

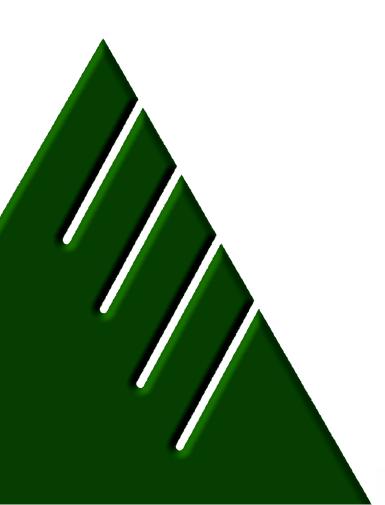
QUAPAW NATION OF OKLAHOMA

TRIBAL TRANSPORTATION SAFETY PLAN

FINAL REPORT

December 11, 2017

PREPARED BY:







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Introduction

Background

The Quapaw tribal area is unique in that it is well connected with the surrounding roadway networks in Kansas, Oklahoma, and Missouri. Due to that fact, a high percentage of traffic on the major routes travels through the tribal area to arrive at their final destination. This situation presents its own unique challenges when working to improve the transportation safety in this area.

Another unique characteristic is the breakdown of roadway ownership and physical location of the Quapaw roadway system. The roadway system is comprised of 144.5 miles of county roads, 43.1 miles of urban/city streets, 24.2 miles of state highway, and 7.9 miles of tribal roads. Additionally, the breakdown of bridge ownership is similar to the roadways. There are 2773 feet of county bridges, 782 feet of state bridges, and 120 feet of tribal bridges.

The geographical location of some of these roadways presents an unusual challenge as well. Though the vast majority of the Quapaw road network is in Oklahoma, there are six (6) sections of roadway that are in the state of Kansas (totaling 0.9 miles) and one (1) section of roadway that is within the state of Missouri (0.1 mile). Working within three states poses a very unique challenge to the tribe.

In order to help better understand the transportation safety challenges, traffic crash data was evaluated from the Oklahoma Highway Safety Office (OHSO), Kansas Department of Transportation (KDOT), and the Missouri Department of Transportation (MoDOT). All three agencies provided crash data specific to the Quapaw tribal area for the years 2011 to 2016.

MoDOT's Transportation Management System (TMS) was used to identify crash data in the state of Missouri. No injury or fatal crashes were found for the one tenth mile segment of Downstream Boulevard between SE 118th Street and the US 400 roundabout in Missouri.

KDOT was contacted to obtain crash data along the six (6) sections of roadway within the state of Kansas. One (1) injury crash and one (1) property damage only crash were found along these sections which include a short stretch of SE 118th Street south of Downstream Boulevard, two short sections along Downstream Boulevard between the casino and SE 118th Street, and three short sections of internal street network within the parking lot area.

OHSO was contacted to obtain crash data within the Quapaw region of Oklahoma. During this six year timeframe there were 328 total crashes within the combined study area. Of those, there were eight (8) fatal crashes with nine (9) fatalities; there were 130 injury crashes with 135 persons injured; and, there were 190 property damage only crashes. The purpose of this plan is to document known and perceived issues and to take a proactive approach towards transportation safety.

Emphasis areas, based on data analysis, were identified and then prioritized by the stakeholders. Strategies have been developed with desired outcomes for reducing fatalities and serious injuries from vehicle crashes. In order to help focus the collective efforts of the stakeholder group, a Vision, Mission, and Goal were established.





Vision: Eliminate all injury and fatal crashes within the Quapaw region.

Mission: Implementing cost-effective engineering projects, education campaigns, law enforcement efforts, and EMS strategies to quickly reduce and ultimately eliminate all injury and fatal crashes within the Quapaw region.

Goal: Reduce fatalities and injuries by 5% each year over the next five (5) years.

Safety Partners/Stakeholders

The following agencies were consulted in the development of the Tribal Transportation Safety Plan (TTSP) and are crucial to achieving the planned goals.

- CJW Transportation Consultants, LLC
- Quapaw Tribe Maintenance Director
- Quapaw Tribe Tribal Administrator
- Quapaw Tribe Chief Financial Officer
- Quapaw Tribe EMS Director
- Quapaw Tribe Marshals, Chief
- Quapaw Tribe Grants Manager
- Quapaw Tribe EM Project Manager
- Quapaw Services Authority Health and Safety Manager
- Quapaw Tribe Business Committee Secretary/Treasurer
- Quapaw Services Authority Project Manager
- Quapaw Tribe Housing Director
- Quapaw Tribe Roads Manager

Methodology

The stakeholder group met and conducted a charrette style meeting where stakeholders offered input on transportation safety issues within the Quapaw region. Those issues were documented and then categorized into emphasis areas specific to the Quapaw transportation network. From these specific emphasis areas, detailed data analysis was conducted on the traffic crash data to further the safety issues identified by the local stakeholder group.

Crash data was acquired from OHSO. Using this data, ensuring that attention was given to the emphasis areas identified by the stakeholder group, an in-depth analysis was completed. This analysis identified key crash types, locations, and contributing factors for the 2011-2016 timeframe. Additional areas of concern were identified and then prioritized by working with the stakeholders in a group meeting. All modes of transportation were discussed.

From the data analysis and local stakeholder input, as well as review of the Oklahoma Strategic Highway Safety Plan, the emphasis areas were prioritized. The prioritization was done to ensure that the most effective countermeasures would be used to meet the Vision, Mission, and Goal of the transportation safety plan.





Performance measures were also developed for each recommended emphasis area.

Strategies used will be in line with those found in the 2013-2014, Oklahoma Strategic Highway Safety Plan (SHSP).

Data Analysis

The 2011-2016 OHSO crash data was reviewed and analyzed by severity, crash type, contributing circumstance, and time of day/day of week. National Highway Traffic Safety Administration's (NHTSA) Fatality Analysis Reporting System (FARS) data from 2011-2015 was also reviewed and analyzed to determine if there were additional elements that needed to be considered in this plan.

During the timeframe from 2011-2016, there were nine (9) traffic fatalities in the Quapaw region occurring in eight (8) fatal crashes. There was one (1) fatality in 2011; two (2) fatalities in 2012; three (3) fatalities in 2013; none in 2014; two (2) in 2015; and, one (1) in 2016. Five (5) of the fatal crashes listed alcohol as a contributing factor. Two (2) of the fatal crashes listed both alcohol and drugs as contributing factors.

Native American Traffic Safety Facts (2017), stemming from FARS data (2011-2015), lists one (1) Native American as being killed as a result of a car crash. In 2012, a Native American pedestrian was struck and killed by a motor vehicle. The data shows that the pedestrian was in the roadway when struck by the vehicle.

The stakeholders were provided the data (both tabular and graphic) to review. Additional areas of concern, beyond what the crash data revealed, were identified and discussed. A thorough review of the regional crash data, input from the stakeholders, and the 2013-2014 Oklahoma SHSP was used in this process. From this process, the following thirteen (13) issues were identified.

- Roadway Safety (narrow roads, sight distance, flooding, pavement condition Engineering & Emergency Response)
- Accessibility (bridge/roadway flooding causing some areas to be cut off, roadway width in areas is problematic – Engineering & Emergency Response)
- Distracted Driving (mostly cell phones, but any type of distraction Education)
- Drainage Issues (water on roadways, ditches and stream flooding, hydroplaning and issues at intersections Engineering)
- Roadway Delineation (pavement marking & signing is in poor condition or missing Engineering)
- Intersection Improvements (sight distance, geometrics, visibility, etc. Engineering)
- Parking Areas (obstructing view at driveways and intersections Engineering)
- Speeding (work zones, actual speed limits, might do Safety Zones Engineering & Enforcement)
- Work Areas (speeding, sight distance, driver issues (specifically the chat pile mitigation area) –
 Engineering & Enforcement)
- Intersection Lighting (very dark, easy to miss Enforcement)
- School Zone Issue (loading/unloading can cause congestion, pedestrians crossing main roadway Engineering, Education, & Enforcement)
- Impaired Driving (high percentage of impaired fatalities in region Enforcement & Education)
- Seatbelt Usage (low usage Education)





Engineering, education, enforcement, & emergency medical services are commonly referred to as the "4E's". Strategies from all of the 4E's identified in the SHSP have been utilized to address issues within the identified emphasis areas. From the identified issues and their related emphasis area, four (4) key emphasis areas were chosen. These emphasis areas will allow the tribe to focus and maximize the effectiveness of their efforts.

Emphasis Areas

The four (4) key emphasis areas identified are: Unsafe Driver Behavior; Intersection Crashes; Crashes Involving Young Drivers; and Lane Departure Crashes. These emphasis areas were selected based on a thorough analysis of the regional crash data, input from the stakeholders, and by reviewing the 2013-2014 Oklahoma SHSP.

To ensure that this plan is specific to the Quapaw region, the objectives and success indicators have been tailored specifically to the Quapaw region's identified areas of concern (see Appendix A).

Background

The stakeholders applied local knowledge and reviewed the safety data provided by the Oklahoma Highway Safety Office. The safety of all inhabitants, visitors, and passersby in the Quapaw region is vitally important and must be considered. Therefore, a comprehensive approach to this plan was taken.

Objective

The overall objective of this plan is to reduce all fatal and serious injury crashes by 5% each year for 5 years. This will be best accomplished through successful planning and implementation in all four emphasis areas.

Performance Measures

Going forward, crash data acquired from the Oklahoma Highway Safety Office will be used to determine if the actions identified for each emphasis area has been successful. Additionally, media efforts and the number of students that have been reached through specific highway safety educational programs will be tracked to ensure that outreach is being accomplished in the Quapaw region.

Strategies

Individual strategies are listed in the Tribal Safety Plan Matrix for each emphasis area to ensure accountability for all organizations and/or positions listed in the Tribal Safety Plan Matrix. The stakeholders group will meet semi-annually to discuss and review the efforts taken in each emphasis area.

Implementation Process

The stakeholders will establish milestones to measure the progress of the Transportation Safety Plan and keep a record of successes and challenges. This data will be essential in evaluating the actions/strategies





to determine their effectiveness. The working group will monitor the implementation of these strategies to ensure their success. Furthermore, monitoring will provide accountability, keep stakeholders engaged, and allow for collaboration opportunities to be identified.

The stakeholders will meet with the responsible person/organization for each action/strategy to ensure that they are on track with the agreed upon milestones. This meeting should include updated data (when available) as prescribed in the plan. The timeframe for holding these meetings will depend on the type of strategy and the timeframe needed to update the data as outlined in the Transportation Safety Plan.

Evaluation Process

Educational and Enforcement strategies can be measured almost immediately. Crash numbers can be reviewed annually. However, to ensure that the strategies have worked with any statistical certainty, follow-up studies will need to take place three to five years after improvements have been made.

A simple Benefit-Cost analysis can be performed to demonstrate the success and cost effectiveness of the Tribal Transportation Safety Plan.

Next Steps

With the results of the ongoing evaluation of this Tribal Transportation Safety Plan, the stakeholders will make changes or modifications to the plan as necessary. The stakeholders will keep the Plan up-to-date based on the results of its evaluation or any changes in the transportation network within the region. Regularly scheduled updates of the Plan will allow the stakeholders to review what is working well, what needs improvement, and any additional emphasis areas and/or strategies to implement. The stakeholders will establish regularly scheduled evaluations and a regular scheduled update cycle to ensure routine examination of the plan and to ensure the plan's effectiveness.





References

Oklahoma Highway Safety Office, 2013-2014 Strategic Highway Safety Plan: http://www.okladot.state.ok.us/oshsp/index.htm

FHWA, Safe Roads for a Safer Future – A Joint Safety Strategic Plan https://safety.fhwa.dot.gov/ssp/ssp.pdf

FHWA, Proven Safety Countermeasures
https://safety.fhwa.dot.gov/provencountermeasures/

FHWA, Developing Safety Plans: A Manual for Local Rural Road Owners: https://safety.fhwa.dot.gov/local_rural/training/fhwasa12017/

FHWA, Information Tools for Tribal Governments: Developing a Transportation Safety Plan: https://www.fhwa.dot.gov/planning/processes/tribal/planning/modules/safety/tribalsafetyplan.pdf

FHWA, Tribal Road Safety Audits: Case Studies: https://safety.fhwa.dot.gov/rsa/tribal rsa studies/

NHTSA, Fatality Analysis Reporting System (FARS) http://www.nhtsa.gov/FARS

Tribal Transportation Safety Management System Steering Committee, Tribal Transportation Strategic Safety Plan: http://tribalsafety.org/

Quapaw Tribe Roads Department, Transportation Plan for the Quapaw Indian Tribe of Oklahoma

Indian Reservation Roads Program, Inventory Data Sheet (ver 2), FY 2018 Inventory, 20 Oct 17



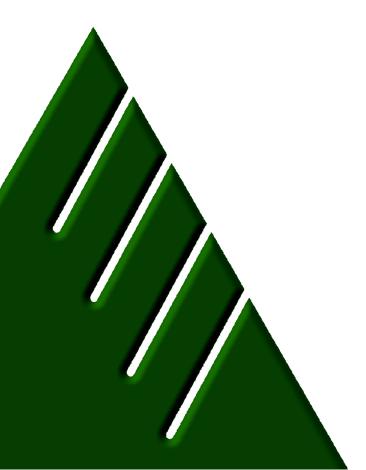




QUAPAW NATION OF OKLAHOMA

TRIBAL TRANSPORTATION SAFETY PLAN

APPENDIX A - TRIBAL SAFETY PLAN MATRIX



December 11, 2017

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	Tribal Safety Plan Matrix													
	EMPHASIS /	AREA		STRATEG	GIC LINKAGE									
1 -	Unsafe Driver Behavio	or		lan as the first	ntified in the state- of the four (4) Emp	_								
	OBJECTIV	'ES		SUCCESS	INDICATORS									
	duce the frequency iver related crashes wit	-	reduce driver be crashes, in the Qu	havior related Japaw Tribal R	ding to better driv crashes, which te egion. ous Injuries & 30% Re	end to be severe								
	Actions	Target Outputs	Organizations and Persons Responsible	Date of Completion	Performance Measures	Monitoring and Education								
Education	Public service announcements regarding the dangers of speeding, driving distracted, driving impaired and/or being unbelted in a moving vehicle	Increased awareness of the dangers involved in driving while impaired, speeding, distracted, and/or unbelted	Quapaw Services Authority / Project Manager	Dec. 2018 (review/upd ate messages annually)	Number of PSAs, Discussions at Public Meetings, and School Presentations	Informal survey of public response planned each fall at a public meeting								
Enforcement	Meet with Oklahoma Highway Patrol and Ottawa County Sheriff to request Increased enforcement efforts specifically looking for speeding, impaired driving, distracted driving, and/or unbelted occupants	More warnings and citations issued specifically relating to unsafe driver behavior reducing speeding and impaired driving, and increasing seatbelt usage.	Quapaw Services Authority / Project Manager	Dec. 2018 (reviewed annually)	Number of reported crashes listing speeding, impaired driving, distracted driving, and/or unbelted occupants.	Annual crash data obtained from Oklahoma Highway Safety Office								
Emergency Medical Services	Look for	Improve response time to incidents (especially on the interstate), thus increasing the likelihood of survival in severe crashes	Quapaw Services Authority / Project Manager	Dec. 2022	Reduction of response time to severe crashes	Annual report by EMS providing notification time, arrival time, and response to scene times for each incident								





APPENDIX A (cont.)

	EMPHASIS A	RFA		STRATEGI	C LINKAGE							
2 – II	ntersection Crashes	NEA .	Highway Safety Pla	Crashes was identified in the state-wide Strategic ty Plan as the second of the four (4) Emphasis Areas for 4, Oklahoma SHSP.								
	OBJECTIVE	S		SUCCESS II	NDICATORS							
	ice the frequency a section related cras on.	•	A decrease in inte crashes, in the Qu Overall Goal: 20%	apaw Tribal Reg	ion.							
	Actions	Target Outputs	Organizations and Persons Responsible	Date of Completion	Performance Measures	Monitoring and Education						
Engineering	Intersection improvements, including but not limited to, geometric improvements, increased and/or improved signing, improved pavement marking, and lighting	Reduction in serious injury and fatal crashes that are intersection related	Quapaw Services Authority / Project Manager	Dec. 2022	Number of serious injuries and fatalities due to intersection related crashes	Annual crash data obtained from Oklahoma Highway Safety Office						
Enforcement	Meet with Oklahoma Highway Patrol and Ottawa County Sheriff to request increased enforcement for intersection related violations	More warnings and citations issued specifically relating to intersections	Quapaw Services Authority / Project Manager	Dec. 2018 (reviewed annually)	Number of serious injuries and fatalities due to intersection related crashes	Annual crash data obtained from Oklahoma Highway Safety Office						
Emergency Medical Services	Look for opportunities to develop a new ambulance facility and purchase additional ambulances or acquire better access to the interstate	Improve response time to incidents (especially on the interstate), thus increasing the likelihood of survival in severe crashes	Quapaw Services Authority / Project Manager	Dec. 2022	Reduction of response time to severe crashes	Annual report by EMS providing notification time, arrival time, and response to scene times for each incident						





APPENDIX A (cont.)

EMPHASIS AREA	STRATEGIC LINKAGE
3 – Crashes Involving Young Drivers	Crashes Involving Young Drivers was identified in the state-wide Strategic Highway Safety Plan as the third of the four (4) Emphasis Areas for the 2013-2014, Oklahoma SHSP.
OBJECTIVES	SUCCESS INDICATORS
Reduce the frequency and severity of crashes involving young drivers within the region.	A decrease in serious injuries and fatalities involving young driver crashes in the Quapaw Tribal Region. Overall Goal: 20% Reduction Serious Injuries & 30% Reduction Fatalities

	Actions	Target Outputs	Organizations and Persons Responsible	Date of Completion	Performance Measures	Monitoring and Education
Education	Participation in the Alive at 25 program, increase driver's education, & establish a Safety City program	Reduction in serious injury and fatal crashes involving your drivers	Quapaw Services Authority / Project Manager	Dec. 2018 (reviewed annually)	Number of serious injuries and fatalities involving young drivers	Annual crash data obtained from Oklahoma Highway Safety Office
Enforcement	Meet with Oklahoma Highway Patrol and Ottawa County Sheriff to request increased enforcement of Graduated Driver License (GDL) requirements	More warnings and citations issued specifically to young drivers violating graduated license rules	Quapaw Services Authority / Project Manager	Dec. 2018 (reviewed annually)	Number of serious injuries and fatalities involving young drivers	Annual crash data obtained from Oklahoma Highway Safety Office
Emergency Medical Services	Look for opportunities to develop a new ambulance facility and purchase additional ambulances or acquire better access to the interstate	Improve response time to incidents (especially on the interstate), thus increasing the likelihood of survival in severe crashes	Quapaw Services Authority / Project Manager	Dec. 2022	Reduction of response time to severe crashes	Annual report by EMS providing notification time, arrival time, and response to scene times for each incident





APPENDIX A (cont.)

