qua they are issued to the		agement report and	specify ho	w frequently	Question Rank: Very Important
Assessor conclusio	ns:				
Data quality manager	ment repo	orts are not provided	l to the TR	CC for regular re	view.
Respondents assigned	1	Responses received	1	Response rate	100%



Somewhat Important

# Vehicle

As the centralized custodial agency, the Motor Vehicle Bureau in the Motor Vehicle and Driver Licensing Division within the Missouri Department of Revenue is responsible for the contents of the vehicle data system and for the identification and ownership of vehicles registered in the State. While the agency does use a barcode on the vehicle registration receipt, it is only a 128 barcode and only used to retrieve the registration sub-transaction number on a transactional system. An opportunity exists to consider adopting the use of, at least, a minimum 2D standard barcode that could be used internally and would also allow the rapid and accurate collection of vehicle information by law enforcement officers in the field using barcode readers or scanners.

When it comes to guidelines for the vehicle data system, Missouri generally meets the Advisory ideals with one major exception. Using AAMVA recommended title brands or those received through the National Motor Vehicle Title Information System (NMVTIS) is critical to ensure that a vehicle's history is accurately documented between States for consumer information and safety. Consideration should be given to change the practice of converting those brands to anything other than the AAMVA or NMVTIS title brands in the vehicle data system.

Within the vehicle legacy mainframe-based system, a data dictionary is in place that contains documented definitions for each data field. However, in the documentation entitled 'TRIPS Title Validation/Edits,' no registration-specific edit checks were included. This does provide an opportunity to include references to tag, plate, license, or other registration-specific information.

Missouri procedures and process flows for the vehicle data system are generally in line with Advisory; however, stolen vehicle information is not retained or flagged in the title or registration system. While all stolen vehicle data is retained by the Missouri State Highway Patrol (MSHP) and reportedly all title applications are run through the MSHP prior to issuance, it would appear that it may still be possible for the issuance of a title without checking with the MSHP. As the title and registration systems are updated, consideration should be given to including stolen vehicle flags in the title and/or registration system with the assistance of MSHP, including a possible data linkage.

Being able to interface the vehicle data system with other components only enhances data quality and supports the vehicle system's critical business processes. Currently, the driver and vehicle systems are not unified and do not use the same personal information which prevents the ability to match driver and vehicle information with confidence. Consideration of a unified system utilizing the same personal information conventions would provide better analytic capabilities to increase data accuracy and improve data linkage possibilities.

The data quality control programs for the vehicle data system represent a management program's review protocols covering the entire process. Opportunities exist to improve the use of vehicle system quality control measurements. Implementing timeliness, accuracy, completeness, uniformity, integration, and accessibility measures would significantly enhance in identifying the needs of data managers and addressing the concerns of data users. Consideration should be discussed to establish numeric goals for performance measures for each these quality control measurements. Also, regular and periodic comparative and trend analyses should be considered

to identify unexplained differences in data. Another opportunity exists through the use of regular vehicle system data quality management reports that could be presented at TRCC meetings to improve relationships with other agencies and to gain support for new programs and data linkages

Question 80:				-	
Does custodial respo registered in the State body type, and adver location?	e—includir	ng vehicle make, mo	odel, year c	f manufacture,	
Standard of Evidence	ce:				
Provide the custodial	agency's	name.			Question Rank: Somewhat
Assessor conclusio	ns:				Important
The centralized custo Vehicle and Driver Lie		-			
Respondents assigned	2	Responses received	1	Response rate	50%
Question 81:					
Does the State or its application?	agents val	lidate every VIN wit	th a verifica	tion software	
Standard of Evidence	e:				
Describe the circums	tances in v	which the VIN is va	lidated and	used.	Question Rank: Less Important
		which the VIN is va	lidated and	used.	Question Rank: Less Important
Describe the circums	ns: alidation s	software to appropri	iately identi	fy motor vehicle	Less Important information. Prior

Question 82:
Are vehicle registration documents barcoded—using at a minimum the 2D standard—to allow for rapid, accurate collection of vehicle information by law enforcement officers in the field using barcode readers or scanners?

#### Standard of Evidence:

Provide a sample document, and identify the information encoded.

#### Assessor conclusions:

The uses a 128 barcode on the registration receipt and scanners can be used to retrieve the registration sub-transaction registration number data on the transactional system. Code 128 barcodes only hold a maximum of 44 characters. The Advisory ideal requires a 2D barcode, such as PDF417, that can transmit a larger volume of data. Law enforcement in the field do not have access to the transactional system.

Respondents assigned	2	Responses received	1	Response rate	50%
Question 83:					
Does the vehicle syste Vehicle Title Informati				National Motor	
Standard of Evidenc	e:				
Explain how and how	often the	State uploads data	to NMVTI	S, specifying the	<b>Question Rank:</b>

manner of transmittal and its frequency (e.g., real-time, nightly, weekly).

#### Assessor conclusions:

The vehicle title data is uploaded to NMVTIS through a secure FTP on a nightly basis.

Respondents 2 Responses 1	Response 50% rate
---------------------------	-------------------

Question Rank: Very Important

> Somewhat Important

# Question 84:

Does the vehicle system query the National Motor Vehicle Title Information System (NMVTIS) before issuing new titles?

#### Standard of Evidence:

Provide the NMVTIS query processing instructions or provide a screen print **Question Rank:** of the query tool.

#### Assessor conclusions:

The State's Title and Registration Intranet Processing System (TRIPS) initiates a NMVTIS inquiry real-time when the owner submits an application for title.

Respondents 2	Responses	1 Response	50%
assigned	received	rate	

#### **Question 85:**

Does the State incorporate brand information on the vehicle record that are recommended by AAMVA and/or received through NMVTIS, whether or not the brand description matches the State's brand descriptions?



#### Standard of Evidence:

Provide the list of the State's title brands and their definitions.

Question Rank: Very Important

## Assessor conclusions:

The NMVTIS recommended brands are converted to Missouri equivalent brands, when applicable, and applied to and stored in Missouri's brand file. However, title branding code consistency is key to ensuring a vehicle's history is appropriately carried between States and converting those brands to other than the recommended AAMVA or NMVTIS prohibits that from occurring.

Respondents assigned	2	Responses received	1	Response rate	50%
Question 86:					
Does the State partic Systems Manageme			I Registratio	on Information	
Standard of Eviden	ce:				
Provide the PRISM p	processing	instructions or a so	creen print.		Question Rank: Very Important
Assessor conclusion	ons:				
Missouri is a PRISM	participati	ng State.			
Respondents assigned	4	Responses received	1	Response rate	25%



Very Important

## Question 87:

Does the vehicle system have a documented definition for each data field?

#### Standard of Evidence:

Provide a narrative description of the data dictionary and provide an extract.

#### Assessor conclusions:

The State vehicle data is stored in both the title and registration systems. The State's Office of Administration, Information Technology Services Division, maintains system and data documentation. Although Missouri's vehicle system is a legacy mainframe based system, they do have a data dictionary in place that contains a documented definition for each data field.

Respondents assigned	2	Responses received	1	Response rate	50%
Question 88:			ta asllasti		
Does the vehicle sys that correspond to the				on guidelines	
Standard of Eviden	ce:				
Provide a narrative c collection guidelines			ry's edit cł	neck and data	Question Rank: Somewhat Important
Assessor conclusion	ons:				
Assessor conclusions: The State has an internally developed system (Title and Registration Intranet System) that facilitates, edits, and validates data at the time of capture. The s documentation, titled 'TRIPS Title Validation/Edits' did not have any registrati checks. Nowhere in the documentation were there any references to tag, plat anything registration specific that would be expected for an ideal system.					upplied on specific edit

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	--------------------	---	------------------	-----	--



Question Rank:

Somewhat

Important

# Question 89:

Are the collection, reporting, and posting procedures for registration, title, and title brand information formally documented?

# Standard of Evidence:

Provide a narrative description of the data dictionary's procedure for applying title brands and provide a copy of the brands applied. Question Rank: Very Important

# Assessor conclusions:

The collection, reporting, and posting procedures for registration, title, and title brand information are formally documented.

Respondents assigned	2	Responses received	1	Response rate	50%
Question 90: Is there a process flo	w diagran	n describing the ver	nicle data s	ystem?	
Standard of Evidence	ce:	, , , , , , , , , , , , , , , , , , ,		-	
Provide the process f	low diagr	am.			Question Rank: Somewhat
Assessor conclusio	Important				
The State maintains a	a flow dia	gram that describes	the vehicl	e data system.	
Respondents assigned	2	Responses received	1	Response rate	50%

#### Question 91: Does the vehicle system flag or identify vehicles reported as stolen to law enforcement authorities? Standard of Evidence: Provide a narrative description of the procedures for flagging and identifying vehicles reported as stolen. Provide the appropriate excerpt from the **Question Rank:** instruction manual. Very Important Assessor conclusions: Stolen vehicle information is not retained or 'flagged' in the title and registration system. The stolen vehicle data is retained by the Missouri State Highway Patrol (MSHP) and, while all titles are run through the MSHP prior to issuance, the information is not contained in the title and registration system. Respondents Responses Response 2 1 50% assigned received rate Question 92: If the vehicle system does flag or identify vehicles reported as stolen to law enforcement authorities, are these flags removed when a stolen vehicle has been recovered or junked? Standard of Evidence: Provide a narrative description of how the flags are removed. Provide the **Question Rank:** appropriate excerpt from the instruction or procedures manual. Very Important Assessor conclusions: The State's title and registration system does not contain any stolen vehicle information. All information is currently retained by the Missouri State Highway Patrol. Respondents Responses Response 2 1 50%

received

rate

assigned

#### **Question 93:**

Does the State record and maintain the title brand history (previously applied to vehicles by other States)?

#### Standard of Evidence:

Provide a narrative description of how title brand information is applied.

# Assessor conclusions:

NMVTIS brands from other States are converted to Missouri equivalent brands, when applicable, and applied to and stored in Missouri's brand file.

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	--------------------	---	------------------	-----	--

#### **Question 94:**

Are the steps from initial event (titling, registration) to final entry into the statewide vehicle system documented in a process flow diagram?

#### Standard of Evidence:

Provide the process flow diagram. If diagram does not exist, provide a narrative describing the process in detail.

#### Assessor conclusions:

The State maintains a process flow diagram for the vehicle system.

Respondents assigned	2	Responses received	1	Response rate	50%
Question 95:	$\frown$				
Is the process flow dia	he time required				

to complete each step?

#### Standard of Evidence:

Provide the process flow diagram. If diagram does not exist, provide a narrative describing the process in detail.

#### Assessor conclusions:

The process flow diagram provided by the State contained no information for the time required to complete each step.

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	-----------------------	---	------------------	-----	--



Question Rank: Very Important

**Question Rank:** 

Very Important

Question Rank:

Somewhat Important

#### **Question 96:** Does the process flow diagram or narrative show alternative data flows and timelines? Standard of Evidence: Provide the process flow diagram that specifies alternative data flows and **Question Rank:** timelines. If diagram does not exist, provide a narrative describing the Somewhat process in detail. Important Assessor conclusions: The process flow diagram provided by the State does contain alternate process flows but does not include timelines for those processes. Respondents Responses Response 2 1 50% assigned received rate Question 97: Does the process flow diagram or narrative include processes for error correction and error handling? Standard of Evidence: Provide the process flow diagram that specified the processes for error Question Rank: correction and error handling. If diagram does not exist, provide a narrative Somewhat describing the process in detail. Important Assessor conclusions: The State's diagram does include 'system edits' and paths for errors and failures of those edits.

Respondents 2 Responses 1 assigned 2 received	Response 50% rate	
--	-------------------	--

assigned

#### Question 98: Does the process flow diagram or narrative explain the timing, conditions, and procedures for purging records from the vehicle system? Standard of Evidence: Provide the process flow diagram that specifies the schedule and process for **Question Rank:** purging records. If diagram does not exist, provide a narrative describing the Somewhat process in detail. Important Assessor conclusions: Missouri has an appropriate process in place for determining the timing, conditions, and procedures for purging records from the vehicle system. Respondents Responses Response 2 1 50% assigned received rate Question 99: Are the driver and vehicle files unified in one system? Standard of Evidence: Provide a narrative description of the unified system's main components and Question Rank: identify the variables that link the vehicle and driver files. Somewhat Important Assessor conclusions: The State driver and vehicle files are not unified in one system. Respondents Responses Response 2 1 50% assigned received rate Question 100: If the driver and vehicle files are separate, is personal information entered into the vehicle system using the same conventions used in the driver system? Standard of Evidence: When the driver and vehicle systems are separate, provide extracts from the driver and vehicle system manuals detailing the data entry conventions for **Question Rank:** each. Very Important Assessor conclusions: The State driver and vehicle files do not use the same personal information conventions. Respondents Responses Response 2 1 50%

received

rate

Question 101: Can vehicle system of information during initial						
Standard of Eviden	ce:					
Provide a narrative d vehicle system data t creation of a citation how the vehicle syste information during cra	to verify ar or crash re em is acce	nd validate vehicle in eport. ALTERNATIV essed, if it is, to valid	nformation /E EVIDE	n during initial NCE: Describe	Question Rank: Somewhat Important	
Assessor conclusions: While not yet having a Statewide citation system, the Missouri Law Enforcement Traffic System (LETS) does have a program currently being used through the Regional Justice Information System (REJIS) that allows officers to scan and search vehicle records to auto-populate crash report fields in order to verify and reduce issues with accuracy. In the State's Strategic Traffic Records Plan ongoing project activity with some of the local jurisdictions indicates that a similar effort is underway for citations.						
Respondents assigned	3	Responses received	1	Response rate	33.3%	
Question 102:         When discrepancies are identified during data entry in the crash data system, are vehicle records flagged for possible updating?         Standard of Evidence:						
Provide an appropria the process for addre					Question Rank: Less Important	
Assessor conclusions: No records are flagged for possible updating of the vehicle records system when discrepancies are identified during data entry to the crash data system.						

# Question 103: Are VIN, title number, and license plate number the key variables used to retrieve vehicle records? Standard of Evidence: Identify the key variables used to retrieve vehicle records. Assessor conclusions: The VIN, year, make, title number, and registration can all be used to retrieve vehicle records. Respondents Responses Responses Response

Respondents 2 Responses 1 assigned 2 received	Response rate	50%
--	------------------	-----

#### Question 104:

Is the vehicle system data processed in real-time?

#### Standard of Evidence:

Provide a narrative statement explaining the answer.

#### Assessor conclusions:

It was indicated that vehicle data is stored in both title and registration systems and may be processed through a transactional system (TRIPS). TRIPS, as well as the public facing on-line systems (on-line registration renewal), are processed in real-time. Data from these systems is extracted nightly and updated in the title and registration systems within two days. Clerk processed registration transactions processed in TRIPS are done in real-time and data is available for inquiry. Updates to other centralized repositories are done through the extract process.

Question Rank:

Very Important

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	--------------------	---	------------------	-----	--

#### Question 105:

Are there automated edit checks and validation rules to ensure that entered data falls within a range of acceptable values and is logically consistent among data elements?

# Standard of Evidence:

Provide the formal methodology or describe the process by which automated edit checks or validation rules ensure entered data falls within the range of acceptable values and is logically consistent between fields.

Question Rank: Very Important

#### Assessor conclusions:

The Title and Registration Intranet Processing System (TRIPS) facilitates edits and validations on data at the time of capture. This occurs when data that is keyed by a processing clerk fails to meet system edits. An error message is displayed preventing the processing of the data until the clerk corrects it or it will terminate the transaction.

Respondents assigned	2	Responses received	1	Response rate	50%		
Question 106:							
Is limited state-level corre working with the statewid omissions?							
Standard of Evidence:							
Name the authority that a vehicle database.	allows	s quality control staff	to correct	the statewide	Question Rank: Somewhat Important		
Assessor conclusions:							
The Missouri Department of Revenue, Motor Vehicle and Driver Licensing Division, Motor Vehicle Bureau has limited State-level authority related to quality control.							
Respondents assigned	2	Responses received	1	Response rate	50%		

# **Question 107:**

Are there timeliness performance measures tailored to the needs of data managers and data users?

# Standard of Evidence:

Provide a complete list of vehicle system timeliness measures the State uses, including the most current baseline and actual values for each.

#### Assessor conclusions:

The Motor Vehicle Bureau does not have standard measures. Any analysis and measures are completed on an as needed basis and supported by ad-hoc queries to multiple motor vehicle related systems.

Respondents assigned	2	Responses received	1	Response rate	50%
Outotien 400					
Question 108:					
Are there accuracy p managers and data u		ce measures tailored	d to the ne	eds of data	
Standard of Eviden	ce:				
Provide a complete li including the most cu		5		-	Question Rank: Very Important
Assessor conclusion	ons:				
The Motor Vehicle Bu measures are comple motor vehicle related	ureau doe eted on ar	n as needed basis a	· •		
Respondents assigned	2	Responses received	1	Response rate	50%



Question Rank: Very Important

**Question Rank:** 

Very Important

## Question 109:

Are there completeness performance measures tailored to the needs of data managers and data users?

#### Standard of Evidence:

Provide a complete list of vehicle system completeness measures the State uses, including the most current baseline and actual values for each.

#### Assessor conclusions:

The Motor Vehicle Bureau does not have completeness performance measures. Any analysis and measures are completed on an as needed basis and supported by ad-hoc queries to multiple motor vehicle related systems.

Respondents assigned	2	Responses received	1	Response rate	50%			
Question 110:					$\frown$			
Are there uniformity preaming managers and data units of the second seco		ce measures tailore	d to the ne	eeds of data				
Standard of Eviden	ce:							
Provide a complete li uses, including the m		Question Rank: Very Important						
Assessor conclusion	ons:							
The Motor Vehicle Bureau does not have uniformity performance measures. Any analysis and measures are completed on an as needed basis and supported by ad-hoc queries to multiple motor vehicle related systems.								
Respondents assigned	2	Responses received	1	Response rate	50%			

# Question 111:

Are there integration performance measures tailored to the needs of data managers and data users?

# Standard of Evidence:

Provide a complete list of vehicle system integration measures the State uses, including the most current baseline and actual values for each.

#### Assessor conclusions:

The Motor Vehicle Bureau does not have integration performance measures. Any analysis and measures are completed on an as needed basis and supported by ad-hoc queries to multiple motor vehicle related systems.

Respondents assigned	2	Responses received	1	Response rate	50%			
Question 112: Are there accessibilit managers and data u Standard of Evident	isers?	ance measures tailc	ored to the	needs of data				
Provide a complete li uses, including the m		-			Question Rank: Somewhat Important			
Assessor conclusions: The Motor Vehicle Bureau does not have accessibility performance measures. Any analysis and measures are completed on an as needed basis and supported by ad-hoc queries to multiple motor vehicle related systems.								
Respondents assigned	2	Responses received	1	Response rate	50%			



Question Rank: Very Important

#### Question 113:

Has the State established numeric goals—performance metrics—for each performance measure?

#### Standard of Evidence:

Provide the specific, State-determined numeric goals associated with each performance measure in use.

#### Assessor conclusions:

The Motor Vehicle Bureau does not have any established numeric goals-performance metrics-for each performance measure.

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	-----------------------	---	------------------	-----	--

#### **Question 114:**

Is the detection of high frequency errors used to generate updates to training content and data collection manuals, update the validation rules, and prompt form revisions?



**Question Rank:** 

Very Important

#### Standard of Evidence:

Provide the formal methodology or describe the process by which high frequency errors are used to generate new training content and data collection manuals, update the validation rules, and prompt form revisions.

Question Rank: Very Important

#### Assessor conclusions:

The Motor Vehicle Bureau has a process improvement group consisting of front line subject matter experts, management, and analysts. This group meets regularly and discusses identified frequent errors and makes recommendations for correction to management. The process improvement group updates manuals, rules, and forms as errors or issues are identified, analyzed, and recommended solutions are approved by management.

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	-----------------------	---	------------------	-----	--

# Question 115:

Are independent sample-based audits conducted periodically for vehicle reports and related database contents for that record?

#### Standard of Evidence:

Describe the formal audit methodology, provide a sample report or other output, and specify the audits' frequency.

#### Assessor conclusions:

The vehicle reports are vetted at time of creation for accuracy. No independent sample-based audits are conducted.

Respondents 2 R	esponses 1	Response	50%
assigned	received	rate	

#### **Question 116:**

Are periodic comparative and trend analyses used to identify unexplained differences in the data across years and jurisdictions?

#### Standard of Evidence:

Describe the analyses, provide a sample report or other output, and specify the analyses' frequency.

#### Assessor conclusions:

Any analysis and measures are completed only on an as needed basis and supported by ad-hoc queries to multiple motor vehicle related systems. Not enough information was provided to determine if this includes periodic comparative and trend analyses.

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	--------------------	---	------------------	-----	--



Question Rank: Somewhat Important

Question Rank: Very Important

#### Question 117: Is data quality feedback from key users regularly communicated to data collectors and data managers? Standard of Evidence: Question Rank: Describe the process for transmitting and utilizing key users' data quality feedback to inform changes. Somewhat Important Assessor conclusions: The Motor Vehicle Bureau meets regularly with various data users where opportunities for feedback, concerns, and communication are made. Respondents Response Responses 2 1 50% assigned received rate **Question 118:** Are data quality management reports provided to the TRCC for regular review? Standard of Evidence: Provide a sample quality management report and specify how frequently **Question Rank:** they are issued to the TRCC. Very Important Assessor conclusions: It was indicted only that vehicle-related data is available upon request. Not enough information was provided to determine if this includes data quality management reports. Respondents Responses Response 2 1 50% assigned received rate

# Driver

The Driver License Bureau maintains the responsibility of all driver data, including commercial license information. The licensing system maintains and stores original issuance of all license permits, identification cards, and licenses. The system interfaces with the National Driver Registry, the Problem Driver Pointer System, and CDLIS. While the DUI system is separate, the driver and DUI systems are linked via common data elements. Edit checks, data collection guidelines for each data element, data dictionary, and appropriate affiliated procedures all appear to be within the recommended parameters for the Missouri Driver License (MODL) system. During the issuance process photos are verified and all license transactions are verified through CDLIS, PDPS, SSOLV, and VLS/SAVE prior to issuance. In addition, the TSA portal is used to verify the assessment results prior to issuing a hazmat endorsement. These measures appear to be a solid foundation for a driver data system.

Missouri has up to date documentation and flowcharts detailing the licensing, permitting, and endorsement issuance procedures. The Driver License Bureau also maintains accurate and timely documentation detailing the reporting and recording of convictions and any changes in license status. Established turnaround-times for each processing area exist and all work is processed within statutory requirements or, if not statutorily mandated, then within one to five business days. The State reports driver data can be purged through an automated program that is run quarterly or manually with a customer request. Both the automated and manual purges use specific criteria to determine if the record is eligible for purging.

There are established processes to detect internal fraud by individual users or examiners. System logging, supervisor oversight, and annual security audits help enforce these processes. Missouri also has a policy on appropriate system access which employees must acknowledge and sign annually. Access authority is reviewed annually to ensure that the employees have access only to the functions they require to perform their duties. Missouri has strict guidelines, policies and procedures for accessing and releasing driver information.

The State custodial agency does have the capability to grant authorized law enforcement personnel access to information in the driver system. Law enforcement agencies within the State have access to the MODL system in real-time. The custodial agency does have the capability to grant authorized court personnel access to information in the driver system. Once the appropriate MOU is signed, participating courts and authorized staff are assigned a User ID and are granted Resource Access Control Facility (RACF) access to the MODL system. The Missouri Approved Instructions (MAI) system allows personnel from other States to conduct inquiries and submit certain information electronically, such as conviction and withdrawal information, using the AAMVA message exchange, provided Missouri is the current State of record.

The MODL System has field definition validations, online entry edits, and a nightly batch update program that also edits records to ensure data accuracy. These automated edit checks and validation rules ensure entered data falls within a range of acceptable values and is logically consistent among data elements.

The State Weekly Production Report shows the timeliness performance measures in use. The

State also has overarching system performance metrics. The MODL System utilizes system-generated reports, error files, and employee monitoring to determine errors. High frequency errors may result in additional end-user training or enhancements to the system edits and validations.

The overall Missouri Driver License (MODL) system appears to meet many of the Advisory ideals and is well documented. The system could benefit from data integration with other affiliated systems and biometric validations appear to be lacking, but overall the system is quite functional. Many quality control metrics are listed in the opportunities section below and the processes in Missouri could benefit from those targeted metrics.

