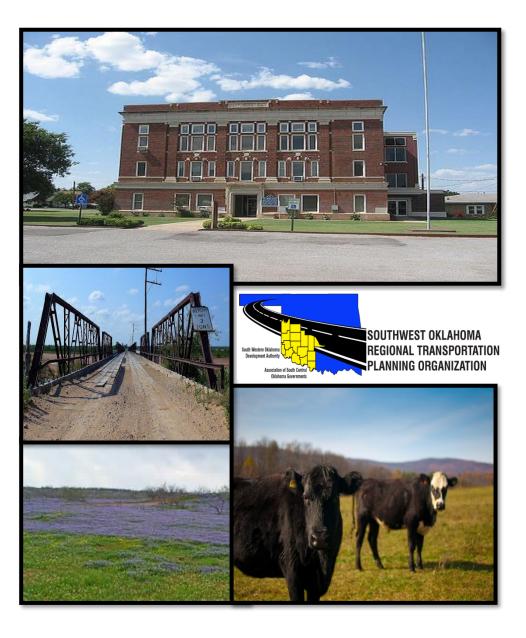
# HARMON COUNTY OKLAHOMA

# 2040 LONG RANGE TRANSPORTATION PLAN



#### Southwest Oklahoma Regional Transportation Planning Organization

Prepared by: South Western Oklahoma Development Authority

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In cooperation with:
Cities and Towns of Harmon County
Harmon County
Oklahoma Department of Transportation
Federal Highways Administration
South Western Oklahoma Development Authority

Publication of this document was financed in part by funds provided by the United States Department of Transportation, Federal Highway Administration. The provision of federal financial assistance should not be construed as denoting U.S. Government approval of plans, policies, programs or projects contained herein.

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#### Resolution No. <u>201</u>7-2 Adopting the Harmon County 2040 Long Range Transportation Plan

Whereas, the South Western Oklahoma Development Authority by Resolution 09-04 created the Southwest Oklahoma Regional Transportation Planning Organization (SORTPO); and

Whereas, through a Resolution 16-06 the South Western Oklahoma Development Authority expanded the regional transportation planning area to include the Association of South Central Oklahoma Governments (ASCOG), and

Whereas, SORTPO is tasked with developing a regional long range transportation plan; and  $% \left( 1\right) =\left( 1\right) \left( 1\right)$ 

Whereas, the long range transportation plan establishes goal and transportation strategies addressing the region's needs; and

Whereas, the Harmon County 2040 Long Range Transportation Plan (LRTP) was prepared by SORPTO consultation with member local and state governments and local, state and federal transportation agencies; and

Whereas, the Plan has been presented to the general public for review and comment in accordance with the SORTPO Public Participation Plan in addition to the series of public meetings between October 2016 and September 2017 and the Plan was posted on the SORTPO website for public review and comment; and

Whereas, the Plan has been prepared in accordance with all relative state and federal rules and regulations.

NOW, THEREFORE BE IT RESOLVED, that the SORPTO Policy Board hereby approves and adopts the Harmon County 2040 Long Range Transportation Plan.

Approved and Adopted by SORTPO Policy Board and signed this 28th day of September, 2017.

Lyle Miller, Chairman SORTPO Policy Board

ATTEST:

Anita Archer, Secretary SORTPO Policy Board

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# **Executive Summary**

In 1970, Oklahoma's governor established eleven (11) sub-state planning districts. Subsequently, the local governments served by the planning districts created the eleven (11) Councils of Governments (COGs) using the sub-state planning district boundaries. These districts make up the Oklahoma Association of Regional Councils (OARC). South Western Oklahoma Development Authority (SWODA) and the Association of South Central Oklahoma Governments are two of the eleven (11) COGs.

In April 2012, the Oklahoma Department of Transportation (ODOT) entered

into an agreement with OARC to oversee development of the regional transportation planning process and the regional public participation process in the non-metropolitan areas of the state. Three councils of governments were selected as



pilot projects: SWODA, NODA and COEDD. SWODA on October 13<sup>th</sup>, 2009 by Resolution 09-04 (Appendix A) created the Southwest Oklahoma Regional Transportation Planning Organization (SORTPO) and was tasked with the responsibility of developing a regional plan that included preparation of eight (8) county plans. In Federal Fiscal Year (FFY) 2016, through a collaborative effort involving SORTPO, the Association of South Central Oklahoma Governments (ASCOG) and the ODOT a transportation planning pilot project comprising sixteen counties was initiated representing two Councils of Governments: SWODA and ASCOG. The SWODA Board of Trustees adopted Resolution 16-06 (Appendix B) amending the SORTPO region (Map 1.1).