EMPHASIS AREA	STRATEGIC LINKAGE
4 – Lane Departure Crashes	Lane Departure Crashes was identified in the state-wide Strategic Highway Safety Plan as the fourth of the four (4) Emphasis Areas for the 2013-2014, Oklahoma SHSP.
OBJECTIVES	SUCCESS INDICATORS
Reduce the frequency and severity of lane departure crashes within the region.	A decrease in serious injuries and fatalities involving Lane Departure Crashes in the Quapaw Tribal Region. Overall Goal: 20% Reduction Serious Injuries & 30% Reduction Fatalities

	Actions	Target Outputs	Organizations and Persons Responsible	Date of Completion	Performance Measures	Monitoring and Education
Engineering	Work with Oklahoma DOT and Ottawa County to add centerline and edge line rumble strips, improve/enhance pavement markings, improve curve signing, remove obstacles within the clear zone	Reduction in serious injury and fatal crashes involving lane departures	Quapaw Services Authority / Project Manager	Dec. 2020	Number of serious injuries and fatalities involving lane departures	Annual crash data obtained from Oklahoma Highway Safety Office
Enforcement	Increased enforcement for all traffic violations	More warnings and citations issued	Quapaw Services Authority / Project Manager	Dec. 2022	Number of serious injuries and fatalities involving young drivers	Annual crash data obtained from Oklahoma Highway Safety Office
Emergency Medical Services	Look for opportunities to develop a new ambulance facility and purchase additional ambulances or acquire better access to the interstate	Improve response time to incidents (especially on the interstate), thus increasing the likelihood of survival in severe crashes	Quapaw Services Authority / Project Manager	Dec. 2022	Reduction of response time to severe crashes	Annual report by EMS providing notification time, arrival time, and response to scene times for each incident



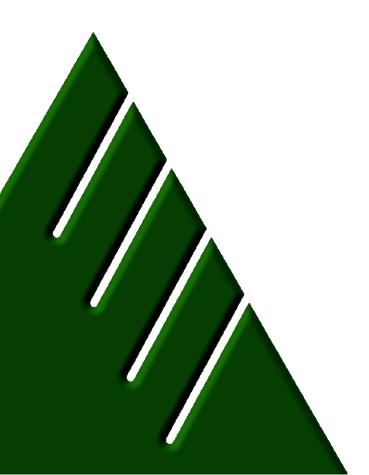




QUAPAW NATION OF OKLAHOMA

TRIBAL TRANSPORTATION SAFETY PLAN

APPENDIX B - CRASH DATA (2011-2016)



December 11, 2017

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MOTOR VEHICLE CRASH SUMMARY

Quapaw Region Ottawa County, OK

Case Fatal	Hit an	id _ ,				Total										Loca	ation V	Workers				Location Fir	st First Harmful	(Crash	Total Motor	Total Non-	Total			ODOT		
	Kun	Enforcement Agency		lumber of	Number		Crash Date	Crash Time	County	Crash In o Near City		Highway/Street Name	Nearest Intersecting Highway/Street	Workzone	Workz	e Wi	thin Pr	resent In	Lighting V	Weather	Locality	y Harmful	Event for	Day of Week	njury	Vehicle Occupants in	Motorists in	Commerical Vehicles in	Alcohol Related	Drug Related	Highway	Latitude	Longitude
2011-01 N	N	NORTH MIAMI POLICE D		Vehicles	Injured	Killed	2011-07-04	12.47	OTTAWA		NORTH MIAM	I		N	0	Worl	kzone W	/orkzone	1	1	2	Event	Entire Crash	2 Se	verity	Occupants in	Crash	o venicies in	0	0	Class	36.9215	-94.8763
2011-01 N 2011-02 N	N	NORTH MIAMI POLICE D		2	2	0	2011-07-04		OTTAWA	i	NORTH MIAM			N N	0		0	0	1	1	2	1	34	6	3	4	0	0	0	0	7	36.9215	-94.8752
2011-03 N	N	NORTH MIAMI POLICE D	EPT	2	3	0	2011-08-10		OTTAWA	ı	NORTH MIAM			N	0		0	0	1	3	6	1	34	4	3	4	0	0	0	0	7	36.9226	-94.8752
2011-04 Y	N	COMMERCE POLICE DE	PT	1	0	1	2011-03-31	06.52	OTTAWA	ı	COMMERCE			N	0		0	0	9	1	6	1	10	5	5	1	0	0	1	0	7	36.9433	-94.8651
2011-05 N	N	COMMERCE POLICE DE		2	0	0	2011-08-25		OTTAWA	l l	COMMERCE			N	0		0	0	1	1	1	1	34	5	1	1	0	0	0	0	6	36.9378	-94.8697
2011-06 N	N	COMMERCE POLICE DE		1	1	0	2011-08-11		OTTAWA	<u> </u>	COMMERCE			N	0		0	0	1	1	1	2	52	5	2	1	0	0	1	0	6	36.9388	-94.8776
2011-07 N	N	COMMERCE POLICE DE		2	0	0	2011-08-10		OTTAWA		COMMERCE			N N	0		0	0	1	4	5	1	34 34	2	2	2	0	0	0	0	,	36.9283	-94.8678
2011-08 N 2011-09 N	N	COMMERCE POLICE DE COMMERCE POLICE DE		2	1	0	2011-08-01 2011-07-29		OTTAWA		COMMERCE			N N	0		0	0	1	1	- 1	1	34	6	2	2	0	0	0	0	7	36.9342 36.9423	-94.8742 -94.8666
2011-09 N 2011-10 N	N	COMMERCE POLICE DE		1	0	0	2011-07-23		OTTAWA	i	COMMERCE			N	0		0	0	1	1	1	1	17	7	1	1	0	0	0	0	6	36.9341	-94.8775
2011-11 N	Υ	COMMERCE POLICE DE		2	0	0	2011-07-08		OTTAWA	i	COMMERCE			N	0		0	0	1	1	1	99	34	6	1	0	0	0	0	0	6	36.9307	-94.8730
2011-12 N	N	COMMERCE POLICE DE		1	1	0	2011-05-17	14.50	OTTAWA	- 1	COMMERCE			N	0		0	0	1	1	1	1	19	3	2	2	0	1	0	0	7	36.9428	-94.8660
2011-13 N	N	COMMERCE POLICE DE		2	1	0	2011-04-26	20.00	OTTAWA	1	COMMERCE			N	0		0	0	1	4	1	1	34	3	2	2	0	0	0	0	6	36.9361	-94.8753
2011-14 N	N	COMMERCE POLICE DE		1	0	0	2011-05-14		OTTAWA	ı	COMMERCE			N	0		0	0	1	1	2	2	18	7	1	1	0	0	0	0	7	36.9276	-94.8683
2011-15 N	Y	COMMERCE POLICE DE		2	0	0	2011-05-12		OTTAWA	<u> </u>	COMMERCE			N	0		0	0	1	3	1	1	34	5	1	1	0	0	0	0	6	36.9352	-94.8742
2011-16 N 2011-17 N	N N	COMMERCE POLICE DE COMMERCE POLICE DE		2	0	0	2011-05-06 2011-04-26		OTTAWA		COMMERCE			N N	0		0	0	1	1	2	1	34 34	9	1	4	0	0	0	0	7	36.9293 36.9395	-94.8675 -94.8674
2011-17 N 2011-18 N	N	COMMERCE POLICE DE		2	0	0	2011-04-20		OTTAWA	i	COMMERCE			N	0		0	0	1	1	5	1	34	4	1	2	0	0	0	0	6	36.9436	-94.8670
2011-19 N	N	COMMERCE POLICE DE		1	1	0	2011-04-20		OTTAWA	i	COMMERCE			N	0		0	0	1	1	7	2	17	4	2	1	0	0	1	0	7	36.9432	-94.8653
2011-20 N	N	COMMERCE POLICE DE		2	2	0	2011-03-13		OTTAWA	ı	COMMERCE			N	0		0	0	1	3	7	1	34	1	2	3	0	0	0	0	7	36.9283	-94.8678
2011-21 N	N	COMMERCE POLICE DE	PT	2	0	0	2011-03-01	13.15	OTTAWA	I	COMMERCE			N	0		0	0	1	1	6	1	34	3	1	2	0	0	0	0	7	36.9301	-94.8674
2011-22 N	N	COMMERCE POLICE DE		2	0	0	2011-02-08		OTTAWA	1	COMMERCE			N	0		0	0	1	5	1	1	34	3	1	2	0	0	0	0	6	36.9376	-94.8742
2011-23 N	Y	COMMERCE POLICE DE		2	0	0	2011-02-21		OTTAWA	l l	COMMERCE			N	0		0	0	1	1	6	2	34	2	1	1	0	0	0	0	6	36.9343	-94.8764
2011-24 N	Υ	COMMERCE POLICE DE		2	0	0	2011-02-03		OTTAWA	- !	COMMERCE			N	0		0	0	1	5	7	1	34 34	5	1	1	0	0	0	0	6	36.9291	-94.8586
2011-25 N 2011-26 N	N N	COMMERCE POLICE DE COMMERCE POLICE DE		1	n	n	2011-01-24 2011-01-11		OTTAWA		COMMERCE			N N	0		0	0	1	10	7	1	34 46	2	1	1	n	0	0	0	b	36.9348 36.9291	-94.8685 -94.8584
2011-26 N 2011-27 N	N	COMMERCE POLICE DE		2	0	0	2011-01-11		OTTAWA	1	COMMERCE			N N	0		0	0	1	1	2	1	34	2	1	2	0	0	0	0	7	36.9291	-94.8584
2011-27 N 2011-28 N	N	COMMERCE POLICE DE		2	0	0	2011-10-24		OTTAWA	i	COMMERCE			N	0		0	0	1	1	1	1	34	3	1	2	0	0	0	0	6	36.9436	-94.8669
2011-29 N	N	COMMERCE POLICE DE	PT	2	0	0	2011-09-30	07.00	OTTAWA	ı	COMMERCE			N	0		0	0	1	1	1	1	34	6	1	2	0	0	0	0	6	36.9300	-94.8651
2011-30 N	N	COMMERCE POLICE DE		2	0	0	2011-10-04		OTTAWA	I	COMMERCE			N	0		0	0	1	1	1	1	34	3	1	1	0	0	0	0	6	36.9338	-94.8708
2011-31 N	Υ	COMMERCE POLICE DE	PT	1	0	0	2011-09-24	00.10	OTTAWA	l l	COMMERCE			N	0		0	0	2	1	5	2	17	7	1	1	0	0	0	0	6	36.9293	-94.8578
2011-32 N	N	NORTH MIAMI POLICE D		2	0	0	2011-12-01		OTTAWA	ı	NORTH MIAM			N	0		0	0	1	1	2	1	34	5	1	2	0	0	0	0	7	36.9226	-94.8752
2011-33 N	N	NORTH MIAMI POLICE D		2	1	0	2011-12-07		OTTAWA	!	NORTH MIAM	l		N	0		0	0	1	1	2	1	34	4	3	2	0	0	0	0	7	36.9226	-94.8752
2011-34 N	N N	COMMERCE POLICE DE COMMERCE POLICE DE		2	0	0	2011-12-31		OTTAWA		COMMERCE			N N	0		0	0	1	4	1	1	35 34	7	1	2	0	0	0	0	5	36.9340	-94.8775 -94.8674
2011-35 N 2011-36 N	N	COMMERCE POLICE DE		1	0	0	2011-11-08		OTTAWA	<u>'</u>	COMMERCE			N	0		0	0	3	1	1	1	46	7	1	1	0	1	0	0	6	36.9322 36.9333	-94.8653
2011-37 N	N	NORTH MIAMI POLICE D		2	0	0	2011-06-23		OTTAWA	i	NORTH MIAM	MAIN STREET		N	0		0	0	1	1	2	1	34	5	1	4	0	0	0	0	7	36.9226	-94.8752
2011-38 N	N	OKLAHOMA HIGHWAY PA		1	1	0	2011-01-15		OTTAWA	N	QUAPAW	COUNTY ROAD 630	COUNTY ROAD 50	N	0		0	0	2	1	5	4	59	7	3	1	0	0	0	0	5	36.9422	-94.7522
2011-39 N	N	OKLAHOMA HIGHWAY PA	TROL	2	1	0	2011-01-13	23.06	OTTAWA	N	QUAPAW	US HIGHWAY 69 A	COUNTY ROAD SOUTH 600	N	0		0	0	2	1	5	2	34	5	2	5	0	0	0	0	1	36.9436	-94.7946
2011-40 N	N	OKLAHOMA HIGHWAY PA	TROL	2	0	0	2011-02-03	13.02	OTTAWA	N	QUAPAW	INTERSTATE 44	TPU 324.90	N	0		0	0	1	1	5	1	34	5	1	2	0	1	0	0	3	36.9481	-94.6786
2011-41 N	N	OKLAHOMA HIGHWAY PA		2	2	0	2011-02-28		OTTAWA	N	QUAPAW	UNITED STATES HIGHWAY 69A	COUNTY ROAD EAST 10	N	0		0	0	2	4	5	1	30	2	3	1	0	1	0	0	1	36.9957	-94.7407
2011-42 N	N	OKLAHOMA HIGHWAY PA		1	1	0	2011-03-03		OTTAWA	N	QUAPAW	COUNTY ROAD SOUTH 665	COUNTY ROAD EAST 22	N	0		0	0	1	1	5	4	59	5	2	1	0	0	0	0	5	36.9857	-94.6886
2011-43 N 2011-44 N	N N	OKLAHOMA HIGHWAY PA		1	0	0	2011-03-21		OTTAWA	N N	QUAPAW	COUNTY ROAD 137	COUNTY ROAD E93	N N	0		0	0	1	4	1	1	10 47	6	1	1	0	0	0	0	5	36.8769	-94.7823 -94.7584
2011-44 N 2011-45 N	N	OKLAHOMA HIGHWAY PA		1	1	0	2011-04-15 2011-05-01		OTTAWA	N N	QUAPAW	COUNTY ROAD S630 COUNTY ROAD S.600	COUNTY ROAD E30 US HWY 69 A	N	0		0	0	2	3	5	4	57	1	3	3	0	0	1	0	1	36.9727 36.9436	-94.7946
2011-46 N	N	OKLAHOMA HIGHWAY PA		2	2	0	2011-04-29		OTTAWA	N	COMMERCE	COUNTY ROAD SOUTH 550	COUNTY ROAD EAST 30	N	0		0	0	1	1	5	1	34	6	2	2	0	0	0	0	5	36.9725	-94.8849
2011-47 N	N	OKLAHOMA HIGHWAY PA	TROL	1	1	0	2011-05-21		OTTAWA	N	QUAPAW	COUNTY ROAD SOUTH 590	COUNTY ROAD EAST 66	N	0		0	0	2	1	5	4	57	7	2	3	0	0	1	0	5	36.9176	-94.7644
2011-48 N	N	OKLAHOMA HIGHWAY PA	TROL	2	2	0	2011-05-16	12.18	OTTAWA	N	QUAPAW	COUNTY ROAD SOUTH 630	U.S. HIGHWAY	N	0		0	0	1	1	5	1	34	2	2	3	0	0	0	0	5	36.9894	-94.7406
2011-49 N	N	OKLAHOMA HIGHWAY PA	TROL	1	1	0	2011-06-23		OTTAWA	N	PICHER	US HIGHWAY 69	COUNTY ROAD EAST 40	N	0		0	0	1	1	5	4	57	5	2	1	0	0	0	0	1	36.9550	-94.8307
2011-50 N	N	OKLAHOMA HIGHWAY PA		3	2	0	2011-07-25		OTTAWA	N	COMMERCE	STATE HIGHWAY 69A	COUNTY ROAD 66	N	0		0	0	1	1	5	1	34	2	3	3	0	0	0	0	4	36.9149	-94.8419
2011-51 N	N	OKLAHOMA HIGHWAY PA		2	0	0	2011-08-12		OTTAWA	N	QUAPAW	UNITED STATES HIGHWAY 69A	CRS 592	N	0		0	0	1	3	5	1	34	6	1	2	0	0	0	0	1	36.9436	-94.8162
2011-52 N	N	OKLAHOMA HIGHWAY PA		2	0	0	2011-08-09		OTTAWA	N	COMMERCE	US HIGHWAY 69A	COUNTY ROAD EAST 60	N	0		0	0	1	1	5	1	34	3	1	2	0	0	0	0	4	36.9286	-94.8419
2011-53 N 2011-54 N	N	OKLAHOMA HIGHWAY PA OKLAHOMA HIGHWAY PA		2	2	0	2011-08-23 2011-08-29		OTTAWA	N N	QUAPAW	COUNTY ROAD 620 US HIGHWAY 69 A	COUNTY ROAD 50 COUNTY ROAD 590	N N	0		0	0	1	1	5	1	59 34	2	3	2	n	0	0	0	1	36.9436 36.9436	-94.7697 -94.8144
2011-54 N 2011-55 N	N	OKLAHOMA HIGHWAY PA		2	0	0	2011-08-29		OTTAWA	N	QUAPAW	COUNTY ROAD SOUTH 700	COUNTY ROAD EAST 40	N	0		0	0	1	1	5	1	34	2	1	4	0	0	1	0	5	36.9611	-94.6180
2011-56 N	N	OKLAHOMA HIGHWAY PA		1	0	0	2011-09-09		OTTAWA	N	QUAPAW	COUNTY ROAD SOUTH 620	COUNTY ROAD EAST 56	N	0		0	0	1	1	5	4	59	6	1	1	0	0	0	0	5	36.9292	-94.7539
2011-57 N	N	OKLAHOMA HIGHWAY PA	TROL	2	0	0	2011-10-02		OTTAWA	N	QUAPAW	COUNTY ROAD 20	COUNTY ROAD 620	N	0		0	0	1	1	5	1	34	1	1	3	0	0	0	0	5	36.9871	-94.7583
2011-58 N	N	OKLAHOMA HIGHWAY PA		2	3	0	2011-10-14		OTTAWA	N	QUAPAW	COUNTY ROAD S620	COUNTY ROAD E40	N	0		0	0	1	1	5	4	34	6	3	3	0	0	0	0	5	36.9654	-94.7766
2011-59 N	_			1	1	0	2011-11-13		OTTAWA	N	QUAPAW	UNITED STATES HIGHWAY 69A	COUNTY ROAD E20	N	0		0	0	4	3	5	4	10	1	2	1 2	0	0	0	0	1	36.9882	-94.7431
2011-60 N	N	OKLAHOMA HIGHWAY PA		2	1	0	2011-11-17		OTTAWA	N N		UNITED STATES HIGHWAY 69 A	COUNTY ROAD SOUTH 502	N N	0		0	0	1	3	5	1	34 36	5	4	2	0	1	0	0	1	36.9440	
2011-61 N 2012-01 N	N N	OKLAHOMA HIGHWAY PA NORTH MIAMI POLICE D		2	2	0	2011-12-06 2012-01-24		OTTAWA	IN I	QUAPAW NORTH MIAM	US HIGHWAY 69A	COUNTY ROAD SOUTH 592	N N	0		0	0	1	1	5	1	36	3	2	2	0	0	0	0	7	36.9436 36.9201	-94.8090 -94.8772
2012-01 N 2012-02 N	N	COMMERCE POLICE DE		2	0	0	2012-01-24		OTTAWA		COMMERCE	•		N N	n		0	0	1	1	5	1	34	6	1	4	0	0	0	0	7	36.9436	-94.8772
2012-02 N 2012-03 N	N	COMMERCE POLICE DE		2	0	0	2012-02-10		OTTAWA	i	COMMERCE			N	0		0	0	1	1	1	1	34	5	1	2	0	0	0	0	6	36.9338	-94.8742
2012-04 N	N	COMMERCE POLICE DE		1	0	0	2012-01-28		OTTAWA	I	COMMERCE			N	0		0	0	2	1	7	1	57	7	1	1	0	0	0	0	7	36.9436	
2012-05 N	N	MIAMI POLICE DEPT		2	0	0	2012-03-01		OTTAWA	1	NORTH MIAM	I		N	0		0	0	1	1	6	1	34	5	1	2	0	0	0	0	7	36.9227	-94.8750
2012-06 N	N	COMMERCE POLICE DE		2	0	0	2012-01-30	13.25	OTTAWA	ī	COMMERCE	400 BLOCK N RIVER		N	0		0	0	1	1	1	1	34	2	1	3	0	0	0	0	6	36.9369	
2012-07 N	N	COMMERCE POLICE DE		2	0	0	2012-04-30		OTTAWA	- 1	COMMERCE	1000 BLOCK OF D STREET		N	0		0	0	1	1	1	1	34	2	1	1	0	0	0	0	6	36.9291	-94.8652
2012-08 N	N	COMMERCE POLICE DE		2	0	0	2012-07-18		OTTAWA	1	COMMERCE	408 NORTH VINE		N	0		0	0	2	1	1	2	34	4	1	1	0	0	0	0	6	36.9382	-94.8764
2012-09 N	N	COMMERCE POLICE DE		1	1	0	2012-07-06		OTTAWA	- 1	COMMERCE	HIGHWAY 69		N N	0		0	0	1	1	1	1 7	21 34	6 4	1	1	1	0	0	0	7	36.9328 36.8881	
2012-10 N 2012-11 N	N	COMMERCE POLICE DE COMMERCE POLICE DE		2	0	n	2012-06-27 2012-05-10		OTTAWA		COMMERCE	1120 E B STREET HWY 69		N N	0		0	0	1	1	5	1	34	5	1	4	0	0	0	0	7	36.8881	-94.8750 -94.8408
2012-11 N 2012-12 N	N	COMMERCE POLICE DE		2	0	0	2012-03-10		OTTAWA	i	COMMERCE	MICKEY MANTLE BLVD		N	0		0	0	1	1	2	1	34	7	1	4	0	1	0	0	7	36.9284	-94.8678
2012-13 N	N	COMMERCE POLICE DE		2	0	0	2012-11-07		OTTAWA	1	COMMERCE	HWY 69A (ALSO S. 580 RD)		N	0		0	0	1	1	7	1	34	4	1	1	0	0	0	0	4	36.9436	-94.8419
2012-14 N	N	COMMERCE POLICE DE		2	0	0	2012-10-02		OTTAWA	I	COMMERCE	MICKY MANTLE BLVD		N	0		0	0	1	1	1	1	34	3	1	4	0	0	0	0	7	36.9284	-94.8678
2012-15 N	N	COMMERCE POLICE DE		2	0	0	2012-09-26	21.00	OTTAWA	ī	COMMERCE	MICKY MANTLE BLVD		N	0		0	0	3	1	2	1	34	4	1	2	0	0	0	0	7	36.9328	-94.8674
2012-16 N		COMMERCE POLICE DE		2	0	0	2012-08-06		OTTAWA	- 1	COMMERCE	MICKY MANTLE BLVD		N	0		0	0	1	1	2	1	19	2	1	2	0	0	0	0	7	36.9267	-94.8690
2012-17 N	N	COMMERCE POLICE DE		2	0	0	2012-08-04		OTTAWA	<u>l</u>	COMMERCE	N. QUINCY		N	0		0	0	1	1	1	99	34	7	1	7	0	0	0	0	6	36.9366	-94.8753
2012-18 N	N	COMMERCE POLICE DE		2	0	0	2012-08-12		OTTAWA	<u> </u>	COMMERCE	NORTH VINE		N	0		0	0	3	1	1	2	17	1	1	1 2	0	0	0	0	6	36.9358	-94.8764
2012-19 N 2012-20 N	N N			1	1	0	2012-01-09		OTTAWA	l N	QUAPAW	US HWY 69 A COUNTY ROAD 620	COUNTY ROAD 80	N N	0		0	0	1	1	5	1	34 17	2	2	1	0	1	0	0	1	36.9436 36.9074	-94.8408 -94.7697
	N	OKLAHOMA HIGHWAY PA		1	1	0	2012-01-23		OTTAWA	N	QUAPAW	COUNTY ROAD 620	COUNTY ROAD SOUTH 630	N N	0		0	0	5	1	5	4	59	5	4	1	0	0	1	0	5	36.9583	
2012-21 N	114	OKLAHOWA HIGHWAY PA		1	1	0	2012-01-19		OTTAWA	N	QUAPAW	COUNTY ROAD E 40	COUNTY ROAD S 630	N	0		0	0	2	1	5	4	59	4	4	1	0	0	1	0	5	36.9582	