**Opportunities:** 

Interfaces/General

- Storing historical novice driver training information
- Linking crash & driver systems
- Linking citation and driver systems

#### **Quality Control**

Of all of the areas within the driver system for Missouri, the greatest volume of opportunities exist within the quality control metrics. The establishment of metrics for timeliness, completeness, uniformity, accessibility and other associated focus areas is highly recommended. In addition, regular feedback of data quality reports to the TRCC is also recommended to establish a good interactive multi-agency consortium.

#### Question 119:

Does custodial responsibility for the driver system—including commercially-licensed drivers—reside in a single location?

#### Standard of Evidence:

Provide a narrative identifying the custodial agency.

#### Assessor conclusions:

The maintenance of all driver license information, including commercial, is the responsibility of the Driver License Bureau.

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	--------------------	---	------------------	-----	--



Very Important

# Question 120:

Can the State's DUI s data system be linked electronically to the driver system?

# Standard of Evidence:

Provide a narrative explanation of a State's linking protocols that demonstrated how a citation on the DUI data system is linked to a record on the driver system. Include identification of the linkage portal and organizations responsible for maintaining the link and the linking fields used.

# Assessor conclusions:

The Missouri DUI data system can be electronically linked to the driver system but at this time they are two separate systems.

Respondents assigned	2	Responses received	1	Response rate	50%
Question 121: Does the driver syste	m cantur	a novica drivers' trai	nina histo	ries including	
provider names and t			•		
Standard of Evidence	ce:				
Provide a narrative de history (including mot the pertinent data fiel sample system repor	orcycle a	nd commercial licen	se training	g), and specify	Question Rank: Less Important
Assessor conclusio	-				
Novice driver training system.	history in	formation is not curr	ently capt	ured and stored i	n the MODL driver

Respondents	2	Responses	1	Response	50%
assigned	2	received	1	rate	50 /6



Question Rank: Very Important

Question 122: Does the driver syste improvement training education (classroom	histories, or behind	including provider				
Standard of Evidence Provide a narrative de driver improvement tr license training, by sp data dictionary or pro	ocumentin aining his ecifying th	tory, including motone pertinent data fie	orcycle and	l commercial	Question Rank: Less Important	
Assessor conclusio The following data fie Number; Court Case (Completed/Failed); a name.	lds are ma Number;	Results of Program	(Complete	ed/Failed); Date I	Program	
Respondents assigned	2	Responses received	1	Response rate	50%	
Question 123: Does the driver system capture and retain the dates of original issuance for all permits, licensing, and endorsements (e.g., learner's permit, provisional license, commercial driver's license, motorcycle license)?						
Standard of Evidence Provide a narrative do all permits, licensing, fields and audit check	cumentin and endo	rsements by specif	ying the pe	ertinent data	Question Rank: Somewhat Important	
Assessor conclusio The Missouri Driver L all license permits, ide	icense Bu			ins and stores or	iginal issuance of	
Respondents assigned	2	Responses received	1	Response rate	50%	

# Question 124:

Is driver information maintained in a manner that accommodates interaction with the National Driver Register's Problem Driver Pointer System (PDPS) and the Commercial Driver's License Information System (CDLIS)?

#### Standard of Evidence:

Demonstrate functional integration with the PDPS and CDLIS. AAMVA audit reports can be provided as supporting documentation.

# Assessor conclusions:

The driver information is maintained in a manner that allows for interactions with the National Driver Registry, the Problem Driver Pointer System, and CDLIS.

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	-----------------------	---	------------------	-----	--

# Question 125:

Are the contents of the driver system documented with data definitions for each field?

# Standard of Evidence:

Provide, at a minimum, a table of contents and sample elements from the data dictionary or a sample data dictionary report.

#### Assessor conclusions:

The field identification and definitions for the Electronic Conviction layout and the Ignition Interlock Electronic Files are maintained in State files.

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	--------------------	---	------------------	-----	--

#### Question 126:

Are all valid field values—including null codes—documented in the data dictionary?

# Standard of Evidence:

Provide sample valid data field values from the data dictionary.

#### Assessor conclusions:

The State maintains documentation with data dictionary field names for the driver license fields. The actual definitions cannot be provided, but it would stand to reason the definitions exist if the programs refer to them.



Very Important

**Question Rank:** 

Very Important

Question 127: Are there edit checks Standard of Evidence		collection guideline	es for each	data element?	
Provide an example e	dit check	and data collectior	n guideline.		Question Rank: Very Important
Assessor conclusio There are edit checks the corresponding ed	and data	•	es for each	data element. R	
Respondents assigned	2	Responses received	1	Response rate	50%
Question 128:					
Is there guidance on I	now and	when to update the	data dictio	nary?	
Standard of Evidence	e:				
Provide a narrative ex the data dictionary is			d procedure	es that ensure	Question Rank: Very Important
Assessor conclusio Data Dictionary/Reco change based on sys Programming and dat occur.	rd Layout tem enha	incements or legisla	ative require	ements that man	date a change.
Respondents assigned	2	Responses received	1	Response rate	50%

Question 129:

#### Does the custodial agency maintain accurate and up to date documentation detailing the licensing, permitting, and endorsement issuance procedures (manual and electronic, where applicable)? Standard of Evidence: Provide a process flow document for this specific process area, or provide a narrative explaining how these processes are documented and how that **Question Rank:** documentation is maintained. Include the percentage of reporting that is Somewhat accomplished manually and electronically. Important Assessor conclusions: Missouri has up to date documentation detailing the licensing, permitting, and endorsement issuance procedures. The Uniform License Issuance Manual (ULIM) and process flow documents have been developed. Respondents Responses Response 2 1 50% assigned received rate Question 130: Does the custodial agency maintain accurate and up to date documentation detailing the reporting and recording of relevant citations and convictions (manual and electronic, where applicable)? Standard of Evidence: Provide a process flow document for this specific process area, or provide a Question Rank: narrative explaining how these processes are documented and how that documentation is maintained. Include the percentage of reporting that is Somewhat accomplished manually and electronically. Important Assessor conclusions: The Driver License Bureau maintains accurate and timely documentation detailing the reporting and recording of convictions.

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	-----------------------	---	------------------	-----	--



Question 131: Does the custodial ag detailing the reporting	and recor	rding of driver edu	cation and i		
course (manual and e	·	where applicable)	?		
Standard of Evidence					
Provide a process flo narrative explaining h documentation is mai accomplished manua	ow these p ntained. In	processes are doc clude the percent	umented ar	nd how that	Question Rank: Somewhat Important
Assessor conclusio	ns:				
All driver improvemen Conviction Detail Ent addition, the conviction the DIP completion is	ry procedu on entry is	re manual and are approximately 75%	updated a	nytime a proced	ure changes. In
Respondents assigned	2	Responses received	1	Response rate	50%
Question 132:					
Does the custodial ag detailing the reporting change of license sta	and recor	ding of other infor	mation that	may result in a	
Standard of Evidend	e:				
Provide a process flo narrative explaining h documentation is main accomplished manual	ow these p ntained. In	processes are doc include the percent	umented ar	nd how that	Question Rank: Somewhat Important
Assessor conclusio	-				
All withdrawal entry p are updated anytime 100% manual and the	a procedui	re changes. That a	action entry	onto the driver r	ecord is nearly
Desnendente		_		Deenenee	

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	-----------------------	---	------------------	-----	--

Question 133: Does the custodial ag detailing any change reinstatement, revoca	in license	status (e.g., sanct			
Standard of Evidence	ce:				
Provide a narrative or governing the actual each type of change.					Question Rank: Somewhat Important
Assessor conclusio Missouri maintains ac status. There are esta processed within stat business days.	ccurate an ablished tu	urn-around-times for	or each pro	ocessing area and	all work is
Respondents	2	Responses	4	Response	E00/
Respondents assigned	2	Responses received	1	Response rate	50%
assigned	2		1	•	50%
	w diagram	received		rate system's key	50%
assigned Question 134: Is there a process flor	w diagram	received		rate system's key	50%
assigned Question 134: Is there a process flow data process flows, in	w diagram ncluding ir <b>ce:</b>	received		rate system's key	Question Rank:
assigned Question 134: Is there a process flow data process flows, in Standard of Evidence	w diagram ncluding ir <b>ce:</b> low diagra	received		rate system's key	
assigned Question 134: Is there a process flow data process flows, in Standard of Evidend Provide the process f	w diagram ncluding in <b>ce:</b> low diagra	received	ita systems	system's key	Question Rank:

Question 135: Are the processes for license, permit, and e relevant citations and education and improvinformation that may	endorsem l convictio /ement co	ent issuance; report ons; reporting and re ourses; and reporting	ing and re cording of g and reco	cording of driver	
Standard of Evidend Provide the documen procedures for error of process areas. Assessor conclusion Only some error corror	tation or f correction <b>ns:</b> ection and	and error handling	in each of cesses are	the listed	
flow charts on convic for the on-line edits the Respondents assigned				ectronic files, as Response rate	well as a process
Question 136: Are there processes documented?	and proce	dures for purging da	ata from th	e driver system	
Standard of Evident Provide the document procedures for purgin	tation or f				Question Rank: Somewhat
Assessor conclusion The State driver data manually with a custor criteria to determine in	can be pomer requ	est. Both the autom	ated and r		
Respondents assigned	2	Responses		Response	50%

# Question 137:

In States that have the administrative authority to suspend licenses based on a DUI arrest independent of adjudication, are these processes documented?

# Standard of Evidence:

**Question Rank:** Provide the documentation or flow diagram that describes the processes and procedures for administrative license suspension.

#### Assessor conclusions:

The State has flow charts and procedure manuals for the administrative license suspensions, including one titled 'Administrative Alcohol Hearing Process' that appropriately describes the affiliated processes.

Somewhat Important

Respondents assigned	2	Responses received	1	Response rate	50%
Question 138:					
Are there established	d processe	es to detect false ide	entity licen	sure fraud?	
Standard of Eviden	ce:				
Provide a narrative d individuals attempting				d to detect	Question Rank: Very Important
Assessor conclusion	ons:				
The State verifies photos and checks all license transactions through CDLIS, PDPS, SSOLV, and VLS/SAVE prior to issuance. These efforts are good, but ideally a biometric component to the system would exist to help mitigate fraud.					

	onses 1 Response 50% ceived 1 rate	
--	---------------------------------------	--

#### Question 139:

Are there established processes to detect internal fraud by individual users or examiners?

# Standard of Evidence:

Provide a narrative describing the systems or processes used to detect internal fraud by individual users or examiners.

# Assessor conclusions:

There are established processes to detect internal fraud by individual users or examiners. These include system logging, supervisor oversight, and annual security audits to help enforce these processes.

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	--------------------	---	------------------	-----	--

# Question 140:

Are the established processes to detect CDL fraud (including hazmat endorsements)?

#### Standard of Evidence:

Provide a narrative describing the systems or processes used to detect commercial driver's license fraud, including for hazmat endorsements.

Question Rank: Very Important

#### Assessor conclusions:

The State has established processes to detect CDL fraud. They noted checking a driver's image in addition to running all license transactions through CDLIS, PDPS, SSOLV, and VLS/SAVE prior to issuance. The TSA portal is also used to verify the assessment results prior to issuing a hazmat endorsement. While these manual steps are helpful, it would be ideal if a biometric component existed as well as an automated fraud detection engine.

	ponses 1 Response 50% eceived 1 rate
--	--------------------------------------



# Question 141:

Are there policies and procedures for maintaining appropriate system and information security?

# Standard of Evidence:

Provide copies of the relevant policies and procedure manuals.

# Assessor conclusions:

The State has a policy on appropriate system access which employees must acknowledge and sign annually. Also, access authority is reviewed annually to ensure that the employees have access only to the functions they require to perform their duties.

Respondents assigned	2	Responses received	1	Response rate	50%
Question 142:					
Are there procedures access and release of				ustodians track	
Standard of Eviden	ce:				
Provide copies of the	relevant	procedures or man	uals.	_	Question Rank: Very Important
Assessor conclusion	ons:				<i>,</i>
Missouri has strict guinformation.	idelines, j	policies, and proced	dures for ac	ccessing and relea	asing driver
Respondents assigned	2	Responses received	1	Response rate	50%



Can the State's crash	ו system b	e linked to the drive	er system e	electronically?	
Standard of Eviden	ce:				
Provide a narrative explanation of a State's linkage protocols that demonstrates how records in the crash system are linked to the driver record. Include identification of the linkage portal and the organization responsible for maintaining the link and the linking fields used.					Question Rank: Very Important
Assessor conclusion	ons:				
The Missouri crash a indicated that they co		-	rently elect	ronically linked l	out the State
Respondents assigned	2	Responses received	1	Response rate	50%
Question 144:					
Can the State's citati	on system	be linked to the driv	/er system	electronically?	
Standard of Eviden	ce:				
Standard of Evident Provide a narrative e demonstrates how re record. Include identi responsible for maint	xplanation ecords in the	ne citation system as the linkage portal a	re linked to nd the orga	the driver anization	Question Rank: Very Important
Provide a narrative e demonstrates how re record. Include identi	xplanation cords in the ification of caining the	ne citation system as the linkage portal a	re linked to nd the orga	the driver anization	
Provide a narrative e demonstrates how re record. Include identi responsible for maint	xplanation ecords in th ification of aining the ons: and driver	ne citation system a the linkage portal a link and the linking	re linked to nd the orga fields used	the driver anization d.	Very Important

# Question 145:

Can the State's adjudication system be linked to the driver system electronically?

# Standard of Evidence:

Provide a narrative explanation of a State's linkage protocols that demonstrates how records in the adjudication system are linked to the driver record. Include identification of the linkage portal and the organization responsible for maintaining the link and the linking fields used.

# Assessor conclusions:

The communication between the State's adjudication system and driver system appears to be only one direction (coming from the adjudication system to the driver system).

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	-----------------------	---	------------------	-----	--

#### **Question 146:**

Is there an interface link between the driver system and: the Problem Driver Pointer System, the Commercial Driver Licensing System, the Social Security Online Verification system, and the Systematic Alien Verification for Entitlement system?

#### Standard of Evidence:

Provide a narrative description of the policy for checking the PDPS, CDLIS, SSOLV, and SAVE for licensing commercial and non-commercial drivers (both original issuances and renewals).

Question Rank: Very Important

**Question Rank:** 

Very Important

#### Assessor conclusions:

All new and renewal non-commercial and commercial driver license are checked through PDPS, CDLIS, SSOLV, and VLS/SAVE prior to completing the issuance transaction. SSOLV is only checked if not previously verified.

Respondents 2	Responses	1 Response	50%
assigned 2	received	rate	

#### Question 147: Does the custodial agency have the capability to grant authorized law enforcement personnel access to information in the driver system? Standard of Evidence: Provide a narrative description of the protocols granting authorized law **Question Rank:** enforcement personnel access to information in the driver system. Very Important Assessor conclusions: The custodial agency does have the capability to grant authorized law enforcement personnel access to information in the driver system. Law enforcement agencies within Missouri have access to the MODL system in real-time. Respondents Responses Response 2 1 50% assigned received rate Question 148: Does the custodial agency have the capability to grant authorized court personnel access to information in the driver system? Standard of Evidence: Provide a narrative description of the protocols granting authorized law Question Rank: enforcement personnel access to information in the driver system. Very Important

# Assessor conclusions:

The custodial agency does have the capability to grant authorized court personnel access to information in the driver system. Once the appropriate MOU is signed, participating courts and authorized staff are assigned a User ID and are granted RACF access to the MODL (Driver) system.

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	--------------------	---	------------------	-----	--

# Question 149:

Does the custodial agency have the capability to grant authorized personnel from other States access to information in the driver system?

#### Standard of Evidence:

Provide a narrative description of the protocols granting authorized law enforcement personnel access to information in the driver system.

#### Assessor conclusions:

The MAI system allows personnel from other States to conduct inquiries and submit certain information electronically, such as conviction and withdrawal information, using the AAMVA message exchange, provided Missouri is the current State of record.

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	-----------------------	---	------------------	-----	--

# Question 150:

Is there a formal, comprehensive data quality management program for the driver system?

#### Standard of Evidence:

Provide a narrative description of the driver system's data quality management programs and the most recent data quality reports issued.

#### Assessor conclusions:

The data quality management system relies on the MODL System which has field definition validations, online entry edits, and a nightly batch update program that also runs edits to ensure data accuracy.

Respondents 2 assigned	Responses 1 received	Response 50% rate
---------------------------	-------------------------	-------------------



Question Rank: Very Important

# Question 151:

Are there automated edit checks and validation rules to ensure entered data falls within a range of acceptable values and is logically consistent among data elements?

# Standard of Evidence:

Provide the formal methodology or describe the process by which automated edit checks or validation rules ensure entered data falls within the range of acceptable values and is logically consistent between fields. Question Rank: Very Important

#### Assessor conclusions:

The MODL System has field definition validations, online entry edits, and a nightly batch update program that also runs edits to ensure data accuracy.

Respondents 2 assigned	Responses received	1	Response rate	50%
---------------------------	-----------------------	---	------------------	-----

# Question 152:

Are there timeliness performance measures tailored to the needs of data managers and data users?

# Standard of Evidence:

Provide a complete list of driver system timeliness measures the State uses, including the most current baseline and actual values for each.

#### Assessor conclusions:

The State produces Weekly Production Reports that show the timeliness performance measures.

Respondents 2	Responses	1 Response	50%
assigned	received	rate	



**Question Rank:** 

Very Important

# Question 153:

Are there accuracy performance measures tailored to the needs of data managers and data users?

# Standard of Evidence:

Provide a complete list of driver system accuracy measures the State uses, including the most current baseline and actual values for each.

# Assessor conclusions:

The online and batch system edits require accuracy, completeness, and uniformity in excess of 99% of the data stored in the MODL system. However, the State should maintain supporting documentation detailing the list of driver system accuracy measures, including the most current baseline and actual values for each.

Respondents assigned	2	Responses received	1	Response rate	50%	
Question 154:					$\frown$	
Are there completene managers and data u		mance measures tai	ilored to th	e needs of data		
Standard of Eviden	ce:					
Provide a complete list of driver system completeness measures the State uses, including the most current baseline and actual values for each.					Question Rank: Very Important	
Assessor conclusion	ons:					
The online and batch system edits require accuracy, completeness, and uniformity in excess of 99% of the data stored in the MODL system. However, the State should maintain supporting documentation detailing the list of driver system accuracy measures, including the most current baseline and actual values for each.						
Respondents assigned	2	Responses received	1	Response rate	50%	



# **Question 155:**

Are there uniformity performance measures tailored to the needs of data managers and data users?

# Standard of Evidence:

Provide a complete list of driver system uniformity measures the State uses, including the most current baseline and actual values for each.

#### Assessor conclusions:

The online and batch system edits require accuracy, completeness, and uniformity in excess of 99% of the data stored in the MODL system. However, the State should maintain supporting documentation detailing the list of driver system accuracy measures, including the most current baseline and actual values for each.

Respondents assigned	2	Responses received	1	Response rate	50%
Question 156: Are there integration managers and data u		nce measures tailor	ed to the r	needs of data	
Standard of Eviden	ce:				
Provide a complete li including the most cu					Question Rank: Very Important
Assessor conclusion					
There is very limited measures.	driver sys	tem integration at th	nis time; th	erefore, there are	no performance
Respondents assigned	2	Responses received	1	Response rate	50%



**Question Rank:** 

Very Important

# Question 157:

Are there accessibility performance measures tailored to the needs of data managers and data users?

# Standard of Evidence:

Provide a complete list of driver system accessibility measures the State uses, including the most current baseline and actual values for each.

# Assessor conclusions:

There are no accessibility performance measures that are provided to data managers and data users.

Respondents assigned	2	Responses received	1	Response rate	50%

# Question 158:

Has the state established numeric goals—performance metrics—for each performance measure?

# Standard of Evidence:

Provide the specific, State-determined numeric goals associated with each performance measure in use.

# Assessor conclusions:

Missouri has not established numeric goals—performance metrics—for each performance measure.

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	--------------------	---	------------------	-----	--



Question Rank: Somewhat Important

**Question Rank:** 

Very Important

# Question 159: Is the detection of high frequency errors used to generate updates to training content and data collection manuals, update the validation rules, and prompt form revisions? Standard of Evidence: Provide the formal methodology or describe the process by which high

Frovide the formal methodology or describe the process by which high frequency errors are used to generate new training content and data collection manuals, update the validation rules, and prompt revisions.

#### Assessor conclusions:

The MODL System utilizes system-generated reports, error files, and employee monitoring to determine errors. High frequency errors may result in additional end-user training or enhancements to the system edits and validations.

Respondents assigned	2	Responses received	1	Response rate	50%
Question 160: Are independent san reports and related c				y for the driver	
Standard of Eviden	ce:				
Describe the formal a output, and specify the			sample rep	port or other	Question Rank: Somewhat Important
Assessor conclusion	ons:				
Independent sample related database cor			ted periodi	cally for the drive	r reports and
Respondents assigned	2	Responses received	1	Response rate	50%

# Question 161:

Are periodic comparative and trend analyses used to identify unexplained differences in the data across years and jurisdictions?

#### Standard of Evidence:

Describe the analyses, provide a sample report or other output, and specify the analyses' frequency.

#### Assessor conclusions:

Periodic comparative and trend analyses are not used to identify unexplained differences in the data across years and jurisdictions.

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	-----------------------	---	------------------	-----	--

#### Question 162:

Is data quality feedback from key users regularly communicated to data collectors and data managers?

#### Standard of Evidence:

Describe the process for transmitting and utilizing key users' data quality feedback to inform changes.

#### Assessor conclusions:

Data quality feedback from key users is not regularly communicated to data collectors and data managers.

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	--------------------	---	------------------	-----	--

#### Question 163:

Are data quality management reports provided to the TRCC for regular review?

#### Standard of Evidence:

Provide a sample quality management report and specify how frequently they are issued to the TRCC.

#### Assessor conclusions:

Missouri does not have data quality management reports that are provided to the TRCC for regular review. A strong TRCC can be of great value to a State and this is highly recommended.

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	-----------------------	---	------------------	-----	--



**Question Rank:** Very Important

Question Rank: Somewhat

Important

# Roadway

Safety data is the key to making sound decisions on the design and operations of roadways. Critical safety data includes not only crash information but also traffic data, speed data, roadway data, and other files. The backbone of all data is dependent on an accurate and up-to-date roadway information system to which all other data events can be associated within an enterprise system. This then becomes the integrated system which allows for housing improved and more robust safety data. Producing quality, timely, and shareable data is important to improving traffic safety. In the Moving Ahead for Progress in the 21st Century Act (MAP 21), the importance of using these multiple data sources to understand and remediate highway safety issues was recognized. With limited resource allocation for safety, projects and improvements should be based on effective decision-making.

With MAP 21, it was also anticipated that States would move forward in capturing and inventorying data for all public roadways, not just State-maintained roadways. This is an enormous task, but for a State to fully realize and understand any safety problems they may experience, a need exists for a complete and accurate inventory of all roadway attributes. With usually limited resources available, smart decisions are required to move forward.

Missouri has a base-map with the ability to show all public roadways which are located using MoDOT's location referencing system. This map has the capability of displaying roadway and traffic volumes on State-maintained roadways. All inventoried assets use the same referencing system. Though not all public roadways are populated, the structure is available to handle it. The enterprise system can also locate elements from other data systems, such as bridge and pavement. Crashes are shown on both State and non-State-maintained roadways. These are used for safety analysis and to produce the Highway Safety Plan.

The State collects a majority of the MIRE FDEs, with many collected on all public roadways and others only on State-maintained roadways. Additional elements are also collected and do conform to the MIRE definitions.

All data collected is shown in the State's data dictionary, whether State or non-State-maintained. Updates to the tables and applications are performed on a monthly basis and tracked through the Transportation Planning Staff ensuring all changes occur. Other processes are documented with steps necessary to add new elements and roadway changes.

The State's TMS incorporates all of the data inventories such as crash, bridge, functional class, traffic, surface type, and right of way. Every data element requiring a location uses the same linear referencing tables and methodology to be stored and conversely retrieved.

Roadway Data Managers have reports produced on a quarterly basis to review and analyze data for corrections. Error/edit checks occur at two different times to provide quality control. Training and documentation explaining how to provide fixes to inventories are on the TMS SharePoint page. Any errors found are expected to be edited at once.

Overall Missouri has a roadway system with capabilities to locate all data elements. These can

then be used for any type of studies necessary to provide remedial safety programs and planning for the future.

After this review a couple of areas were noticed that should be looked at for future enhancements of the State's capabilities. First, and probably most important, would be to engage the TRCC along with the counties and local municipalities, to work toward integrating data in the enterprise system. This would not be a short term project but one which will take an enormous amount of planning and collaboration. However, once this system is in place, all roadway attribute data, crashes, speed, traffic , and geometrics will be together as one source for Statewide planning. Additionally this should become an open portal for all users to retrieve and analyze safety data.