Total population for SORTPO according to the 2010 U.S. Census Bureau was 416,257. Population data obtained from the 2011- 2015 ACS estimates the population has increased to 422,165. Although much of the region is comprised of large tracts of farming and agriculture lands there are multiple areas that contain urbanized areas that feature regional medical facilities, universities, military installations and governmental offices. Each county in the region although a separate entity as far as governmental services the counties are linked through commerce, employment and regional transportation. Population growth and shifts for the SORPTO region are dependent on many factors depending on a county.

All aspects of the planning process are overseen by the SORTPO Policy Board. The SORTPO Technical Committee serves as the advisory group for transportation planning and policy initiatives. This committee reviews transportation planning work efforts and provides a recommendation to the SORTPO Policy Board for their consideration and action. The day-to-day activities of SORTPO are supported by a by staff located in the SWODA (Burns Flat) and ASCOG (Duncan) offices. Staff, equipment, supplies, rent, consulting

studies, and other expenses used to support staffing operations are reimbursable to SORTPO through ODOT by the FHWA State Planning & Research (SPR) program funds. SORTPO is reimbursed up to 80% of the total amount of the work effort as detailed in the Planning Work Program and the local match of 20% is provided by SWODA and ASCOG.

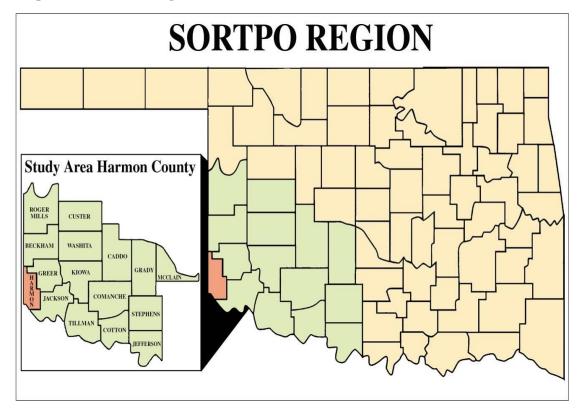
Harmon County is in western (Map ES1) Oklahoma on the west boundary of the SWODA region and covers 904 square miles. In 2010-2014, American Community Survey (ACS), the county population was two thousand eight hundred and sixty-nine (2,869) resulting in a population density of (6) people per square mile. The county includes two (2) areas designated as a city or town, the largest being the town of Hollis.

- The town of Hollis encompasses 1.4 square miles, with a population of two thousand and twenty-five (2,025) (2010-2014 ACS). Located in the southwest corner of the county, Hollis is approximately 36 miles southwest of the Greer County line and approximately 20 miles from the west corner of Jackson County. Hollis is the County seat of Harmon County, and is like Mangum in industry and occupational averages, but there is higher employment in the agriculture industry.
- The second largest town (by population) is the town of Gould, with a land area of 0.4 square miles and a population of one hundred thirtynine (139) 2010-2014 ACS. The primary industries are agriculture.

# **Regional Transportation Planning**

Regional transportation planning is a collaborative process designed to foster participation by all interested parties such as business communities, community groups, elected officials, and the general public through a proactive public participation process. Emphasis by the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) is placed on extending public participation to include people who have been traditionally underserved by the transportation system and services in the region. The purpose if the transportation system is to move people and goods in the safest and most efficient manner possible. SORTPO envisions the transportation system as a critical element of the quality of life for the citizens. A regional approach to long range transportation planning is necessary because of the rural nature and diverse characteristics of the population in Oklahoma. Transportation systems, both highway and transit, must safely, efficiently and effectively allow citizens to travel to work and to conduct their personal lives. Transportation systems must further provide for the efficient movement of goods to markets to support the county's economic vitality. Additionally, transportation decisions should carefully consider and reflect environmental and community concerns.

**Map ES1: SORTPO Region** 



Source: SWODA

Transportation planning is a process that develops information to help make decisions on the future development and management of transportation systems. It involves the determination of the need for new or expanded roads, transit systems, freight facilities and bicycle/pedestrian facilities their location, their capacity and the future needs. The process of developing the LRTP provides an opportunity for participating in the planning of the future transportation system. The process allows the community to focus their attention on transportation in the context of Jackson County as well as the SORTPO region. The LRTP was developed within the regulatory framework of Moving Ahead for Progress in the 21st Century Act (Map-21) and the Fixing America's Surface Transportation Act (FAST Act). The LRTP establishes the goals, objectives and transportation strategies for addressing the region's transportation needs. This planning process follows the three "c's" identified by federal transportation regulations: continuing, cooperation and comprehensive.