2012-23 N		OKLAHOMA HIGHWAY PATROL 2 0 0		OTTAWA	N QUAPAW COUNTY ROAD E60	COUNTY ROAD S640	N	0	0 0	1	1 5	1	34	7 1	2	0	0	0	0 5		-94.7433
2012-24 N		OKLAHOMA HIGHWAY PATROL 1 0 0	0 2012-02-22 02.05	OTTAWA	N QUAPAW STATE HIGHWAY 69 A	COUNTY ROAD 610	N	0	0 0	2	1 5	1	33	4 1	1	0	0	1	0 1	1 36.9641	-94.7769
2012-25 N		OKLAHOMA HIGHWAY PATROL 1 0 0	2012-03-08 19.23	OTTAWA	N COMMERCE COUNTY ROAD 40	COUNTY ROAD 530	N	0	0 0	2	3 5	1	33	5 1	4	0	0	0	0 5	5 36.9579	-94.9301
2012-26 N		OKLAHOMA HIGHWAY PATROL 1 3 0		OTTAWA	N QUAPAW COUNTY ROAD E60	COUNTY ROAD S650	N	0	0 0	1	1 5	4	10	5 3	3	0	0	0	0 5		-94.7217
2012-27 N		OKLAHOMA HIGHWAY PATROL 1 1 0	2012-03-03 18.27	OTTAWA	N QUAPAW COUNTY ROAD E 30	COUNTY ROAD S575	N	0	0 0	5	3 5	4	10	7 3	2	0	0	0	0 5	5 36.9725	-94.8309
2012-28 N	Y	OKLAHOMA HIGHWAY PATROL 2 1 0	2012-03-16 23.32	OTTAWA	N QUAPAW US HIGHWAY 69	COUNTY ROAD 620	N	0	0 0	2	1 5	1	34	6 2	3	0	0	0	0 1	1 36.9705	-94.7613
2012-29 N		OKLAHOMA HIGHWAY PATROL 2 3 0	2012-04-08 20.40	OTTAWA	N COMMERCE STATE HIGHWAY 69 A	COUNTY ROAD 60	N	0	0 0	2	1 5	1	34	1 3	3	0	0	1	0 4	4 36.9247	-94.8419
2012-30 N	N	OKLAHOMA HIGHWAY PATROL 2 1 0	2012-04-25 18.47	OTTAWA	N QUAPAW US HIIGHWAY 69 A	COUNTY ROAD SOUTH 600	N	0	0 0	1	1 5	1	34	4 2	5	0	0	0	0 1	1 36.9436	-94.8072
2012-31 N	N	OKLAHOMA HIGHWAY PATROL 1 1 0	2012-04-27 17.36	OTTAWA	I PICHER US HIGHWAY 69	6 TH STREET	N	0	0 0	1	1 5	1	71	6 3	2	0	0	0	0 7	7 36.9788	-94.8309
2012-32 N	N	OKLAHOMA HIGHWAY PATROL 1 1 0	2012-05-27 14.45	OTTAWA	N QUAPAW US HIGHWAY 69	COUNTY ROAD EAST 40	N	0	0 0	1	1 5	4	48	1 2	1	0	0	0	0 1	1 36.9579	-94.8308
2012-33 N	N	OKLAHOMA HIGHWAY PATROL 1 0 0	2012-06-07 21.37	OTTAWA	N COMMERCE COUNTY ROAD 30	COUNTY ROAD 530	N	0	0 0	2	3 5	1	33	5 1	2	0	0	0	0 5	5 36.9724	-94.9228
2012-34 N	N	OKLAHOMA HIGHWAY PATROL 2 1 0	2012-06-13 17.20	OTTAWA	N QUAPAW COUNTY ROAD 137	COUNTY ROAD 66	N	0	0 0	1	1 5	1	34	4 3	3	0	0	0	0 5	5 36.9233	-94.7824
2012-35 N	N	OKLAHOMA HIGHWAY PATROL 1 0 0	2012-06-25 08.31	OTTAWA	N QUAPAW UNITED STATES HIGHWAY 69A	COUNTY ROAD (S 600 RD)	N	0	0 0	1	1 5	4	59	2 1	1	0	0	0	0 1	1 36.9436	-94.8047
2012-36 N	N	OKLAHOMA HIGHWAY PATROL 1 1 0	2012-06-21 11.18	OTTAWA	N QUAPAW INTERSTATE 44	TPU 324.9	Y	1	3 N	1	3 5	4	41	5 2	1	0	0	0	0 3	3 36.9508	-94.6752
2012-37 N	N	OKLAHOMA HIGHWAY PATROL 2 0 0	2012-07-07 03.27	OTTAWA	N QUAPAW COUNTY ROAD (137)	COUNTY ROAD (66)	N	0	0 0	2	1 5	4	35	7 1	1	0	0	0	0 5	5 36.9103	-94.7824
2012-38 N		OKLAHOMA HIGHWAY PATROL 1 0 0	2012-08-04 00.37	OTTAWA	N QUAPAW U.S. HIGHWAY 69 A	COUNTY ROAD (S. 614)	N	0	0 0	2	1 5	1	10	7 1	2	0	0	0	0	1 36.9667	-94.7706
2012-39 N		OKLAHOMA HIGHWAY PATROL 1 1 0	2012-08-07 22.05	OTTAWA	N QUAPAW COUNTY ROAD SOUTH 630	COUNTY ROAD EAST 72	N	0	0 0	2	1 5	1	33	3 3	1	0	0	0	0 5		-94.7522
2012-40 N		OKLAHOMA HIGHWAY PATROL 2 1 0	0 2012-08-14 07.11	OTTAWA	N QUAPAW COUNTY ROAD (E. 66)	SH137	N	0	0 0	1	3 5	1	34	3 3	2	0	0	0	0 '	5 36.9218	-94.7843
2012-41 N		OKLAHOMA HIGHWAY PATROL 2 1 0	2012-09-01 14.09	OTTAWA	N COMMERCE COUNTY ROAD (E. 64)	STATE HIGHWAY 69A	N	0	0 0	1	3 5	4	48	7 2	6	0	0	0	0 4		-94.8419
2012-42 N		OKLAHOMA HIGHWAY PATROL 3 1 0		OTTAWA	N QUAPAW UNITED STATES HIGHWAY 694	COUNTY ROAD (S600)	N	0	0 0	2	1 5	1	34	Δ 2	6	0	1	0	0 1	1 36.9436	-94.8090
2012-43 N		OKLAHOMA HIGHWAY PATROL 2 0 0	2012-09-10 17.36	OTTAWA	N QUAPAW COUNTY ROAD (E 60)		N	0	0 0	1	1 5	1	14	2 1		0	1	0	0 5	5 36.9292	-94.6947
				OTTAWA		COUNTY ROAD (\$ 652)	N	0	-	1	2 5	1	34	4 3	2	0	1	0	0 :	1 36.9986	-94.6947
2012-44 N	IN N	OKLAHOMA HIGHWAY PATROL 2 1 0	2012-09-26 14.37			COUNTY ROAD (E 10)		0		1	3 5	1	57	3		0	0	1	0		
2012-45 Y	IN	OKLAHOMA HIGHWAY PATROL 1 1 1	2012-09-03 19.55	OTTAWA	N QUAPAW COUNTY ROAD (\$ 700)	COUNTY ROAD (E 40)	N	0	0 0	5	1 5	4	3,	2 5	5	U	U	1	0	5 36.9677	-94.6192
2012-46 Y	Υ	OKLAHOMA HIGHWAY PATROL 1 0 1	2012-09-27 05.36	OTTAWA	N QUAPAW U.S. HIGHWAY 69A	COUNTY ROAD (S. 610)	N	0	0 0	2	4 5	1	30	5 5	5	U	U	0	0	1 36.9619	-94.7822
2012-47 N		OKLAHOMA HIGHWAY PATROL 2 0 0	2012 10 00 10.00	OTTAWA	N QUAPAW UNITED STATES HIGHWAY 69A	COUNTY ROAD (\$ 600 RD)	N	U	0 0	1	1 5	1	34	2 1	2	0	U	0	0 1	1 36.9436	-94.7946
2012-48 N		OKLAHOMA HIGHWAY PATROL 1 0 0	2012-10-08 18.39	OTTAWA	N QUAPAW US HWY 69 A	COUNTY ROAD (S 590)	N	U	0 0	1	1 5	1	68	∠ 1 4 2	1	0	1	U	0 1	1 36.9436	-94.8090
2012-49 N		OKLAHOMA HIGHWAY PATROL 1 1 0	2012-10-10 01.20	OTTAWA	N QUAPAW US HIGHWAY 69A	COUNTY ROAD SOUTH 614	N	U	0 0	2	3 5	1	33	4 2	1	0	U	0	U 1	1 36.9679	-94.7677
2012-50 N		OKLAHOMA HIGHWAY PATROL 1 1 0	2012-10-28 12.09	OTTAWA	N QUAPAW UNITED STATES HIGHWAY 69/	COUNTY ROAD (\$600 RD)	N	U	0 0	1	1 5	4	59	1 3	1	0	0	0	0 1	1 36.9436	-94.8000
2012-51 N		OKLAHOMA HIGHWAY PATROL 1 0 0	2012-11-01 12.02	OTTAWA	N QUAPAW COUNTY ROAD (E 60)	COUNTY ROAD (S 642)	N	U	0 0	1	1 5	4	50	5 1	1	0	1	0	0 5	5 36.9293	-94.7397
2012-52 N		OKLAHOMA HIGHWAY PATROL 1 0 0	2012-11-13 09.05	OTTAWA	N QUAPAW COUNTY ROAD (E. 66)	COUNTY ROAD (S. 600)	N	0	0 0	1	1 5	4	10	3 1	1	0	0	0	0 5	5 36.9175	-94.8006
2012-53 N		OKLAHOMA HIGHWAY PATROL 2 2 0	2012-11-12 16.15	OTTAWA	N QUAPAW US 69A	COUNTY ROAD (S 620)	N	0	0 0	1	1 5	1	34	2 3	2	0	0	0	0 1	1 36.9705	-94.7613
2012-54 N		OKLAHOMA HIGHWAY PATROL 1 0 0	0 2012-11-11 09.31	OTTAWA	I NORTH MIAM US HWY 69	DELMAR ST.	N	0	0 0	1	4 2	4	59	1 1	1	0	0	0	0 7	, 50.51.5	-94.8775
2012-55 N	N	OKLAHOMA HIGHWAY PATROL 2 1 0	2012-08-21 09.26	OTTAWA	N QUAPAW U.S. HIGHWAY 69	U.S HIGHWAY 69 A	N	0	0 0	1	1 5	1	34	3 4	2	0	1	1	0 1	1 36.9435	-94.8306
2012-56 N	N	OKLAHOMA HIGHWAY PATROL 2 0 0	2012-12-19 16.03	OTTAWA	I PICHER US HIGHWAY 69	1ST STREET	N	0	0 0	1	3 2	1	34	4 1	2	0	0	0	0 7	7 36.9853	-94.8310
2012-57 N	N	OKLAHOMA HIGHWAY PATROL 1 0 0	2012-12-24 17.05	OTTAWA	N COMMERCE COUNTY ROAD (E. 60)	COUNTY ROAD (S. 550)	N	0	0 0	5	3 5	4	57	2 1	1	0	0	0	0 5	5 36.9290	-94.8775
2013-01 N	N	COMMERCE POLICE DEPT 2 0 0	2013-04-16 15.00	OTTAWA	I COMMERCE MICKEY MANTLE BLVD		N	0	0 0	1	1 2	1	34	3 1	2	0	0	0	0 7	7 36.9284	-94.8678
2013-02 N	N	COMMERCE POLICE DEPT 2 1 0	2013-04-12 14.54	OTTAWA	I COMMERCE HWY 69		N	0	0 0	1	1 5	1	34	6 2	3	0	0	0	0	7 36.9436	-94.8639
2013-03 N	N	COMMERCE POLICE DEPT 2 0 0	2013-04-08 12.00	OTTAWA	I COMMERCE S 580 RD & HWY 69		N	0	0 0	1	1 7	1	34	2 1	2	0	0	0	0 1	1 36.9436	-94.8408
2013-04 N	Y	COMMERCE POLICE DEPT 2 0 0	2013-02-26 20.01	OTTAWA	I COMMERCE 2ND ST		N	0	0 0	3	1 2	1	34	3 1	2	0	0	0	0 7	7 36.9346	-94.8674
2013-05 N	N	COMMERCE POLICE DEPT 2 0 0	2013-02-07 12.47	OTTAWA	I COMMERCE D ST		N	0	0 0	1	4 1	1	34	5 1	2	0	0	0	0 6	6 36.9291	-94.8651
2013-06 N		COMMERCE POLICE DEPT 2 0 0	2013-01-17 07.55	OTTAWA	I COMMERCE N RIVER		N	0	0 0	1	1 2	1	34	5 1	2	0	0	0	0 6	6 36.9333	-94.8742
2013-07 N		COMMERCE POLICE DEPT 2 0 0	2013-01-18 08.08	OTTAWA	I COMMERCE N MAPLE		N	0	0 0	1	1 1	1	34	6 1	2	0	0	0	0 6	6 36.9333	-94.8719
2013-08 N		COMMERCE POLICE DEPT 2 0 0	2013-01-31 06.52	OTTAWA	I COMMERCE S MICKEY MANTLE		N	0	0 0	1	1 2	1	34	5 1	2	0	0	0	0	7 36.9284	-94.8678
2013-09 N		COMMERCE POLICE DEPT 2 0 0	2013-01-31 12.47	OTTAWA	I COMMERCE 5TH ST		N	0	0 0	1	1 1	1	34	5 1	2	0	0	0	0 6	6 36.9388	-94.8721
2013-10 N		COMMERCE POLICE DEPT 1 0 0	2013-03-09 12.51	OTTAWA	I COMMERCE US HWY 69		N	0	0 0	1	3 1	4	17	7 1	1	0	0	0	0	7 36.9258	-94.8704
2013-11 N		COMMERCE POLICE DEPT 2 2 0		OTTAWA	I COMMERCE MICKEY MANTLE BLVD		N	0	0 0	3	1 6	1	34	4 4	2	0	1	1	0		-94.8681
2013-12 N		COMMERCE POLICE DEPT 1 1 0	2013-05-18 14.20	OTTAWA	I COMMERCE 124 N VINE STREET		N	0	0 0	1	1 4	1	31	7 2	1	2	0	0	0 6		-94.8763
2013-13 N		COMMERCE POLICE DEPT 2 0 0	2013-06-04 13.15	OTTAWA	I COMMERCE 403 N MAIN ST		N	0	0 0	1	1 1	1	34	3 1	1	0	0	0	0 6		-94.8775
2013-14 N		COMMERCE POLICE DEPT 1 0 0	2013-04-27 05.30	OTTAWA	I COMMERCE SH 69		N	0	0 0	3	4 1	1	47	7 1	1	0	0	0	0	7 36.9395	-94.8674
2013-15 N		COMMERCE POLICE DEPT 1 0 0		OTTAWA	I COMMERCE UNKN		N	0	0 0	2	4 6	1	10	3 1	1	0	0	0	0 1	1 36.9435	-94.8306
2013-16 N		COMMERCE POLICE DEPT 2 0 0	2013-11-13 07.50	OTTAWA	I COMMERCE MICKEY		N	0	0 0	1	1 6	1	34	4 1	2	0	0	0	0 -	7 36.9282	-94.8679
2013-10 N		COMMERCE POLICE DEPT 2 0 0	2013-11-13 07.30	OTTAWA	I COMMERCE MICKEY MANTLE BLVD		N	0	0 0	2	1 2	1	34	1 1	2	0	0	0	0	7 36.9291	-94.8676
2013-18 N		COMMERCE POLICE DEPT 3 0 0	2013-12-15 22.00	OTTAWA	I COMMERCE NORTH QUINCY		N N	0	0 0	2	1 1	7	00	1 1	1	0	0	0	0 4	6 36.9380	-94.8753
2013-18 N		OKLAHOMA HIGHWAY PATROL 1 1 0	2013-12-15 22.00	OTTAWA	N QUAPAW COUNTY ROAD (E. 20)	COUNTY ROAD (S.620)	N	0	0 0	5	1 5	/	59	4 2	1	0	0	0	0 1	5 36.9871	-94.8753 -94.7601
				OTTAWA	I QUAPAW COUNTY ROAD (E. 20) I QUAPAW COUNTY ROAD (S 610)	8TH STREET	N	0	0 0	1	1 2	4	48	2 2	1	0	0	0	0 3	6 36.9741	-94.7601
2013-20 N		OKLAHOMA HIGHWAY PATROL 1 0 0 OKLAHOMA HIGHWAY PATROL 1 0 0		OTTAWA	I VORTH MIAM US HIGHWAY 69		N	0	0 0	2	1 2	4	40	3 1	2	0	0	0	1 2		-94.7764
2013-21 N 2013-22 N		OKLAHOMA HIGHWAY PATROL 1 0 0 OKLAHOMA HIGHWAY PATROL 2 8 0		OTTAWA	N QUAPAW COUNTY ROAD (E. 50)	1ST AVENUE	N N	0	0 0	3	1 2	4	24	5 <u>1</u>	۷ 0	0	0	1	1 6	5 36.9214 5 36.9439	-94.8769 -94.6603
2013-22 N		OKLAHOMA HIGHWAY PATROL 2 8 0 OKLAHOMA HIGHWAY PATROL 2 1 0	2013-02-08 22.21 2013-03-06 15.06	OTTAWA	N QUAPAW UNITED STATES HIGHWAY 69 A	COUNTY ROAD (S. 680) COUNTY ROAD S 600	N	0	0 0	1	2 5	1	24	4 2	4	0	0	1	0	1 36.9694	-94.8309
				OTTAWA	N COMMERCE COUNTY ROAD (E.30)		N	0		2	1 5	1	59	4 4	1	0	0	0	0 7		
2013-24 N		OKLAHOMA HIGHWAY PATROL 1 1 0) 2013-03-20 01.17) 2013-03-22 07.00		1, 1	COUNTY ROAD (S. 490)	IN N	0	0 0	2	1 D	4	29	6 1	1	0	0	0	0 5	5 36.9722 5 36.9725	-94.9696 -94.8561
2013-25 N		OKLAHOMA HIGHWAY PATROL 1 0 0		OTTAWA		COUNTY ROAD (S. 565)	N N	0		4	3 5	4	48	6 1	1	0	0	0	0		
2013-26 N		OKLAHOMA HIGHWAY PATROL 2 0 0		OTTAWA	N QUAPAW STATE HWY 137	COUNTY ROAD (E 66)	IN .	0	0 0	1	1 5	1	54	6 1	4	0	1	1	0	5 36.9233	-94.7806
2013-27 N		OKLAHOMA HICHWAY PATROL 1 1 0	2013-05-02 03.09	OTTAWA	N QUAPAW UNITED STATES HIGHWAY 69	COUNTY ROAD (E30 RD)	N N	0	0 0	2	3 5	4	04	2 2	1	0	0	1	0	7 36.9729	-94.8309
2013-28 N		OKLAHOMA HIGHWAY PATROL 2 2 0	2013-05-14 23.09	OTTAWA	N COMMERCE U.S. HIGHWAY 69	COUNTY ROAD (E. 65)	N	0	0 0	1	1 5	1	34	3 2	3	0	U	0	0 7		-94.8742
2013-29 N		OKLAHOMA HIGHWAY PATROL 2 1 0	2013-05-24 19.03	OTTAWA	N QUAPAW UNITED STATES HIGHWAY 69/		N	0	0 0	1	1 5	1	34	6 4		0	0	0	0 1	1 36.9741	-94.7557
2013-30 N		OKLAHOMA HIGHWAY PATROL 1 0 0	2013-05-29 22.22	OTTAWA	N QUAPAW COUNTY ROAD (137 RD)	COUNTY ROAD (E 90 RD)	N	U	0 0	2	3 5	4	51	4 1	1	0	0	1	0 5	5 36.8870	-94.7786
2013-31 N		OKLAHOMA HIGHWAY PATROL 2 3 0		OTTAWA	N QUAPAW U.S HIGHWAY 69A	COUNTY ROAD (E. 16)	N	0	0 0	1	1 5	2	34	1 2	3	0	0	0	0 1		-94.7407
2013-32 Y		OKLAHOMA HIGHWAY PATROL 1 1 1	2013-06-08 01.03	OTTAWA	N QUAPAW COUNTY ROAD (\$700 RD)	COUNTY ROAD (E40 RD)	N	0	0 0	2	3 5	4	10	7 5	2	0	0	1	0 5		-94.6192
2013-33 N		OKLAHOMA HIGHWAY PATROL 1 0 0	2013-06-22 00.05	OTTAWA	N QUAPAW COUNTY ROAD (\$ 137)	COUNTY ROAD (E66)	N	0	0 0	2	1 5	1	33	7 1	1	0	0	0	0 5	5 36.9016	-94.7879
2013-34 N		OKLAHOMA HIGHWAY PATROL 1 3 0	2013-07-03 17.23	OTTAWA	N QUAPAW COUNTY ROAD (S. 630)	COUNTY ROAD (E 30)	N	0	0 0	1	1 5	4	46	4 4	3	0	0	1	0 5		-94.7404
2013-35 N		OKLAHOMA HIGHWAY PATROL 2 2 0	2013-07-18 23.53	OTTAWA	N QUAPAW U. S. 69A	COUNTY ROAD (E. 30)	N	0	0 0	2	1 5	1	34	5 3	2	0	1	0	0 1	1 36.9733	-94.7565
2013-36 N		OKLAHOMA HIGHWAY PATROL 1 0 0	2013-07-20 20.32	OTTAWA	N QUAPAW WILL ROGERS TURNPIKE (1-44		N	0	0 0	1	4 5	4	46	7 1	3	0	0	0	0 3	3 36.9744	-94.6449
2013-37 N		OKLAHOMA HIGHWAY PATROL 2 0 0		OTTAWA	N QUAPAW COUNTY ROAD (S 630 RD)	COUNTY ROAD (E 40 RD)	N	0	0 0	1	1 5	1	34	7 1	0	0	0	0	0 5		-94.7404
2013-38 N		OKLAHOMA HIGHWAY PATROL 2 0 0	2013-07-27 11.40	OTTAWA	N QUAPAW COUNTY ROAD (E 40)	COUNTY ROAD (S 620)	N	0	0 0	1	1 5	1	34	7 1	2	0	0	0	0 5	5 36.9581	-94.7585
2013-39 N	N	OKLAHOMA HIGHWAY PATROL 2 0 0	2013-07-30 18.14	OTTAWA	N QUAPAW U.S. HIGHWAY 69A	COUNTY ROAD (E. 10)	N	0	0 0	1	1 5	1	34	3 1	4	0	0	0	0 1	1 36.9972	-94.7407
2013-40 N	N	OKLAHOMA HIGHWAY PATROL 2 0 0	2013-07-31 13.20	OTTAWA	N QUAPAW COUNTY ROAD (S. 137)	COUNTY ROAD (E.93)	N	0	0 0	1	1 5	1	34	4 1	2	0	1	0	0 5	5 36.8741	-94.7823
2013-41 N	N	OKLAHOMA HIGHWAY PATROL 3 1 0	2013-08-28 15.51	OTTAWA	N QUAPAW UNITED STATES HIGHWAY 69A	COUNTY ROAD (S 630 RD)	N	0	0 0	1	1 5	1	34	4 2	4	0	0	0	0 1	1 36.9936	-94.7407
2013-42 N	N	OKLAHOMA HIGHWAY PATROL 2 1 0	2013-08-25 20.51	OTTAWA	N QUAPAW COUNTY ROAD (N. 630)	COUNTY ROAD (E. 50)	N	0	0 0	3	1 5	1	34	1 3	2	0	0	1	0 5	5 36.9365	-94.7522
2013-43 N		OKLAHOMA HIGHWAY PATROL 2 3 0	2013-09-06 21.11	OTTAWA	N QUAPAW US69A	COUNTY ROAD (S 590)	N	0	0 0	2	1 5	1	34	6 3	5	0	0	0	0 1		-94.8119
2013-44 N	N	OKLAHOMA HIGHWAY PATROL 1 1 0	2013-09-21 19.22	OTTAWA	N COMMERCE COUNTY ROAD (E. 60)	COUNTY ROAD (S. 557)	N	0	0 0	5	1 5	1	31	7 4	1	1	0	1	0 5	5 36.9289	-94.8866
2013-45 N		OKLAHOMA HIGHWAY PATROL 1 1 0	2013-10-01 09.54	OTTAWA	N QUAPAW US HIGHWAY 69	US HIGHWAY 69A	N	0	0 0	1	1 5	4	44	3 2	2	0	0	0	1	1 36.9435	-94.8306
2013-46 N		OKLAHOMA HIGHWAY PATROL 1 1 0	2013-10-07 16.16	OTTAWA	N QUAPAW COUNTY ROAD (E 50)	COUNTY ROAD (S 629)	N	0	0 0	1	1 5	4	10	2 3	1	0	0	1	0 5	5 36.9437	-94.7379
2013-47 N		OKLAHOMA HIGHWAY PATROL 1 0 0			N QUAPAW COUNTY ROAD (E 30)	COUNTY ROAD (S 640)	N	0	0 0	2	1 5	4	59	5 1	2	0	0	0	0 5		-94.7226
	_											_									