Secondly, of extreme importance is the development of performance measures that are monitored on an on-going basis. Performance measures should cover all aspects of the systems. These should cover the performance attributes of timeliness, accuracy, completeness, uniformity, integration, and accessibility. Once local data is being integrated into the enterprise system, a set of performance measures will need to be written to cover those processes and data quality also. The State is encouraged to review NHTSA's February 2011 document "Model Performance Measures for State Traffic Records Systems". This will assist in creating these necessary measures and metrics.

Lastly, a consideration for beginning to improve the roadway data system in the State of Missouri would be to review the "Data Capabilities Assessment" conducted by the Federal Highway Administration. Each State was comprehensively assessed in terms of the collection, management, and use of roadway safety data. That document, in conjunction with this assessment, may assist in identifying further strengths and opportunities presently available.

A comprehensive road map is necessary to move forward and needs to engage the TRCC and other users Statewide. Any programs or data improvements should then become a part of the State's Traffic Records Strategic Plan.

# Question 164:

Are all public roadways within the State located using a compatible location referencing system?

#### Standard of Evidence:

Provide a map displaying all public roads that represents the system's statewide capabilities. Identify what percentage of the public road system is State owned or maintained. Explain whether the State uses a single Qu compatible location referencing system for all public roads or if it has a set of compatible location referencing systems. Prior reports are acceptable.

# Assessor conclusions:

The State uses a compatible referencing system for all roads, of which 26% are State-maintained. All public roadways in Missouri are located using MoDOT's location referencing system.

Respondents assigned	2	Responses received	1	Response rate	50%
Question 165: Are the roadway and location referencing			using a co	ompatible	
Standard of Evider	nce:				
Provide a map displ public roads (State system's statewide compatible location compatible location	Question Rank: Very Important				
Assessor conclusi					
The State has the c roadways. The road on the State should	way and tra	affic data use the sa	me locatio	n referencing syste	

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	-----------------------	---	------------------	-----	--



Question Rank: Very Important

# **Question 166:**

Is there an enterprise roadway information system containing roadway and traffic data elements for all public roads?

# Standard of Evidence:

Describe the enterprise roadway information system, which should enable linking between the various roadway information systems including: roadway, traffic, location reference, bridge, and pavement data.



Question Rank: Very Important

#### Assessor conclusions:

The State does have an enterprise information system that can locate all roadway elements from the various databases they use, such as bridge and pavement. Though all data elements are not collected, the system is in place to do so in the future.

Respondents assigned	2	Responses received	1	Response rate	50%
Question 167: Does the State have system compatible w		•		ng a referencing	
Standard of Eviden					
Provide a map displa representative of the State uses a single c roadway features, an compatible location r	system's compatible nd traffic v	statewide capabiliti location referencin olume on all public	es. Explair ig system f roads or if	n whether the or crash, it has a set of	Question Rank: Very Important
Assessor conclusion					
All crashes use the s crashes on their non-			tem as roa	dway. The State	also shows
Respondents assigned	2	Responses received	1	Response rate	50%

Question 168: Is crash data incorpor safety analysis and m		•	way informa	tion system for	
Standard of Evidence	;e:				
Describe how the cra information system ar analysis.					Question Rank: Very Important
Assessor conclusio The State's crash dat management use. Th focus on safety strate	a housed e attribute	•			, ,
Respondents assigned	2	Responses received	1	Response rate	50%
Question 169:					
Are all the MIRE Fund		Data Elements col	lected for al	l public roads?	
Provide a list of FDEs collected is for all pub the data dictionary dir	lic roads	or State roads only	. If the State		Question Rank: Somewhat Important
Assessor conclusio					
The State collects a n where others are only				collected on all p	oublic roadways,

# Question 170:

Do all additional collected data elements for any public roads conform to the data elements included in MIRE?

# Standard of Evidence:

Provide a list of additional MIRE data elements collected beyond the FDEs. Specify if the data elements are collected for all public roads or State roads only.

# Assessor conclusions:

There are elements collected outside of the fundamental data elements. The elements collected outside of the FDEs conform to MIRE definitions.

Respondents 2 Responses assigned received	1 Response 50 rate 50	0%
---	--------------------------	----

# Question 171:

Are all the MIRE Fundamental Data Elements for all public roads documented in the enterprise system's data dictionary?

# Standard of Evidence:

Identify, with appropriate citations, the MIRE FDE-related contents of the enterprise system's data dictionary. Specify if the data dictionary applies to all public roads or to State roads only.

# Assessor conclusions:

From previous references to FDE elements, the data elements are collected and included in the enterprise database. The data dictionary is a description of all of these elements whether State or non-State-maintained.

assigned <b>f</b> received rate
---------------------------------



Question Rank: Somewhat Important

Question Rank: Somewhat Important

Assessor conclusion The State does not of systems.		nport local or munic	ipal roadw	ay inventory into	the State's
	ne.				
Provide a narrative s accepted and include municipal sources. D the data dictionary st	ed in the st Describe if t tandards.	tatewide roadway d	atabase fro	om local or	Question Rank: Very Important
Standard of Eviden	ce:				
Question 173: Does roadway data in data dictionary?	mported fro	om local or municip	al sources	comply with the	
Respondents assigned	2	Responses received	1	Response rate	50%
Assessor conclusion All data collected is a including non-Funda	shown in th		onary whet	ther State or non-	State-maintained,
Identify, with approprietements included in to all public roads or	the data d	ictionary. Specify if			Question Rank: Somewhat Important
Standard of Eviden	ce:				
all public roads docu		ental Data Element the data dictionary	,	ta elements for	
Are all additional (no					

# Question 174:

Is there guidance on how and when to update the data dictionary?

#### Standard of Evidence:

Provide a narrative explanation of the controls and procedures that ensure the data dictionary is kept up to date.

Question Rank: Very Important

**Question Rank:** 

Very Important

#### Assessor conclusions:

Updates to tables and applications are performed on a monthly basis. All change requests are tracked through the Transportation Planning staff to ensure all changes occur.

Respondents assigned	2	Responses received	2	Response rate	100%	
-------------------------	---	-----------------------	---	------------------	------	--

# Question 175:

Are the steps for incorporating new elements into the roadway information system (e.g., a new MIRE element) documented to show the flow of information?

#### Standard of Evidence:

Provide documentation or a narrative explaining the process for adding new data elements (e.g., a new MIRE element) to the roadway system. Identify who is responsible for each step in the process.

#### Assessor conclusions:

The State has developed and documented a process necessary to add a new data element to the roadway system.

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	-----------------------	---	------------------	-----	--

#### Question 176:

Are the steps for updating roadway information documented to show the flow of information?

# Standard of Evidence:

Provide documentation or a narrative explaining the process for updating data elements in the roadway system. Identify who is responsible for each step in the process.

# Assessor conclusions:

The State maintains a flow chart to show steps taken to update the Statewide route inventory. These are performed by the GIS staff in the Transportation Planning division.

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	-----------------------	---	------------------	-----	--

# Question 177:

Are the steps for archiving and accessing historical roadway inventory documented?

# Standard of Evidence:

Provide documentation or a narrative explaining the process of archiving and Question Rank: accessing historical roadway data. Identify who is responsible for each step in the process.

# Assessor conclusions:

Archival of data is performed every year by the Information Systems developers using a series of ORACLE scripts. The steps for archiving and accessing historical roadway inventory are documented and handled by the Information Systems developers.

Respondents 2 Responses assigned received	1 Response rate	50%
--	--------------------	-----



**Question Rank:** Very Important

Somewhat

Important

# Question 178:

Are the procedures that local agencies (e.g., county, MPO, municipality) use to collect, manage, and submit roadway data to the statewide inventory documented?

# Standard of Evidence:

Provide documentation or a narrative explaining the local agency procedures **Question Rank:** for collecting, managing, and submitting data to the State roadway inventory. Identify who is responsible for each step in the process.

#### Assessor conclusions:

The State works with localities to capture information which is then updated to the State's systems.

Respondents 2	Responses	1 Response	50%
assigned	received	rate	

# Question 179:

Are local agency procedures for collecting and managing the roadway data compatible with the State's enterprise roadway inventory?

#### Standard of Evidence:

Provide official documentation or a narrative explanation of how compatibility between local data systems and the State roadway inventory is achieved. Identify who is responsible for each step in the process.



**Question Rank:** 

Very Important

Somewhat

Important

# Assessor conclusions:

The State does not import local agency data. A pilot project is in the works to develop a tool that would allow an interface between the State and localities.

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	-----------------------	---	------------------	-----	--

# Question 180:

Are there guidelines for collection of data elements as they are described in the State roadway inventory data dictionary?

# Standard of Evidence:

Provide the guidelines and cite an example of data collection pursuant to the data dictionary.

# Assessor conclusions:

The State has a process for collection of short-term traffic counts as described in the Traffic Monitoring Guide. There are also guidelines for covering the collection of HPMS data elements and guidelines regarding the collection of crash data.

Respondents assigned	2	Responses received	1	Response rate	50%	

# **Question 181:**

Are the location coding methodologies for all State roadway information systems compatible?

# Standard of Evidence:

Describe the location referencing system and the information systems that use it. If there is more than one location referencing system in use, list each and the associated systems.

# Assessor conclusions:

TMS incorporates all of the data inventories such as crash, bridge, functional class, traffic, surface type, right of way, etc. Every data element for which a location could apply uses the same LRS tables and methodology to store and retrieve location information, thus integrating all data in the system.

Respondents 2 Responses assigned 2 received	2 Response rate	100%
--	--------------------	------



Question Rank: Very Important



**Question Rank:** 

Very Important

# Question 182:

Are there interface linkages connecting the State's discrete roadway information systems?

# Standard of Evidence:

Provide a narrative that describes the interface links connecting the State's roadway information systems. Provide the result of a single query (e.g., table, view) that includes both roadway features and traffic data for a segment of road.

# Assessor conclusions:

The State has documentation showing a distinct query that is possible. Since all data resides in the enterprise database, the State is able to link various tables for the purpose necessary.

**Question Rank:** 

Very Important

Respondents assigned	2	Responses received	2	Response rate	100%
Question 183: Are the location codir systems compatible?	ng methoo	dologies for all regio	nal and lo	cal roadway	
Standard of Evidence	ce:				
Provide a narrative de associated regional a location referencing s local systems.	nd local r	oadway systems. If	there is m	ore than one	Question Rank: Somewhat Important
Assessor conclusio					
There is only one loca non-State-maintained		0,	he State a	nd it is used for bo	oth State and
Respondents assigned	2	Responses received	1	Response rate	50%

# Question 184:

Do roadway data systems maintained by regional and local custodians (e.g., MPOs, municipalities) interface with the State enterprise roadway information system?

# Standard of Evidence:

Provide a narrative that describes the interface links connecting the regional or local roadway information systems to the State's enterprise roadway information system. Provide the result of a single query (e.g., table, view) that includes both roadway features and traffic data for a local road segment.

# Question Rank: Somewhat Important

rate

#### Assessor conclusions:

assigned

The State roadway data systems at the regional and local levels do not interface with the Statewide roadway system. There is a pilot project with St. Louis County and the city of Springfield, the objective of which is to develop a tool that would interface local data into the Statewide database.

Respondents assigned	2	Responses received	2	Response rate	100%	
Question 185:					$\frown$	
Does the State entern transportation agence				MPOs and local		
Standard of Eviden	ce:					
Provide a narrative the localities to query the			rocess tha	t enables	Question Rank: Somewhat Important	
Assessor conclusion	ons:					
The MPOs and RPCs, by request, are being set up to have access to virtual machines in order to access data in the Statewide database. They can access applications that display data. The State can also provide the data upon request.						
Respondents	2	Responses	1	Response	50%	

received

# **Question 186:**

Do Roadway system data managers regularly produce and analyze data quality reports?

#### Standard of Evidence:

Provide a sample report and specify the release schedule for the reports.

#### Assessor conclusions:

Roadway Data Managers have reports usually created on a quarterly basis to review and analyze data. These are cross-check validations that are printed out so that employees may research the data and then make corrections as necessary in the database.

Respondents 2 Responses assigned 2 received	2	Response rate	100%	
---	---	------------------	------	--

# **Question 187:**

Is the overall quality of information in the Roadway system dependent on a formal program of error/edit checking as data is entered into the statewide system?

# Standard of Evidence:

Describe the formal program of error/edit checking, to include specific procedures for both automated and manual processes.

#### Assessor conclusions:

The State has error/edit checks at two different times: at time of entry when data is validated and verified visually on a map, and as nightly reports are run indicating if there are items to investigate. Further checking is also accomplished through quarterly check reviews.

Respondents assigned2Responses received2Response received	100%
--	------

Very Important



**Question Rank:** 

Very Important

errors are displayed. S with districts making a			ing is resp	onsible for correc	cting most errors
The State has proces	ses by w A batch	job is run nightly the	at validates	s data types in th	e database and
data collectors.					Question Rank: Very Important
Describe all the proce	dures us	ed for sharing quali	ty control i	nformation with	Question Bank
Standard of Evidenc	e:				
collectors through indi					
<b>Question 189</b> : Are there procedures	for chori		formation	with data	
assigned	2	received	2	rate	100%
system updates are e on prioritization of fixir are found. Some error changes, would receiv Respondents	ng errors, rs, such a ve priority	however all detecte as vertical clearance	ed errors a	re expected to be	corrected as they
The State process is on the state process is one to change or maintain average or maintain average of the state of the sta	system	data. Errors are cor	rected as f	ound and those r	esulting from GIS
Assessor conclusion					
Describe the procedures of the procedures and n procedures are formation of the procedures are	nanual pi	ocesses. Please sp			Question Rank: Very Important
Standard of Evidenc	e:				
Others designed of East dates					
Are there procedures	for priorit	tizing and addressir	ng detected	l errors?	

Question 190:					
	hliched ne		o for the tim	maliness of the	
Is there a set of estal State enterprise road			es for the tir	meliness of the	
Standard of Eviden	ce:				
Provide the metrics u	ised.			_	Question Rank: Very Important
Assessor conclusion	ons:				
The State did not pro		plished performance	measures	or metrics for the	timeliness of the
State roadway system					
Respondents assigned	2	Responses received	2	Response rate	100%
0					
Question 191:		,	<b>•</b> • • •		
Is there a set of estal roadway data mainta MPOs, etc.)?					
Standard of Eviden	ce:				
Provide the metrics used.					Question Rank: Somewhat
Assessor conclusion	ons:				Important
No performance mea maintained by region			ed for the ti	imeliness of roadv	vay data
Respondents assigned	2	Responses received	2	Response rate	100%
Question 192:					
Is there a set of estal State enterprise road			es for the a	ccuracy of the	
Standard of Eviden	ce:				
Provide the metrics u	ised.			_	Question Rank: Very Important
Assessor conclusion					
The State has not es		•	ures or met	rics for the accura	acy of the State
enterprise roadway in	ntormation	n system.			

0 11 100					
Question 193:			<b>6</b> (1	6.0	
Is there a set of estab roadway data maintai MPOs, etc.)?					
Standard of Evidence	e:				
Provide the metrics u	sed.			·	Question Rank: Somewhat
Assessor conclusio	ns:				Important
There were no establ roadway data maintai				s provided for the	e accuracy of
Respondents assigned	2	Responses received	2	Response rate	100%
Question 194:					$\frown$
Is there a set of established state enterprise re			s for the c	ompleteness of	
Standard of Evidence	e:				
Provide the metrics u	sed.				Question Rank: Very Important
Assessor conclusio	ns:				
The State has not est State enterprise road		•	ires or met	trics for the comp	pleteness of the
Respondents assigned	2	Responses received	2	Response rate	100%
Question 195:					
Is there a set of establisher roadway data main (municipalities, MPOs	intained l				
Standard of Evidence	e:				
Provide the metrics u	sed.				Question Rank: Somewhat
Assessor conclusio	ns:				Important
The State has not est roadway data maintai		•		trics for the comp	pleteness of the
Respondents	2	Responses		Response	

#### Question 196:

Is there a set of established performance measures for the uniformity of the State enterprise roadway information system?

#### Standard of Evidence:

Provide the metrics used.

#### Assessor conclusions:

The State has not established performance measures or metrics for the uniformity of the State enterprise roadway information system. Business rules are not the same as a set of performance measures.

Respondents assigned	2	Responses received	1	Response rate	50%
Question 197:		-			$\frown$
Is there a set of estab roadway data maintain MPOs, etc.)?				-	
Standard of Evidenc	e:				
Provide the metrics us	sed.				Question Rank: Somewhat
Assessor conclusion	ns:				Important
The State has not esta data maintained by re			ires or me	trics for the unifo	rmity of roadway
Respondents assigned	2	Responses received	1	Response rate	50%
Question 198:					
Is there a set of estab	lichod na	orformanco moacuro	e for the c	accessibility of	
State enterprise roady			s ior the a		
Standard of Evidenc	e:				
Provide the metrics us	sed.				Question Rank: Very Important

#### Assessor conclusions:

The State has not established performance measures or metrics for the accessibility of State enterprise roadway information systems.

Respondents assigned	2	Responses received	1 Response rate	50%
-------------------------	---	--------------------	--------------------	-----



Question 199:					
Is there a set of estat	olished pe	rformance measure	s for the a	ccessibility of	
the roadway data ma	•			•	
(municipalities, MPOs		, <u>.</u>		-	
(	.,,.				
Standard of Evidence	<u>م.</u>				
Provide the metrics u					Question Rank:
	13CU.				Somewhat
Assessor conclusio	ne				
ASSESSOI CONCIUSIO	/15.				Important
The State has not est	blichodu	porformanco moacu	roc or mot	rice for the acces	scibility of roadway
The State has not est data maintained by re			les of met	incs for the acces	Sibility of Toadway
uala maintaineu by re	-gional an				
Respondents		Responses		Response	
assigned	2	received	1	rate	50%
assigned		Tecerveu		Tate	
•					
Question 200:					
Is there a set of estab				<b>v</b>	
State enterprise road	way inform	mation systems and	other critic	cal data	
systems?					
Standard of Evidence	ce:				
Provide the metrics u	ised.				Question Rank:
					Very Important
Assessor conclusio	noi				
ASSESSOF CONCIUSIO	MIS.				
The State has not est		performance measu	res or met	rics for the integ	
The State has not est	tablished	•			
	tablished	•			
The State has not est enterprise roadway in	tablished nformatior	systems and other	critical dat	a systems.	ration of State
The State has not est	tablished	•			
The State has not est enterprise roadway in Respondents	tablished nformatior	systems and other Responses	critical dat	a systems. Response	ration of State
The State has not est enterprise roadway in Respondents assigned	tablished nformatior	systems and other Responses	critical dat	a systems. Response	ration of State
The State has not est enterprise roadway in Respondents assigned Question 201:	tablished nformatior 2	Responses received	critical dat	a systems. Response rate	ration of State
The State has not est enterprise roadway in Respondents assigned Question 201: Is there a set of estat	tablished nformation 2 blished pe	Responses received	critical dat 1 s for the in	a systems. Response rate tegration of the	ration of State
The State has not est enterprise roadway in Respondents assigned Question 201: Is there a set of estat roadway data mainta	tablished nformation 2 blished pe ined by re	received	critical dat 1 s for the in	a systems. Response rate tegration of the	ration of State
The State has not est enterprise roadway in Respondents assigned Question 201: Is there a set of estat	tablished nformation 2 blished pe ined by re	received	critical dat 1 s for the in	a systems. Response rate tegration of the	ration of State
The State has not est enterprise roadway in Respondents assigned Question 201: Is there a set of estate roadway data mainta MPOs, etc.) and othe	tablished nformation 2 blished pe ined by re er critical c	received	critical dat 1 s for the in	a systems. Response rate tegration of the	ration of State
The State has not est enterprise roadway in Respondents assigned Question 201: Is there a set of estat roadway data mainta MPOs, etc.) and other Standard of Evidence	tablished nformation 2 blished pe ined by re er critical c ce:	received	critical dat 1 s for the in	a systems. Response rate tegration of the	ration of State 50%
The State has not est enterprise roadway in Respondents assigned Question 201: Is there a set of estate roadway data mainta MPOs, etc.) and othe	tablished nformation 2 blished pe ined by re er critical c ce:	received	critical dat 1 s for the in	a systems. Response rate tegration of the	ration of State 50%
The State has not est enterprise roadway in Respondents assigned Question 201: Is there a set of estab roadway data mainta MPOs, etc.) and other Standard of Evidence Provide the metrics u	2 blished pe ined by re or critical c ce: used.	received	critical dat 1 s for the in	a systems. Response rate tegration of the	ration of State 50%
The State has not est enterprise roadway in Respondents assigned Question 201: Is there a set of estate roadway data mainta MPOs, etc.) and othe Standard of Evidence Provide the metrics un Assessor conclusion	ablished oformation 2 blished pe ined by re er critical of ce: used. ons:	n systems and other Responses received	critical dat 1 s for the in todians (m	a systems. Response rate tegration of the nunicipalities,	ration of State 50%
The State has not est enterprise roadway in Respondents assigned Question 201: Is there a set of estate roadway data mainta MPOs, etc.) and othe Standard of Evidend Provide the metrics un Assessor conclusion There are no establis	2 blished pe ined by re cr critical c ce: used. bns: shed perfo	rformance measures ata systems and other	todians (m	a systems. Response rate tegration of the nunicipalities, or the integration	ration of State 50%
The State has not est enterprise roadway in Respondents assigned Question 201: Is there a set of estate roadway data mainta MPOs, etc.) and othe Standard of Evidence Provide the metrics un Assessor conclusion	2 blished pe ined by re cr critical c ce: used. bns: shed perfo	rformance measures ata systems and other	todians (m	a systems. Response rate tegration of the nunicipalities, or the integration	ration of State 50%
The State has not est enterprise roadway in Respondents assigned Question 201: Is there a set of estate roadway data mainta MPOs, etc.) and othe Standard of Evidence Provide the metrics un Assessor conclusion There are no establis maintained by region	2 blished pe ined by re cr critical c ce: used. bhed perfo al and loc	received Responses received rformance measures gional and local cus lata systems?	todians (m	a systems. Response rate tegration of the nunicipalities, or the integration I data systems.	50%
The State has not est enterprise roadway in Respondents assigned Question 201: Is there a set of estate roadway data mainta MPOs, etc.) and other Standard of Evidence Provide the metrics un Assessor conclusion There are no establis	2 blished pe ined by re cr critical c ce: used. bns: shed perfo	rformance measures ata systems and other	todians (m	a systems. Response rate tegration of the nunicipalities, or the integration	ration of State 50%

# **Citation / Adjudication**

The Missouri court system has only a small percentage of local courts using the same system as other courts throughout the State. It is unknown whether all of the systems used throughout the different local courts adhere to the same standards. Without the use of standards, it makes it more difficult to integrate multiple court systems. There is a need to standardize the court systems throughout the State in order to use the data for various performance measures and analyses at a Statewide level. The ability to look at multiple jurisdictions and the way cases are handled should be something the State is interested in. The State's ability to ensure that similar violations and cases across the State are being handled in similar ways may lead to a better overall traffic safety program. Using standards within the State would make this integration easier if the idea of using one system for all of the court systems would not be feasible.

Missouri has a baseline and potential to have a great citation tracking system. The State has a central authority to issue citation numbers. A tracking system will provide valuable insight into the scope of traffic enforcement within the State as well as the disposition of cases by the courts. The system will also indicate whether there is different treatment of like offenses across geographic areas or the various courts throughout the State. Not only will a tracking system assist in the enforcement and monitoring of the enforcement efforts, but it will also allow the State to identify missing citations throughout the process. With a paper process still in use, there is potential for citations to not make it to the Court in an expeditious manner. Performance measures can use certain metrics from a tracking system to improve the overall citation and adjudication systems.

With a data dictionary not available for the court system, it is difficult for individuals who want to use the data to know what is available. Even though the system may be proprietary, the data dictionary should still be made available for key stakeholders within the State to promote the integration and linking of citation and adjudication data to other traffic safety systems.

Missouri's DUI tracking system does not meet the standard of MIDRIS. The MIDRIS model is more of an interactive system that provides for tracking of everything from fines and costs to treatment, education, and sanctions. This model system is meant to be accessible by all those who interact with DUI offenders from the alcohol assessors, the probation department, to those who develop curricula for DUI education to licensed treatment providers and the DMV. The system would provide insight and statistics on which types of services and interventions are most effective in preventing recidivism, ensuring court-ordered sanctions are completed or complied with, and to prevent any effort to reinstate driving privileges until all necessary requirements have been met by the offender. When a DUI tracking system is in place across the State, metrics and measures can be monitored more efficiently.