# Purpose of Plan

The 2040 Harmon County LRTP is a document used by the county, cities, towns, agencies, businesses and residents as a guide to maintain and improve the region's transportation system through 2040. The year 2040 was chosen as the planning horizon year for the LRTP because it allows the local governments and participating agencies to plan for long range solutions to anticipated needs.

The LRTP is an important tool and assists communities in focusing their limited funds on projects that give them the best value and benefit for funding. The purpose of the long-range transportation plan is to direct investment of available resources toward meeting the region's highest priority needs. The needs are determined by comparing the plan's objectives, "What do we want to accomplish over the life of the plan?" with current conditions and forecasts, "Where are we starting, and how are demographics and economics expected to change?" The projects and policies that are included in the LRTP the plan arise from the needs and those needs also span the twenty-year planning period.

#### **Key Issues, Challenges and Trends**

Rural communities have problematic transportation areas even if they do not experience congestion. Understanding the true nature of the problem at these locations and developing a plan to address them is an important part of rural planning. Unanticipated changes may happen that can have impacts on a city, town, county or region. There are many issues facing the area that have a direct or indirect impact on the transportation system.

There are many issues facing the area that have a direct or indirect impact on the transportation system. This section is intended to identify these issues, trends and challenges. At the onset of the transportation planning process, the SORTPO staff, policy board and technical committee members identified key issues, trends and challenges that impact the transportation system. Key issues, challenges and trends were also identified through public surveys (Appendix 5.2), stakeholder meetings, public comments, other plans, data sources, and reports.

#### **Key Issues:**

- Maintain access to healthcare and emergency services.
- Lack of Transit Services.
- Forced school consolidation due to state of the State's flat revenues and multiple year budget cuts.
- Lack of shoulders on 2 lane highways.
- Urban versus rural mindset.
- Lack of funding to adequately maintain roadway systems and bridges.
- Problematic traffic issue locations (areas with high accidents, intersections, truck generators).

#### **Challenges:**

- Age of infrastructure.
- Attracting workforce to support the employment needs.
- Access to affordable to high speed internet.
- Working together regionally to attract/maintain workforce, industry and community

- Funding limitation revenues continue to be limited to meet the transportation system needs over time.
- Maintain access to health and related services.
- Lack of system to reevaluate how, when and where new roads are built versus investment in upgrade to the existing road system.

#### **Trends:**

- Population declines in the rural areas.
- Freight traffic will grow.
- The population is aging.
- Motor vehicles will continue to be the primary means of transportation.
- The energy sector and farming community will continue to rely heavily on trucks in rural areas.
- Technology impact on retail, employment and how medical services are obtained.
- Autonomous vehicle technology.
- State of Oklahoma's budget negative impact on rural communities.

Data collected from community members and through public meetings were used to identify local transportation projects and areas of concern (Table ES1). Table ES2 includes a list of projects through the year 2040. The table includes projects identified in ODOT's 8 Year Construction Work Program 2017-2024, Asset Preservation Plan 2017-2020, CIRB 2017-2021 and potential projects funded by SPR funds. Other projects include development of studies, plans, and collection of data that can be included in SORTPO's Planning Work Program (PWP).

Table ES1: Harmon County Locally Funded Transportation Projects and Areas of Concern

CITY/TOWN	LOCATION	DESCRIPTION
Hollis	Broadway	Sidewalk repairs
Hollis	At the stop light of Broadway/ Hwy 30	Resurface road north for eight miles

Source: SORTPO

Table ES2: Harmon County Recommended Transportation Projects, ODOT

LOCATION	YEAR	DESCRIPTION	FUNDING
Harmon County	2017- 2021	Develop a clearinghouse for regional data sets, such as pavement management systems and geographic information systems.	SPR/LOCAL
Harmon County	2017- 2021	Conduct a freight assessment for the county.	SPR/LOCAL