2013-48 N	N	OKLAHOMA HIGHWAY PATROL 2 0	0 2013-11-04 18	18.47	OTTAWA N	COMMERCE	US69	COUNTY ROAD (S590)	N	0 /	0 0	2	3 5	1	34	2 1	2	n	n	0	0	1 36.9436	-94.8
2013-48 N		OKLAHOMA HIGHWAY PATROL 1 0		-	OTTAWA N	QUAPAW	COUNTY ROAD (E 50)	COUNTY ROAD (\$ 629 LANE)	N	0 0	0 0	2	, ,	1	57	E 1	1	0	0	0	0	5 36.9436	
		OKLAHOMA HIGHWAY PATROL 1 2			OTTAWA N	QUAPAW QUAPAW			N	0 0		1		4	10	2 3	2	0	0	0	0	5 36.9161	
2013-50 N							COUNTY ROAD (E 50 RD)	COUNTY ROAD (S 630 RD)				1		4			2		0	0	0		
2013-51 Y		OKLAHOMA HIGHWAY PATROL 3 0			OTTAWA N	QUAPAW	U.S. HIGHWAY 69A	COUNTY ROAD (EAST 30)	N	0 0	0 0	1	. 5	1	34	4 5	2	0	1	1	1	1 36.9747	
2013-52 N		OKLAHOMA HIGHWAY PATROL 2 0			OTTAWA N	I QUAPAW	US69A	COUNTY ROAD (S 600)	Y	1 1	1 Y	1	. 5	1	34	3 1	5	0	0	0	0	1 36.9436	
2013-53 Y	N	OKLAHOMA HIGHWAY PATROL 2 2	1 2013-10-16 16	16.45	OTTAWA N	I COMMERCE	COUNTY ROAD (E 30 RD)	COUNTY ROAD (S 505 RD)	N	0 0	0 0	1	3 5	1	34	4 5	3	0	0	0	0	5 36.9722	-94.9
2014-01 N	N	COMMERCE POLICE DEPT 2 0	0 2014-11-08 16	16.30	OTTAWA I	COMMERCE	COMMERCE AVE		N	0 0	0 0	1	l 1	1	99	7 1	1	1	0	0	0	6 36.9332	-94.8
2014-02 N	N	COMMERCE POLICE DEPT 1 0	0 2014-09-08 13	13.05	OTTAWA I	NORTH MIAM	OAK		N	0 0	0 0	1	1	2	46	2 1	1	0	1	0	0	6 36.9200	-94.8
2014-03 N		COMMERCE POLICE DEPT 1 0			OTTAWA I	NORTH MIAM	OAK		N	0 0	0 0	1	1	1	18	2 1	1	0	1	0	0	6 36.9200	
2014-04 N		COMMERCE POLICE DEPT 2 0			OTTAWA I	NORTH MIAM	HWY 69 S		N	0 0		1	3 6	1	2/	E 1	2	0	0	0	0	7 36.9223	
												1	9 0	1	34	3 1	3	0	0	0	0		
2014-05 N		COMMERCE POLICE DEPT 2 1			OTTAWA I	NORTH MIAM	MAIN ST		N	0 0		1	. 2	1	34	2 3	2	U	U	U	0	7 36.9145	
2014-06 N		COMMERCE POLICE DEPT 2 0	0 2014-10-16 13	L3.50	OTTAWA I	NORTH MIAM	N MAIN ST		N	0 0	0 0	1	1 2	1	34	5 1	2	0	0	0	0	7 36.9200	-94.8
2014-07 N	N	COMMERCE POLICE DEPT 2 0	0 2014-11-11 24	24.00	OTTAWA I	COMMERCE	N MAPLE ST		N	0 (0 0	1	1	1	34	3 1	1	0	0	0	0	6 36.9356	-94.8
2014-08 N	N	COMMERCE POLICE DEPT 2 0	0 2014-12-02 11	1.15	OTTAWA I	COMMERCE	S MICKEY MANTLE		N	0 0	0 0	1	6	1	34	3 1	3	0	0	0	0	7 36.9290	-94.8
2014-09 N	N	OKLAHOMA HIGHWAY PATROL 2 0			OTTAWA N	I QUAPAW	US 69 A	COUNTY ROAD (S.600)	N	0 0	0	1	5	1	34	6 1	3	0	0	0	0	1 36.9437	-94.8
2014-10 N		OKLAHOMA HIGHWAY PATROL 1 0			OTTAWA N	QUAPAW	COUNTY ROAD (E 50 RD)	COUNTY ROAD (S 620 RD)	N	0 0		1		4	10	1 1	1	0	0	0	0	5 36.9437	
												-		4		1 1	1	- 0	-	-	0		
2014-11 N		OKLAHOMA HIGHWAY PATROL 1 0			OTTAWA N	QUAPAW	COUNTY ROAD (S. 650)	COUNTY ROAD (S.655)	N	0 0		2	. 5	4	57	2 1	2	0	0	0	0	5 36.9436	
2014-12 N		OKLAHOMA HIGHWAY PATROL 4 4			OTTAWA N	I QUAPAW	U.S. HIGHWAY 69A	COUNTY ROAD (S. 600)	N	0 0		1	. 5	1	34	4 2	5	0	0	0	0	1 36.9437	
2014-13 N	N	OKLAHOMA HIGHWAY PATROL 2 0	0 2014-02-18 10	10.51	OTTAWA N	I COMMERCE	UNITED STATES 69	UNITED STATES 69A	N	0 0	0 0	1	3 5	1	34	3 1	2	0	0	0	0	1 36.9436	-94.8
2014-14 N	N	OKLAHOMA HIGHWAY PATROL 1 0	0 2014-02-25 12	12.20	OTTAWA N	COMMERCE	U.S. HIGHWAY 69A	COUNTY ROAD (E. 60)	N	0 0	0 0	1	. 5	1	15	3 1	1	0	0	1	0	4 36.9310	-94.8
2014-15 N	N	OKLAHOMA HIGHWAY PATROL 1 1	0 2014-03-10 23	23.09	OTTAWA N	QUAPAW	COUNTY ROAD (E 66)	COUNTY ROAD (S 592)	N	0 0	0 0	2	. 5	4	57	2 3	2	0	0	1	0	5 36.9192	-94.8
2014-16 N		OKLAHOMA HIGHWAY PATROL 2 0			OTTAWA N	U QUAPAW	COUNTY ROAD (137 RD)	COUNTY ROAD (E80 RD)	N	0 0		1	5	1	3/1	4 1	3	0	0	0	0	5 36.9001	
									NI NI	0 0		2	. ,	1	57	· 1	1	0	0	0	0		
2014-17 N		OKLAHOMA HIGHWAY PATROL 1 0			OTTAWA N	QUAPAW	COUNTY ROAD (EAST 90)	STATE HIGHWAY 137	IN.			2	. 5	4	5,	2 1	1	0	0	0	0	4 36.8857	
2014-18 N		OKLAHOMA HIGHWAY PATROL 1 0			OTTAWA N	QUAPAW	COUNTY ROAD (S630 RD)	COUNTY ROAD (E30 RD)	N	0 0		2	5 5	4	47	2 1	1	U	U	U	U	5 36.9713	
2014-19 N		OKLAHOMA HIGHWAY PATROL 1 1			OTTAWA N	COMMERCE	COUNTY ROAD (S520 RD)	COUNTY ROAD (E60 RD)	N	0 0		1	. 5	4	44	3 2	1	0	0	0	0	5 36.9346	
2014-20 N	N	OKLAHOMA HIGHWAY PATROL 2 0	0 2014-05-09 07	07.00	OTTAWA N	I QUAPAW	COUNTY ROAD (E. 69)	COUNTY ROAD (S. 652)	N	0 0	0 0	1	3 5	1	34	6 1	2	0	0	0	0	5 36.9178	-94.7
2014-21 N	N	OKLAHOMA HIGHWAY PATROL 1 0	0 2014-04-30 16	16.22	OTTAWA N	COMMERCE	COUNTY ROAD (S. 560)	COUNTY ROAD (E. 50)	N	0 0	0 0	1	. 5	4	10	4 1	1	0	1	0	0	5 36.9508	-94.8
2014-22 N	N	OKLAHOMA HIGHWAY PATROL 2 2	0 2014-05-16 15	15.05	OTTAWA N	I QUAPAW	COUNTY ROAD (E. 40 RD)	COUNTY ROAD (S. 590 RD)	N	0 0	0 0	1	3 5	1	34	6 3	2	0	0	0	0	5 36.9581	-94.8
2014-23 N		OKLAHOMA HIGHWAY PATROL 1 0			OTTAWA I	PICHER	U.S. HIGHWAY 69	COUNTY ROAD (E. 22)	N	0 0		1	5	2	46	2 1	1	0	1	0	0	7 36.9843	
2014-23 N		OKLAHOMA HIGHWAY PATROL 1 1			OTTAWA N	COMMERCE	COUNTY ROAD E60	COUNTY ROAD (E. 22)	N	0 0		1		4	51	6 2	1	0	0	0	0	5 36.9289	
												1	5 5	-			1	0	0	0	0		
2014-25 N		OKLAHOMA HIGHWAY PATROL 1 1			OTTAWA N	QUAPAW	COUNTY ROAD (E 60 RD)	COUNTY ROAD (S 652 RD)	N	0 0		1	. 5	4	10	4 3	1	U	U	U	U	5 36.9284	
2014-26 N	N	OKLAHOMA HIGHWAY PATROL 2 6	0 2014-06-15 16	16.20	OTTAWA N	I COMMERCE	COUNTY ROAD (S 550)	COUNTY ROAD (E 20)	N	0 0	0 0	1	5	1	34	1 4	6	0	0	0	0	5 36.9869	-94.8
2014-27 N	N	OKLAHOMA HIGHWAY PATROL 2 0	0 2014-05-31 21	21.30	OTTAWA N	I QUAPAW	US HIGHWAY 69A	COUNTY ROAD (S 590)	N	0 0	0 0	2	L 5	1	34	7 1	5	0	1	0	0	1 36.9436	-94.8
2014-28 N	N	OKLAHOMA HIGHWAY PATROL 1 1	0 2014-06-25 03	3.30	OTTAWA N	COMMERCE	SH69A	US60	N	0 0	0 0	2	3 5	4	57	4 3	1	0	0	0	0	4 36.9437	-94.8
2014-29 N	N	OKLAHOMA HIGHWAY PATROL 1 1	0 2014-06-28 22	22.29	OTTAWA N	COMMERCE	US HIGHWAY 69	US HIGHWAY 69A	N	0 0	0 0	2	3 5	3	57	7 2	3	0	0	0	0	1 36.9433	-94.8
2014-30 N		OKLAHOMA HIGHWAY PATROL 1 0			OTTAWA N	I QUAPAW	US HIGHWAY-69	COUNTY ROAD (E. 20)	N	0 0	0 0	1	1	1	48	2 1	1	0	0	0	0	7 36.9871	
2014-30 N									NI NI			1		4	40	2 1	1	0	0	0	0		
		OKLAHOMA HIGHWAY PATROL 1 0			OTTAWA N	QUAPAW	COUNTY ROAD (EAST 57)	COUNTY ROAD (SOUTH 642)	IN	0 0		1	. 5	4	49	3 1	1	0	0	-	-	5 36.9297	
2014-32 N		OKLAHOMA HIGHWAY PATROL 1 0			OTTAWA N	I QUAPAW	COUNTY ROAD (S 620)	COUNTY ROAD (E 69)	N	0 0		1	5	4	57	3 1	1	0	0	0	0	5 36.9165	
2014-33 N	N	OKLAHOMA HIGHWAY PATROL 1 0	0 2014-09-24 06	06.43	OTTAWA N	I QUAPAW	COUNTY ROAD (E 57)	COUNTY ROAD (S 638)	N	0 0	0 0	4	. 5	4	57	4 1	2	0	0	0	0	5 36.9329	-94.7
2014-34 N	N	OKLAHOMA HIGHWAY PATROL 1 0	0 2014-10-11 19	19.36	OTTAWA N	I COMMERCE	STATE HIGHWAY 69A	COUNTY ROAD (E 60)	N	0 0	0 0	2	3 5	1	33	7 1	2	0	0	0	0	4 36.9340	-94.8
2014-35 N	N	OKLAHOMA HIGHWAY PATROL 1 1	0 2014-10-24 20	20.35	OTTAWA I	QUAPAW	4TH ST	QUAPAW ST	N	0 0	0 0	3	1 1	1	31	6 3	1	1	0	0	0	6 36.9544	-94.7
2014-36 N	N	OKLAHOMA HIGHWAY PATROL 1 0	0 2014-12-04 18	18.02	OTTAWA N	I QUAPAW	COUNTY ROAD (S 630 RD)	COUNTY ROAD (E 20 RD)	N	0 1	0 0	2	2 5	4	49	5 1	1	0	0	0	0	5 36.9885	-94.7
2014-37 N		OKLAHOMA HIGHWAY PATROL 1 1			OTTAWA I	PICHER	UNITED STATES 69	COUNTY ROAD (E 10)	N	0 0	0 0	2	۶ 5	2	99	7 2	1	0	0	0	0	7 36.9984	
2014-38 N		OKLAHOMA HIGHWAY PATROL 1 0			OTTAWA N	I COMMERCE	COUNTY ROAD (E 60)	COUNTY ROAD (\$ 530)	NI NI	0 0		2	, ,	1	33	, <u> </u>	2	0	0	0	0	5 36.9279	
									IN .	0 0	0 0	2	5 5	1		0 1		0	0	0	0		
2014-39 N		OKLAHOMA HIGHWAY PATROL 1 1			OTTAWA N	QUAPAW	COUNTY ROAD (E30)	COUNTY ROAD (S610)	N	0 0	0	1	5	1	32	3 2	1	3	0	U	U	5 36.9725	
2014-40 N	N	OKLAHOMA HIGHWAY PATROL 1 2	0 2014-12-14 03	03.00	OTTAWA N	I COMMERCE	COUNTY ROAD EAST 50 ROAD	COUNTY ROAD SOUTH 550 ROAD	N	0 0	0 0	2	5	4	59	1 3	2	0	0	0	0	5 36.9435	
2015-01 N	N	COMMERCE POLICE DEPT 2 0	0 2015-03-02 08	08.50	OTTAWA I	COMMERCE	NORTH MAIN		N	0 0	0 0	1	3 6	1	99	2 1	5	0	0	0	0	7 36.9226	-94.8
2015-02 N	N	COMMERCE POLICE DEPT 2 0	0 2015-03-05 18	18.55	OTTAWA I	COMMERCE	A STREET		N	0 0	0 0	2	3 4	1	99	5 1	5	0	0	0	0	6 36.9327	-94.8
2015-03 N	N	COMMERCE POLICE DEPT 2 0	0 2015-02-27 17	17.00	OTTAWA N	COMMERCE	HIGHWAY 69		N	0 0	0 0	1	3 7	1	34	6 1	5	0	0	0	0	1 36.9435	-94.8
2015-04 N		COMMERCE POLICE DEPT 2 0			OTTAWA I	COMMERCE	127 N QUINCY		N	0 0	0 0	1	1	1	99	6 1	3	0	0	0	0	6 36.9347	
2015-05 N		COMMERCE POLICE DEPT 2 0			OTTAWA I	COMMERCE	US 69		N	0 0		1	2	1		7 1	2	0	0	0	0	7 36.9328	
												1			5.	/ 1	-	-	-		-	, 50.5520	
2015-06 N		COMMERCE POLICE DEPT 1 3			OTTAWA I	COMMERCE	A ST		N	0 0		2	. 1	4	59	3 2	3	0	0	1	0	6 36.9326	
2015-07 N	N	COMMERCE POLICE DEPT 2 0	0 2015-05-22 07	07.15	OTTAWA I	COMMERCE	DOUG FURNAS BLVD		N	0 0	0 0	1	3 4	1	34	6 1	4	0	1	0	0	6 36.9291	-94.8
2015-08 N	N	COMMERCE POLICE DEPT 2 0	0 2015-06-09 22	22.00	OTTAWA I	COMMERCE	NEWMAN AND NORTH MAIN		N	0 0	0 0	2	1 2	1	34	3 1	4	0	0	0	0	7 36.9226	-94.8
2015-09 N	N	COMMERCE POLICE DEPT 1 0	0 2015-06-24 00	00.05	OTTAWA I	COMMERCE	MCBEE STREET		N	0 0	0 0	1	1 1	2	38	4 1	1	0	1	0	0	6 36.9327	-94.8
2015-10 N		COMMERCE POLICE DEPT 2 1			OTTAWA I	NORTH MIAM	69 HWY		N	0 0	0 0	1	3 6	1	34	6 2	2	0	0	0	0	7 36.9226	
2015-12 N		COMMERCE POLICE DEPT 1 0			OTTAWA I	COMMERCE	S CEDAR		N	0 (p n	1	1 1	8	57	4 1	2	0	1	0	0	6 36.9294	
2015-13 N		COMMERCE POLICE DEPT 2 0			OTTAWA I	COMMERCE	S VINE ST		N	0 0	n 0	5	1	1	99	3 1	2	0	0	0	0	6 36.9300	
		NORTH MIAMI POLICE DEPT 2 2			OTTAWA I	NORTH MIAM	NEWMAN AND PINE		N	0 0		1		1	99	2 2	2	0	0	0	0	6 36.9200	
2015-14 N					-							1	1	1	24	2 2	2	0	0	0	0		
2015-15 N		COMMERCE POLICE DEPT 2 0			OTTAWA I	NORTH MIAM	NEWMAN		N	0 0		1	. 2	1	34	5 1		U	0	U	U	7 36.9226	
2015-16 N		COMMERCE POLICE DEPT 2 0			OTTAWA I	COMMERCE	S MICKEY MANTLE		N	0 0			1	1	99	5 1	2	0	0	0	0	7 36.9283	
2015-17 N	N	COMMERCE POLICE DEPT 2 0	0 2015-11-21 15		OTTAWA I	COMMERCE	N RIVER		N	0 (0 0	1	1	99	99	7 1	2	0	0	0	0	6 36.9365	
2015-18 N	N	COMMERCE POLICE DEPT 3 0	0 2015-12-02 06	06.50	OTTAWA I	COMMERCE	MICKEY MANTLE BLVD		N	0 0	0 0	1	6	1	34	4 1	2	0	0	0	0	10 36.9313	-94.8
2015-19 N	N	OKLAHOMA HIGHWAY PATROL 1 1	0 2015-01-21 07	07.30	OTTAWA N	QUAPAW	COUNTY ROAD (137 RD)	COUNTY ROAD (E 80 RD)	N	0 0	0 0	1	2 5	4	49	4 2	1	0	0	0	0	5 36.9074	-94.7
2015-20 N		OKLAHOMA HIGHWAY PATROL 2 0			OTTAWA N	COMMERCE	STATE HIGHWAY 69A	UNITED STATES 69	N	0 0	0 0	2	5 5	1	34	1 1	2	0	0	0	0	1 36.9436	
2015-21 N		OKLAHOMA HIGHWAY PATROL 1 2			OTTAWA N	U QUAPAW	I-44 WILL ROGERS TURNPIKE	TPU 324.8	N	0 0			5 5	2		2 3	2	0	1	0	0	3 36.9436	
									N			1	3 5	4		2 1	2	0	1	0			
2015-22 N					OTTAWA N	QUAPAW	COUNTY ROAD (E 57 RD)	COUNTY ROAD (S 638 RD)		-		1	5 -					-	Ü	U			
2015-23 N					OTTAWA N	QUAPAW	COUNTY ROAD (E 60)	COUNTY ROAD (S 670)	N	0 0		2	. 5	4		4 3	1	0	0	1	0	5 36.9293	
2015-24 N		OKLAHOMA HIGHWAY PATROL 1 2			OTTAWA N	I QUAPAW	COUNTY ROAD (E 60)	COUNTY ROAD (S 680)	N	0 0		1	L 5	4		1 3	2	0	0	0		5 36.9293	
2015-25 N	N	OKLAHOMA HIGHWAY PATROL 1 1	0 2015-03-19 17	17.50	OTTAWA N	QUAPAW	COUNTY ROAD (E 40)	COUNTY ROAD (S 610)	N	0 0	0 0	1	. 5	4	43	5 2	2	0	0	0	0	5 36.9581	-94.7
2015-26 N	N	OKLAHOMA HIGHWAY PATROL 1 0	0 2015-05-19 00	00.34	OTTAWA N	COMMERCE	UNITED STATES HIGHWAY 69	UNITED STATES HIGHWAY 69A	N	0 0	0 0	2	. 5	4	57	3 1	1	0	0	0	0	1 36.9435	-94.8
2015-27 N		OKLAHOMA HIGHWAY PATROL 1 0			OTTAWA N	QUAPAW	COUNTY ROAD (S 600 RD)	COUNTY ROAD (E 66 RD)	N	0 0		1	3 5	4	59	3 1	2	0	0	1	0	5 36.9204	
2015-28 N					OTTAWA N	QUAPAW	COUNTY ROAD (E 50)	COUNTY ROAD (\$ 680)	N	0 0		2	3 5		51	1 4	2	0	0	1	0	5 36.9439	
												1	, 5	4	40		2	0	0	1	0		
2015-29 N		OKLAHOMA HIGHWAY PATROL 1 0			OTTAWA N	QUAPAW	COUNTY ROAD (E.50)	COUNTY ROAD (S.620)	N	0 0		1	. 5	4		2 1	1	0	0	0	0	5 36.9436	
2015-30 N		OKLAHOMA HIGHWAY PATROL 2 0			OTTAWA N	COMMERCE	SH-69A	64 RD.	N	0 0		1	1 5	1	34	6 1	2	0	0	0	0	4 36.9290	
2015-31 N	N	OKLAHOMA HIGHWAY PATROL 1 0	0 2015-06-25 18	18.22	OTTAWA N	COMMERCE	COUNTY ROAD (E 50 RD)	COUNTY ROAD (S 550 RD)	N	0 0	0 0	1	L 5	4	44	5 1	4	0	0	0	0	5 36.9435	-94.8
					OTTAWA N	COMMERCE	COUNTY ROAD (CR S 570)	COUNTY ROAD (CR E 30)	N	0 0	0 0	2	. 5	4	59	1 1	1	0	0	0	0	5 36.9581	
		OKLAHOMA HIGHWAY PATROL 2 0			OTTAWA N	COMMERCE	US-69	US-69A	N	0 0		1	. 5	1	34	6 1	3	0	0	0	0	1 36.9440	
2015-32 N							COUNTY ROAD (NS 630)	COUNTY ROAD (EW 30)	NI.	0 0		2		1	57	6 2	1	0	0	0	0		
2015-32 N 2015-33 N	N.I	OKLAHOMA HIGHWAY PATROL 1 1			OTTAWA N	QUAPAW		, ,	IN .			2	. 5	4		0 3	1	U		U	U	5 36.9742	
2015-32 N 2015-33 N 2015-34 N		OV. 4110444 1110111444 PATE -		L4.37	OTTAWA N	I QUAPAW	US-69A	COUTNY ROAD (EW40)	N	0 0	0 0	1	1 5	1	34	6 4	2	0	1	0	0	1 36.9603	-94.7
2015-32 N 2015-33 N 2015-34 N 2015-35 N	N																		-	-	-		
2015-32 N 2015-33 N 2015-34 N 2015-35 N	N				OTTAWA N	QUAPAW	COUNTY ROAD (CR S 630)	COUNTY ROAD (CR E 30)	N	0 0		1	. 5	1	34	1 2	4	0	0	0	0	5 36.9799	
2015-32 N 2015-33 N 2015-34 N	N N		0 2015-07-12 17	17.58			COUNTY ROAD (CR S 630) COUNTY ROAD (RIVER ST.)	COUNTY ROAD (CR E 30) COUNTY ROAD (E 30)	N N	0 0	0 0	1 2	L 5	1 4	34 47	1 2 2 2 1	4 2	0	0	0	0		-94.7