There are no interfaces between the citation/adjudication systems and other traffic records systems within the State. A paper process and manual intervention is required to post disposition data to the driver record. Eliminating a paper process will reduce errors and assist with ensuring information is posted to the driver and vehicle records in a timely manner. Leveraging standards in place for the majority of the systems and coordinating the accessibility of the data throughout the various systems will allow the State to gain a better perspective of what is available. Using the adjudication data in conjunction with other traffic records systems also allows for analyses to

better respond to trends and identify problem areas throughout the State.

Unless data from every court that adjudicates traffic violations were to be submitted to a Statewide system, it is difficult to ascertain information and metrics on the handling of traffic cases Statewide. Metrics such as the number of citations that are submitted by law enforcement, but not filed by prosecutors; the amount of plea bargaining that takes place; and whether there are regional variations in conviction rates of serious cases cannot be established. These are all important aspects of traffic safety data that are not readily accessible from the driver file since it is a repository of convictions, rather than citations. Having a citation tracking system that incorporates the entire lifecycle of a citation will allow the State to evaluate the metrics mentioned.

Performance measures are not present. With performance measures in place, the State will be able to identify degradation of system processes. Performance measures also help identify areas of improvement across multiple system interfaces. These measures are meant to assist in decision-making, resource allocation, and system performance. They are not meant to determine how fast data is received from other sources or evaluate outside agency performance, but to evaluate the internal processes of the specific system and how it may relate to other traffic records systems. Performance measures should not be mistaken for processes and workflow of the data within the system. Performance measures should be quantifiable with the ability to set a baseline and monitor changes within. This will not only assist with determining the system components that may need improvement, but also the improvements a system has made within the process. This will then assist in maintaining the highest standard possible for the systems which meet or exceed the performance measures that are monitored.

#### Question 202:

Is there a statewide system that provides real-time information on individuals' driving and criminal histories?

#### Standard of Evidence:

Provide a narrative description of the statewide system that provides realtime information on individuals' driving and criminal histories.

Question Rank: Very Important

#### Assessor conclusions:

Approximately 40 percent of the courts use the system in which information is widely available in real-time.

Respondents assigned	3	Responses received	1	Response rate	33.3%
-------------------------	---	-----------------------	---	------------------	-------

Question 203:

assigned

#### Do all law enforcement agencies, parole agencies, probation agencies, and courts within the State participate in and have access to a system providing real-time information on individuals driving and criminal histories? Standard of Evidence: Name the groups that have real time access and describe the system that these agencies use to access driver or criminal histories, i.e., police dispatch, **Question Rank:** direct system access, telephone help desk. Very Important Assessor conclusions: Appropriate personnel have access to court information. Driver history information may include administrative sanctions and other information that would not be available through the court system, i.e., administrative withdrawal of licenses, license denial, etc. and no information is available about access to the driver history record. Respondents Responses Response 3 2 66.7% assigned received rate Question 204: Is there a statewide authority that assigns unique citation numbers? Standard of Evidence: Identify the agency responsible and describe the protocols used to generate and assign unique citation numbers. Provide a copy of the relevant statute or **Question Rank:** Very Important gubernatorial order. Assessor conclusions: The Missouri Highway Patrol is the responsible agency by statute to assign unique citation numbers to local law enforcement agencies to ensure numbers do not duplicate. Respondents Responses Response 2 2 100%

received

rate

#### Question 205:

Are all citation dispositions—both within and outside the judicial branch—tracked by the statewide data system?

#### Standard of Evidence:

If a statewide data tracking system exists, describe the means by which citation dispositions are transmitted and posted. If the system is the driver history file, note if deferrals or dismissals are posted. If the statewide system is managed through the courts, indicate whether all courts that handle traffic violations report to the same tracking system.

# Assessor conclusions:

Citations with dispositions through the court are tracked. There is no indication that citations that prosecutors choose not to file, or those with deferred adjudications are also tracked, since they are not disposed until the period of deferral is complete. Also, those courts which are not part of the Judicial Information System do not appear to be centrally tracked anywhere. Citation tracking would require a centralized file of all citations written, including original charges, pleas, plea-bargains, deferrals, and determinations not to file. This type of tracking allows the State to determine if charges are not filed, whether a problem exists with officer training, or if some geographic areas of the State or some courts consistently treat some violations differently.

Respondents assigned	3	Responses received	3	Response rate	100%	
-------------------------	---	-----------------------	---	------------------	------	--

#### Question 206:

Are final dispositions (up to and including the resolution of any appeals) posted to the driver data system?

#### Standard of Evidence:

Provide a flow chart or audit report documenting how all types of dispositions **Question Rank:** Somewhat

#### Assessor conclusions:

The State flowchart includes processes but does not cover all types of dispositions and how they would flow into the court system and be sent to the driver record. The appeal process was also described, but not each type of disposition.

Respondents assigned	3	Responses received	2	Response rate	66.7%	
-------------------------	---	-----------------------	---	------------------	-------	--

Question Rank: Somewhat Important





Important

#### Question 207:

Are the courts' case management systems interoperable among all jurisdictions within the State (including local, municipal and State)?

#### Standard of Evidence:

Provide the number of case management systems in use in the State and detail which are interoperable. Indicate if the State has a unified judicial system and if municipal or other local level courts share the same case management system.

# case Question Rank: Very Important

#### Assessor conclusions:

Circuit and many municipal courts' case management systems are interoperable. Of the 610 municipal courts, only 245 of those courts' cases appear within the Judicial Information System.

Respondents assigned	3	Responses received	2	Response rate	66.7%	
-------------------------	---	-----------------------	---	------------------	-------	--

#### **Question 208:**

Is citation and adjudication data used for traffic safety analysis to identify problem locations, areas, problem drivers, and issues related to the issuance of citations, prosecution of offenders, and adjudication of cases by courts?

#### Standard of Evidence:

Provide an example analysis and describe the policy or enforcement actions taken as a result.

Question Rank: Very Important

#### Assessor conclusions:

There is no indication that citation and adjudication data is used in analysis. Analysis of the data would include identifying problem locations or identifying issues with citation issuance or court adjudication. The only review done is of the individual driver's record to ascertain the appropriate sanction by the court. This is not the type of holistic traffic safety review that is intended by this question.

Respondents assigned	1	Responses received	1	Response rate	100%	
-------------------------	---	-----------------------	---	------------------	------	--

Do the appropriate components of the citation and adjudication systems adhere to the National Crime Information Center (NCIC) data guidelines?

#### Standard of Evidence:

Provide a narrative statement detailing the systems and their adherence to the NCIC guidelines. If not, specify if a comparable guideline is being used.

#### Assessor conclusions:

The court system does not directly relate to NCIC and does not internally conform to NCIC guidelines. While courts send the disposition data to the State Highway Patrol, it is not clear if the data meets NCIC guidelines.

Respondents assigned	4	Responses received	2	Response rate	50%	

#### Question 210:

Do the appropriate portions of the citation and adjudication systems adhere to the Uniform Crime Reporting (UCR) Program guidelines?

#### Standard of Evidence:

Provide a narrative statement detailing the systems and their adherence to the UCR program guidelines. If not, specify if a comparable guideline is being used.



#### Assessor conclusions:

The adjudication system does not follow UCR guidelines, but it is possible the data elements reported to the State Criminal Justice authority may adhere to the UCR guidelines.

Respondents 4 assigned	Responses received	2	Response rate	50%	
---------------------------	-----------------------	---	------------------	-----	--

Question Rank: Less Important

#### Question 211: Do the appropriate portions of the citation and adjudication systems adhere to the National Incident-Based Reporting System (NIBRS) guidelines? Standard of Evidence: Provide a narrative statement detailing the systems and their adherence to Question Rank: the NIBRS guidelines. If not, specify if a comparable guideline is being used. Somewhat Important Assessor conclusions: The court system does not adhere to NIBRS guidelines. Respondents Responses Response 4 2 50% assigned received rate Question 212: Do the appropriate portions of the citation and adjudication systems adhere to the National Law Enforcement Telecommunications System (NLETS) guidelines? Standard of Evidence: Provide a narrative statement detailing the systems and their adherence to **Question Rank:** the NLETS guidelines. If not, specify if a comparable guideline is being used. Somewhat Important Assessor conclusions: There are no NLETS guidelines used by the citation and adjudication system. However, NLETS requires compliance prior to use of its system, so it is likely that the law enforcement reporting that is done through NLETS is compliant. It is important to understand whether the convictions/warrants reported through NLETS undergoes some type of interpretive transaction at the State level before being input into the criminal history database.

Respondents assigned	4	Responses received	2	Response rate	50%	
-------------------------	---	--------------------	---	------------------	-----	--

#### Question 213:

Do the appropriate portions of the citation and adjudication systems adhere to the National Law Enforcement Information Network (LEIN) guidelines?

#### Standard of Evidence:

Provide a narrative statement detailing the systems and their adherence to the LEIN guidelines. If not, specify if a comparable guideline is being used.

#### Assessor conclusions:

The system used does not adhere to LEIN guidelines. LEIN guidelines apply only to the State of Michigan.

Respondents 4 assigned	Responses received	2	Response rate	50%	
---------------------------	-----------------------	---	------------------	-----	--

#### Question 214:

Do the appropriate portions of the citation and adjudication systems adhere to the Functional Requirement Standards for Traffic Court Case Management?

#### Standard of Evidence:

Provide a narrative statement detailing the systems and their adherence to the Functional Requirement Standards for Traffic Court Case Management. If not, specify if a comparable guideline is being used.

#### Assessor conclusions:

Missouri utilizes the standards set forth by the Functional Requirement Standards for Traffic Court Case Management. All aspects are not automatic but the functionality is present.

Respondents assigned	3	Responses received	2	Response rate	66.7%
-------------------------	---	-----------------------	---	------------------	-------



Question Rank: Somewhat Important

**Question Rank:** 

Somewhat

Important

Question 215: Do the appropriate po	ortiona of	the aitation and adju	idioation a	vetome adhara	
to the NIEM Justice d		•	ucation sy	ystems adhere	
Standard of Evidend	ce:				
Provide a narrative st the NIEM Justice don is being used.					Question Rank: Somewhat Important
Assessor conclusio The State adheres to		1 guidelines within th	ne JIS syst	em.	
Respondents assigned	3	Responses received	2	Response rate	66.7%
Question 216: Does the State use th records?	ne Nationa	al Center for State C	Courts guid	elines for court	
Standard of Evidend	ce:				
Standard of Evidend Provide a narrative st NCSC guidelines for o being used.	atement				Question Rank Somewhat Important
Provide a narrative st NCSC guidelines for o being used.	atement o court reco				Somewhat
Provide a narrative st NCSC guidelines for o	atement o court reco <b>ns:</b> guideline	ords. If not, specify if is set forth by the Na	a compara ational Cen	able guideline is nter for State Cou	Somewhat Important
Provide a narrative st NCSC guidelines for o being used. Assessor conclusio The State adheres to	atement o court reco <b>ns:</b> guideline	ords. If not, specify if is set forth by the Na	a compara ational Cen	able guideline is nter for State Cou	Somewhat Important
Provide a narrative st NCSC guidelines for o being used. Assessor conclusio The State adheres to the Functional Requir Respondents	atement o court reco ns: guideline ement St	ords. If not, specify if as set forth by the Na andards for Traffic C <b>Responses</b>	a compara ational Cen Court Case	able guideline is nter for State Cou Management. Response	Somewhat Important Irts. This includes
Provide a narrative st NCSC guidelines for o being used. Assessor conclusio The State adheres to the Functional Requir Respondents assigned Question 217:	atement o court reco ns: guideline rement St 3	ords. If not, specify if as set forth by the Na andards for Traffic ( <b>Responses</b> <b>received</b>	a compara ational Cen Court Case 2	able guideline is ater for State Cou Management. Response rate	Somewhat Important Irts. This includes
Provide a narrative st NCSC guidelines for o being used. Assessor conclusio The State adheres to the Functional Requir Respondents assigned Question 217: Does the State use th	atement o court reco ns: guideline rement St 3 ne Global	ords. If not, specify if as set forth by the Na andards for Traffic ( <b>Responses</b> <b>received</b>	a compara ational Cen Court Case 2	able guideline is ater for State Cou Management. Response rate	Somewhat Important Irts. This includes
Provide a narrative st NCSC guidelines for o being used. Assessor conclusio The State adheres to the Functional Requir Respondents assigned Question 217: Does the State use th Standard of Evidence Provide a narrative st GRA guidelines. If no	atement of court reco ms: guideline rement St 3 ne Global ce: atement of t, specify	ords. If not, specify if as set forth by the Na andards for Traffic ( <b>Responses</b> <b>received</b> Justice Reference A detailing the systems	a compara ational Cen Court Case <b>2</b> Architecture s and their	able guideline is nter for State Cou Management. <b>Response</b> rate e (GRA)?	Somewhat Important urts. This includes 66.7%
Provide a narrative st NCSC guidelines for o being used. Assessor conclusio The State adheres to the Functional Requir Respondents assigned Question 217: Does the State use th Standard of Evidence Provide a narrative st	atement of court reco ns: guideline rement St 3 ne Global ce: atement of t, specify ns:	ords. If not, specify if as set forth by the Na andards for Traffic C <b>Responses</b> <b>received</b> Justice Reference A detailing the system if a comparable guid	a compara ational Cen Court Case 2 Architecture s and their deline is be	able guideline is nter for State Cou Management. <b>Response</b> rate e (GRA)?	Somewhat Important arts. This includes 66.7%

#### Question 218:

Does the State have an impaired driving data tracking system that meets the specifications of NHTSA's Model Impaired Driving Records Information System (MIDRIS)?

#### Standard of Evidence:

Provide a narrative statement detailing the systems and their adherence to MIDRIS guidelines. If not, specify if a comparable guideline is being used.

Question Rank: Somewhat Important

#### Assessor conclusions:

While the State has a system to track DUI offenders, the MIDRIS model is more of an interactive system that provides for tracking of everything from fines and costs to treatment, education, and sanctions. This model system is meant to be accessible by all those who interact with DUI offenders from the alcohol assessors, the probation department, to those who develop curricula for DUI education to licensed treatment providers and the DMV, to ensure that it is possible to determine which types of services and interventions are most effective in preventing recidivism. MIDRIS is more holistic in addressing the core problems that lead to impaired driving, by ensuring all those involved in DUI treatment and adjudication have a means by which to interact and track the violator through both the adjudication as well as the treatment processes.

Respondents	5	Responses	3	Response	60%
assigned	•	received	•	rate	

#### Question 219:

Does the citation system have a data dictionary?

#### Standard of Evidence:

Provide the data dictionary for the Statewide citation tracking system if one exists. If not, provide the data dictionary for the most widely used court case management system. Very Important

#### Assessor conclusions:

There is no data dictionary available for a citation system.

Respondents assigned 2 Responses received	1 Response rate	50%
---	--------------------	-----



#### Question 220:

Do the citation data dictionaries clearly define all data fields?

#### Standard of Evidence:

If a statewide citation tracking system exists, does its data dictionary clearly define all data fields. If there are two or more repositories of citation data, provide data dictionaries for the two largest. NOTE: This response does not require data dictionaries from individual law enforcement agencies that track their own citations—it refers to a statewide system or one used by multiple agencies.

#### Assessor conclusions:

There is no data dictionary maintained in the State.

assigned received rate
------------------------

#### Question 221:

Are the citation system data dictionaries up to date and consistent with the field data collection manual, training materials, coding manuals, and corresponding reports?

#### Standard of Evidence:

Provide a narrative describing the process—including timelines and the summary of changes—used to ensure uniformity in the field data collection manuals, training materials, coding manuals, and corresponding reports.

Question Rank: Very Important

#### Assessor conclusions:

No information was available related to the citation systems used throughout the State. Although there is no statewide citation tracking system, the information would be related to the systems in which the issuance of a citation occurs.

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	-----------------------	---	------------------	-----	--

#### Question 222:

Do the citation data dictionaries indicate the data fields that are populated through interface linkages with other traffic records system components?

#### Standard of Evidence:

Provide a list of data fields populated through interface linkages with other traffic records system components.

#### Assessor conclusions:

The State does not have a data dictionary or documentation showing interfaces to a citation or court system.

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	-----------------------	---	------------------	-----	--

#### Question 223:

Do the courts' case management system data dictionaries provide a definition for each data field?

#### Standard of Evidence:

Provide a list of Case Management Systems used by both State and local level courts and note if a data dictionary is available for each one. Provide a data dictionary for one State, one county/district, and one local (municipal) court if they do not use the same case management systems.

# Question Rank:

Very Important

#### Assessor conclusions:

Even proprietary systems should provide full documentation to the user community, to ensure that data entered into the system meets the form and format intended. It is also important that users and collectors of data have access to the data dictionary and to any edits and validation rules within the system to determine edits are working properly or to determine whether additional edits are necessary.

Respondents 3 assigned	Responses received	2	Response rate	66.7%
---------------------------	-----------------------	---	------------------	-------



Question Rank: Very Important

#### Question 224:

Do the courts' case management system data dictionaries clearly define all data fields?

#### Standard of Evidence:

Use the data dictionaries provided in response to Question 223.

3

#### Assessor conclusions:

assigned

A data dictionary should address the needs of the system administrator, the data collector, and the data user. Each field should have a definition of the data element and describe the exact information to be included and the format in which it is to be entered into the system. The functional specification document does not meet this definition of a data dictionary.

Respondents assigned	3	Responses received	2	Response rate	66.7%
Question 225: Do the courts' case r fields populated thro components? Standard of Eviden	ugh interfa				
Provide a list of data traffic records system	fields pop	0	face linkag	ges with other	Question Rank: Somewhat Important
Assessor conclusion There is potential to not show any other s	have an ir				information does
Respondents	3	Responses	2	Response	66 7%

received

2



Somewhat Important

66.7%

rate

#### Question 226: Do the prosecutors' information systems have data dictionaries? Standard of Evidence: Provide a data dictionary for the State prosecutors' office (State level courts **Question Rank:** that handle the most traffic violations). Indicate whether local prosecutors Somewhat (cities, counties) have one or numerous types of data systems. Important Assessor conclusions: A data dictionary for a system for the prosecutor's office was not available. Such systems are similar to court Case Management Systems, but are more specific to the prosecutorial duties, including restitution accounting, child support accounting, civil case management, and templates for subpoenas and for letters to victims, witnesses, etc. Respondents Responses Response 1 1 100% assigned received rate Question 227: Can the State track citations from point of issuance to posting on the driver file? Standard of Evidence: Provide a flow diagram documenting citation lifecycle process that identifies key stakeholders. Ensure that alternative flows are included (e.g., manual **Question Rank:** and electronic submission). Very Important Assessor conclusions: The citation can only be tracked beginning at the court. Receiving the citation is the first step in the process, but there is no ability to track a citation prior to the court receiving it. Tracking from issuance to the violator through to the court is important as well. Such tracking ensures that citations are not voided by officers without approval and gives a picture of how the prosecutors

treat various charges or traffic charges overall. Prosecutors have discretion as to their decision to charge, defer, or dismiss and it is important to know the extent of each of those decisions that occurs.

Respondents assigned 3	Responses 2 received	Response 66.7% rate
------------------------	-------------------------	---------------------

	2	Responses	1	Response	50%
Assessor conclusion Missouri has a well-of the process.		ed DUI tracking syste	em where t	hey can track DU	Il citations throug
Provide a flow chart processes, identifies criminal and adminis	all key sta trative cha	akeholders, and incl			Question Ran Very Importan
Standard of Eviden	ce:				
Is the State able to t		itations?			
Question 229:					
Respondents assigned	3	Responses received	2	Response rate	66.7%
Assessor conclusion Compliance is meas compliance on timelia Additional tracking of finds its way through "not filed by prosecu reporting for those c	ured at the ness is me f complian the syste tor" or "no	easured from the co ice would be helpful m or is, at the very l t received by the co	ourt to the e to the Stat east, acco	entry on the drive te to ensure that e ounted for in some	r record. every ticket issue e manner, such a
Accaccor conclused	ne <sup>.</sup>				
• · · · · · · · · · · · · · · · · · · ·		fied in the flow char			Question Ran Somewhat Important
Provide a narrative of citation lifecycle proo guidance documents		how the State meas			
citation lifecycle proc guidance documents	lescribing	how the State meas			
Provide a narrative of citation lifecycle proo guidance documents	<b>ce:</b> lescribing				

#### Question 230: Does the DUI tracking system include BAC and any drug testing results? Standard of Evidence: If no statewide DUI tracking system is in place, indicate whether the driver **Question Rank:** history record contains the BAC test results. Very Important Assessor conclusions: The DUI tracking system contains BAC, however the system is not able to handle drug test results. Respondents Responses Response 2 1 50% assigned received rate Question 231: Does the State have a system for tracking administrative driver penalties and sanctions? Standard of Evidence: Provide a narrative describing the protocol for reporting (posting) the penalty **Question Rank:** and/or sanction to the driver and/or vehicle file. Very Important Assessor conclusions: The State has a documented process for DUI per se and implied consent charges being entered onto the driver records. It does not appear that there is a connection to DUI arrest tracking to ensure that administrative sanctions match arrests. For this reason, it is very possible that some cases may not make it to the driver licensing authority for sanctions. There is also no information available on other driver-related penalties and sanctions that are posted to the driver record.

assigned freceived rate
-------------------------

### Question 232:

Does the State have a system for tracking traffic citations for juvenile offenders?

#### Standard of Evidence:



Question Rank:

Somewhat Important

Provide a flow chart that documents the processing of juvenile offenders' traffic citations, specifying any charges or circumstances that cause juveniles to be processed as adult offenders. **Question Rank:** Very Important

#### Assessor conclusions:

Juvenile citations are tracked, but not separately and not flagged as a juvenile offender.

Respondents assigned	3	Responses received	2	Response rate	66.7%	
-------------------------	---	-----------------------	---	------------------	-------	--

#### Question 233:

Does the State distinguish between the administrative handling of court payments in lieu of court appearances (mail-ins) and court appearances?

#### Standard of Evidence:

Provide a flow chart documenting the processing of administrative handling of court payments (mail-ins).

#### Assessor conclusions:

There is no difference in the handling of payments instead of court appearances, but the fine is higher if there is a court case. There is no indicator or way of understanding if the defendant paid the fine or requested a court date.

Respondents assigned	3	Responses received	2	Response rate	66.7%
-------------------------	---	--------------------	---	------------------	-------

# Question 234: Does the State track deferral and dismissal of citations? Standard of Evidence: Provide a flow chart documenting the deferral and the dismissal of citations. Assessor conclusions: The Highway Patrol tracks dismissals and deferrals for DUIs. There is no formal Statewide system that captures deferrals. This is a prosecutor function, but nothing is available to identify the process.

Respondents assigned	4	Responses received	4	Response rate	100%	
Question 225						
Question 235: Are there State and/or and charges?	r local crit	eria for deferring or	dismissing	traffic citations		
Standard of Evidence	e:					
Provide the criteria for	r deferring	g or dismissing traff	ic citations	and charges.	Question Rank: Somewhat	
Assessor conclusion	ns:				Important	
Discretion is allowed in Missouri without specific criteria upon which to base the de or dismiss a charge. This could result in different handling in each county.						
Respondents		Responses		Response		

Respondents 3 Responses assigned 3 received		100%
--	--	------

#### **Question 236:** If the State purges its records, are the timing conditions and procedures documented? Standard of Evidence: Provide a narrative documenting whether or not the State purges records. If **Question Rank:** so, list the types of records the State purges and provide the criteria for doing Somewhat SO. Important Assessor conclusions: Purging of records is documented by statute. Respondents Responses Response 3 2 66.7% assigned received rate **Question 237:** Are the security protocols governing data access, modification, and release officially documented? Standard of Evidence: Question Rank: Provide the official security protocols governing data access, modification, and release. Somewhat Important Assessor conclusions: Security controls are well documented through the Office of State Courts. Respondents Responses Response 3 2 66.7% assigned received rate

Question 238:					
Is citation data linked carry out administration interlock) and determ	ve actions ine the ap	(e.g., suspension,			
Standard of Evidence					
Describe how citation means administrative					Question Rank: Very Important
Assessor conclusio	ns:				
Most administrative a little information, othe and adjudication data process.	r than the	Highway Patrol pr	ocess, des	cribing the proce	ss to link citation
Respondents assigned	2	Responses received	1	Response rate	50%
Question 239:					
Is adjudication data li records and administ cancellation, interlock dispositions to the dri	rative actions) to deterr	ons (e.g., suspensi	on, revocat	ion,	
Standard of Evidend	e:				
Provide the results of information is used to charges and to post of	collect ce	rtified driver record			Question Rank: Very Important
Assessor conclusio	ns:				
Some courts submit c entered manually ont					but those are then
Respondents assigned	4	Responses received	3	Response rate	75%

#### Question 240:

Is citation data linked with the vehicle file to collect vehicle information and carry out administrative actions (e.g., vehicle seizure, forfeiture, interlock)?