LOCATION	YEAR	DESCRIPTION	FUNDING	
Harmon County	2017- 2021	Develop a system to collect and monitor changes in population, employment, and major employers by Traffic Analysis Zone (TAZ).	SPR/LOCAL	
Harmon County	2017- 2021	Develop data collection standards.	SPR/LOCAL	
Harmon County	2017- 2021	Establish procedures that enhance the consultation and coordination of transportation planning with local, regional, state and tribal government representatives.	SPR/LOCAL	
Harmon County	2017- 2021	Conduct study at intersection locations with high accident severity index and corridors with major attractors.	SPR/LOCAL	
HARMON RESURFACE	2017- 2021	SH-30 BEGIN AT THE US-62 JCT AND EXT NORTH 8.0 MILES.	\$1,459,083	
HARMON 27898(04)	2017- 2021	SH-30: OVER ELM FORK OF THE RED RIVER, 7.6 MI NORTH OF SH-9	\$4,900,000	
HARMON 28768(04) FFY 2017 BRIDGE & APPROACHES	2017- 2021	SH-30: OVER SALT FORK OF RED RIVER, 11.2 MI NORTH OF US- 62NEEDS TO STAY 100% STATE FUNDED.	\$8,053,000	
HARMON RESURFACE	2017- 2021	US-62 BEGIN AT THE TEXAS STATE LINE AND EXTEND EAST TO 1.0 MILE EAST OF SH-30 JCT. (DEL FR 01-16, ADD TO 06- 16; BID REJECT)	\$2,069,886	
HARMON 31825(05) RIGHT OF WAY	2017- 2021	SH-30: REPLACE THIRTEEN WOODEN ROADWAY SIZE BOXES, VARIOUS LOCATIONS BETWEEN US-62 & SH-9. (RW FOR 04)	\$10,000.00	
HARMON 31825(06) UTILITIES	2017-2021	SH-30: REPLACE THIRTEEN WOODEN ROADWAY SIZE BOXES, VARIOUS LOCATIONS BETWEEN US-62 & SH-9. (RW FOR 04) VARIOUS LOCATIONS BETWEEN US-62 & SH-9. (RW FOR 04)	\$10,000.00	

LOCATION	YEAR	DESCRIPTION	FUNDING
HARMON 31825(04) GRADE, DRAIN & SURFACE	2022- 2026	SH-30: REPLACE THIRTEEN WOODEN ROADWAY SIZE BOXES, VARIOUS LOCATIONS BETWEEN US-62 & SH-9.	\$1,500,000
HARMON 28710(06) RIGHT OF WAY	2017- 2021	CO RD(EW-169) BEG @ SH-5 & EXTEND WEST APPROX 5.0 MILE & NORTH APPROX 2.0 MILE ON NS-174 (RW FOR 28710(04))	\$100,000
HARMON 28710(07) UTILITIES	2017- 2021	CO RD(EW-169) BEG @ SH-5 & EXTEND WEST APPROX 5.0 MILE & NORTH APPROX 2.0 MILE ON NS-174 (UT FOR 28710(04))	\$250,000
HARMON 28710(04) WIDEN & RESURFACE	2017- 2021	CO RD(EW-169) BEG @ SH-5 & EXTEND WEST APPROX 5.0 MILE & NORTH APPROX 2.0 MILE ON NS-174	\$4,800,000
Harmon County	2022	Develop method to track the implementation of projects and regularly update the public on the status of projects, programs and finances.	SPR/LOCAL
Harmon County	2022 - 2026	Identify the locations of major employment centers, including existing and proposed developments and identify types of transportation available.	SPR/LOCAL
Harmon County	2022 - 2026	Working with area employers and stakeholders develop a database and map identifying transportation needs.	SPR/LOCAL
Harmon County	2022 - 2026	Develop database and mapping to identify the County's underrepresented.	SPR/LOCAL
Harmon County	2027- 2031	Develop a data file and create a map identifying location of wind farms and pipelines and relationship to communities and the transportation system.	SPR/LOCAL
Harmon County	2027- 2031	Develop a regional map that identifies tourism destinations and regionally significant facilities.	SPR/LOCAL

LOCATION	YEAR	DESCRIPTION	FUNDING
Harmon County	2027- 2031	Collect and routinely analyze safety and security data by mode and severity to identify changes and trends.	SPR/LOCAL
Harmon County	2032- 2036	Collect and routinely analyze safety and security data by mode and severity to identify changes and trends.	SPR/LOCAL
Harmon County	2032- 2036	Conduct study at intersection locations with high accident severity index and corridors with major attractors.	SPR/LOCAL
Harmon County	2037- 2040	Collect and routinely analyze safety and security data by mode and severity to identify changes and trends.	SPR/LOCAL
Harmon County	2037- 2040	Conduct study at intersection locations with high accident severity index and corridors with major attractors.	SPR/LOCAL