N OKLAHOMA HIGHWAY PATROL 1 0 0 2015-08-04 19.33 OTTAWA N VORTH MIAM COUNTY ROAD (E 65) COUNTY ROAD (E 530) N 0 0 0 5 4 5 4 18 3 N OKLAHOMA HIGHWAY PATROL 1 0 0 2015-08-24 17.53 OTTAWA N COMMERCE COUNTY ROAD (E 500) COUNTY ROAD (E 500) N 0 0 0 1 1 1 5 4 4 47 4 2 N OKLAHOMA HIGHWAY PATROL 1 0 0 2015-08-24 17.53 OTTAWA N COMMERCE COUNTY ROAD (E 560) N 0 0 0 0 1 1 1 5 4 4 4 2 N OKLAHOMA HIGHWAY PATROL 2 1 0 2015-08-31 15.54 OTTAWA N PICHER COUNTY ROAD (E 20) COUNTY ROAD (E 590) N 0 0 0 0 1 1 1 5 1 34 2 2 N OKLAHOMA HIGHWAY PATROL 1 2 0 2015-09-22 20.30 OTTAWA N COMMERCE COUNTY ROAD (E 20) COUNTY ROAD (E 592) N 0 0 0 0 1 1 1 5 1 34 2 0 0 2015-09-22 20.30 OTTAWA N COMMERCE COUNTY ROAD (E 10) COUNTY ROAD (E 10) COUNTY ROAD (E 10) N 0 0 0 0 2 1 5 4 5 1 34	1 1 0 0 0 1 1 0 0 1 2 2 0 0 1 3 4 0 0 0 2 2 0 0 0	0 0 5 36. 1 0 5 36. 1 0 5 36. 0 0 5 36.
N OKLAHOMA HIGHWAY PATROL 2 1 0 2015-08-31 15.54 OTTAWA N PICHER COUNTY ROAD (E 20) COUNTY ROAD (S 592) N 0 0 0 1 1 1 5 1 34 2 1 N OKLAHOMA HIGHWAY PATROL 1 2 0 2015-09-22 20.30 OTTAWA N COMMERCE COUNTY ROAD (E 10) COUNTY ROAD (S 490) N 0 0 0 0 2 1 5 4 57 3 3 N OKLAHOMA HIGHWAY PATROL 2 1 0 2015-10-27 05.57 OTTAWA N PICHER US-69 US-69A N 0 0 0 0 2 4 5 1 34 3 1 N OKLAHOMA HIGHWAY PATROL 2 1 0 2015-10-22 17.46 OTTAWA N QUAPAW UNITED STATES HIGHWAY PATROL 2 1 0 2015-11-03 19.00 OTTAWA I QUAPAW UNITED STATES HIGHWAY 69A COUNTY ROAD (E 50 RD) N 0 0 0 2 3 5 1 34 3	2 2 0 0 1	1 0 5 36.
N OKLAHOMA HIGHWAY PATROL 1 2 0 2015-09-22 20.30 OTTAWA N COMMERCE COUNTY ROAD (E. 10) COUNTY ROAD (S. 490) N 0 0 0 2 1 5 4 57 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 0 0 1 3 4 0 0 0 2 2 0 0 0	
N N OKLAHOMA HIGHWAY PATROL 2 1 0 2015-10-27 05.57 OTTAWA N PICHER US-69 US-69A N 0 0 0 0 2 4 5 1 34 3 N OKLAHOMA HIGHWAY PATROL 2 1 0 2015-10-22 17.46 OTTAWA N QUAPAW US-69A COUNTY ROAD (E 16) N 0 0 0 1 3 5 1 34 5 N OKLAHOMA HIGHWAY PATROL 2 1 0 2015-11-03 19.00 OTTAWA I QUAPAW UNITED STATES HIGHWAY 69A COUNTY ROAD (E 50 RD) N 0 0 0 2 3 5 1 34 3	3 4 0 0 0 2 2 0 0 0	0 5 36
N OKLAHOMA HIGHWAY PATROL 2 1 0 2015-10-22 17.46 OTTAWA N QUAPAW US-69A COUNTY ROAD (E 16) N 0 0 0 1 3 5 1 34 5 1 N OKLAHOMA HIGHWAY PATROL 2 1 0 2015-11-03 19.00 OTTAWA I QUAPAW UNITED STATES HIGHWAY 69A COUNTY ROAD (E 50 RD) N 0 0 0 2 3 5 1 34 3	2 2 0 0 0	
N OKLAHOMA HIGHWAY PATROL 2 1 0 2015-10-22 17.46 OTTAWA N QUAPAW US-69A COUNTY ROAD (E 16) N 0 0 0 1 3 5 1 34 5 1 N OKLAHOMA HIGHWAY PATROL 2 1 0 2015-11-03 19.00 OTTAWA I QUAPAW UNITED STATES HIGHWAY 69A COUNTY ROAD (E 50 RD) N 0 0 0 2 3 5 1 34 3		0 0 1 36
	2 5 0 0 0	0 0 1 36
	2 3 0 0 0	0 0 1 36
N N OKLAHOMA HIGHWAY PATROL 1 1 0 2015-10-30 13.56 OTTAWA N COMMERCE COUNTY ROAD (\$ 565 RD) COUNTY ROAD (\$ 30 RD) N 0 0 0 1 4 5 1 10 6	2 3 0 0 0	0 0 5 36
N OKLAHOMA HIGHWAY PATROL 1 0 0 2015-11-21 05.38 OTTAWA N QUAPAW COUNTY ROAD (\$ 630 RD) COUNTY ROAD (\$ 630 RD) N 0 0 0 2 4 5 4 47 7	1 1 0 0 0	0 0 5 36
N OKLAHOMA HIGHWAY PATROL 1 1 0 2015-11-20 18.58 OTTAWA N QUAPAW COUNTY ROAD (E50) STATE HIGHWAY 137 N 0 0 0 2 1 5 1 10 6	4 1 0 0 1	1 0 5 36
N N OKLAHOMA HIGHWAY PATROL 1 0 0 2015-11-27 09.42 OTTAWA N QUAPAW I-44 (WILL ROGERS TURNPIKE) TPO 328.8 N 0 0 0 1 4 5 3 41 6	1 1 0 0 0	0 0 3 36.
N OKLAHOMA HIGHWAY PATROL 2 0 0 2015-11-23 07.48 OTTAWA N QUAPAW US-69A COUNTY ROAD (\$ 600) N 0 0 0 1 1 5 1 34 2	1 2 0 0 0	0 0 1 36.
N N OKLAHOMA HIGHWAY PATROL 2 0 0 2015-12-04 14.22 OTTAWA N QUAPAW COUNTY ROAD (\$ 630) COUNTY ROAD (\$ 20) N 0 0 1 1 5 1 34 6	1 2 0 0 0	0 0 5 36.
N Y OKLAHOMA HIGHWAY PATROL 2 1 0 2015-12-11 05.51 OTTAWA N QUAPAW INTERSTATE 44 (WRTP) MM 327 EB N 0 0 0 2 2 5 1 34 6	2 2 0 1 0	0 0 3 36.
N OKLAHOMA HIGHWAY PATROL 3 1 0 2015-12-11 12.34 OTTAWA N QUAPAW US-69A COUNTY ROAD (\$600) N 0 0 0 1 1 5 1 34 6	4 6 0 0 0	0 0 1 36.
N Y OKLAHOMA HIGHWAY PATROL 1 0 0 2015-12-20 22.09 OTTAWA N COMMERCE COUNTY ROAD (\$ 565) N 0 0 0 2 3 5 4 47 1	1 1 0 0 0	0 0 5 36.
N N OKLAHOMA HIGHWAY PATROL 1 1 0 2015-12-28 20.15 OTTAWA N QUAPAW COUNTY ROAD (5.630) N 0 0 0 2 3 5 1 49 2	2 1 0 0 0	0 0 10 36.
7 N OKLAHOMA HIGHWAY PATROL 2 2 2 2015-11-30 10.48 OTTAWA N QUAPAW SH-137 COUNTY ROAD (E-80) N 0 0 0 1 4 5 1 34 2	5 4 0 0 0	0 0 5 36
7 N COMMERCE POLICE DEPT 1 1 1 2016-07-02 22.45 OTTAWA I COMMERCE SOUTH 560 ROAD N 0 0 0 3 1 6 1 99 7	5 2 0 0 1	1 1 #NULL! 36.
	4 1 0 0 0	0 0 5 36.
	4 1 0 0 0	
	4 4 0 0 0	0 0 5 36.
	2 2 0 0 0	0 0 1 36.
	3 2 0 0 0	0 0 5 36.
	3 1 0 0 1	1 0 7 36.
N OKLAHOMA HIGHWAY PATROL 2 1 0 2016-02-16 21.47 OTTAWA N COMMERCE US-69 SH-69A N 0 0 0 2 1 5 1 34 3	3 2 0 0 1	1 0 1 36.
N N OKLAHOMA HIGHWAY PATROL 1 1 0 2016-05-05 13.35 OTTAWA N QUAPAW UNITED STATES HIGHWAY 69A COUNTY ROAD (E 30 RD) N 0 0 1 1 5 4 10 5	3 1 0 0 0	0 0 1 36.
N OKLAHOMA HIGHWAY PATROL 1 1 0 2016-05-10 08.06 OTTAWA N COMMERCE COUNTY ROAD (E 60) SH-69A N 0 0 0 1 1 5 4 44 3	3 1 0 0 1	1 0 4 36.
N N OKLAHOMA HIGHWAY PATROL 2 1 0 2016-05-08 13.35 OTTAWA N QUAPAW UNITED STATES HIGHWAY 69A COUNTY ROAD (E 15 RD) N 0 0 0 1 3 5 1 34 1	3 4 0 0 0	0 0 1 36.
N N OKLAHOMA HIGHWAY PATROL 1 2 0 2016-05-11 20.19 OTTAWA N COMMERCE COUNTY ROAD (S 540 RD) COUNTY ROAD (E 50 RD) N 0 0 0 1 3 5 4 57 4	3 4 0 0 1	1 0 5 36.
N OKLAHOMA HIGHWAY PATROL 1 2 0 2016-06-25 17.44 OTTAWA N QUAPAW COUNTY ROAD (E. 40 RD) COUNTY ROAD (S. 590 RD) N 0 0 0 1 3 5 4 57 7	3 3 0 0 0	0 0 5 36
N OKLAHOMA HIGHWAY PATROL 1 1 0 2016-06-27 15.12 OTTAWA N QUAPAW I-44 (WRTP) TPO 328.26 N 0 0 0 1 4 5 2 41 2	3 4 0 0 0	0 0 3 36.
N OKLAHOMA HIGHWAY PATROL 2 2 0 2016-08-05 15.58 OTTAWA N QUAPAW COUNTY ROAD (E 57) COUNTY ROAD (S 630) N 0 0 0 1 1 5 1 34 6	3 4 0 0 0	0 0 5 36
N OKLAHOMA HIGHWAY PATROL 1 1 0 2016-08-18 18.30 OTTAWA I PICHER US-69 F STREET N 0 0 0 1 1 5 4 47 5	3 1 0 1 0	0 0 7 36
N Y OKLAHOMA HIGHWAY PATROL 2 1 0 2016-12-24 20.52 OTTAWA N QUAPAW COUNTY ROAD (S 610) COUNTY ROAD (E 20) N 0 0 0 2 3 5 1 34 7	3 1 0 0 0	0 0 5 36
N COMMERCE POLICE DEPT 3 1 0 2016-01-14 08.40 OTTAWA I COMMERCE SMICKEY MANTLE N 0 0 0 1 1 6 10 17 5	2 1 0 0 0	0 0 7 36.
N COMMERCE POLICE DEPT 1 1 0 2016-09-07 15.00 OTTAWA I COMMERCE US HIGHWAY 69A N 0 0 0 1 1 7 1 99 4	2 1 0 0 0	0 0 4 36
N COMMERCE POLICE DEPT 2 1 0 2016-10-26 08.50 OTTAWA I NORTH MIAM HWY 69 N 0 0 0 1 4 6 1 34 4	2 3 0 0 0	0 0 #NULL! 36.
N OKLAHOMA HIGHWAY PATROL 2 1 0 2016-01-16 12.34 OTTAWA N QUAPAW COUNTY ROAD (S. 610) COUNTY ROAD (E. 80) N 0 0 0 1 1 5 1 34 7	2 3 0 0 0	0 0 5 36
N OKLAHOMA HIGHWAY PATROL 1 1 0 2016-01-20 07.45 OTTAWA N COMMERCE COUNTY ROAD (E/W 30) COUNTY ROAD (N/S 310) N 0 0 0 1 3 5 4 57 4	2 1 0 0 0	0 0 5 36
N OKLAHOMA HIGHWAY PATROL 2 1 0 2016-01-16 22.29 OTTAWA N QUAPAW I-44 (WILL ROGERS TURNPIKE) TPU 328.36 N 0 0 0 2 1 5 1 34 7	2 3 0 0 0	0 0 3 36.
4 N OKLAHOMA HIGHWAY PATROL 2 3 0 2016-02-13 23.10 OTTAWA N QUAPAW COUNTY ROAD (S. 630) COUNTY ROAD (E. 50) N 0 0 0 2 1 5 1 35 7	2 6 0 0 0	0 0 5 36
N OKLAHOMA HIGHWAY PATROL 1 1 0 2016-02-18 23.08 OTTAWA N COMMERCE COUNTY ROAD (\$565 RD) COUNTY ROAD (40 RD) N 0 0 0 2 1 5 4 47 5	2 1 0 0 0	0 0 5 36
4 Y OKLAHOMA HIGHWAY PATROL 2 1 0 2016-06-25 20.25 OTTAWA N QUAPAW COUNTY ROAD E. 50 COUNTY ROAD S. 629 N 0 0 0 1 3 5 1 34 7	2 1 0 0 0	0 0 5 36
N COMMERCE POLICE DEPT 3 0 0 2016-01-19 24.00 OTTAWA I COMMERCE HWY69 N 0 0 3 6 2 1 34 3	1 3 0 0 0	0 0 7 36.
N COMMERCE POLICE DEPT 3 0 0 2016-01-05 14.00 OTTAWA I COMMERCE N HWY 69 N 0 0 0 1 1 2 1 34 3	1 3 0 0 0	0 1 1 36
N COMMERCE POLICE DEPT 2 0 0 2016-02-19 09.38 OTTAWA I COMMERCE HWY69 N 0 0 0 1 1 7 1 34 6	1 2 0 0 0	0 0 1 36.
N COMMERCE POLICE DEPT 2 0 0 2016-02-18 10.43 OTTAWA I COMMERCE NELM N 0 0 0 1 1 1 1 1 34 5	1 1 0 0 0	0 0 6 36
N COMMERCE POLICE DEPT 2 0 0 2016-04-05 24.00 OTTAWA I COMMERCE QUINCYSTREET N 0 0 0 1 1 1 1 1 99 3	1 2 0 0 0	0 0 6 36
N N COMMERCE POLICE DEPT 2 0 0 2016-07-13 12-46 OTTAWN I COMMERCE MIDWAY DRIVE N 0 0 0 1 1 3 1 1 1 34 4	1 2 0 0 0	0 0 6 36
N N COMMERCE POLICE DEPT 2 0 0 2016-09-27 17-31 OTTAWN I COMMERCE 69A N 0 0 0 1 1 2 1 34 7	1 3 0 0 0	0 0 1 36.
	1 2 0 0 0	
N 9 COMMERCE POLICE DEPT 2 0 0 2016-05-27 16.37 OTTAWN I COMMERCE 580 RD N 0 0 1 1 1 1 1 1 1 1 6 6	1 3 0 0 0	0 0 1 36.
N COMMERCE POLICE DEPT 2 0 0 2016-09-28 18.45 OTTAWA I COMMERCE SOUTH CHERRY N 0 0 0 1 1 1 1 1 99 4	1 1 0 0 0	0 0 6 36.
N COMMERCE POLICE DEPT 2 0 0 2016-11-24 15.30 OTTAWA I COMMERCE MUSHROOM FARM RD N 0 0 0 1 1 9 1 34 5	1 2 0 0 0	0 0 #NULL! 36.
N OKLAHOMA HIGHWAY PATROL 1 0 0 2016-01-05 08.24 OTTAWA N QUAPAW UNITED STATES HIGHWAY 69A COUNTY ROAD (E 20 RD) N 0 0 0 1 1 5 1 33 3	1 1 0 0 0	0 0 1 36
N OKLAHOMA HIGHWAY PATROL 2 0 0 2016-01-14 17.00 OTTAWA N QUAPAW US-69A COUNTY ROAD (\$ 620) N 0 0 5 1 5 2 34 5	1 3 0 0 0	0 0 1 36.
N OKLAHOMA HIGHWAY PATROL 2 0 0 2016-01-19 18.27 OTTAWA N QUAPAW I-44 OLD SH-137 OP N 0 0 2 4 5 4 34 3	1 3 0 0 0	0 0 3 36.
N Y OKLAHOMA HIGHWAY PATROL 1 0 0 2016-02-06 22.04 OTTAWA N COMMERCE COUNTY ROAD (S 565) COUNTY ROAD (E 50) N 0 0 0 2 1 5 4 59 7	1 0 0 0 0	0 0 5 36.
N OKLAHOMA HIGHWAY PATROL 1 0 0 2016-03-13 13.45 OTTAWA N QUAPAW COUNTY ROAD (E20 RD) COUNTY ROAD (5600 RD) N 0 0 0 1 3 5 4 47 1	1 1 0 0 0	0 0 5 36
N OKLAHOMA HIGHWAY PATROL 1 0 0 2016-03-20 01.20 OTTAWA N QUAPAW COUNTY ROAD E 57 COUNTY ROAD S 638 N 0 0 0 2 3 5 2 49 1	1 1 0 0 0	0 1 5 36
N OKLAHOMA HIGHWAY PATROL 1 0 0 2016-04-18 17.06 OTTAWA N COMMERCE COUNTY ROAD (\$ 560 RD) COUNTY ROAD (\$ 50 RD) N 0 0 1 4 5 4 59 2	1 2 0 0 0	0 0 5 36
N OKLAHOMA HIGHWAY PATROL 1 0 0 2016-05-24 19.19 OTTAWA N QUAPAW COUNTY ROAD (S. 610) COUNTY ROAD (E. 30) N 0 0 0 1 3 5 1 16 3	1 1 0 0 0	0 0 5 36
N OKLAHOMA HIGHWAY PATROL 1 0 0 2016-05-17 20.00 OTTAWA N QUAPAW US-69A COUNTY ROAD (\$600) N 0 0 0 5 3 5 1 68 3	1 1 0 1 0	0 0 1 36.
N OKLAHOMA HIGHWAY PATROL 1 0 0 2016-05-31 19.00 OTTAWA N QUAPAW I-44 TPU 88.11 N 0 0 0 1 4 5 2 41 3	1 2 0 0 0	0 0 3 36.
N N OKLAHOMA HIGHWAY PATROL 2 0 0 2016-06-10 16.49 OTTAWA N COMMERCE US-69A US-69 N 0 0 0 1 1 5 1 34 6	1 4 0 0 0	0 0 1 36.
N OKLAHOMA HIGHWAY PATROL 1 0 0 2016-06-28 14.02 OTTAWA N QUAPAW COUNTY ROAD (E57 RD) COUNTY ROAD (S 630 RD) N 0 0 0 1 1 5 4 49 3	1 1 0 0 0	0 0 5 36.
N N OKLAHOMA HIGHWAY PATROL 2 0 0 2016-07-25 16.23 OTTAWA N COMMERCE COUNTY ROAD (6 0 R D) COUNTY ROAD (5 530 R D) N 0 0 0 1 3 5 1 34 2	1 2 0 0 0	0 0 5 36.
N Y OKLAHOMA HIGHWAY PATROL 1 0 0 2016-08-06 11.28 OTTAWA N COMMERCE US-69 US-69A N 0 0 0 1 1 5 3 57 7	1 1 0 0 1	1 0 1 36
N OKLAHOMA HIGHWAY PATROL 1 0 0 2016-08-21 01.48 OTTAWA N QUAPAW COUNTY ROAD (E. 57) COUNTY ROAD (S. 630) N 0 0 0 2 1 5 4 48 1	1 1 0 0 1	1 0 5 36
N N OKLAHOMA HIGHWAY PATROL 1 0 0 2016-10-12 17.35 OTTAWA N COMMERCE COUNTY ROAD (E. 10) COUNTY ROAD (S. 510) N 0 0 0 1 4 5 4 44 4	1 1 0 0 0	0 0 5 36.
N OKLAHOMA HIGHWAY PATROL 1 0 0 2016-10-31 06.25 OTTAWA N COMMERCE COUNTY ROAD (E. 30) N 0 0 0 2 2 5 4 59 2	1 1 0 0 0	0 0 5 36.
N N OKLAHOMA HIGHWAY PATROL 1 0 0 2016-11-05 21.25 OTTAWA N COMMERCE COUNTY ROAD (E. 49) N 0 0 0 2 1 5 4 44 7	1 2 0 0 0	0 0 5 36.
	1 2 0 0 0	
	1 2 0 0 0	
N OKLAHOMA HIGHWAY PATROL 2 0 0 2016-11-04 07.10 OTTAWA N QUAPAW SH-137 COUNTY ROAD (E80) N 0 0 3 2 5 1 34 6	1 2 0 2 0	0 0 5 36.
N OKLAHOMA HIGHWAY PATROL 2 0 0 2016-11-07 14.41 OTTAWA N COMMERCE COUNTY ROAD (E. 40) COUNTY ROAD (S. 565) N 0 0 0 1 4 5 1 34 2		0 0 5 36.
N OKLAHOMA HIGHWAY PATROL 2 0 0 2016-11-07 14.41 OTTAWA N COMMERCE COUNTY ROAD (S. 565) N 0 0 0 1 4 5 1 34 2 0 N OKLAHOMA HIGHWAY PATROL 2 0 0 2016-11-07 09.25 OTTAWA N COMMERCE COUNTY ROAD (S. 560) COUNTY ROAD (S. 565) N 0 0 0 1 3 5 1 34 2	1 2 0 2 0	
N OKLAHOMA HIGHWAY PATROL 2 0 0 2016-11-07 14.41 OTTAWA N COMMERCE COUNTY ROAD (E. 40) COUNTY ROAD (S. 565) N 0 0 0 1 4 5 1 34 2 0 N OKLAHOMA HIGHWAY PATROL 2 0 0 2016-11-07 09.25 OTTAWA N COMMERCE COUNTY ROAD (S. 560) COUNTY ROAD (S. 565) N 0 0 0 1 3 5 1 34 2 0 N OKLAHOMA HIGHWAY PATROL 2 0 0 2016-11-20 16.22 OTTAWA N QUAPAW COUNTY ROAD (S. 560) COUNTY ROAD (E. 40) COUNTY ROAD (S. 565) N 0 0 0 0 1 3 5 1 34 2 1	1 2 0 0 0	0 0 5 36
N OKLAHOMA HIGHWAY PATROL 2 0 0 2016-11-07 14.41 OTTAWA N COMMERCE COUNTY ROAD (S. 40) COUNTY ROAD (S. 565) N 0 0 0 1 4 5 1 34 2 0 0 0 2016-11-07 09.25 OTTAWA N COMMERCE COUNTY ROAD (S. 560) COUNTY ROAD (S. 565) N 0 0 0 1 1 3 5 1 34 2 0 0 N OKLAHOMA HIGHWAY PATROL 2 0 0 2016-11-10 16.22 OTTAWA N QUAPAW COUNTY ROAD (S. 630 RD) COUNTY ROAD (S. 630 RD) N 0 0 0 1 1 5 5 1 34 2 1 0 N OKLAHOMA HIGHWAY PATROL 2 0 0 2016-11-16 08.30 OTTAWA N COMMERCE US-69A US-69B N 0 0 0 0 1 1 5 5 1 34 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 2 0 0 0 1 3 0 0 0	0 0 1 36.
N OKLAHOMA HIGHWAY PATROL 2 0 0 2016-11-07 14.41 OTTAWA N COMMERCE COUNTY ROAD (S. 565) N 0 0 0 1 4 5 1 34 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 0 0 0 1 3 0 0 0 1 1 0 0 0	0 0 1 36. 0 0 1 36.
N OKLAHOMA HIGHWAY PATROL 2 0 0 2016-11-07 14.41 OTTAWA N COMMERCE COUNTY ROAD (S. 40) COUNTY ROAD (S. 565) N 0 0 0 1 4 5 1 34 2 0 0 0 2016-11-07 09.25 OTTAWA N COMMERCE COUNTY ROAD (S. 560) COUNTY ROAD (S. 565) N 0 0 0 1 1 3 5 1 34 2 0 0 N OKLAHOMA HIGHWAY PATROL 2 0 0 2016-11-10 16.22 OTTAWA N QUAPAW COUNTY ROAD (S. 630 RD) COUNTY ROAD (S. 630 RD) N 0 0 0 1 1 5 5 1 34 2 1 0 N OKLAHOMA HIGHWAY PATROL 2 0 0 2016-11-16 08.30 OTTAWA N COMMERCE US-69A US-69B N 0 0 0 0 1 1 5 5 1 34 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 2 0 0 0 1 3 0 0 0	0 0 1 36.