#### Standard of Evidence:

Provide the results of a sample query and describe how the linked information is used to collect vehicle information and carry out administrative actions.

#### Assessor conclusions:

Citation data is not linked to the vehicle file in order to initiate administrative vehicle sanctions.

Respondents 2	Responses	1 Response	50%
assigned	received	rate	

#### Question 241:

Is adjudication data linked with the vehicle file to collect vehicle information and carry out administrative actions (e.g., vehicle seizure, forfeiture, interlock mandates and supervision)?

#### Standard of Evidence:

Provide the results of a sample query and describe how the linked information is used to collect vehicle information and carry out administrative actions.



#### Assessor conclusions:

There is no evidence that the data submitted to DOR is linked to the vehicle file. No information is available to indicate DOR is able to electronically update driver records.

Respondents assigned	4	Responses received	3	Response rate	75%	
-------------------------	---	-----------------------	---	------------------	-----	--

#### Question 242:

Is citation data linked with the crash file to document violations and charges related to the crash?

#### Standard of Evidence:

Provide the results of a sample query and describe how the linked **Question Rank:** information is used to document violations and charges related to the crash. Somewhat Important

#### Assessor conclusions:

Citation data is not linked to the crash data file.

Respondents 2	Responses	1 Response	50%
assigned	received	rate	



**Question Rank:** 

Somewhat

Important

#### Question 243: Is adjudication data linked with the crash file to document violations and charges related to the crash? Standard of Evidence: Provide the results of a sample query and describe how the linked Question Rank: information is used to document violations and charges related to the crash. Somewhat Important Assessor conclusions: No linkage exists between the crash and adjudication files to document charges within a crash. Response Respondents Responses 2 1 50% assigned received rate Question 244: Is there a set of established performance measures for the timeliness of the citation systems? Standard of Evidence: If there is a statewide citation tracking system in the State, provide timeliness Question Rank: measures used. If there are two or more centralized citation tracking Somewhat systems, provide timeliness measures for one of them. Important Assessor conclusions: No performance measures for timeliness of the citation system are given. There is no Statewide citation system.

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	--------------------	---	------------------	-----	--

Question 245:					
Is there a set of establis citation systems?	shed perf	formance measure	es for the a	ccuracy of the	
Standard of Evidence	:				
Provide accuracy meas there are several citatic one of them.					Question Rank: Very Important
Assessor conclusions No performance measu citation system.		ccuracy of the cita	ition syster	n are given. The	ere is no Statewide
Respondents assigned	2	Responses received	1	Response rate	50%
assigned	2	-	1	-	50%
assigned Question 246:		received	1	rate	50%
assigned		received	1 es for the c	rate	50%
assigned Question 246: Is there a set of establis	shed perf	received	1 es for the c	rate	50%
assigned Question 246: Is there a set of establis the citation systems?	shed perf : measures	received formance measure	citation tra	ompleteness of cking system. If	50%

#### Assessor conclusions:

No performance measures for the completeness of the citation system are given. There is no Statewide citation system.

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	-----------------------	---	------------------	-----	--

Question 247:					$\frown$
Is there a set of estal citation systems?	olished per	formance measure	es for the u	niformity of the	
Standard of Eviden	ce:				
Provide uniformity me there are several cita one of them.					Question Rank: Somewhat Important
Assessor conclusion No performance mean Statewide citation systematics	sures for t	he uniformity of th	e citation s	ystem are given.	There is no
Respondents assigned	2	Responses received	1	Response rate	50%
Question 248:					
Question 248: Is there a set of estat citation systems?	olished per	formance measure	es for the ir	ntegration of the	
Is there a set of estab		formance measure	es for the ir	ntegration of the	
Is there a set of estab citation systems?	<b>ce:</b> neasures fo	or the statewide cit	ation track	ing system. If	Question Rank: Somewhat Important
Is there a set of establicitation systems? Standard of Evident Provide integration m there are several cita	ce: neasures fo tion trackin ons: nsures for t	or the statewide cit ng systems, provid	ation tracki e integratio	ing system. If on measures for	Somewhat Important

Question 249:					
Is there a set of estal the citation systems?		rformance measure	s for the a	ccessibility of	
Standard of Eviden	ce:				
Provide accessibility there are several cita for one of them.					Question Rank: Less Important
Assessor conclusion	ons:				
No performance mea Statewide citation sys		accessibility of the o	citation sys	tem are given. 1	here is no
Respondents assigned	2	Responses received	1	Response rate	50%
0					
Question 250: Is there a set of estal adjudication systems		rformance measure	s for the tir	meliness of the	
Standard of Eviden	ce:				
Provide timeliness m		•		•••	Question Rank:
measures for one of		n tracking systems,	provide tim	neliness	Somewhat Important
	them. ons: handate in easure. A t State track hation bac	place requiring report true performance m s the amount of time of the court admin	orting of dis easure wo e taken counistration. /	sposition data wit uld indicate the a urt by court to tra A more formal St	Somewhat Important hin 7 days. This is iverage number of nsmit dispositions atewide measure

Respondents assigned	3	Responses received	2	Response rate	66.7%	
-------------------------	---	-----------------------	---	------------------	-------	--

#### Question 251:

Is there a set of established performance measures for the accuracy of the adjudication systems?

#### Standard of Evidence:

Provide accuracy measures for the statewide adjudication tracking system. If there are several adjudication tracking systems, provide accuracy measures for one of them.

Question Rank: Very Important

#### Assessor conclusions:

Having edit checks in the system helps to improve, but is no guarantee of accuracy, nor does it replace performance measures. Some data elements will allow free-text answers, for which edits are less effective. It is possible to mistype a date of birth, an address, or a driver license number. Measurement and review of accuracy in the system allows the State to improve the embedded edits and to locate and train those who input data into the system about repeated errors.

Respondents assigned	3	Responses received	2	Response rate	66.7%		
Question 252:							
Is there a set of estab the adjudication syste	ompleteness of						
Standard of Evidence	e:						
Provide completeness system. If there are so completeness measu	everal ad	ljudication tracking s	•	5	Question Rank: Somewhat Important		
Assessor conclusio	ns:						
There is no indication that there is a performance measure for the completeness of the adjudication system within the courts, although there is a way to put a measurement on the log which is reviewed daily. The idea of a performance measure would be a quantitative way to determine where data is missing within the judicial system.							
Respondents		Pasnonsas		Response			

Respondents assigned	3	Responses received	2	Response rate	66.7%	
-------------------------	---	-----------------------	---	------------------	-------	--



#### Question 253:

Is there a set of established performance measures for the integration of the adjudication systems?

#### Standard of Evidence:

Question Rank:

Somewhat

Important

**Question Rank:** 

Very Important

Provide integration measures for the statewide adjudication tracking system. If there are several adjudication tracking systems, provide integration measures for one of them.

#### Assessor conclusions:

There are standards but no measures of integration performance. Performance measures would be a quantitative measure to ensure the integration is correct.

Respondents assigned	3	Responses received	2	Response rate	66.7%	
-------------------------	---	-----------------------	---	------------------	-------	--

#### Question 254:

In States that have an agency responsible for issuing unique citation numbers, is information on intermediate dispositions (e.g., deferrals, dismissals) captured?

#### Standard of Evidence:

Provide documentation detailing the numbers of citations issued from the 10 largest law enforcement agencies and the number of dispositions for those citations that are in the driver file over a three month period.

#### Assessor conclusions:

Intermediate dispositions are not captured within the adjudication of the citations.

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	--------------------	---	------------------	-----	--

Question 255:	
Do the State's DUI tracking systems have additional quality control procedures to ensure the accuracy and timeliness of the data?	
Standard of Evidence:	
Provide a narrative description of the additional quality control measures for the DUI tracking systems and specify which systems use which measures.	Question Rank: Somewhat Important
Assessor conclusions:	

There are controls in place to review information entered into the DUI tracking system. The controls to ensure timeliness of data are missing. Accuracy is reliant on previously entered information compared to newly entered data. Accuracy could also be improved and controlled by automating the transfer of data from other systems into the tracking system.

Respondents assigned	2	Responses received	1	Response rate	50%	
-------------------------	---	-----------------------	---	------------------	-----	--

## **EMS / Injury Surveillance**

Missouri does not have an injury surveillance system; there is limited use of the disparate systems for injury reporting in the State. Each of the core components (data systems) resides within the Missouri Department of Health and Senior Services: EMS, trauma, emergency department and hospital discharge, and vital records.

#### Missouri EMS Information System

Missouri Revised Statutes, Chapter 190, identifies the Bureau of EMS as the agency responsible for the Missouri Ambulance Reporting System (MARS) and the Statewide repository for all patient care data. MARS, developed by ImageTrend, is NEMSIS 2.2.1 compliant; all patient care records are submitted electronically to the State. The majority of user documentation resides online but the agency does maintain a data dictionary. Though not included in a comprehensive injury surveillance system, the EMS data is a rich source for information on the severity of injuries sustained in motor vehicle crashes.

Each ePCR (patient care report) entered into MARS is given a validation score that reflects its compliance with the requirements set forth in Missouri regulations; an ePCR with a validation score below 90% is rejected. Services that submit third party data that does not meet the minimum requirements receive a rejection notice and a report regarding missing data elements. State EMS inspectors conduct periodic audits of the patient care data.

EMS data is used by the State's Department of Transportation and the Department of Public Safety as well as several other agencies. The "Missouri Blueprint for Highway Safety" is a collaborative effort of several State agencies that includes an ongoing plan to reduce EMS response times to motor vehicle crashes by identifying problem areas and promoting 911 access across the State. External entities interested in EMS data may request it from the Bureau under Missouri's Sunshine Law; the request must be in writing and the Bureau will respond in accordance with internal policies and procedures. The Bureau of EMS is represented on the State TRCC.

#### Emergency Department and Hospital Discharge Data

Emergency department and hospital discharge data, collectively known as PAS data – Patient Abstract System, are collected by and available through the Department of Health and Senior Services (DHSS) under State regulations (19 CSR 10-33.010). The data conforms to the UB-04 standard but is tailored to meet the needs of the State; notations within the PAS data dictionary indicate the UB-04 data elements.

State regulations for the submission of PAS data require that each data element shall have an acceptable code in at least 99% of the records and each data element shall be missing or unknown in less than 1% of the records. The regulations also require that a provider submit to DHSS a written notification and plan of correction for identified deficiencies. There is no formal data quality reporting or performance measures in place for the PAS data nor is feedback on data quality provided to the submitting hospitals. The PAS data is reviewed on a quarterly basis and

compared to the previous year's data to identify obvious errors and missing data.

The PAS data has been used for injury surveillance activities and publications such as "Health in Rural Missouri" as well as linked to the State's crash database for the Crash Outcome Data Evaluation System (CODES).

#### Trauma Registry Data

Missouri Revised Statutes requires that all designated trauma centers in the State maintain a trauma registry and submit their trauma data to the Department of Health and Senior Services. The trauma data conforms to the NTDB standard and upon entry into the Time Critical Diagnosis (TCD) System, the trauma record is subject to validation rules to ensure compliance with the standards. The TCD System includes validation rules for State-specific data elements required under State regulations. Records that do not meet a 94% minimum validation score are rejected.

Quality control at the State level is an informal process. Data is reviewed daily as well as quarterly. Data quality issues are relayed back to the data collectors and managers through telephone calls, emails, and in-person visits to ensure regulatory compliance. Data collection problems are remedied by customizing the TCD System. In an effort to ensure a complete trauma registry, the State employs a data team that is available to assist users with data collection and submission.

Though a robust system, it does not appear that the trauma registry data is used for injury surveillance activities or to support highway safety programs.

#### Vital Records

The Missouri Electronic Vital Records system supports the registration of vital events for the Missouri Department of Health and Senior Services and other users. The number of deaths due to motor vehicle crashes was included in the "Health in Rural Missouri" publication and vital records data is available in aggregate form by request or via an online query tool. The vital records data is not used to support an injury surveillance system. Information provided about the vital records system was insufficient to allow an adequate review of its processes and capabilities.

#### Strengths

Missouri maintains the core components of an injury surveillance system and has, in the past, conducted comprehensive analyses on injuries caused by motor vehicle crashes in the State. Through a cooperative agreement and funding from NHTSA, Missouri was a CODES (Crash Outcome Data Evaluation System) State. The integrated database included crash data linked to emergency department and hospital discharge data, the outcome of which provides a better understanding of the medical and financial outcomes of motor vehicle crashes.

The Missouri Ambulance Reporting System is linked to trauma registry system through the State's Time Critical Diagnosis System. This interface enables receiving healthcare facilities to access patient care reports that have been uploaded into their system providing a complete record of pre-hospital care through discharge.

#### **Opportunities**

The State may consider for each data system:

1) Formal documentation that describes how the data is collected, managed, and maintained and describes the data in a more comprehensive fashion than a data dictionary. The summary of the data should describe the characteristics of the data, values, limitations and exceptions, if the element is a required data element or a State- or user-created data element;

2) Documentation for each system detailing how rejected records are tracked from rejection through correction and resubmission to ensure a complete data system;

3) Performance reporting back to submitting agencies, hospitals, trauma centers, etc. on a routine basis to help both the submitting entity in recognizing routine errors and the State receiving improved quality data.

Each of the State's injury surveillance data systems is subject to regulation(s) that require timely reporting, a certain level of accuracy, completeness, and/or validation – depending on the system. A common issue among the State's data systems is the lack of performance measures and reporting on data quality. Reporting requirements found in State regulations are not the same as performance measures. Performance measures enable an agency to monitor and improve the quality of the data in their traffic record systems. The State has an opportunity to use the data quality requirements as goals and create a baseline by which to measure the health and progress of the data going forward. The State should consider developing and instituting formal performance measures – for each data system - that can be used to improve data quality, inform validation rules, training content, and other data system documentation. Data quality management reports should be shared with the TRCC on a routine basis.

NHTSA has available several publications that address performance measures for traffic records systems; including "Model Performance Measures for State Traffic Records Systems," (DOT HS 811 441) published February 2011. This publication offers several examples of performance measures not only for the injury surveillance data systems, but all six components that make up a traffic records system.

As representatives from each of the injury surveillance data systems regularly attend the TRCC meetings, it would be of value to the TRCC and highway safety stakeholders if those representatives submitted a brief description of their system, a data dictionary (including a list of identifiers that would facilitate the integration of the disparate traffic records systems), access instructions, and any limitations to the use and/or release of the data – an injury surveillance data inventory of sorts.

The CODES data is an immensely valuable resource for the injury surveillance community, traffic safety stakeholders, and researchers. The State may want to determine the feasibility of resuming the linkage of the traffic records systems (crash, EMS, PAS data, trauma, etc.) to conduct comprehensive analyses on the outcomes of motor vehicle crash injuries in an effort to identify problems, allocate resources, and evaluate programs.

Question 256:					$\frown$
Does the injury surve	illance sys	stem include EMS	data?		
Standard of Evidend	ce:				
Provide an injury surv data from other injury			s the use of	EMS data and	Question Rank: Very Important
Assessor conclusio EMS data is collected surveillance reports.		te but it does not a	ppear to be	included in the o	overall State injury
Respondents assigned	3	Responses received	2	Response rate	66.7%
Question 257: Does the injury surve data?	illance sys	stem include emerg	gency depa	rtment (ED)	
Standard of Evidend	ce:				
Provide an injury surv department (ED) data		•		• •	Question Rank: Very Important
Assessor conclusio	ns:				
Emergency departme profiles for each of M the use of Missouri's	issouri's 1	15 counties. The 'I			
Respondents assigned	3	Responses received	2	Response rate	66.7%

#### Question 258:

Does the injury surveillance system include hospital discharge data?

#### Standard of Evidence:

Provide an injury surveillance report that illustrates the use of hospital discharge data and data from other injury surveillance systems.

#### Assessor conclusions:

Inpatient hospitalization data is available to support the State's injury prevention activities through two separate websites, including one in which the user can query the inpatient data.

Respondents 3 Responses assigned received	2	Response rate	66.7%	
---	---	------------------	-------	--

#### Question 259:

Does the injury surveillance system include trauma registry data?

#### Standard of Evidence:

Provide an injury surveillance report that illustrates the use of trauma registry data and data from other injury surveillance systems.

**Question Rank:** Very Important

#### Assessor conclusions:

Section 190.241.1 of the Missouri Revised Statutes requires that all designated trauma centers in the State maintain a trauma registry. No information was available to indicate that any data submitted by trauma centers to the Missouri Department of Health and Senior Services is used as part of an injury surveillance system.

Respondents assigned	3	Responses received	1	Response rate	33.3%
-------------------------	---	-----------------------	---	------------------	-------



**Question Rank:** Very Important

Question 260:					$\frown$
Does the injury surve	illance sy	stem include rehabil	itation dat	a?	
Standard of Evidence	e:				
Provide an injury surv data and data from ot		•		f rehabilitation	Question Rank: Very Important
Assessor conclusio	ns:				
The State does not co	ollect reha	abilitation data.			
Respondents assigned	3	Responses received	2	Response rate	66.7%
Question 261:					
Does the injury surve	illance sy	stem include vital re	cords data	a?	
Standard of Evidence	:e:				
Provide an injury surv data from other injury		•	the use o	f vital data and	Question Rank: Very Important
Assessor conclusio	ns:				
Vital statistics data is be used for special pr surveillance system.					
Respondents assigned	3	Responses received	2	Response rate	66.7%

Question 262:					
Does the injury surve	illance sy	stem include other o	data?		
Standard of Evidend	ce:				
List any other databat system and provide a Additional data resour payer-related databat injury registry. Assessor conclusion The State would appending State. However, no d incidence of head and TRCC or its partners.	n sample n rces may ses, traur ons: ear to mai ocumenta d spinal c	report using data from include medical examption natic brain injury reg intain a registry for a ation of this system	m each o aminer rep gistry, and all head ar was availa	f these sources. ports, I spinal cord nd spinal cord inju able. The ability to	o describe the
Respondents assigned	3	Responses received	2	Response rate	66.7%
Question 263:					
Does the EMS system sustained in motor ve			y, and na	ture of injuries	
Standard of Evidend	ce:				
Provide the most rece system, any injury se primary impression (i	verity cat	egorizations applied			Question Rank: Very Important
Assessor conclusion Sample reports show available. The freque vehicle damage/defor	ing the froncies wer				

Question 264:					$\frown$
Does the emergency nature of injuries sus					
Standard of Eviden	ce:				
Provide the most rec emergency departme (e.g., Abbreviated In diagnosis.	ent data, ai	ny injury severity ca	ategorizatio	ns applied	Question Rank: Very Important
Assessor conclusion	ons:				
While the State does safety activities.	collect err	nergency departme	nt data, it is	s unclear if it is u	sed for highway
Respondents assigned	3	Responses received	3	Response rate	100%
Question 265:					
,	ohorao doi	a tradit the frequence		, and nature of	
Does the hospital dis injuries sustained in				, and hature of	
Standard of Eviden	ce:				
Provide the most rec discharge data, any i Injury Score, Injury S	njury seve	rity categorizations	applied (e.e		Question Rank: Very Important
Assessor conclusion	ons:				
While the State does activities.	collect ho	spital discharge da	ta it is uncle	ear if it is used fo	r highway safety
Respondents assigned	3	Responses received	3	Response	100%

## Question 266:

Does the trauma registry data track the frequency, severity, and nature of injuries sustained in motor vehicle crashes in the State?

## Standard of Evidence:

Provide the most recent motor vehicle-related incident counts for the trauma registry data, any injury severity categorizations applied (e.g., Abbreviated Injury Score, Injury Severity Scale), and principal diagnosis.

## Question Rank: Very Important

33.3%

rate

#### Assessor conclusions:

assigned

3

Missouri trauma centers are required by State statute to submit trauma data to the State's trauma registry. While the State collects the data elements necessary to track the frequency, severity, and nature of injuries sustained in motor vehicle crashes, documentation was not available.

Respondents assigned	3	Responses received	2	Response rate	66.7%
Question 267:					
Does the vital record injuries sustained in				d nature of	
Standard of Eviden	ce:				
Provide the most rec records data and the			dent count	ts from the vital	Question Rank: Very Important
Assessor conclusion	ons:				
Vital records data ha though no informatio		•			
Respondents	3	Responses	1	Response	33 3%

received

1

evaluate programs, and allocate resources?									
Standard of Evidence:									
	Provide a sample report or narrative description of a highway safety project that utilized EMS data to identify a problem, evaluate a program, or allocate resources.								
Assessor conclusions: The Bureau of EMS identified several external users of the State's EMS data which includes, but is not limited to, the Missouri Department of Transportation and Missouri Department of Public Safety. The Missouri Blueprint for Highway Safety is a collaborative effort that includes a plan to reduce EMS response times to motor vehicle crashes by identifying problem areas and promoting 911 access across the State.									
	Respondents assigned3Responses received2Response rate								
•	3	•	2	-	66.7%				
assigned	3	•	2	-	66.7%				
•	partment d	received	alysis and	rate	66.7%				
assigned Question 269: Is the emergency dep	partment da rograms, a	received	alysis and	rate	66.7%				
assigned Question 269: Is the emergency dep problems, evaluate p	partment da rograms, a <b>ce:</b> port or narr cy departn	received ata available for an and allocate resour ative description of nent data to identify	alysis and ces? f a highway	v safety project	66.7%				
assigned Question 269: Is the emergency dep problems, evaluate p Standard of Evidend Provide a sample rep that utilized emergen	partment da rograms, a ce: port or narr cy departn resources.	received ata available for an and allocate resour ative description of nent data to identify	alysis and ces? f a highway y a problen	rate used to identify / safety project n, evaluate a	Question Rank: Very Important				

Is the EMS data available for analysis and used to identify problems,

Question 268:

#### Limited information was available that describes how the data is used for problem identification or program evaluation activities in highway safety. A CODES (Crash Outcome Data Evaluation System) report was provided that demonstrates the availability of Missouri's linked crash and hospital data for use in a multi-State analysis though the data is several years old. The use of integrated data is a valuable resource in highway safety applications; it gives the State the ability to more accurately define the nature and severity of injuries sustained in motor vehicle crashes.

Respondents assigned	3	Responses received	3	Response rate	100%	
-------------------------	---	-----------------------	---	------------------	------	--

## Question 270:

Is the hospital discharge data available for analysis and used to identify problems, evaluate programs, and allocate resources?

#### Standard of Evidence:

Provide a sample report or narrative description of a highway safety project that utilized hospital discharge data to identify a problem, evaluate a program, or allocate resources.

Question Rank: Very Important

#### Assessor conclusions:

Hospital discharge data is available through the Department of Health and Senior Services. Limited information was provided to describe how the data is used for problem identification or program evaluation activities in highway safety. A CODES (Crash Outcome Data Evaluation System) report was provided that demonstrates the availability of Missouri's linked crash and hospital data for use in a multi-state analysis though the data is several years old.

Respondents assigned	3	Responses received	3	Response rate	100%

### Question 271:

Is the trauma registry data available for analysis and used to identify problems, evaluate programs, and allocate resources?

#### Standard of Evidence:

Provide a sample report or narrative description of a highway safety project that utilized trauma registry data to identify a problem, evaluate a program, or allocate resources.

Question Rank: Very Important

#### Assessor conclusions:

Trauma registry data is available through the Department of Health and Senior Services. While the DHSS is to be commended for their participation on the State's TRCC, little information was available related to how the trauma registry data is used to support highway safety programs.

Respondents assigned	3	Responses received	2	Response rate	66.7%	
-------------------------	---	-----------------------	---	------------------	-------	--

Question 272:					$\frown$
Is the vital records da evaluate programs, a			used to ide	entify problems,	
Standard of Evidence	ce:				
Provide a sample rep that utilized vital reco allocate resources (e	rds data t	o identify a problen	n, evaluate	a program, or	Question Rank: Very Important
Assessor conclusio Vital records data wa demonstrated its use	s included			for review, but n	ot in a way that
Respondents assigned	3	Responses received	1	Response rate	33.3%
Question 273:					
Does the State have	a NEMSIS	S-compliant statew	ide databas	e?	
Standard of Evidence	ce:				
Demonstrate submiss any relevant State sta detailing the State's e	atutes or r	egulations. If not c	ompliant, pr		Question Rank: Very Important
Assessor conclusio Missouri's EMS data		tool, MARS, is con	npliant with	NEMSIS version	n 2.2.1.
Respondents assigned	3	Responses received	2	Response	66.7%

## Question 274:

Does the State's emergency department and hospital discharge data conform to the most recent uniform billing standard?