MOTOR VEHICLE CRASH SUMMARY

Downstream Casino Resort Area Cherokee County, KS

		CRA	SHES		PEC	PLE
Year	Total	Fatal	Injury	PDO	Deaths	Injuries
2011	0	0	0	0	0	0
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	2	0	1	1	0	2
Total	2	0	1	1	0	2

^{*}PDO – Property Damage Only

NOTE: Kansas crash data provided by Kansas DOT.





MOTOR VEHICLE CRASH SUMMARY

Downstream Casino Resort Area Newton County, MO

		CRA	PEOPLE			
Year	Total	Fatal	Injury	PDO	Deaths	Injuries
2011	0	0	0	0	0	0
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	02	0	0	0	0	0
Total	0	0	0	0	0	0

^{*}PDO – Property Damage Only

NOTE: Missouri crash data identified through MoDOT's Transportation Management System (TMS) accident summary application.



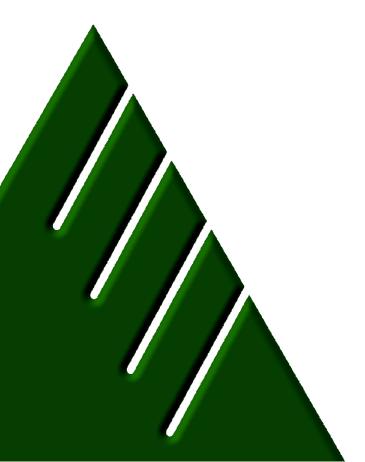




QUAPAW NATION OF OKLAHOMA

TRIBAL TRANSPORTATION SAFETY PLAN

APPENDIX C - CRASH CODE DEFINITIONS



December 11, 2017

PREPARED BY:



Appendix C

Variable	Description	Value	Label
CASE	Unique case number for crash		
		0	Not Stated
500 / 50 TAI	5	9	Unknown
ENV_FATAL	Fatality Code	O Not Stated 9 Unknown N No Y Yes O Not Stated 9 Unknown N No Y Yes I In City N Near City I Lane Closure 2 Lane Shift/Crossover 3 Work on Shoulder/Media 4 Intermitten or Moving Wo 9 Unknown 20 Not Stated 1 Before the First Work 2 Advance Warning Area 3 Transition Area 4 Activity Area 5 Termination Area 9 Unknown 20 Not Stated 0 Not Stated 0 Not Stated 9 Unknown 20 Not Stated 1 Before the First Work 2 Advance Warning Area 3 Transition Area 9 Unknown N No Y Yes 1 Daylight 2 Dark-Not Lighted 3 Dark-Lighted 4 Dawn 5 Dusk 6 Dark-Unknown Lighting 7 Other 9 Unknown	No
			Yes
		0	
EAD (100 E		9	
ENV_HIT	Hit & Run Code	0 Not Stated 9 Unknown N No Y Yes 0 Not Stated 9 Unknown N No Y Yes I In City N Near City N Near City N No Y Yes 1 Lane Closure 2 Lane Shift/Crossover 3 Work on Shoulder/Median 4 Intermitten or Moving Work 9 Unknown 20 Not Stated 1 Before the First Work 2 Advance Warning Area 3 Transition Area 4 Activity Area 5 Termination Area 9 Unknown 20 Not Stated 0 Not Stated 0 Not Stated 9 Unknown 20 Not Stated 2 Advance Warning Area 3 Transition Area 9 Unknown 20 Not Stated 0 Not Stated 1 Daylight 2 Dark-Not Lighted 3 Dark-Lighted 4 Dawn 5 Dusk 6 Dark-Unknown Lighting 7 Other 9 Unknown	
		Υ	
ENV_VEH	Total Number of Vehicles		
ENV_INJ	Total Number Injured		
ENV KILL	Total Number Killed		
ENV_DATE	Crash Date		
ENV_TIME	Crash Time		
ENV_COUNTYNAME	County		
		ı	In City
ENV_IN_NEAR_CITY	Crash In or Near City	N	
env_city	City		,
ENV STREET HWY	Highway/Street Name		
ENV_INTERSECT_ROAD	Nearest Intersecting Highway/Street		
		N	No
ENV_WORKZONE	Workzone		Yes
		1	
		2	
ENV. MORKZONE TYPE		3	
ENV_WORKZONE_TYPE	Workzone Type	4	
		9	
		20	
		2	
:NV_WORKZONE_TYPE :NV_WORKZONE_LOCATION		3	
ENV_WORKZONE_LOCATION	Location of Collision wtihin the Workzone	O Not Stated 9 Unknown N No Y Yes O Not Stated 9 Unknown N No Y Yes O Not Stated 9 Unknown N No Y Yes Yes O Not Stated O Not Stated O Not Stated O Not Stated O O Not Stated O Not Stated	Activity Area
		5	
		9	
		20	Not Stated
		0	Not Stated
ENIV MORKZONE MORKER	Wadaa Baasatia Wadaa a	9	
ENV_WORKZONE_WORKER	Worker Present in Workzone	N	No
		Υ	Yes
		1	
ENV_LIGHT	Lighting		
		6	
		7	
		20	Not Stated





		4	Class
		1	Clear
		2	Fog/Smog/Smoke
		3	Cloudy
		4	Rain
		5	Snow
ENV_WEATHER	Weather	6	Sleet/Hail (Freezing Rain/Drizzle)
_		7	Severe Crosswind
		8	Blowing Snow
		9	Blowing Sand, Soil, Dirt
		10	Other
		98	Not Stated
		99	Unknown
		1	Residential
		2	Business
		3	Industrial
		4	School
ENV_LOCALITY	Locality	5	Not Built-up
		6	Mixed Use
		7	Other
		9	Unknown
		20	Not Stated
		1	On Roadway
		2	Shoulder
	Location of First Harmful Event	3	Median
		4	Roadside
		5	Gore
ENV_HARM_EVENT_LOCATION		6	Separator
		7	Parking Lane/Zone
		8	Off Roadway, Location Unknown
		9	Outside Right-of-Way
		10	Other
		98	Not Stated
		0	Not Applicable
		10	Overturn/Rollover
		11	Fire/Explosion
		12	Immersion
		13	Jackknife
		14	Cargo/Equipment Loss/Shift
		15	Equipment Failure
		16	Separation of Units
END CERCE III DA CIVENE	5 (15 6 6	17	Departed Road Right
ENV_FIRST_HARM_EVENT	First Harmful Event for Entire Crash	18	Departed Road Left
		19	Cross Median/Centerline
		20	Downhill Runaway
		21	Fell/Jumped from Motor Vehicle
		22	Thrown or Falling Object
		23	Other Non-Collision
		30	Pedestrian
		31	Pedal Cycle
		32	Railway Vehicle
		33	Animal





		34	Motor Vehicle in Transport
		35	Parked Motor Vehicle
		36	Struck by Falling/Shifting Cargo
		37	Work Zone/Maintenance Equipment
		38	Other Non-Fixed Object
		40	Barrier (Cable)
		41	Barrier (Concrete)
		42	Barrier (Other)
		43	Fence Pole
		44	Fence
		45	Traffic Signal Support
		46	Traffic Sign Support
		47	Utility Pole/Light Support
		48	Other Post/Pole/Support
		49	Guardrain/Guardrail Fence
		50	Guardrain End
		51	Culvert
		52	Curb
		53	Island
		54	Sand Barrels
ENV_FIRST_HARM_EVENT	First Harmful Event for Entire Crash	55	Impact Attenuator
		56	Pavement Drop-Off
		57	Ditch
		58	Embankment
		59	Tree (Standing)
		60	Dividing Strip
		61	Retaining Wall
		62	Bridge Abutment
		63	Bridge Pier/Support
		64	Bridge Rail
		65	Bridge Post
		66	Bridge Curb
		67	Bridge Super Structure (Beams)
		68	Bridge Overhead Structure
		69	Delineator
		70	Mailbox
		71	Other Fixed Object
		72	Other Highway Structure
		73	Ground
		98	Not Stated
		99	Unknown
		1	Sunday
		2	Monday
		3	Tuesday
ENV_DAY	Day of Week	4	Wednesday
		5	Thursday
		6	Friday
		7	Saturday





	1	1	T
			None
		2	Possible
ENV_KABCO	Crash Injury Severity		Non-Incapacitating
		4	Incapacitating
		5	Fatal
		3 Non-Incapacitating 4 Incapacitating	
ENV_TOT_OCCUPANTS	Total Motor Vehicle Occupants in Crash		
ENV_TOT_NONMOTORISTS	Total Non-Motorists in Crash		
ENV_TOT_COMM_VEH	Total Commerical Vehicles in Crash		
any alashal ralated	Alcohol Related		No
env_alcohol_related	Alcohol Related	1	Yes
any drug related	Drug Polotod	0	No
env_drug_related	Drug Related	1	Yes
		1	Rural US Highway
		2	Interstate Highway
		3	Interstate Turnpike
		4	Rural State Highway
	ODOT Highway Class	5	
odot_hc	ODOT Highway Class	6	City Street
		7	Urban US Highway
		8	Urban State Highway
		9	
			Unknown
LATITUDE	Latitude		
LONGITUDE	Longitude		