## Standard of Evidence:

Provide the data dictionaries for both the emergency department and hospital discharge data as appropriate as well as any relevant State statutes or regulations. Questic

Question Rank: Very Important

## Assessor conclusions:

The State's emergency department and hospital discharge data conform to the UB-04 format as of October 1, 2015 though the data standard has been tailored to fit the needs of the State. The data dictionary includes a column that identifies the UB-04 data elements.

Respondents assigned	3	Responses received	3	Response rate	100%
Question 275:					
Does the State's trau Data Standards?	ma regist	ry database adhere	to the Nat	ional Trauma	
Standard of Eviden	ce:				
Provide the trauma re regulations.	egistry dat	a dictionary and any	/ relevant S	State statutes or	Question Rank: Very Important
Assessor conclusion	ons:				
Missouri uses an Ima dictionary is available	0	•		0,	
Respondents assigned	3	Responses received	2	Response rate	66.7%

## Question 276:

Are Abbreviated Injury Scale (AIS) and Injury Severity Scores (ISS) derived from the State emergency department and hospital discharge data for motor vehicle crash patients?

## Standard of Evidence:

Provide a distribution of AIS and ISS scores for the most recent year available.

Question Rank: Somewhat Important

## Assessor conclusions:

The emergency department and hospital discharge data includes ICD codes which are the basis for the AIS and ISS calculations. However, documentation related to the emergency department and hospital discharge data systems was not available and it is unclear if ISS and/or AIS are calculated from the ICD codes within those systems.

Respondents assigned	3	Responses received	3	Response rate	100%
Question 277: Are Abbreviated Inju from the State trauma					
Standard of Eviden	ce:				
Provide a distribution available.	of AIS ar	nd ISS scores for the	e most rec	ent year	Question Rank: Very Important
Assessor conclusion The trauma registry of list of ISS scores for available for review.					
Respondents assigned	3	Responses received	3	Response rate	100%

## Question 278:

Does the State EMS database collect the Glasgow Coma Scale (GCS) data for motor vehicle crash patients?

#### Standard of Evidence:

Provide a distribution of GCS scores for motor vehicle crash patients for the **Question Rank:** most recent year available.

## Assessor conclusions:

The Glasgow Coma Scale is collected on a voluntary basis and submitted to MARS.

Respondents assigned	3	Responses received	1	Response rate	33.3%
assigned		receiveu		Tale	

#### Question 279:

Does the State trauma registry collect the Glasgow Coma Scale (GCS) data for motor vehicle crash patients?

## Standard of Evidence:

Provide a distribution of GCS scores for motor vehicle crash patients for the most recent year available.

#### Assessor conclusions:

The Total Glasgow Coma Scale (GCS) score is recorded for patients transported by EMS providers as well as for all trauma patients submitted to the registry. It is unclear if this process is exclusive to motor vehicle crash patients or all trauma patients.

Respondents assigned	3	Responses received	2	Response rate	66.7%	
-------------------------	---	-----------------------	---	------------------	-------	--



Less Important

**Question Rank:** 

Less Important

Question 280:					
Are there State privation	cy and cor	nfidentiality laws the	at supersed	de HIPAA?	
Standard of Eviden	ce:				
Provide the applicabl interpreted—including sharing within the Sta	g the iden <sup>:</sup>	tification of situation	ns that may	/ impede data	Question Rank: Very Important
Assessor conclusion	ons:				
Confidentiality of hea regulations do not sp Senior Services to es	ecifically r	efer to HIPAA but t	hey do allo	w the Departme	nt of Health and
Respondents assigned	3	Responses received	3	Response rate	100%
Question 281:					
Question 281: Does the EMS system	n have a f	ormal data dictiona	nry?		
		ormal data dictiona	ıry?		
Does the EMS system	ce:			able names and	Question Rank: Very Important
Does the EMS system Standard of Evidence Provide the data dicti	ce: onary incl ons: indard NE ition. The	uding, at a minimur MSIS 2.2.1 schema data dictionary for t	n, the varia	s upon the vendo	Very Important

Question 282: Does the EMS system dataset—characterist submitted or user crea maintained?	tics, value	s, limitations and ex	ceptions,	whether	
Standard of Evidence Provide a user's man collection system. Su variables and a desc maintained.	ual or oth	nentation should inc	lude a list	of the dataset's	Question Rank: Very Important
Assessor conclusion The Missouri EMS date documentation. The leterents or attributes and maintained.	ata collect MARS Us	er Guide addresses	user set-u	up and does not a	address the data
Respondents assigned	3	Responses received	2	Response rate	66.7%
Respondents	departme	received		rate	66.7%
Respondents assigned Question 283: Does the emergency	departme <b>ce:</b>	received	ormal data	rate	66.7%
Respondents assigned Question 283: Does the emergency Standard of Evidence Provide the data dicti	departme ce: ionary incl ons: the Patien	received ent dataset have a fo luding, at a minimur	ormal data n, the varia PAS) cont	able names and	Question Rank: Very Important

Question 284:					
Does the emergency of provides a summary of exceptions, whether s managed, and mainta	lataset— ubmitted	-characteristics, valu	es, limitat	tions and	
Standard of Evidenc	e:				
Provide the document	ation.				Question Rank: Very Important
Assessor conclusion	ns:				, i
more complete descri system is valuable for document than the sir	both dat	ta collection and ana		•	
Respondents assigned	3	Responses received	3	Response rate	100%
Question 285:					
Does the hospital disc	harge da	ataset have a formal	data dicti	ionary?	
Standard of Evidenc	e:				
Provide the data diction definitions.	onary inc	luding, at a minimun	n, the vari	able names and	Question Rank: Very Important
Assessor conclusion	ns:				
The Patient Abstract S	System h	an a data diationamy	بالمصا عمطه	ides information fo	or both the
Emergency Departme	-	-			

## Question 286:

Does the hospital discharge dataset have formal documentation that provides a summary dataset—characteristics, values, limitations and exceptions, whether submitted or user created—and how it is collected, managed, and maintained?

## Standard of Evidence:

Provide the documentation.

Question Rank: Very Important

## Assessor conclusions:

The availability of a user's manual for the hospital discharge data system that includes a more complete description of the data elements and attributes and how they are collected in the system is valuable for both data collection and analysis purposes - a more comprehensive document than the simple data dictionary.

Respondents assigned	3	Responses received	3	Response rate	100%
Question 287:					
Does the trauma reg	istry have	a formal data dictio	nary?		
Standard of Eviden	ce:				
Provide the data dictide definitions.	ionary inc	luding, at a minimur	n, the vari	able names and	Question Rank: Very Important
Assessor conclusion	ons:				
The State uses the N system. The data dic				•••	
Respondents assigned	3	Responses received	2	Response rate	66.7%

## Question 288:

Does the trauma registry dataset have formal documentation that provides a summary dataset—characteristics, values, limitations and exceptions, whether submitted or user created—and how it is collected, managed, and maintained?

## Standard of Evidence:

Provide the documentation.

Question Rank: Very Important

Assessor conclusions:

The State uses an ImageTrend software package for the collection of the trauma registry data; much of the documentation provided by ImageTrend is accessible online. The Time Critical Diagnosis (TCD) User Guide gives direction to data entry personnel for standardized data entry and report writing. The documentation does not address limitations and exceptions, or specifics of how this registry is managed and maintained.

Respondents assigned	3	Responses received	2	Response rate	66.7%
Question 289:					$\frown$
Does the vital records	s system	have a formal data	dictionary?		
Standard of Evidend	ce:				
Provide the data dicti definitions.	onary inc	luding, at a minimur	n, the varia	ble names and	Question Rank: Very Important
Assessor conclusio	ons:				
A data dictionary was obtain this document			-		fit the TRCC to

Respondents	3	Responses	1	Response	33.3%
assigned	3	received	I	rate	55.570

<u> </u>				,	
Question 290:					
Does the vital record summary dataset—c whether submitted or maintained?	haracteris	tics, values, limitation	ons and ex	ceptions,	
Standard of Eviden	ce:				
Provide the documer	ntation.				Question Rank: Very Important
Assessor conclusion	ons:				
Formal documentation	on for the v	vital records system	was not a	vailable for revie	W.
Respondents assigned	3	Responses received	1	Response rate	33.3%
Question 291:					
Is there a single entit agencies?	-	ects and compiles o	lata from tl	he local EMS	
Standard of Eviden	ce:				
Identify the State age submitted.	ency or thi	rd party to which th	e EMS dat	a is initially	Question Rank: Very Important
Assessor conclusion State Statute 190 ide Ambulance Reporting	ntifies the		the agenc	y responsible for	the Missouri
Respondents assigned	3	Responses received	1	Response rate	33.3%
0					
Question 292: Is there a single entit department visits from	•		lata on em	ergency	
Standard of Eviden	ce:				
Identify the State age department visits is in	•		e data on e	emergency	Question Rank: Very Important
Assessor conclusion The Missouri Hospital department and hospital on a quarterly basis.	I Associat			•	0,000

Respondents assigned	3	Responses received	3	Response rate	100%	
-------------------------	---	--------------------	---	------------------	------	--

## Question 293:

Is there a single entity that collects and compiles data on hospital discharges from individual hospitals?

#### Standard of Evidence:

Identify the State agency or third party to which the data on hospital discharges is initially submitted.

#### Assessor conclusions:

The Missouri Hospital Association collects data from most hospitals in the State. The emergency department and hospital discharge data are passed along to the Missouri Department of Health on a quarterly basis.

Respondents assigned	3	Responses received	3	Response rate	100%

## Question 294:

Is there a process flow diagram that outlines the EMS system's key data process flows, including inputs from other systems?

#### Standard of Evidence:

Provide the flow diagram. Alternatively, provide a narrative description of the EMS data process flows from dispatch to submission of the report to the State EMS repository.

#### Assessor conclusions:

The Bureau of EMS maintains a flow chart that shows how data is entered into the MARS.

Respondents assigned	3	Responses received	1	Response rate	33.3%
-------------------------	---	-----------------------	---	------------------	-------



Question Rank: Very Important

**Question Rank:** 

## Question 295:

Is there a process flow diagram that outlines the emergency department data's key data process flows, including inputs from other systems?

#### Standard of Evidence:

Provide the flow diagram. Alternatively, provide a narrative description of the emergency department data process flows from patient arrival to submission of the uniform billing data to the State repository. Question Rank: Very Important

## Assessor conclusions:

No description or process flow diagram detailing the data collection process for the State's emergency department data was available.

Respondents assigned	3	Responses received	1	Response rate	33.3%	
-------------------------	---	-----------------------	---	------------------	-------	--

## Question 296:

Is there a process flow diagram that outlines the hospital discharge data's key data process flows, including inputs from other systems?

## Standard of Evidence:

Provide the flow diagram. Alternatively, provide a narrative description of the hospital discharge data process flows from patient arrival to submission of the uniform billing data to the State repository.

#### Assessor conclusions:

No description or process flow diagram detailing the data collection process for the State's hospital discharge data was available.

Question Rank:

#### Is there a process flow diagram that outlines the trauma registry's key data process flows, including inputs from other systems? Standard of Evidence: Provide the flow diagram. Alternatively, provide a narrative description of the hospital discharge data process flows, from trauma activation to submission **Question Rank:** of the trauma data to the State registry. Very Important Assessor conclusions: Patient care providers chart all relevant trauma data which is then provided to the designated trauma registrar at each trauma facility. The relevant data points are entered into the trauma registry via a web based system. It would benefit the State to formalize the process flow to include the trauma activation component. Respondents Responses Response 3 2 66.7% assigned received rate Question 298: Are there separate procedures for paper and electronic filing of EMS patient care reports? Standard of Evidence: Provide a copy of the procedures for paper and electronic filing or a narrative Question Rank: describing the procedures. Less Important **Assessor conclusions:** All patient care records in Missouri are submitted electronically. Respondents Responses Response 33.3% 3 1 assigned received rate

Question 297:

## Question 299:

Are there procedures for collecting, editing, error-checking, and submitting emergency department and hospital discharge data to the statewide repository?

## Standard of Evidence:

Provide a copy of the procedures or a narrative describing the process of collecting, editing and submitting emergency department and hospital discharge data to the statewide repository.

#### Assessor conclusions:

Limited quality control is done by the State. Once the emergency department and hospital discharge data is submitted to the State, SAS software is used to check for outliers in the hospital charges. It is unclear if the hospitals use a uniform system for quality control before the data is submitted to the hospital association or if the hospital association employs a uniform system for quality control.

Question Rank:

Respondents assigned	3	Responses received	2	Response rate	66.7%	
Question 300:						
Does the trauma reg editing, error checkin			dures for c	ollecting,		
Standard of Eviden	ce:					
Provide a copy of the collecting, error-check	•	Question Rank: Very Important				
Assessor conclusion	ons:					
The trauma registry software provides end users with an immediate validation score as the data is submitted. Records not meeting the 94% minimum validation score are rejected. The State also has a data team who is available to assist users with data collection and submission.						
Respondents	•	Responses		Response	00 70/	

Respondents assigned	3	Responses received	2	Response rate	66.7%	
-------------------------	---	--------------------	---	------------------	-------	--

### Question 301:

Are there procedures for collecting, editing, error-checking, and submitting data to the statewide vital records repository?

#### Standard of Evidence:

Provide a copy of the procedures or a narrative describing the process for collecting, error-checking and submitting data to the vital records repository.

#### Assessor conclusions:

Quality control procedures for submitting data to the Statewide vital records repository were not available.

· · · · · · · · · · · · · · · · · · ·	oonses 1 ceived 1	Response rate	33.3%
---------------------------------------	----------------------	------------------	-------

## **Question 302:**

Are there documented procedures for returning data to the reporting EMS agencies for quality assurance and improvement (e.g., correction and resubmission)?

#### Standard of Evidence:

Provide a copy of the procedures or a narrative describing the process for returning data to the reporting EMS agencies for correction and resubmission.

## Assessor conclusions:

State EMS inspectors conduct periodic audits of the ePCR data. Reports entered directly into MARS receive a validation score for QA/QC purposes. Agencies using third party vendors also receive feedback on data deficiencies. System validation rules prevent the end user from saving the record until the errors are addressed.

Respondents assigned	3	Responses received	2	Response rate	66.7%
-------------------------	---	--------------------	---	------------------	-------



Question Rank: Very Important

Question Rank:

#### Question 303:

Are there documented procedures for returning data to the reporting emergency departments for quality assurance and improvement (e.g., correction and resubmission)?

#### Standard of Evidence:

Provide a copy of the procedures or a narrative that describes the process for returning data to the reporting emergency departments for correction and resubmission.

Question Rank: Very Important

#### Assessor conclusions:

The Missouri Hospital Association contacts the facilities when data quality errors have been identified. State regulations require that each data element shall have an acceptable code in at least 99% of the records and each data element shall be missing or unknown in less than 1% of the records. While the procedures for the correction and resubmission of rejected data were not available for review, the regulations require that a provider submit to the Missouri Department of Health and Senior Services a written notification and plan of correction for the identified deficiencies.

Respondents 3 Responses 2 Response 66. assigned 3 received 2 rate 66.	7%
--	----

#### Question 304:

Are there documented procedures for returning hospital discharge data to the reporting hospitals for quality assurance and improvement (e.g., correction and resubmission)?

#### Standard of Evidence:

Provide a copy of the procedures or a narrative describing the process for returning data to the reporting hospitals for correction and resubmission.

Question Rank: Very Important

#### Assessor conclusions:

The Missouri Hospital Association contacts the facilities when data quality errors have been identified. State regulations require that each data element shall have an acceptable code in at least ninety-nine percent (99%) of the records and each data element shall be missing or unknown in less than 1% of the records. The regulations require that a provider submit to the Missouri Department of Health and Senior Services a written notification and plan of correction for the identified deficiencies.

Respondents assigned	3	Responses received	2	Response rate	66.7%	
-------------------------	---	-----------------------	---	------------------	-------	--



#### Question 305:

Are there documented procedures for returning trauma data to the reporting trauma center for quality assurance and improvement (e.g., correction and resubmission)?

## Standard of Evidence:

Provide a copy of the procedures or a narrative describing the process for returning data to the reporting trauma center for correction and resubmission.

## Question Rank: Very Important

#### Assessor conclusions:

The data collection system, TCD, has validation rules inherent to the system that address both national standard data elements and State-specific data elements. Only those records meeting or exceeding the validation score are accepted into the system. There is no tracking of records that did not meet the validation score, were corrected, and resubmitted.

Respondents assigned	3	Responses received	2	Response rate	66.7%	
Question 306: Are there documente	d procedi	ires for returning da	ita to the r	eporting vital		
records agency for queresubmission)?						
Standard of Eviden	ce:					
Provide a copy of the returning data to the resubmission.			•	•	Question Rank: Very Important	
Assessor conclusions: No information was available on the quality assurance process that may be used within the State for the correction and resubmission of vital records data that may contain errors.						
Respondents		Responses		Response		

Respondents	3	Responses	1	Response	33.3%
assigned	3	received	1	rate	55.570

## Question 307:

Is aggregate EMS data available to outside parties (e.g., universities, traffic safety professionals) for analytical purposes?

## Standard of Evidence:

Provide a copy of the data access policy, data use agreement, or link to appropriate data access website. Alternatively, provide a description of how outside parties may obtain access to the EMS data for analytical purposes.

#### Assessor conclusions:

MARS data is available from the Bureau of EMS through Missouri's Sunshine Law (State Statute 610). Interested parties may make a specific request in writing to the Bureau of EMS, which will respond in accordance with their internal policies and procedures.

Respondents assigned	3	Responses received	1	Response rate	33.3%		
Question 308: Is aggregate emerge	ncy depai	rtment data available	e to outsid	e parties (e.g.,			
universities, traffic sa Standard of Eviden		ssionals) for analyti	cal purpos	es?			
Provide a copy of the appropriate data according outside parties may canalytical purposes.	scription of how	Question Rank: Very Important					
Assessor conclusions: Emergency department data is available via an online querying tool. Aggregate data can also be requested through Missouri's Sunshine Law. Requests are subject to review by the General Counsel and may incur a time and materials cost depending on the nature of the request.							
Respondents assigned	3	Responses received	3	Response rate	100%		



Question Rank: Very Important

Question 309:					
Is aggregate hospital universities, traffic saf	•			· •	
Standard of Evidence	e:				
Provide a copy of the appropriate data accer outside parties may o analytical purposes.	Question Rank: Very Important				
Assessor conclusion	ns:				
Hospital data is availa Missouri Sunshine La Counsel to ensure HII extent of work require	w through PAA comp	a request process pliance and may in	. The reque	est is reviewed b	y the General
Respondents	_	Responses	_	Response	
assigned	3	received	3	rate	100%
-	3	-	3	-	100%
assigned	egistry da	received	side parties	(e.g.,	100%
assigned Question 310: Is aggregate trauma r	egistry da ety profes	received	side parties	(e.g.,	100%
assigned Question 310: Is aggregate trauma r universities, traffic saf	egistry da ety profes e: data acce ss websit	received ata available to outs ssionals) for analyti ess policy, data use e. Alternatively, pro	side parties cal purpose e agreemen ovide a des	(e.g., es? t, or link to cription of how	100%
assigned Question 310: Is aggregate trauma r universities, traffic saf Standard of Evidence Provide a copy of the appropriate data access outside parties may o	egistry da ety profes e: data acce ss websit btain acce ns:	received ata available to outs ssionals) for analyti ess policy, data use e. Alternatively, pro ess to the trauma re	side parties cal purpose agreemen ovide a des egistry data	(e.g., es? t, or link to cription of how for analytical	Question Rank: Very Important

## Question 311:

Is aggregate vital records data available to outside parties (e.g., universities, traffic safety professionals) for analytical purposes?

## Standard of Evidence:

Provide a copy of the data access policy, data use agreement, or link to appropriate data access website. Alternatively, provide a description of how outside parties may obtain access to the vital records data for analytical purposes.

## Assessor conclusions:

Vital records data is available through an online query tool and aggregate data can be requested under the State's Sunshine Law.

**Question Rank:** 

Respondents assigned	3	Responses received	3	Response rate	100%	
Question 312:						
Is there an interface hospital discharge da	•	e EMS data and em	ergency d	epartment and		
Standard of Eviden	ce:					
Provide a narrative d and the emergency of provide the applicabl		Question Rank: Somewhat Important				
Assessor conclusion	ons:					
MARS allows hospital access to patient care reports through the Missouri Time Critical Diagnosis (TCD) system.						
Respondents assigned	3	Responses received	2	Response rate	66.7%	

#### Question 313: Is there an interface between the EMS data and the trauma registry data? Standard of Evidence: Provide a narrative description of the interface link between the EMS data and the trauma registry data. If available provide the applicable data **Question Rank:** exchange agreement. Very Important Assessor conclusions: MARS is linked to the Trauma Registry through the Missouri Time Critical Diagnosis (TCD) application. This process allows receiving facilities to access EMS reports that have been uploaded into their system. A formal agreement is not required as both systems (TCD and MARS) are managed by the same Section for Health Standards and Licensure within the Division of Regulations of the Department of Health and Senior Services. Respondents Responses Response 3 2 66.7% assigned received rate Question 314: Is there an interface between the vital statistics and hospital discharge data? Standard of Evidence: Provide a narrative description of the interface link between the vital statistics **Question Rank:** and hospital discharge data. If available provide the applicable data Somewhat exchange agreement. Important Assessor conclusions: Vital statistics can be linked to inpatient hospital data but there is not a real-time interface between the two data systems. Respondents Responses Response 3 2 66.7% assigned received rate

## Question 315:

Are there automated edit checks and validation rules to ensure that entered data falls within a range of acceptable values and is logically consistent among data elements?

## Standard of Evidence:

Provide the formal methodology or describe the process by which automated edit checks and validation rules ensure entered data falls within the range of acceptable values and is logically consistent among fields. Question Rank: Very Important

#### Assessor conclusions:

Each ePCR entered into MARS receives a validation score that reflects the data's compliance with Missouri's required data elements. Services that submit third party data not meeting Missouri's data minimums receive a rejection notice along with a report regarding missing data elements.

state-level correction authority is granted to quality control staff working with the statewide EMS database.       Somewhat Important         Assessor conclusions:       The Bureau of EMS has administrative rights to MARS and does have the ability to make m corrections. However, it is policy of the State that the local services should conduct their ow	Respondents assigned	3	Responses received	2	Response rate	66.7%	
Provide the formal methodology or describe the process by which limited state-level correction authority is granted to quality control staff working with the statewide EMS database. Assessor conclusions: The Bureau of EMS has administrative rights to MARS and does have the ability to make m corrections. However, it is policy of the State that the local services should conduct their ow	Is limited state-level working with the stat	ewide EM	S database in order	to amend	d obvious errors		
The Bureau of EMS has administrative rights to MARS and does have the ability to make m corrections. However, it is policy of the State that the local services should conduct their ow	Provide the formal methodology or describe the process by which limited state-level correction authority is granted to quality control staff working with						
quality reviews and make any necessary corrections at that level.							

Respondents assigned	3	Responses received	2	Response rate	66.7%	
-						



#### Question 317:

Are there formally documented processes for returning rejected EMS patient care reports to the collecting entity and tracking resubmission to the statewide EMS database?

#### Standard of Evidence:

Provide the formal methodology or describe the process by which rejected EMS patient care reports are returned to the collecting agency and tracked through resubmission to the statewide EMS database.

## Assessor conclusions:

MARS does not allow submission of PCR data with a validation score below a total 90% validation. Validation requires that the reports meet the Missouri State Minimums for EMS reporting. It is unclear if rejected records are tracked as well as any resubmission attempts.

Respondents assigned	3	Responses received	2	Response rate	66.7%	
-------------------------	---	--------------------	---	------------------	-------	--

#### Question 318:

Are there timeliness performance measures tailored to the needs of EMS system managers and data users?

#### Standard of Evidence:

Provide a complete list of timeliness performance measures for the EMS system and explain how these measures are used to inform decision-making.

Question Rank: Very Important

#### Assessor conclusions:

Reporting requirements are not the same as performance measures. A performance measure allows an agency to monitor the health and progress of a data system. For example, achieving 90% of all life threatening reports submitted to the Bureau of EMS within 30 days of incident is an example of a timeliness performance measure. The regulation change requiring 100% of incident data to be imported into the State system with 100% validation is a goal and offers an opportunity to develop performance measure to measure progress to these goals.

Respondents 3 Respon	nses 2 Response 66.7%
assigned 3 rece	eived rate 66.7%



**Question Rank:** 

## Question 319:

Are there accuracy performance measures tailored to the needs of EMS system managers and data users?

## Standard of Evidence:

Provide a complete list of accuracy performance measures for the EMS system and explain how these measures are used to inform decision-making.

#### Assessor conclusions:

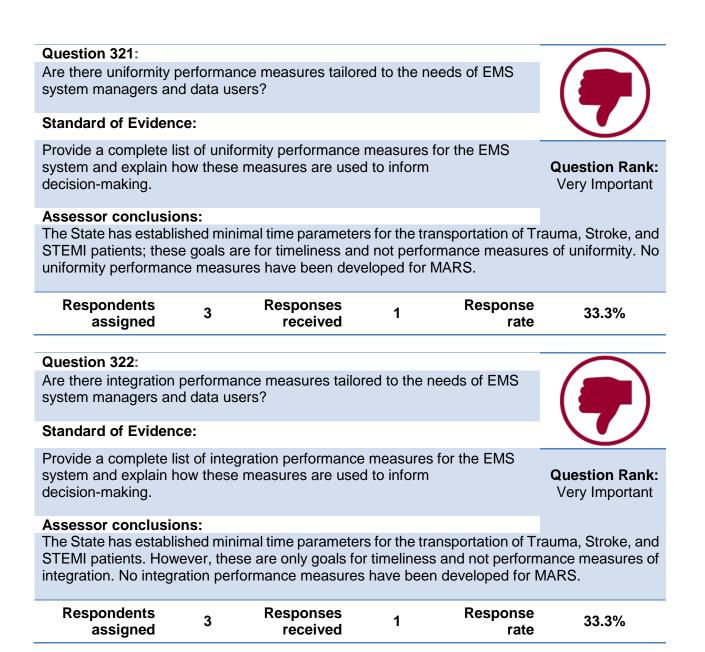
Regulations are not performance measures. For example achieving 100% of patient care reports with a validation score of 95 or better is an example of a performance measure for accuracy. The regulatory change will provide an opportunity to develop performance measures to measure progress toward that goal.

Respondents assigned	3	Responses received	2	Response rate	66.7%		
Question 320: Are there completene system managers an			ilored to th	e needs of EMS			
Standard of Evidence	ce:						
Provide a complete lissystem and explain h decision-making.	Question Rank: Very Important						
Assessor conclusions: The State has established minimal time parameters for the transportation of Trauma, Stroke, and STEMI patients; these are goals only for timeliness and not completeness. No completeness performance measures related to the MARS system have been developed.							

Respondents assigned	3	Responses received	2	Response rate	66.7%
-------------------------	---	--------------------	---	------------------	-------



Question Rank: Very Important



#### Question 323:

Are there accessibility performance measures tailored to the needs of EMS system managers and data users?

#### Standard of Evidence:

Provide a complete list of accessibility performance measures for the EMS system and explain how these measures are used to inform decision-making.

#### Assessor conclusions:

The State has established minimal time parameters for the transportation of Trauma, Stroke, and STEMI patients; these are goals for timeliness and not measures for accessibility. No accessibility performance measures have been developed for MARS.

Respondents assigned	3	Responses received	1	Response rate	33.3%	
-------------------------	---	--------------------	---	------------------	-------	--

#### Question 324:

Has the State established numeric goals-performance metrics-for each EMS system performance measure?

#### Standard of Evidence:

Provide specific numeric goals and related performance measures for each Question Rank: attribute as determined by the State.

## Assessor conclusions:

The Time Critical Diagnosis System, implemented through State statute, requires that patients are transported to an appropriate medical facility in a timely manner based on certain medical criteria. The regulatory change will require 100% submission of patient care reports with 100% validation. The requirement of 100% submission with 100% validation can be used as numeric goals to measure improvements in the EMS data system. The committee, expected to be formed after the regulatory change, may consider additional performance metrics for the other performance measures.

Respondents 4 Responses assigned 4 received	2	Response rate	50%
--	---	------------------	-----



**Question Rank:** Very Important

Somewhat Important

## Question 325:

Is there performance reporting for the EMS system that provides specific timeliness, accuracy, and completeness feedback to each submitting entity?

#### Standard of Evidence:

Provide a sample report, list of receiving agencies, and specify frequency of issuance.

#### Assessor conclusions:

There are regulations in place that relate to timeliness, accuracy, and completeness of the State's EMS data. Routine onsite inspections are conducted for regulatory compliance, the results of which are addressed at State Advisory Committee meetings and regional meetings. The State does not provide performance reporting feedback to the reporting agencies in any formal manner such as quarterly reports.

Respondents assigned	3	Responses received	1	Response rate	33.3%		
Question 326: Are high frequency e collection manuals, a			stem trainir	ng content, data			
Standard of Evidence:							
Provide the formal methodology or describe the process by which high frequency errors are used to update EMS system training content, data collection manuals, and validation rules.							
Assessor conclusions:							
The State provides local agencies with periodic analytical reports. When an anomaly is identified, the State's Data Management team works directly with the agency to resolve any							

identified, the State's Data Management team works directly with the agency to resolve any technical issues. The State also conducts side-by-side comparison of data from the records stored at the local level to the data that is submitted electronically into MARS. Onsite training for data managers is provided upon request and as necessary during the State inspection process.

Respondents assigned	3	Responses received	1	Response rate	33.3%	
-------------------------	---	-----------------------	---	------------------	-------	--



Question Rank: Very Important

## Question 327:

Are quality control reviews conducted to ensure the completeness, accuracy, and uniformity of injury data in the EMS system?

#### Standard of Evidence:

Provide a sample quality control review of injury records that details the system's data completeness.

#### Assessor conclusions:

The Bureau of EMS conducts audits of the State's data by analyzing specific key elements. One example is the review of the Glasgow Coma Scale. This particular data element is used in conjunction with a validation rule that requires the end users to submit this data for all trauma patients.

Question Rank:

Somewhat Important

Respondents assigned	3	Responses received	1	Response rate	33.3%			
Question 328:								
Are periodic compara differences in the EM				v unexplained				
Standard of Evidence	e:							
Describe the analyses frequency.	s, provide	e a sample record or	output, a	nd specify their	Question Rank: Less Important			
Assessor conclusio	ns:							
The State conducts bi-annual comparisons of the data collected in MARS. Recently, the State saw an increase in the number of records submitted which increased the need to monitor the quality of the data and the ability of the State's system to handle the extra records. At the present time, reviews are conducted only to evaluate the accuracy of the data and the stability of the system.								
Respondents assigned	3	Responses received	1	Response rate	33.3%			

## Question 329:

Is data quality feedback from key users regularly communicated to EMS data collectors and data managers?

#### Standard of Evidence:

Describe the process for transmitting and utilizing key users' data quality feedback to inform program changes.

#### Assessor conclusions:

The State Advisory Committee meets monthly in Jefferson City along with staff from the Bureau of EMS. Bureau staff will also provide assistance to the local data managers during normal State inspections being conducted.

Respondents assigned	3	Responses received	1	Response rate	33.3%		
Question 330:							
Are EMS data quality available to the State	, ,	ment reports produc	ed regula	rly and made			
Standard of Eviden	ce:						
Provide a sample que transmission to the S	Question Rank: Somewhat Important						
Assessor conclusion	ons:						
A representative from the Bureau of EMS attends each TRCC meeting, providing data and information as needed or requested for review by the committee. The Bureau of EMS presents to							

information as needed or requested for review by the committee. The Bureau of EMS presents to State and Federal officials on the State of Missouri EMS System and its data. A sample quality management report was not available for review.

Respondents assigned	3	Responses received	1	Response rate	33.3%
-------------------------	---	--------------------	---	------------------	-------



Question Rank: Somewhat Important

	Que	estion	331:
--	-----	--------	------

Are there automated edit checks and validation rules to ensure that entered data falls within a range of acceptable values and is logically consistent among data elements?

### Standard of Evidence:

Provide the formal methodology or describe the process by which automated edit checks and validation rules ensure entered data falls within the range of acceptable values and is logically consistent among fields. **Question Rank:** Very Important

#### Assessor conclusions:

The MARS data collection system includes a series of automated edit checks and validation rules.

Respondents assigned	Responses received	2 Response rate	66.7%
----------------------	-----------------------	--------------------	-------

#### Question 332:

Is limited state-level correction authority granted to quality control staff working with the statewide emergency department and hospital discharge databases in order to amend obvious errors and omissions without returning the report to the originating entity?

Provide the formal methodology or describe the process by which limited

the statewide emergency department and hospital discharge databases.

state-level correction authority is granted to guality control staff working with

# Question Rank: Somewhat

Important

#### Assessor conclusions:

Standard of Evidence:

No information was available to describe how hospital and emergency department records may be corrected at the State level.

Respondents assigned	3	Responses received	1	Response rate	33.3%	
-------------------------	---	-----------------------	---	------------------	-------	--

Question 333: Are there formally do department and hosp tracking resubmission discharge databases	ital discha to the sta	arge records to the	collecting	entity and	
Standard of Evidence Provide the formal me emergency departme collecting agency and emergency departme	ethodolog nt and ho I tracked t	spital discharge rec	ords are r	eturned to the	Question Rank: Very Important
Assessor conclusio The Missouri Hospita identified. The record documenting the proc performance measure	l Associat is resubn cess used	nitted to the hospita or time frame in wh	l associati hich this oc	on after correction ccurs could lead to	n. Formally o future
Respondents assigned	3	Responses received	2	Response rate	66.7%
Question 334: Are there timeliness p emergency departme users? Standard of Evidence	nt and hos				
Provide a complete lise emergency department these measures are used to be a surface of the second s	nt and ho	spital discharge dat	abases ar		Question Rank: Very Important
Assessor conclusion Regulations are not a useful measures to tr 95% hospitals submit the quarter.	substitute ack impro	vements in the data	a collectior	n system. For exa	mple, achieving
Respondents assigned	3	Responses received	2	Response rate	66.7%

Question 335:			1 40 460 000	de of	
Are there accuracy p					
emergency departme	ent and nos	spital discharge dat	abase man	agers and data	
users?					
Standard of Eviden	ce:				
Provide a complete I	ist of accu	racy performance n	neasures fo	or the	
emergency departme	ent and hos	spital discharge dat	abases and	d explain how	<b>Question Rank:</b>
these measures are	used to inf	orm decision-makir	ng.		Very Important
Accession conclusion					
Assessor conclusion		o for porformance n	a a a uraa h	ut thay can be u	and to dovelop
Regulations are not a useful metrics to mea					sed to develop
		inprovements in a t	ala system	1.	
Respondents	3	Responses	2	Response	66.7%
assigned	3	received	Z	rate	66.7%
Question 336:					
Are there completen					
emergency departme	ent and hos	spital discharge data	abase man	agers and data	
users?					
users?					
users? Standard of Eviden		1. 1			
users? Standard of Eviden Provide a complete I	ist of comp	•			
users? Standard of Eviden Provide a complete I emergency departme	ist of comp ent and hos	spital discharge dat	abases and		Question Rank:
users? Standard of Eviden Provide a complete I	ist of comp ent and hos	spital discharge dat	abases and		Question Rank: Very Important
users? Standard of Eviden Provide a complete I emergency departme	ist of comp ent and hose used to inf	spital discharge dat	abases and		• • • • • • • • • • • • • • • • • • • •
users? Standard of Eviden Provide a complete I emergency departme these measures are	ist of comp ent and hos used to inf ons:	spital discharge dat orm decision-makir	abases and ng.	d explain how	Very Important
users? Standard of Eviden Provide a complete I emergency departme these measures are Assessor conclusion	ist of comp ent and hose used to inf ons: used to dev	spital discharge dat orm decision-makir velop performance	abases and ng. measures t	d explain how hat would help t	Very Important he State measure
users? <b>Standard of Eviden</b> Provide a complete I emergency department these measures are <b>Assessor conclusion</b> Regulations can be u	ist of comp ent and hose used to inf ons: used to dev ir data system	spital discharge dat orm decision-makir velop performance tem. NHTSA has pu	abases and ng. measures t ublished se	d explain how hat would help t veral documents	Very Important he State measure s that provide
users? <b>Standard of Eviden</b> Provide a complete I emergency department these measures are <b>Assessor conclusioned</b> Regulations can be a improvements in the	ist of comp ent and hose used to inf ons: used to dev ir data system	spital discharge dat orm decision-makir velop performance tem. NHTSA has pu	abases and ng. measures t ublished se	d explain how hat would help t veral documents	Very Important he State measure s that provide
users? <b>Standard of Eviden</b> Provide a complete I emergency department these measures are <b>Assessor conclusioner</b> Regulations can be used improvements in the samples of performant State.	ist of comp ent and hose used to inf ons: used to dev ir data system	spital discharge dat orm decision-makir velop performance tem. NHTSA has pu ures that could be u	abases and ng. measures t ublished se	d explain how hat would help t veral documents odel to develop	Very Important he State measure s that provide
users? <b>Standard of Eviden</b> Provide a complete I emergency department these measures are <b>Assessor conclusion</b> Regulations can be used improvements in the samples of performant	ist of comp ent and hose used to inf ons: used to dev ir data system	spital discharge dat orm decision-makir velop performance tem. NHTSA has pu	abases and ng. measures t ublished se	d explain how hat would help t veral documents	Very Important he State measure s that provide

Question 337:					
Are there uniformity p emergency departme users?					
Standard of Evidend	ce:				
Provide a complete lis emergency departme these measures are u	nt and ho	spital discharge da	tabases an		Question Rank: Very Important
Assessor conclusio	ns:				
Regulations can be u improvements in their samples of performan State.	r data sys	tem. NHTSA has p	ublished se	veral documents	that provide
Respondents assigned	3	Responses received	2	Response rate	66.7%
Question 338:					
Are there integration emergency departme users?					
Standard of Evidence	ce:				
Provide a complete lis emergency departme these measures are u	nt and ho	spital discharge da	tabases an		Question Rank: Very Important
Assessor conclusio	ns:				
No integration perform	mance me	easures are in place	e for the hos	spital data system	IS.

Question 339: Are there accessibility emergency departme users?					
Standard of Evidence					
Provide a complete lis emergency departme these measures are u	nt and hos	spital discharge dat	abase and		Question Rank: Very Important
Assessor conclusio The State does not ha systems.		sibility performance	e measures	s in place for the	hospital data
Respondents assigned	3	Responses received	1	Response rate	33.3%
Question 340:					
Has the State establis emergency departme measure?		••••			
Standard of Evidend	e:				
Provide specific nume attribute as determine			nance mea	sures for each	Question Rank: Somewhat Important
Assessor conclusio	ns:				
Numeric goals have r the hospital discharge			er the emer	gency departme	nt data system or
Respondents assigned	3	Responses received	1	Response rate	33.3%

#### Question 341:

Is there performance reporting for the emergency department and hospital discharge databases that provides specific timeliness, accuracy, and completeness feedback to each submitting entity?

#### Standard of Evidence:

Provide a sample report, list of receiving agencies, and specify frequency of issuance.

Question Rank: Very Important

#### Assessor conclusions:

The Missouri Department of Health and Senior Services works collaboratively with the Missouri Hospital Association to make sure the hospital data is timely and complete but there is no formal method for performance reporting back to the submitting hospitals.

Respondents assigned	3	Responses received	2	Response rate	66.7%
Question 342: Are high frequency e hospital discharge d validation rules? Standard of Eviden	atabase tr				
Provide the formal m frequency errors are discharge database rules.	nethodolog used to u training co	pdate emergency de	epartment	and hospital	Question Rank: Very Important
Assessor conclusion	ons:				

Observed errors have been used to modify the analysis of the hospital data sets but this appears to be on an ad-hoc basis. There does not appear to be a formal process in place to routinely use high frequency data errors as a method to revise training and data collection manuals.

Respondents assigned	3	Responses received	2	Response rate	66.7%
-------------------------	---	-----------------------	---	------------------	-------



#### **Question 343:**

Are quality control reviews conducted to ensure the completeness, accuracy, and uniformity of injury data in the emergency department and hospital discharge databases?

#### Standard of Evidence:

Provide a sample quality control review of injury records that details the system's data completeness.

Question Rank: Somewhat Important

#### Assessor conclusions:

Each quarter of the Patient Abstract System data is reviewed for obvious errors and missing data. The sample provided is limited to the number of records submitted by a hospital and does not demonstrate quality control review to ensure accuracy or uniformity.

Respondents assigned	3	Responses received	2	Response rate	66.7%	
-------------------------	---	--------------------	---	------------------	-------	--

#### **Question 344:**

Are periodic comparative and trend analyses used to identify unexplained differences in the emergency department and hospital discharge data across years and agencies?

#### Standard of Evidence:

Describe the analyses, provide a sample record or output, and specify their frequency. Question Rank: Less Important

Assessor conclusions:

Current year data is compared with previous year data to identify obvious errors and missing data in the emergency department and hospital discharge datasets.

Respondents assigned	3	Responses received	2	Response rate	66.7%	
-------------------------	---	--------------------	---	------------------	-------	--

routinely made availa	DIE LO LNE				
Quality management	reports re		d emerger	ncy department d	ata are not
Provide a sample qua transmission to the S Assessor conclusio	tate TRC		specify fre	quency of	Question Rank Somewhat Important
Standard of Evidend	e:				
Question 346: Are emergency depar reports produced reg					
assigned		received	2	rate	66.7%
errors in the census t corrected the problen could be used to impl facilities. Respondents	n by revis	ing their SAS progra	amming co ack to the c	de. It is unclear i	f information that the individual
Assessor conclusio Feedback from analy	sts is give				
Describe the process feedback to inform pr		•	key users'	data quality	Question Rank Somewhat Important
Standard of Evidend					
emergency departme managers?					
Is data quality feedba	ck from k	and the second sec		4 14	

#### Question 347:

Are there automated edit checks and validation rules to ensure that entered data falls within a range of acceptable values and is logically consistent among data elements?

#### Standard of Evidence:

Provide the formal methodology or describe the process by which automated edit checks and validation rules ensure entered data falls within the range of acceptable values and is logically consistent among fields. Question Rank: Very Important

#### Assessor conclusions:

Both the EMS and Trauma Registry datasets conform to respective national data parameters through a set of validation rules inherent to the data collection system. Also included in the data collection system are validation rules for data elements specific to the State and based on State regulations.

Respondents assigned	3	Responses received	2	Response rate	66.7%
Question 348:					
Is limited state-level of working with the state and omissions withou	ewide trai	uma registry in orde	r to amend	l obvious errors	
Standard of Evidend	ce:				
Provide the formal me state-level correction the statewide trauma	authority				Question Rank: Somewhat Important
Assessor conclusio	ns:				
There is limited State facility make their ow score is met for each	n correcti	-			
Respondents	0	Responses	0	Response	66 79/

Respondents <u>3</u> Responses 2 assigned received	Response 66.7% rate	)
---	------------------------	---



Question 349:					
Are there formally doct collecting entity and tra					
Standard of Evidence	e:				
Provide the formal met data is returned to the the statewide trauma r	collecting				Question Rank: Very Important
Assessor conclusion	IS:				
Records that do not m system. It is unclear if accurate patient record inclusion of previously	any other ds. No ad	r quality control re Iditional informatio	views are in n was availa	place to ensure ble to address t	complete and
Respondents	3	Responses	2	Response	66.7%
assigned		received		rate	
		received		rate	
Question 350: Are there timeliness per registry managers and		ce measures tailor	ed to the ne		
Question 350: Are there timeliness pe	l data use	ce measures tailor	ed to the ne		
Question 350: Are there timeliness per registry managers and	l data use e: t of timelii	ce measures tailor ers? ness performance	measures fo	eds of trauma	Question Rank: Very Important
Question 350: Are there timeliness per registry managers and Standard of Evidence Provide a complete list registry and explain ho	l data use e: t of timelin ow these n	ce measures tailor ers? ness performance	measures fo	eds of trauma	Question Rank:

Question 349:

Respondents assigned	3	Responses received	2	Response rate	66.7%
-------------------------	---	--------------------	---	------------------	-------

#### Question 351:

Are there accuracy performance measures tailored to the needs of trauma registry managers and data users?

#### Standard of Evidence:

Provide a complete list of accuracy performance measures for the trauma registry and explain how these measures are used to inform decision-making.

#### Assessor conclusions:

TCD policy dictates that trauma facilities must meet a validity score of 94% - 100% for each trauma patient record entered into the registry. This is a goal and not a performance measure. Tracking the average validity scores for each trauma center would be one metric that could be used to monitor a center's performance.

Respondents assigned	3	Responses received	2	Response rate	66.7%
Question 352:					
Are there completene trauma registry mana			ailored to th	ne needs of	
Standard of Eviden	ce:				
Provide a complete li trauma registry and e decision-making.		•			Question Rank: Very Important
Assessor conclusion	ons:				
TCD policy dictates t trauma patient entere itself is not a substitu	ed into the	registry. This is a g	goal not an		

Respondents assigned	3	Responses received	2	Response rate	66.7%
-------------------------	---	-----------------------	---	------------------	-------



**Question Rank:** 

Very Important

Question 353:					$\frown$		
Are there uniformity per registry managers and			d to the ne	eeds of trauma			
Standard of Evidenc	e:						
Provide a complete lis registry and explain he decision-making.				for the trauma	Question Rank: Very Important		
Assessor conclusion	ıs:						
No uniformity performa	ance me	asures are in place f	or the trai	uma registry syste	em.		
Respondents assigned	3	Responses received	2	Response rate	66.7%		
Question 354: Are there integration p registry managers and	l data us		ed to the n	eeds of trauma			
Standard of Evidenc	e:						
Provide a complete lis registry and explain he decision-making.				for the trauma	Question Rank: Very Important		
Assessor conclusion	ıs:						
Assessor conclusions: Integration refers to the linkage of trauma registry records with records from other components of the traffic records system (i.e. crash, EMS). One performance measure could be to link trauma registry and crash records for calendar year 2014. The flow of data to and from the TCD or the NTDB registries for comparisons locally and at the national level would be more fitting for a uniformity measurement, not integration.							
Respondents assigned	3	Responses received	2	Response rate	66.7%		

#### **Question 355:**

Are there accessibility performance measures tailored to the needs of trauma registry managers and data users?

#### Standard of Evidence:

Provide a complete list of accessibility performance measures for the trauma registry and explain how these measures are used to inform decision-making.

Question Rank: Very Important

Important

#### Assessor conclusions:

Though all facilities in the State can access the online web portal known as the TCD (Time Critical Diagnosis System), this does not measure widespread accessibility. Performance measures are used to monitor changes in the 'health' of a data system. Goals should be established using metrics that can be measured on a periodic basis to allow the State to track improvements or to identify deficiencies. Accessibility is measured through customer satisfaction surveys, web portal metrics (down time-both scheduled and unscheduled), or data request metrics (number requests, completed, time to completion).

Respondents assigned	3	Responses received	2	Response rate	66.7%	
-------------------------	---	-----------------------	---	------------------	-------	--

#### **Question 356:**

Has the State established numeric goals—performance metrics—for each trauma registry performance measure?

#### Standard of Evidence:

Provide specific numeric goals and related performance measures for each attribute as determined by the State. Question Rank: Somewhat

#### Assessor conclusions:

There are a few goals that have been established by State regulation such as the 94% validation rule. These should be used as the basis for the development of performance measures.

Respondents assigned	3	Responses received	2	Response rate	66.7%	
-------------------------	---	-----------------------	---	------------------	-------	--

#### Question 357:

Is there performance reporting for the trauma registry that provides specific timeliness, accuracy, and completeness feedback to each submitting entity?

#### Standard of Evidence:

Provide a sample report, list of receiving agencies, and specify frequency of issuance.

Question Rank: Very Important

#### Assessor conclusions:

TCD staff generates quality reports each quarter. If issues are identified, the responsible facilities are contacted. A more formal process of performance reporting back to the submitting facilities may benefit both the trauma facilities in recognizing routine data errors and the registry with better quality data.

Respondents assigned	3	Responses received	2	Response rate	66.7%
Question 358:			• • •	•••	
Are high frequency e data collection manu			egistry tra	ining content,	
Standard of Eviden	ce:				
Provide the formal m frequency errors are collection manuals, a	used to u	pdate trauma registi		0	Question Rank: Very Important
Assessor conclusion	ons:				
TCD staff works to co They also provide on				,	-
Respondents assigned	3	Responses received	2	Response rate	66.7%

#### Question 359:

Are quality control reviews conducted to ensure the completeness, accuracy, and uniformity of injury data in the trauma registry?