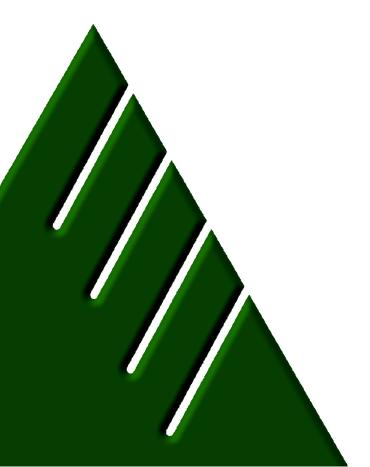




QUAPAW NATION OF OKLAHOMA

TRIBAL TRANSPORTATION SAFETY PLAN

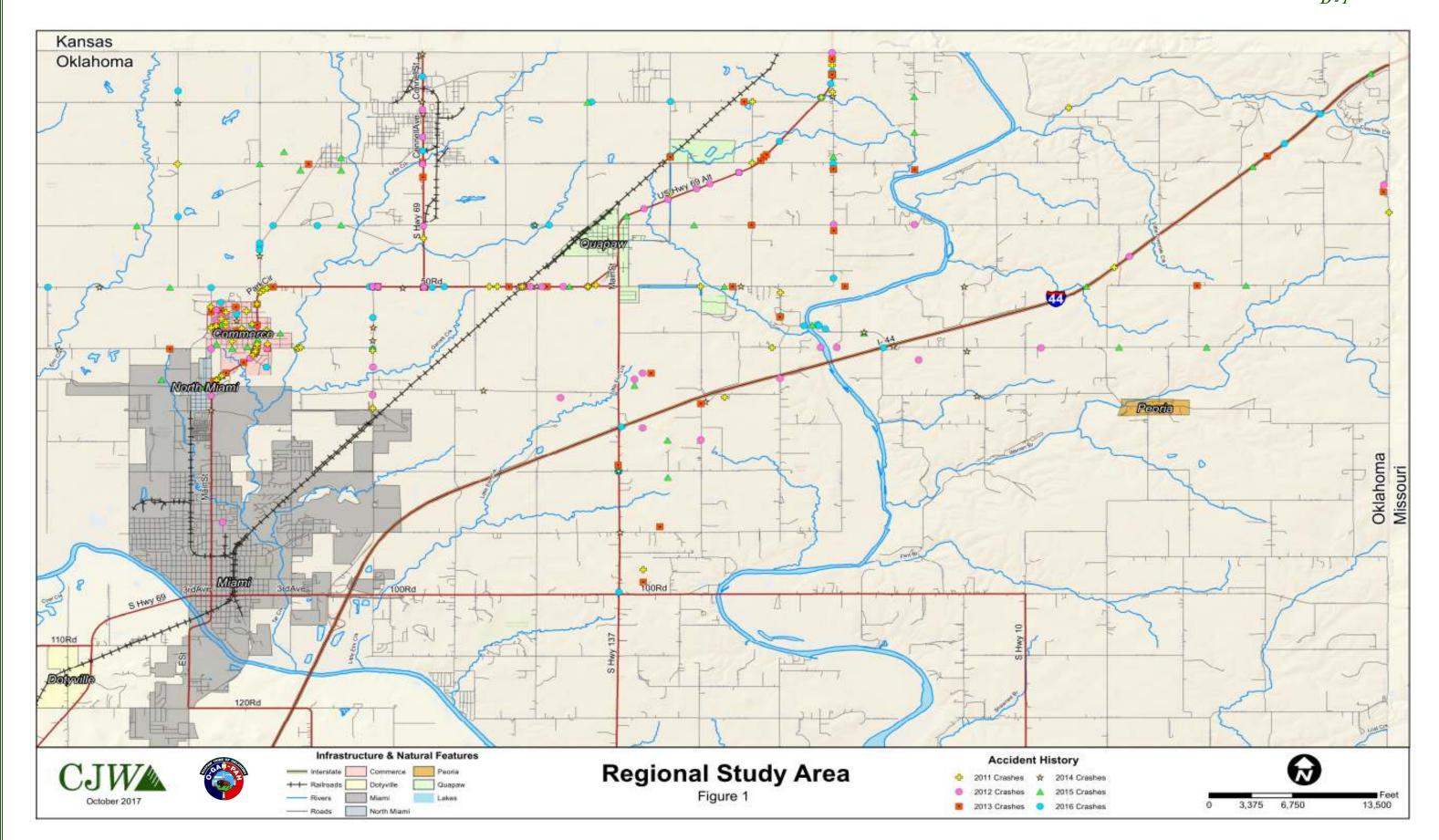
APPENDIX D - GIS CRASH MAPS

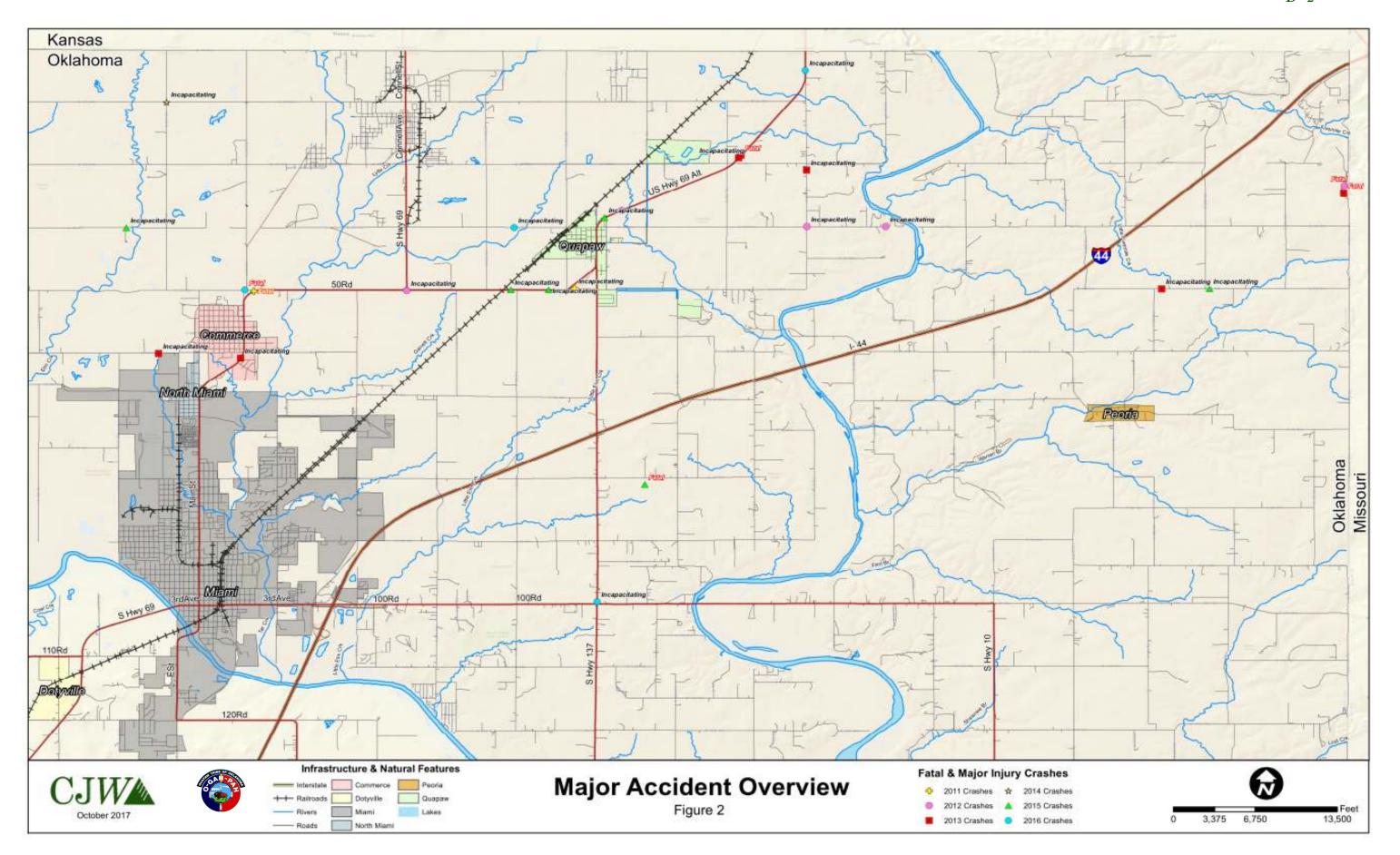


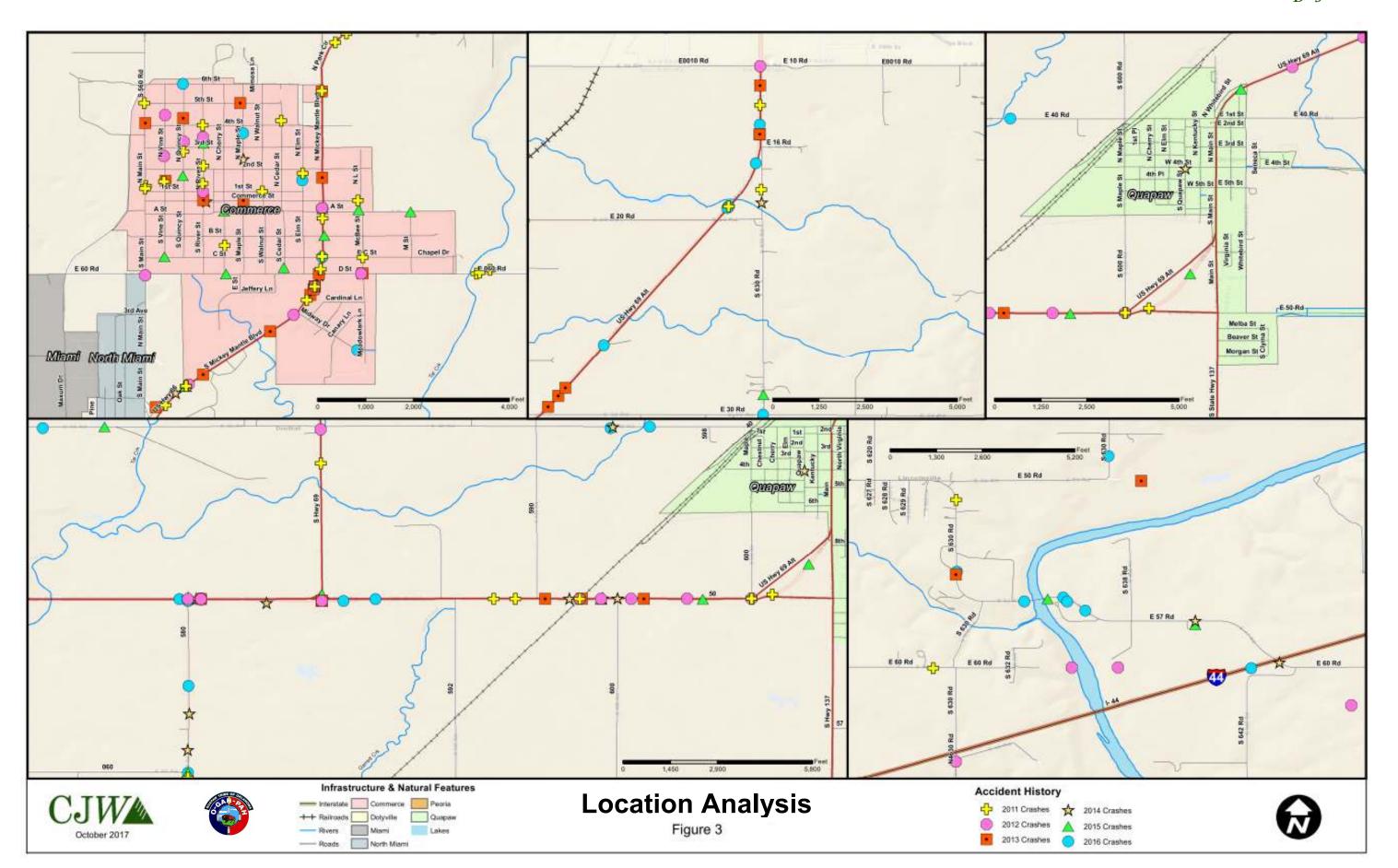
December 11, 2017

PREPARED BY:







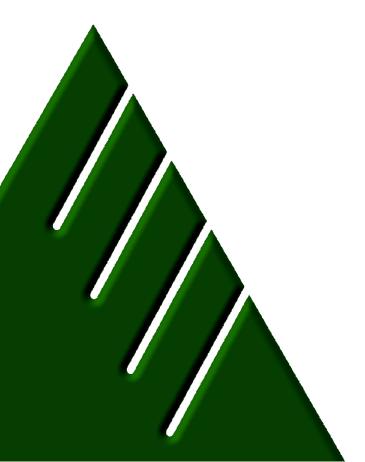




QUAPAW NATION OF OKLAHOMA

TRIBAL TRANSPORTATION SAFETY PLAN

APPENDIX E - 2007 TRAFFIC VOLUMES



December 11, 2017

PREPARED BY:



April 2007 Quapaw Tribe of Oklahoma Traffic Counts

						Conversion			Γ
Site #	Route Number	Location	Month	Day of	Volume	Factors	Current	Projected	% Heavy
			Counted	Week	Counted	Day*	ADT**	ADT***	Trucks*
1	IRR Route 0139	S630 Rd. South of E50 Rd.	April	Friday	1387	0.859	1191	1769	8.80%
	Section 070								
2	IRR Route 0103	E57 Rd. West of S638 Rd.	April	Friday	1071	0.859	920	1386	22.30%
	Section 050								
3	IRR Route 0139	S630 Rd. South of E60 Rd.	April	Friday	152	0.859	131	194	4.60%
	Section 030								
4	IRR Route 0196	S630 Rd. North of E40 Rd.	April	Friday	286	0.859	246	365	5.50%
	Section 030								
5	IRR Route 0183	E40 Rd. West of S630 Rd.	April	Friday	311	0.859	267	397	8.30%
	Section 010								
6	IRR Route 0190	S580 Rd. North of E66 Rd.	April	Friday	6743	0.859	5792	8601	9.40%
	Section 010								-
7	IRR Route 0187	E60 Rd. West of S580 Rd.	April	Friday	1852	0.859	1591	2362	6.20%
	Section 030								
8	IRR Route 0190	South 580 Rd. South of U.S. 69	April	Friday	5094	0.859	4376	6498	12.10%
	Section 030								
9	IRR Route 0185	E50 Rd. West of County Road 137	April	Friday	1641	0.859	1410	2093	10.30%
	Section 010								
10	IRR Route 0000	County Road 137 South of U.S. 69A	April	Friday	2010	0.859	1727	2564	13.40%
	Section 000								
11	IRR Route 0169	P Street South of E60 Rd.	April	Saturday	300	1.035	300	446	2.30%
	Section 010								2.0010
12	IRR Route 0129	E60 Rd. West of South Main St.	April	Saturday	842	1.035	871	1294	3.60%
	Section 030								0.0070
13	IRR Route 0130	E50 Rd. West of U.S. Hwy. 69	April	Saturday	415	1.035	430	638	11.60%
	Section 030								11.0070
14	IRR Route 0000	S560 Rd. North of E50 Rd.	April	Saturday	1322	1.035	1368	2032	3.90%
	Section 000								0.0010
15	IRR Route 0182	E40 Rd. West of U.S. Hwy. 69	April	Saturday	95	1.035	98	146	5.30%
	Section 040								0.0076
16	IRR Route 0182	E40 Rd. East of U.S. Hwy. 69	April	Saturday	367	1.035	380	564	4.90%
	Section 050								4.3070
17	IRR Route 0193	S600 Rd. North of E40 Rd.	April	Saturday	62	1.035	64	95	20.90%
	Section 010		,						20.3076
18	IRR Route 0182	E40 Rd; West of S600 Rd.	April	Monday	825	0.972	802	1191	7.40%
	Section 050				- 520	0.072	002	1191	7.40%
19	IRR Route 0103	S670 Rd. North of E69 Rd.	April	Tuesday	478	0.975	486	692	9.30%
	Section 070		4-11	Lassay	7.0	0.010	400	092	8.30%
20	IRR Route 0104	E60 Rd. West of S670 Rd.	April	Tuesday	366	0.975	357	£20	44 4007
	Section 005		- g	· sossay	300	0.975	307	530	11.40%





Appendix E (cont.)

April 2007 Quapaw Tribe of Oklahoma Traffic Counts

Site #	Route Number	Location	Month	Day of	Volume	Conversion Factors	Current	Projected	% Heavy
			Counted	Week	Counted	Day*	ADT**	ADT***	Trucks*
21	IRR Route 0188	E60 Rd. East of S670Rd.	April	Tuesday	91	0.975	89	132	17.60%
	Section 010								
22	IRR Route 0156	S652 Rd. South of E60 Rd.	April	Tuesday	181	0.975	176	262	10.50%
	Section 010		L						
23	IRR Route 0174	S620 Rd. South of E50 Rd.	April	Tuesday	103	0.975	100	149	13.50%
	Section 020								
24	IRR Route 0123	E57 Rd. East of County Road 137	April	Tuesday	178	0.975	174	258	29.70%
	Section 010								
25	IRR Route 0191	S590 Rd. North of U.S. Hwy. 69A	April	Tuesday	103	0.975	100	149	86.40%
	Section 010				-				
26	IRR Route 0000	E30 Rd. East of U.S. Hwy 69	April	Tuesday	410	0.975	400	594	11.60%
	Section 000			_					
27	IRR Route 0000	E30 Rd. West of U.S. Hwy. 69	April	Tuesday	322	0.975	314	466	8.90%
	Section 000						_		0.0070
28	IRR Route 0000	E20 Rd. East of U.S. Hwy. 69	Aprii	Tuesday	635	0.975	619	919	4.10%
	Section 000								4:1070
29	IRR Route 0000	E20 Rd. West of U.S. Hwy. 69	April	Tuesday	539	0.975	526	780	6.90%
	Section 000		1						2.00,0
30	IRR Route 0000	E28 Rd. West of U.S. Hwy, 69	April	Tuesday	619	0.975	604	896	24.80%
27.00	Section 000		T -						24.0070
31	IRR Route 0178	E20 Rd. West of S604 Rd.	April	Tuesday	632	0.975	616	915	5.20%
	Section 030						-		0.2070
32	IRR Route 0198	S630 Rd. South of E20 Rd.	April	Tuesday	332	0.975	324	481	10.80%
	Section 050		T				- Viii.		10.0070
33	IRR Route 0139	E30 Rd. East of U.S. Hwy 59A	April	Tuesday	200	0.975	195	290	11.00%
	Section 092	,	1	,		5.370		230	11.0076
34	IRR Route 0104	S660 Rd. South of E22 Rd.	April	Tuesday	219	0.975	214	317	10.10%
	Section 060		T	,		0.070		317	10.1076
35	IRR Route 0197	S665 Rd. South of E10 Rd.	April	Tuesday	302	0.975	294	437	7.70%
	Section 010		T		- 502	0.070	254	437	7.70%

ABBREVIATIONS KEY





^{*}Conversion Factors: ODOT adjustment factors used to mitigate the impact of seasonal, daily, or other generally predictable fluctuations in t

^{**}Current ADT: Current Average Daily Traffic (Volume Counted with applied Conversion Factors)

^{***}Projected ADT: Current ADT Projected twenty years.

^{*}Heavy Vehicles, I.e., trucks (vehicles having more than 4 wheels) and buses.

[&]quot;Information from the Data Base of ODOT.

Appendix E (cont.) April 2007

Quapaw Tribe of Oklahoma Traffic Counts from Oklahoma Department of Transportation

			$\overline{}$	$\overline{}$						
Site#	Route Number	Location	Year	Volume	Conversion Factors	Current	Projected	% Heavy		
5^^	IDD D Adda		Counted	Counted	Day*	ADT**	ADT***	Trucks*		
5~~	IRR Route 0108	.7 mi NE of N/S 455	2006		Included	9500	14108	****		
-	Section 010		L							
8^^	IRR Route 0108	.3 ml East of 69A& US 69 Jct.	2006		Included	9400	13959			
_	Section 050									
10^^^	BIA Route 0149	Taken from Miami, OK to the	2007		Included	20910	31051	59.80%		
	Applied to Entire Rt.	stateline of Oklahoma and Missouri					0.001	38.0070		
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ABBREVIATIONS KEY

^{^^^} Information from the Data base of Oklahoma Tumpike Authority





^{*}Conversion Factors: ODOT adjustment factors used to mitigate the impact of seasonal, daily, or other generally predictable fluct

^{**}Current ADT: Current Average Daily Traffic (Volume Counted with applied Conversion Factors)

^{***}Projected ADT: Current ADT Projected twenty years.

^{*}Heavy Vehicles, i.e., trucks (vehicles having more than 4 wheels) and buses.

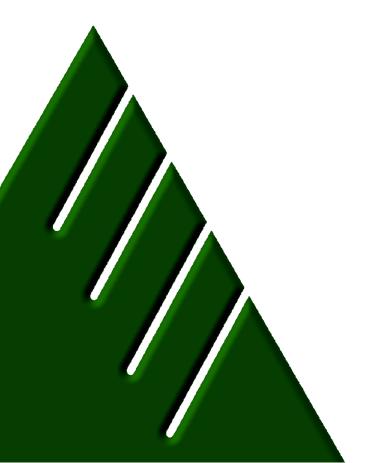
^{^^}information from the Data Base of ODOT.



QUAPAW NATION OF OKLAHOMA

TRIBAL TRANSPORTATION SAFETY PLAN

APPENDIX F - PROVEN SAFETY COUNTERMEASURES



December 11, 2017

PREPARED BY:





Federal Highway Administration

PROVEN SAFETY COUNTERMEASURES



USLIMITS2

USLIMITS2 helps practitioners assess and establish safe, reasonable, and consistent speed limits



"USLIMITS2 acts as an external, impartial, second set of eyes."

Georgia DOT Traffic Engineer

FHWA-SA-17-070

USLIMITS21 is a free, web-based tool designed to help practitioners assess and establish safe, reasonable, and consistent speed limits for specific segments of roadway. It is applicable to all types of facilities,



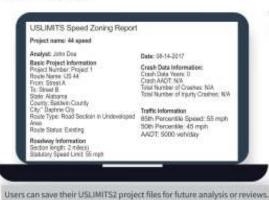
Source: Missouri DOT

from rural and local roads and residential streets to urban freeways.

USLIMITS2 supports customary engineering studies² used to determine appropriate speed limits. These studies typically include evaluating criteria such as 85th percentile speed, traffic volumes, roadway type, roadway setting, number of access points, crash history, pedestrian/bicyclist activity, etc. Similarly, USLIMITS2 produces an unbiased and objective suggested speed limit value based on 50th and 85th percentile speeds, traffic volume, roadway characteristics, and crash data.

Traffic engineers often communicate with the public, community leaders, and government officials to explain the methodology behind setting speed limits. USLIMITS2 provides an objective second opinion and helps support these speed limit decisions. USLIMITS2 augments the credibility of engineering speed studies, helping to address concerns from local government officials and private citizens when speed limits are adjusted.

To begin using USLIMITS2, users create a new project or upload an existing project file for revisions or updates through the online tool. The website contains the user guide, information on the tool's decision logic and related research, and frequently asked questions.



USLIMITS2 is available free online at https://safety.fnwa.dot.gov/uslimits/.

2 For more information on setting speed limits based on engineering studies, refer to the Manual on Uniform Traffic Control Devices.

→ For more information on this and other FHWA Proven Safety Countermeasures, please visit https://safety.fhwa.dot.gov/provencountermeasures.

Safe Roads for a Safer Future (Nonathern An madicing safety seres from







U.S. Department of Transportation Federal Highway Administration

PROVEN SAFETY COUNTERMEASURES



Enhanced Delineation and Friction for Horizontal Curves

SAFETY BENEFITS:

25%

Reduction in nighttime crashes

16%

Reduction in non-intersection fatal and injury crashes

Source: CMF Cleaninghouse, CMF1Ds 2438 and 2439

HIGH FRICTION SURFACE TREATMENTS

52%

Reduction in wet road crashes

24%

Reduction in curve crashes

This proven safety countermeasure for reducing crashes at curves includes a variety of potential strategies that can be implemented in combination or individually. These strategies fall into two categories: enhanced delineation and increased pavement friction.

Enhanced Delineation

Enhanced delineation treatments can alert drivers in advance of the curve and vary by the severity of the curvature and operating speed. Price ranges for these strategies are low to moderate. Treatments include the following:

- Pavement markings.
- Post-mounted delineation.
- Larger signs and signs with enhanced retroreflectivity.
- Dynamic advance curve warning signs and sequential curve signs.



Source: Trinierock

Increased Pavement Friction

High friction surface treatment (HFST) is another highly cost-effective countermeasure. HFST compensates for the high friction demand at curves where the available pavement friction is not adequate to support operating speeds due to one or more of the following situations:

- Sharp curves.
- Inadequate cross-slope design.
- Wet conditions.
- Polished roadway surfaces.
- Driving speeds in excess of the curve advisory speed.

To implement these proven safety countermeasures, agencies can take the following steps:

- 1. Develop a process for identifying and treating problem curves.
- Use the appropriate application for the identified problem(s), consider the full range of enhanced delineation and friction treatments.
- Improve consistency in application of horizontal curve guidance provided in the Manual on Uniform Traffic Control Devices for new and existing devices.
- Review signing practices and policies to ensure they comply with the intent of the new guidance.

Source: CMF Clearinghouse, CMF1Ds 7908 and 7901

→ For more information on this and other FHWA Proven Safety Countermeasures, please visit https://safety.fhwa.dot.gov/provencountermeasures

Safe Roads for a Safer Future

http://safety.fhwa.dot.gov

FHWA-SA-17-058







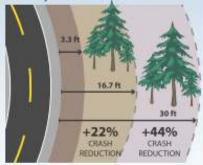
Federal Highway Administration

PROVEN SAFETY COUNTERMEASURES



Roadside Design Improvements at Curves

Increasing the Clear Zone prevents crashes



Source: Leidos. Data Source: CMF Clearinghouse (CMF IDs 35 and 36)

> 27% of all fatal crashes occur at curves

80% of all fatal crashes at curves are roadway departure crashes Roadside design improvement at curves is a strategy encompassing several treatments that target the high-risk roadside environment along the outside of horizontal curves. These treatments prevent roadway departure fatalities by giving vehicles the opportunity to recover safely and by reducing crash severity.

Roadside design improvements can be implemented alone or in combination and are particularly recommended at horizontal curves—where data indicates a higher-risk for roadway departure fatalities—and where cost effectiveness can be maximized.

Roadside Design Improvements to Provide for a Safe Recovery

In cases where a vehicle leaves the roadway, strategic roadside design elements, including clear zone addition or widening, slope flattening, and shoulder addition or widening, can provide drivers with an opportunity to regain control and re-enter the roadway.

- A clear zone is an unobstructed, traversable area beyond the edge of the through traveled way for the recovery of errant vehicles. Clear zones are free of rigid fixed objects such as trees and utility cabinets or poles. AASHTO's Roadside Design Guide details the clear zone width adjustment factors to be applied at horizontal curves.
- Slope flattening reduces the steepness of the sideslope to increase drivers' ability to keep the vehicle stable, regain control of the vehicle, and avoid obstacles.
- Adding or widening shoulders gives drivers more recovery area to regain control in the event of a roadway departure.

Roadside Design Improvements to Reduce Crash Severity

Since not all roadside hazards can be removed at curves, installing roadside barriers to shield unmovable objects or embankments may be an appropriate treatment. Roadside barriers come in three forms:

- Cable barrier is a flexible barrier made from wire rope supported between frangible posts.
- Guardrail is a semi-rigid barrier, usually either a steel box beam or W-beam. These deflect less than flexible barriers, so they can be located closer to objects where space is limited.
- Concrete barrier is a rigid barrier that does not deflect. These are typically reserved for use on divided roadways.



Source: Alaska DOT

Source: Fatality Analysis Reporting System (FARS)

→ For more information on this and other FHWA Proven Safety Countermeasures, please visit https://safety.fhwa.dot.gov/provencountermeasures.

FHWA-SA-17-061

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THE LRSP

DEVELOPMENT

PROCESS

Establish

Leadership

2

Analyze

Safety Data



Federal Highway Administration

PROVEN SAFETY COUNTERMEASURES

(6)

Evaluate and

Update

8

Determine

Emphasis

Areas

(5)

Strategies

(4)

Identify

Strategies



Local Road **Safety Plans**

Local roads experience

3x the fatality rate of the Interstate Highway System.

Source: FARS and FHWA Highway Statistics Series (2014)



A local road safety plan (LRSP) provides a framework for identifying, analyzing, and prioritizing roadway safety improvements on local roads. The LRSP development process and content are Prioritize and tailored to local issues and Incorporate needs. The process results in a prioritized list of issues, risks, actions, and improvements that can be used to reduce fatalities and

serious injuries on the local

road network.

While local roads are less traveled than State highways, they have a much

higher rate of fatal and serious injury crashes. Developing an LRSP is an effective strategy to improve local road safety for all road users and support the goals of a State's overall strategic highway safety plan.

Although the development process and resulting plan can vary depending on the local agency's needs, available resources, and targeted crash types, aspects common to LRSPs include:

- Stakeholder engagement representing the 4E's engineering, enforcement, education, and emergency medical services, as appropriate.
- Collaboration among municipal, county, Tribal, State and/or Federal entities to leverage expertise and resources.
- Identification of target crash types and crash risk with corresponding recommended proven safety countermeasures.
- Timeline and goals for implementation and evaluation.

Local road agencies should consider developing an LRSP to be used as a tool for reducing roadway fatalities, injuries, and crashes. The plan should be viewed as a living document that can be updated to reflect changing local needs and priorities.

Developing Safety Plans: A Manual for Local Rural Road Gwners, FHWA-SA-12-017, provides guidance on developing an LRSP.

→ For more information on this and other FHWA Proven Safety Countermeasures, please visit https://safety.fhwa.dot.gov/provencountermeasures.

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http://safety.ftwa.dat.gav

FHWA-SA-17-069







U.S.Department of Transportation Federal Highway Administration

PROVEN SAFETY COUNTERMEASURES



Longitudinal Rumble Strips and Stripes

SAFETY BENEFITS:

CENTER LINE RUMBLE STRIPS

44-64%

Head-on, opposite-direction, and sideswipe fatal and injury crashes

SHOULDER RUMBLE STRIPS

13-51%

Single vehicle, run-off-road fatal and injury crashes



Saurce: NCHRP Report 641, Guidance for the Design and Application of Shoulder and Centerline Rumble Strips.

FHWA-SA-17-059



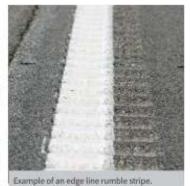
Source: FHWA

Longitudinal rumble strips are milled or raised elements on the pavement intended to alert drivers through vibration and sound that their vehicles have left the travel lane. They can be installed on the shoulder, edge line of the travel lane, or at or near center line of an undivided roadway.

Rumble stripes are edge line or center line rumble strips where the pavement marking is placed over the rumble strip, which can result in an increased visibility of the pavement marking during wet, nighttime conditions.

With roadway departure crashes accounting for more than half of the fatal roadway crashes annually in the United States, rumble strips and stripes are designed to address these crashes caused by distracted, drowsy, or otherwise inattentive drivers who drift from their lane. They are most effective when deployed in a systemic application since driver error may occur on all roads.

Transportation agencies should consider milled center line rumble strips (including



Source: Missouri DC

in passing zone areas) and milled edge line or shoulder rumble strips with bicycle gaps for systemic safety projects, location-specific corridor safety improvements, as well as reconstruction or resurfacing projects.

→ For more information on this and other FHWA Proven Safety Countermeasures, please visit https://safety.fhwa.dot.gov/provencountermeasures.

Safe Roads for a Safer Future (Insulation to continue safety same time)







US.Department of Transportation Federal Highway Administration

PROVEN SAFETY COUNTERMEASURES



Systemic Application of Multiple Low-Cost Countermeasures at Stop-Controlled Intersections



Example of countermeasures on the stop

Source: South Carolina DOT

SAFETY BENEFITS:

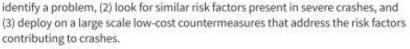
10% Reduction in injury and fatal crashes

> 15% Reduction in nighttime crashes

This systemic approach to intersection safety involves deploying a group of multiple low-cost countermeasures, such as enhanced signing and pavement markings, at a large number of stop-controlled intersections within a jurisdiction. It is designed to increase driver awareness and recognition of the intersections and potential conflicts.

The systemic approach to safety has three components:

(1) analyze systemwide data to identify a problem. (2) look for s



Example of countermeasures on the through approach.

Average Benefit-Cost Ratio

12:1

The low-cost countermeasures for stop-controlled intersections generally consist of the following treatments:

On the Through Approach

- Doubled up (left and right), oversized advance intersection warning signs, with street name sign plaques.
- Enhanced pavement markings that delineate through lane edge lines.

On the Stop Approach

- Doubled up (left and right), oversized advance "Stop Ahead" intersection warning signs.
- Doubled up (left and right), oversized Stop signs.
- Retroreflective sheeting on sign posts.
- Properly placed stop bar.
- Removal of any vegetation, parking, or obstruction that limits sight distance.
- Double arrow warning sign at stem of T-intersections.

Source: T. Le et al., "Safety Effects of Low-Cost Systemic Safety Improvements at Signalized and Stop-Controlled Intersections," 96th Annual Meeting of the Transportation Research Board, Paper Number 17-05379, January 2017.

→ For more information on this and other FHWA Proven Safety Countermeasures, please visit https://safety.fhwa.dot.gov/provencountermeasures.

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http://safety.fhwa.dat.gav

FHWA-SA-17-056







PROVEN SAFETY COUNTERMEASURES



Road Safety Audits

A road safety audit is a proactive, formal safety performance examination of an existing or future road or intersection by an independent and multidisciplinary team.

SAFETY BENEFIT:

10-60% Reduction in total crashes

Source: Read Safety Audits: An Evaluation of RSA. Programs and Projects, FHWA-SA-12-037; and FHWA Road Safety Audit Guidelines, FHWA-SA-06-06. While most transportation agencies have established traditional safety review procedures, a road safety audit (RSA) is unique. RSAs are performed by a multidisciplinary team independent of the project. RSAs consider all road users, account for human factors and road user capabilities, are documented in a formal report, and require a formal response from the road owner. (See the eight steps for conducting an RSA below.)

RSAs provide the following benefits:

- Reduced number and severity of crashes due to safer designs.
- Reduced costs resulting from early identification and mitigation of safety issues before projects are built.



Source: FHWA

- Improved awareness of safe design practices.
- Increased opportunities to integrate multimodal safety strategies and proven safety countermeasures.
- Expanded ability to consider human factors in all facets of design.

RSAs can be performed in any phase of project development, from planning through construction. RSAs can also be conducted on any size project, from minor intersection and roadway retrofits to large-scale construction projects. Agencies are encouraged to conduct an RSA at the earliest stage possible, as all roadway design options and alternatives are being explored.

CONDUCTING AN RSA



→ For more information on this and other FHWA Proven Safety Countermeasures, please visit https://safety.fhwa.dot.gov/provencountermeasures

http://safety.fhwa.dof.gov

Safe Roads for a Safer Future

FHWA-SA-17-068







U.S.Department of Transportation Federal Highway Administration

PROVEN SAFETY COUNTERMEASURES



Reduced Left-Turn Conflict Intersections



Source: FHWA

SAFETY BENEFITS:

54%

Reduction in injury and fatal crashes¹

30%

Reduction in intersection-related injury crash rate²

- Edara et al., "Evaluation of I-turn Intersection Design Performance in Missouri," December 2013.
- FHWA, Median U-Turn Intersection Informational Guide, FHWA-SA-14-069 (Washington, DC: 2014), pp. 41-42.

Reduced left-turn conflict intersections are geometric designs that alter how left-turn movements occur in order to simplify decisions and minimize the potential for related crashes. Two highly effective designs that rely on U-turns to complete certain left-turn movements are known as the restricted crossing U-turn (RCUT) and the median U-turn (MUT).



Source: FHWA

Restricted Crossing U-turn (RCUT) Median U-turn (MUT)

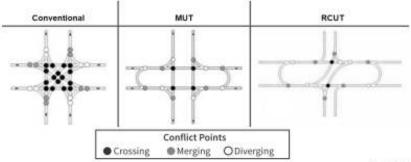
The RCUT intersection modifies the direct left-turn and through movements from cross-street approaches. Minor road traffic makes a right turn followed by a U-turn at a designated location – either signalized or unsignalized – to continue in the desired direction.

The RCUT is suitable for a variety of circumstances, including along rural, high-speed, four-lane, divided highways or signalized routes. It also can be used as an alternative to signalization or constructing an interchange. RCUTs work well when consistently used along a corridor, but also can be used effectively at individual intersections.

The MUT intersection modifies direct left turns from the major approaches. Vehicles proceed through the main intersection, make a U-turn a short distance downstream, followed by a right turn at the main intersection. The U-turns can also be used for modifying the cross-street left turns.

The MUT is an excellent choice for heavily traveled intersections with moderate left-turn volumes. When implemented at multiple intersections along a corridor, the efficient two-phase signal operation of the MUT can reduce delay, improve travel times, and create more crossing opportunities for pedestrians and bicyclists.

MUT and RCUT Can Reduce Conflict Points by 50%



Source: FHWA

→ For more information on this and other FHWA Proven Safety Countermeasures, please visit https://safety.fhwa.dot.gov/provencountermeasures.

FHWA-SA-17-054

Safe Roads for a Safer Future







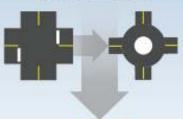
U.S.Department of Transportation Federal Highway Administration

PROVEN SAFETY COUNTERMEASURES



Roundabouts

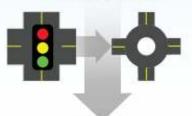
TWO-WAY STOP-CONTROLLED INTERSECTION TO A ROUNDABOUT



82%

Reduction in severe crashes

SIGNALIZED INTERSECTION TO A ROUNDABOUT



78% Reduction in severe crashes The modern roundabout is a type of circular intersection configuration that safely and efficiently moves traffic through an intersection. Roundabouts feature channelized approaches and a center island that results in lower speeds and fewer conflict points. At



ourre: FHWA

roundabouts, entering traffic yields to vehicles already circulating, leading to improved operational performance.

Roundabouts provide substantial safety and operational benefits compared to other intersection types, most notably a reduction in severe crashes.

Roundabouts can be implemented in both urban and rural areas under a wide range of traffic conditions. They can replace signals, two-way stop controls, and all-way stop controls. Roundabouts are an effective option for managing speed and transitioning traffic from high-speed to low-speed environments, such as freeway interchange ramp terminals, and rural intersections along high-speed roads.



FHWA encourages agencies to consider roundabouts during new construction and reconstruction projects as well as for existing intersections that have been identified as needing safety or operational improvements.

Source: Highway Safety Manual

→ For more information on this and other FHWA Proven Safety Countermeasures, please visit https://safety.fhwa.dot.gov/provencountermeasures.

FHWA-SA-17-055









PROVEN SAFETY COUNTERMEASURES



SafetyEdgesm



Source: FHWA

SAFETY BENEFIT:

Reduction in fatal and

injury crashes



Source: Safety Effects of the SafetyEdge...

SafetyEdge_{su} technology shapes the edge of the pavement at approximately 30 degrees from the pavement cross slope during the paving process. This systemic safety treatment eliminates the vertical drop-off at the pavement Cross-section view of an overlay with Safety Edge edge, allowing drifting

New graded New overlay with Safety Edge Old graded Old pavement

vehicles to return to the pavement safely. It has minimal effect on asphalt pavement project cost with the potential to improve pavement life.

Vehicles may leave the roadway for various reasons, ranging from distracted driver errors to low visibility, or to the presence of an animal on the road. Exposed vertical pavement edges can cause vehicles to be unstable and prevent their safe return to the roadway. SafetyEdge, gives drivers the opportunity to return to the roadway while maintaining control of their vehicles.

For both SafetyEdge,, and traditional edge, agencies should bring the adjacent shoulder or slope flush with the top of the pavement. Since over time the edge may become exposed due to settling, erosion, and tire wear, the gentle slope provided by SafetyEdge, is preferred versus the traditional vertical pavement edge.

Transportation agencies should develop standards for implementing SafetyEdge, on all new asphalt paving and resurfacing projects where curbs are not present, while encouraging standard application for concrete pavements.

SafetyEdge_{su} adds nominal cost to repaying a road.

Calculated benefit-cost ratios typically range between

500-1400

Source: Safety Effects of the SafetyEdge ...

Rural road crashes involving edge drop-offs are

2 to 4 times

more likely to include a fatality than other crashes on similar roads.

Source: S.L. Hallmark, et al., Safety Impacts of Pavement Edge Dropoffs, (Washington, DC: AAA Foundation for Traffic Safety: 2006), p 93.

→ For more information on this and other FHWA Proven Safety Countermeasures, please visit https://safety.fhwa.dot.gov/provencountermeasures

FHWA-SA-17-062

Safe Roads for a Safer Future







U.S. Department of Transportation Federal Highway Administration

PROVEN SAFETY COUNTERMEASURES



Left and Right Turn Lanes at Two-Way Stop-Controlled Intersections

SAFETY BENEFITS:

LEFT-TURN LANES 28-48%

Reduction in total crashes

RIGHT-TURN LANES 14-26%

Reduction in total crashes



Source: Highway Safety Manual





prior to a turn, as well as for storage of vehicles that are stopped and waiting for the opportunity to complete a turn.

While turn lanes provide measurable safety and operational benefits at many types of intersections, they are particularly helpful at two-way stop-controlled intersections. Crashes occurring at these intersections are often related to turning maneuvers. Since the major route traffic is free flowing and typically travels at higher speeds, crashes that do occur are often severe. The main crash types include collisions of vehicles turning left across opposing through traffic and rear-end collisions of vehicles turning left or right with other vehicles following closely behind. Turn lanes reduce the potential for these types of crashes.

Installing left-turn lanes and/or right-turn lanes should be considered for the major road approaches for improving safety at both three- and four-leg intersections with two-way stop control on the minor road, where significant turning volumes exist, or where there is a history of turn-related crashes. Pedestrian and bicyclist safety and convenience should also be considered when adding turn lanes at an intersection.



→ For more information on this and other FHWA Proven Safety Countermeasures, please visit https://safety.fhwa.dot.gov/provencountermeasures

FHWA-SA-17-053