#### Standard of Evidence:

Provide a sample quality control review of injury records that details the system's data completeness.

Question Rank: Somewhat Important

#### Assessor conclusions:

It is unclear if the 'Total Incident Count Per Trauma Form' report is providing a count of data quality incidents or trauma incidents. While it was stated that the TCD staff conduct quarterly reviews of the data, that information is insufficient to determine if the quality control reviews conducted specifically ensure the completeness, accuracy, and uniformity of the trauma registry data.

Respondents assigned	3	Responses received	2	Response rate	66.7%
Question 360: Are periodic compara differences in the trau Standard of Evidence	uma regis	-		•	
Describe the analyse frequency.		a sample record o	r output, a	nd specify their	Question Rank: Less Important
Assessor conclusion Generated reports are those reports or how records over time.	e reviewe				
Respondents assigned	3	Responses received	2	Response rate	66.7%

Question 361: Is data quality feedba registry data collecto Standard of Eviden	rs and data		communica	ted to trauma	
Stanuaru or Eviden	66.				
Describe the process feedback to inform p			g key users'	data quality	Question Rank: Somewhat Important
Assessor conclusion TCD staff review data managers on a regul regulatory compliance	a on a dail ar basis th				
Respondents assigned	3	Responses received	2	Response rate	66.7%
Question 362:					
Question 362: Are trauma registry d made available to the			orts produce	d regularly and	
Are trauma registry d	e State TR		orts produce	d regularly and	
Are trauma registry d made available to the	e State TR <b>ce:</b> ality mana	CC?			Question Rank: Somewhat Important

Respondents assigned	3	Responses received	2	Response rate	66.7%
-------------------------	---	-----------------------	---	------------------	-------

Question 363:					$\frown$
Are there automated					
data falls within a ran					
among data elements	s?				
Standard of Evidence	ce:				$\mathbf{\cdot}$
Provide the formal me	ethodoloa	or describe the pr	ocess by w	hich automated	
edit checks and valid					Question Rank:
acceptable values an				int the realige of	Very Important
	<u>-</u>	<b>,</b>	.9		
Assessor conclusio	ons:				
Information on edit ch	necks and	validation rules sp	ecific to the	vital records sys	stem was not
available.					
Respondents	3	Responses	2	Response	66.7%
assigned	5	received	L	rate	00.7 /0
Question 364:					$\frown$
Is limited state-level of					
Is limited state-level of working with vital reco	ords in ord	der to amend obvio	us errors a		
Is limited state-level of	ords in ord	der to amend obvio	us errors a		
Is limited state-level of working with vital reco without returning the	ords in orc report to t	der to amend obvio	us errors a		
Is limited state-level of working with vital reco without returning the Standard of Evidence	ords in ord report to th ce:	der to amend obvio he originating entit	us errors a /?	nd omissions	
Is limited state-level of working with vital reco without returning the Standard of Evidend Provide the formal me	ords in ord report to th ce: ethodology	der to amend obvio he originating entity y or describe the p	us errors a y? rocess by w	nd omissions which limited	Question Rank:
Is limited state-level of working with vital reco without returning the Standard of Evidend Provide the formal me state-level correction	ords in ord report to th ce: ethodology	der to amend obvio he originating entity y or describe the p	us errors a y? rocess by w	nd omissions which limited	Question Rank: Somewhat
Is limited state-level of working with vital reco without returning the Standard of Evidend Provide the formal me	ords in ord report to th ce: ethodology	der to amend obvio he originating entity y or describe the p	us errors a y? rocess by w	nd omissions which limited	Question Rank: Somewhat Important
Is limited state-level of working with vital reco without returning the Standard of Evidend Provide the formal me state-level correction	ords in ord report to th ce: ethodology authority i	der to amend obvio he originating entity y or describe the p	us errors a y? rocess by w	nd omissions which limited	Somewhat
Is limited state-level of working with vital reco without returning the <b>Standard of Evidend</b> Provide the formal mo state-level correction vital records.	ords in ord report to th ce: ethodology authority i ons:	der to amend obvio he originating entity y or describe the p is granted to quality	us errors an y? rocess by w y control sta	nd omissions which limited aff working with	Somewhat Important

Question 365:					$\frown$
Are there formally docu collecting entity and trad		•	•••	ed data to the	
Standard of Evidence					
Provide the formal meth data is returned to the co vital records.					Question Rank: Very Important
Assessor conclusions	5:				
Information about forma originating entity and th			for trackin	g rejected data k	between the
Respondents assigned	3	Responses received	1	Response rate	33.3%
Question 366:					$\frown$
Are there timeliness per records managers and			d to the ne	eds of vital	
Standard of Evidence	:				
Provide a complete list and explain how these		•			Question Rank: Very Important
Assessor conclusions	5:				
Limited information was its processes and capal		ble about the vital re	cords syst	em to allow an a	dequate review of
Respondents assigned	3	Responses received	1	Response rate	33.3%

#### Question 367:

Are there accuracy performance measures tailored to the needs of vital records managers and data users?

#### Standard of Evidence:

Provide a complete list of accuracy performance measures for vital records and explain how these measures are used to inform decision-making.

#### Assessor conclusions:

Limited information was available about the vital records system to allow an adequate review of its processes and capabilities.

Respondents assigned	3	Responses received	1	Response rate	33.3%	
-------------------------	---	-----------------------	---	------------------	-------	--

#### **Question 368:**

Are there completeness performance measures tailored to the needs of vital records managers and data users?

#### Standard of Evidence:

Provide a complete list of completeness performance measures for vital records and explain how these measures are used to inform decision-making.

#### Assessor conclusions:

Limited information was available about the vital records system to allow an adequate review of its processes and capabilities.

Respondents assigned	3	Responses received	1	Response rate	33.3%
-------------------------	---	--------------------	---	------------------	-------



Question Rank: Very Important

**Question Rank:** 

Very Important

. . .

#### Question 369: Are there uniformity performance measures tailored to the needs of vital records managers and data users? Standard of Evidence: Provide a complete list of uniformity performance measures for vital records **Question Rank:** and explain how these measures are used to inform decision-making. Very Important Assessor conclusions: Limited information was available about the vital records system to allow an adequate review of its processes and capabilities. Respondents Responses Response 3 1 33.3% assigned received rate **Question 370:** Are there integration performance measures tailored to the needs of vital records managers and data users? Standard of Evidence: Provide a complete list of integration performance measures for vital records **Question Rank:** and explain how these measures are used to inform decision-making. Very Important Assessor conclusions: Limited information was available about the vital records system to allow an adequate review of its processes and capabilities. Respondents Responses Response 3 1 33.3% received assigned rate

# Question 371:Are there accessibility performance measures tailored to the needs of vital<br/>records managers and data users?Standard of Evidence:Provide a complete list of accessibility performance measures for vital<br/>records and explain how these measures are used to inform<br/>decision-making.Assessor conclusions:<br/>Limited information was available about the vital records system to allow an adequate review of<br/>its processes and capabilities.

Respondents assigned	3	Responses received	1	Response rate	33.3%
Question 372:					
Has the State establis vital records performa			ance met	rics—for each	
Standard of Evidenc	e:				
Provide specific nume attribute as determine	•	•	nance mea	asures for each	Question Rank: Somewhat Important
Assessor conclusion	ıs:				·
Limited information wa its processes and cap		ble about the vital re	ecords sys	tem to allow an a	dequate review of

Respondents assigned	3	Responses received	1	Response rate	33.3%	
-------------------------	---	-----------------------	---	------------------	-------	--

#### Question 373: Is there performance reporting for vital records that provides specific timeliness, accuracy, and completeness feedback to each submitting entity? Standard of Evidence: Provide a sample report, list of receiving agencies, and specify frequency of **Question Rank:** issuance. Very Important Assessor conclusions: Limited information was available about the vital records system to allow an adequate review of its processes and capabilities. Respondents Responses Response 3 1 33.3% assigned received rate Question 374: Are high frequency errors used to update vital records training content, data collection manuals, and validation rules? Standard of Evidence: Provide the formal methodology or describe the process by which high frequency errors are used to update vital records training content, data **Question Rank:** collection manuals, and validation rules. Very Important **Assessor conclusions:** Limited information was available about the vital records system to allow an adequate review of its processes and capabilities. Respondents Responses Response 3 1 33.3% assigned received rate

#### Question 375:

Are quality control reviews conducted to ensure the completeness, accuracy, and uniformity of injury data in the vital records?

#### Standard of Evidence:

Provide a sample quality control review of injury records that details the system's data completeness.

#### Assessor conclusions:

Limited information was available about the vital records system to allow an adequate review of its processes and capabilities.

Respondents assigned	3	Responses received	1	Response rate	33.3%	
-------------------------	---	-----------------------	---	------------------	-------	--

#### Question 376:

Are periodic comparative and trend analyses used to identify unexplained differences in the vital records data across years and agencies?

#### Standard of Evidence:

Describe the analyses, provide a sample record or output, and specify their frequency.

#### Assessor conclusions:

Limited information was available about the vital records system to allow an adequate review of its processes and capabilities.

מסטועוובע ובנכועבע ומנכ	Respondents assigned	3	Responses received	1	Response rate	33.3%
-------------------------	-------------------------	---	-----------------------	---	------------------	-------

#### Question 377:

Is data quality feedback from key users regularly communicated to vital records data collectors and data managers?

#### Standard of Evidence:

Describe the process for transmitting and utilizing key users' data quality feedback to inform program changes.

#### Assessor conclusions:

Limited information was available about the vital records system to allow an adequate review of its processes and capabilities.

Respondents assigned	3	Responses received	1	Response rate	33.3%	
-------------------------	---	-----------------------	---	------------------	-------	--



**Question Rank:** Somewhat Important

**Question Rank:** Less Important

Question Rank:

Somewhat Important

Question 378:					
Are vital records data made available to the		•	s produced	regularly and	
Standard of Evidence	e:				
Provide a sample qua transmission to the St	-	•	specify fre	equency of	Question Rank: Somewhat Important
Assessor conclusio	ns:				•
Limited information w its processes and cap		ble about the vital r	ecords sys	tem to allow an a	dequate review of
Respondents assigned	3	Responses received	1	Response rate	33.3%

## **Data Use and Integration**

Integration combines data from multiple systems to form a new, more robust dataset that is capable of answering a wider variety of safety-related questions. These integrations occur both within the core systems and between them. Data integration does not appear to be a high priority for the State.

The State's roadway system consists of many individually-maintained datasets in one. The addition of crash data gives decision-makers a more complete picture. This was the only documented integration provided.

State decision-makers and the public have access to data and personnel to help them, but with the exception of the linked crash and roadway data, this access is limited to the individual data systems. Creation of, and access to, integrated databases would help planners to better understand the overall traffic safety picture.

#### Question 379:

Do behavioral program managers have access to traffic records data and analytic resources for problem identification, priority setting, and program evaluation?

#### Standard of Evidence:

Identify the data source(s), (crash, roadway, driver, vehicle, citation adjudication, injury surveillance), discuss and provide examples of program specific analysis (e.g., reports, fact sheets, web pages, ad hoc analyses.

Question Rank: Very Important

#### Assessor conclusions:

Program managers have access to some reports but it is not evident that they have broad access to resources to make informed decisions. There is data available to specific departments; however, there is no real identification of the data being used for analysis.

Respondents assigned	9	Responses received	6	Response rate	66.7%
-------------------------	---	-----------------------	---	------------------	-------

Question 380:					
Does the State have a	a data gov	vernance process?			
Standard of Evidenc	e:				
Provide a narrative de the personnel involved integration and formal	d and des	scribing how it supp			Question Rank: Somewhat Important
Assessor conclusion	ns:				
Data owners are resp governance process t place. Each agency m governance dealing w	hat suppo nay have g	orts the integration a governance in place	and quality e for their o	management of	systems is in
Respondents	9	Responses	5	Response	55.6%
assigned		received		rate	55.0 %
		received	•	rate	55.0%
Question 381: Does the State have a	a formal ti	raffic records syster	n inventor		
Question 381: Does the State have a linkages useful to the	a formal tr State and	raffic records syster	n inventor		
assigned Question 381: Does the State have a linkages useful to the Standard of Evidenc Provide a copy of the sources, system custo linkages useful to the	a formal ti State and e: system ir odians, da	raffic records syster d data access polici nventory specifying ata elements and att	n inventory es? all traffic re tributes, lin	y that identifies	Question Rank: Very Important
Question 381: Does the State have a linkages useful to the Standard of Evidenc Provide a copy of the sources, system custo	a formal tr State and e: system ir odians, da State, an	raffic records syster d data access polici nventory specifying ata elements and att	n inventory es? all traffic re tributes, lin	y that identifies	Question Rank:
Question 381: Does the State have a linkages useful to the Standard of Evidenc Provide a copy of the sources, system custo linkages useful to the	a formal tr State and e: system in odians, da State, an ns:	raffic records syster d data access polici nventory specifying ata elements and att d data access polic	n inventory es? all traffic re tributes, lin ies.	/ that identifies ecords data kage variables,	Question Rank:

Question 382: Does the TRCC pron data governance, acc Standard of Evident	cess, and	• • •			
Standard of Eviden	ce:				
Identify, with appropr demonstrate the pror		-	egic plan s	ections that	Question Rank: Somewhat Important
Assessor conclusion	ons:				•
The TRCC does not	actively pr	omote data integrat	ion.		
Respondents assigned	8	Responses received	3	Response rate	37.5%
Question 383:					$\frown$
Is driver data integra	ted with cr	ash data for specific	c analytical	purposes?	
Standard of Eviden	ce:				
Document an integra example analysis, an include an assessme or of crash risk assoc behavior.	d the freq	uency of linkage. Ex uated drivers' license	ample ana e (GDL) lav	alyses could w effectiveness	Question Rank: Very Important
Assessor conclusion The State does not c		y analysis with drive	er data link	ed to crash data	
Respondents assigned	9	Responses received	5	Response rate	55.6%

	457 01 467
<b>Question 384</b> : Is vehicle data integrated with crash data for specific analytical purposes?	
Standard of Evidence:	
Document an integrative crash-vehicle link, the linkage variables, and example analysis, and the frequency of linkage. Example analyses could	Question Pank:

Assessor conclusions:

road classification.

The State does not conduct any analysis with vehicle data linked to crash data.

include crash trends among vehicle types or vehicle weight restriction by

Respondents assigned	9	Responses received	5	Response rate	55.6%

Question 385:	
Is roadway data integrated with crash data for specific analytical purposes?	
Standard of Evidence:	
Document an integrative crash-roadway link, the linkage variables, and example analysis, and the frequency of linkage. Example analyses could include the identification of high crash locations and locations with similar roadway attributes or an assessment of engineering countermeasures' effectiveness.	Question Rank: Very Important
Assessor conclusions:	
State crash data and roadway data can be linked by using a common linear re Examples include: J turn safety analysis, safety treatments for rural two lane ro striping.	

Respondents assigned	9	Responses received	4	Response rate	44.4%	
-------------------------	---	--------------------	---	------------------	-------	--

**Question Rank:** 

Very Important

#### **Question 386:**

Is citation and adjudication data integrated with crash data for specific analytical purposes?

#### Standard of Evidence:

Document an integrative crash-citation or adjudication link, the linkage variables, and example analysis, and the frequency of linkage. Example analyses could include an assessment of the relationship between illegal actions and crashes for specific driver subpopulations (e.g., older drivers) or of crash-involved DUI offenders' adjudications.

#### Assessor conclusions:

There has been no linking of citation and adjudication data with crash data for analysis.

Respondents assigned	2	Responses received	2	Response rate	100%	
-------------------------	---	-----------------------	---	------------------	------	--

#### Question 387:

Is injury surveillance data integrated with crash data for specific analytical purposes?

#### Standard of Evidence:

Document an integrative crash-injury surveillance link, the linkage variables, and example analysis, and the frequency of linkage. Example analyses could include injury outcomes by specific crash type or injuries associated with occupant protection.

Question Rank:

Very Important

#### Assessor conclusions:

There is no integration of the injury surveillance data with crash data. The FARS analyst has access to health data for the coding of fatal crashes but no integration or linkage exists.

Respondents assigned	9	Responses received	5	Response rate	55.6%	
-------------------------	---	--------------------	---	------------------	-------	--



Question Rank: Very Important

#### Question 388: Are there examples of data integration among crash and two or more of the other component systems? Standard of Evidence: Document an integrative link among crash and multiple data systems, the linkage variables, and example analysis, and the frequency of linkage. **Question Rank:** Example analyses could include an assessment of the safety impact of Somewhat differential speed limits for different vehicle types. Important Assessor conclusions: Although crash data is linked with several components of roadway system data, there does not

appear to be linkage with a third dataset that is used for analysis. Data linkage among the core traffic records data systems other than crash and roadway does not appear to be in place in the State.

Respondents assigned	9	Responses received	4	Response rate	44.4%
Question 389: Is data from traffic re crash—integrated fo			•		
Standard of Eviden	ce:				
variables, example analysis, and the frequency of linkage. Example analyses could include an assessment of recidivism among specific driver populations.				Question Rank: Somewhat Important	
Assessor conclusion					

There appear to be no data linkages between the core traffic records data systems outside of crash, such as driver, vehicle, injury, or citation/adjudication, used for analysis. Data integration between any two systems (excluding crash) is not being used for analysis.

Respondents assigned	9	Responses received	5	Response rate	55.6%	
-------------------------	---	-----------------------	---	------------------	-------	--

assigned

#### Question 390: Do decision-makers have access to resources—skilled personnel and user-friendly access tools-for the use and analysis of integrated datasets? Standard of Evidence: Identify the analytical resources available: personnel, software, or online **Question Rank:** resources. Specify the decision-makers who have access to these Somewhat resources. Important Assessor conclusions: Decision-makers have access to several types of data, but the State's lack of integrated datasets does not allow for the analysis of integrated datasets. Respondents Responses Response 8 3 37.5% assigned received rate Question 391: Does the public have access to resources-skilled personnel and user-friendly access tools-for the use and analysis of integrated datasets? Standard of Evidence: Question Rank: Identify the analytical resources available to the public: personnel, software, or online resources. Specify how the public has access to these resources. Somewhat Important Assessor conclusions: There is a public tool for crash data, but it is not integrated with any other data. Respondents Responses Response 8 3 37.5%

received

rate

## **Appendix A**

#### **Assessment Participants**

#### State Highway Safety Office Representative(s)

Patrick McKenna Missouri Department of Transportation Director

Bill Whitfield MoDOT Highway Safety Director

#### State Assessment Coordinator(s)

Mr. Jeremy Hodges Missouri Department of Transportation Commercial Motor Vehicle Program Manager

Mr. Andrew Williford MoDOT Traffic Studies Specialist

#### **NHTSA Regional Office Coordinator(s)**

Mr. Jeff Halloran NHTSA Highway Safety Specialist

#### **NHTSA Headquarters Coordinator**

Mr. John N Siegler Ph.D. National Highway Traffic Safety Administration Team Lead, Traffic Records Team

**State and Local Respondents** The following State and Local staff assisted in the Assessment by providing responses to the Advisory criteria and questions.

Name	Agency	Title
Mr. Doug Buschjost	OSCA	Project Manager
Megan Denkler	MoDOT	TMS Admin.
Mr. Russ Dunwiddie	Missouri State Highway Patrol	Assistant Director
Mr. Terry Ellsworth	DHSS	Supervisor
Mr. Jeremy Hodges	Missouri Department of Transportation	Commercial Motor Vehicle Program Manager
Andrew Hunter	DHSS	Supervisor
Ms. Tina Jones	OSCA	Support Services Manager
Pamela Lueckenotto	MoDOT	MCS Specialist
Benjamin J Miller	Missouri Office of Prosecution Services	Technology/Automation Resource Prosecutor
Chris Phelps	DHSS	EMS Inspector
Ms. Christina Predmore	Department of Revenue	Manager
Ms. Tracy Robertson	Department of Revenue	Manager
Ms. Myrna R Tucker	Missouri Dept. of Transportation	Planning Data Systems Coordinator

#### **Assessment Facilitator**

Ms. Cindy Burch

## **Assessment Team Members**

Sgt. Christopher Corea Ms. Kathleen Haney Mr. Loren Hill Mr. Matthew Hudnall Mr. Cory Hutchinson Mr. Tim Kerns Mr. William Kovarik Ms. Roxanne Langford Mr. Don Nail Mr. John New Dr. Michael Pawlovich Ph.D., P.E Mr. R. Robert Rasmussen II Ms. Tracy Joyce Smith Ms. Joan Vecchi Mr. Fred E Zwonechek

# Appendix B

# National Acronyms and Abbreviations

HSP Highway Safety Plan	AADT AAMVA AASHTO ACS AIS ANSI ATSIP BAC CDC CDIP CDLIS CODES DDACTS DHS DMV DPPA DOH DOJ DOT DOT-TRCC DRA DUI DUID DUID DUID DWI ED EMS FARS FDEs FHWA FMCSA GCS GDL GES GHSA GIS GJXDM GPS GRA HIPAA HIPAA HPMS	Average Annual Daily Traffic American Association of Motor Vehicle Administrators American Association of State Highway and Transportation Officials American College of Surgeons Abbreviated Injury Score American National Standards Institute Association of Transportation Safety Information Professionals Blood Alcohol Concentration Center for Disease Control NHTSA's Crash Data Improvement Program Commercial Driver License Information System Crash Outcome Data Evaluation System Data Driven Approaches to Crime and Traffic Safety Department of Homeland Security Department of Homeland Security Department of Hotor Vehicles Drivers Privacy Protection Act Department of Justice Department of Justice Department of Justice Department of Justice Department of Transportation The US DOT Traffic Records Coordinating Committee Deputy Regional Administrator (NHTSA) Driving Under the Influence of Drugs Driving Under the Influence of Drugs Driving While Intoxicated Emergency Department Emergency Medical Service Fatality Analysis Reporting System Fundamental Data Elements Federal Highway Administration Glasgow Coma Scale Graduated Driver Licensing General Estimates System Governors Highway Safety Association Geographic Information System Government Reference Architecture Health Information Privacy and Accountability Act Highway Performance Monitoring System
- · · ·	HSIP	Highway Performance Monitoring System Highway Safety Improvement Plan

ICD-10 IRB ISS IT JIEM LEIN MADD MCMIS MIDRIS MIDRIS MIDRIS MIDRIS MIDRIS MOU MPO NAPHSIS NCHIP NCHS NCHIP NCHS NCHS NCHIP NCHS NCHIS NCHIS NCHIS NCHS NCHIS NCHS NCHIS NCHS NCHIS NCHS NCHIS NCHIS NCHS NCHIS NCH	International Classification of Diseases and Related Health Problems Institutional Review Board Injury Severity Score Information Technology Justice Information Exchange Model Law Enforcement Information Network Mothers Against Drunk Driving Motor Carrier Management Information System Model Impaired Driving Records Information System Model Inneated Driving Records Information System Model Inneation of Public Health Statistics and Information Systems National Crime Information Center National Center for Health Statistics National Center for State Courts National Center for State Courts National Governor's Association National Incident-Based Reporting System National Governor's Association National Incident-Based Reporting System National Indormation Exchange Model National Information Exchange Model National Law Enforcement Telecommunication System National Motor Vehicle Title Information System National Motor Vehicle Title Information System National Inder Report Problem Driver Pointer System Property Damage Only Personally Identifiable Information Regional Administrator (NHTSA) FHWA's Roadway Data Improvement Program Regional Planning Commission FMCSA's Safety Data Improvement Program Systematic Alien Verification for Entitlements Strategic Highway Safety Plan Subject Matter Expert Social Security Online Verification State Traffic Records Assessment Program Statewide Injury Surveilance System Traffic Control Devices
SSOLV	Social Security Online Verification
	•
	Traffic Control Devices
TRA TRIPRS	Traffic Records Assessment Traffic Records Improvement Program Reporting System
TRCC	Traffic Records Coordinating Committee
TRS	Traffic Records System

UCR	Uniform Crime Reports
VIN	Vehicle Identification Number
VMT	Vehicle Miles Traveled
XML	Extensible Markup Language

# State-Specific Acronyms and Abbreviations

DHHS DOR	Department of Health and Senior Services Department of Revenue
MAI	Missouri Approved Instructions
MARS	Missouri Ambulance Reporting System
MODL	Missouri Driver License system
MSHP	Missouri State Highway Patrol
MUCR	Missouri Uniform Crash Report
MoDOT	Missouri Department of Transportation
PAS	Patient Abstract System
RACF	Resource Access Control Facility
STARS	Statewide Traffic Accident Records System
TCD	Time Critical Diagnosis system
TMS	Transportation Management System
TRIPS	Title and Registration Intranet Process System