Source: ODOT, SORTPO

The 2040 Harmon County LRTP provides a strategic framework to ensure that the multiple agencies work continuously, cooperatively, and comprehensively to implement the Plan in a coordinated fashion. Public input is an important aspect of the transportation planning process. Please visit <a href="www.SORTPO.org">www.SORTPO.org</a> for more information about the RTPO and to view the full LRTP. For more information on the 2040 Harmon County Long Range Transportation Plan, please contact:

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Burns Flat, OK 73624
580-562-4882 ext.118
becky@swoda.org
or visit www.sortpo.org

# **Chapter 1: Introduction, Goals and Key Issues**

#### **History**

In 1970, Oklahoma's governor established eleven (11) sub-state planning districts. Subsequently, the local governments served by the planning districts created the eleven (11) Councils of Governments (COGs) using the sub-state planning district boundaries. These districts make up the Oklahoma Association

of Regional Councils (OARC). South Western Oklahoma Development Authority (SWODA) is one (1) of the eleven (11) COGs.

In April 2012, the Oklahoma Department of Transportation (ODOT) entered into an agreement with OARC to oversee development of the regional



transportation planning process and the regional public participation process in the non-metropolitan areas of the state. Three councils of governments were selected as pilot projects: SWODA, NODA and COEDD. SWODA on October 13<sup>th</sup>,2009 by Resolution 09-04 (Appendix A) created the Southwest Oklahoma Regional Transportation Planning Organization (SORTPO) and was tasked with the responsibility of developing a regional plan that included preparation of eight (8) county plans. In Federal Fiscal Year (FFY) 2016, through a collaborative effort involving SORTPO, the Association of South Central Oklahoma Governments (ASCOG) and the ODOT a transportation planning pilot project comprising sixteen counties was initiated representing two Councils of Governments: SWODA and ASCOG. The SWODA Board of Trustees adopted Resolution 16-06 (Appendix B) amending the SORTPO region (Map 1.1).

Total population for SORTPO according to the 2010 U.S. Census Bureau was 416,257. Population data obtained from the 2011- 2015 ACS estimates the population has increased to 422,165. Although much of the region is comprised of large tracts of farming and agriculture lands there are multiple areas that contain urbanized areas that feature regional medical facilities, universities, military installations and governmental offices. Each county in the region although a separate entity as far as governmental services the counties are linked through commerce, employment and regional transportation. Population growth and shifts for the SORPTO region are dependent on many factors depending on a county. Jackson County's deviation in the population and employment patterns are attributed to Altus Air Force Base and related services.

All aspects of the planning process are overseen by the SORTPO Policy Board. The SORTPO Technical Committee serves as the advisory group for transportation planning and policy initiatives. This committee reviews transportation planning work efforts and provides a recommendation to the SORTPO Policy Board for their consideration and action. The day-to-day

activities of SORTPO are supported by a by staff located in the SWODA (Burns Flat) and ASCOG (Duncan) offices. Staff, equipment, supplies, rent, consulting studies, and other expenses used to support staffing operations are reimbursable to SORTPO through ODOT by the FHWA State Planning & Research (SPR) program funds. SORTPO is reimbursed up to 80% of the total amount of the work effort as detailed in the Planning Work Program and the local match of 20% is provided by SWODA and ASCOG.

Study Area Harmon County

Study Area Harmon County

BECKBAM WASHITA

CADDO

GRADY

MCCLAR

STEPHENS

COMANCHE

STEPHENS

CONTON HETERSON

**Map 1.1: SORTPO Region** 

Source: SWODA

# **Regional Transportation Planning**

Regional transportation planning is a collaborative process designed to foster participation by all interested parties such as business communities, community groups, elected officials, and the general public through a proactive public participation process. Emphasis by the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) is placed on extending public participation to include people who have been traditionally underserved by the transportation system and services in the region. The purpose if the transportation system is to move people and goods in the safest and most efficient manner possible. SORTPO envisions the transportation system as a critical element of the quality of life for the citizens.

A regional approach to long range transportation planning is necessary because of the rural nature and diverse characteristics of the population in Oklahoma. Transportation systems, both highway and transit, must safely, efficiently and effectively allow citizens to travel to work and to conduct their personal lives. Transportation systems must further provide for the efficient movement of goods to markets to support the county's economic vitality. Additionally, transportation decisions should carefully consider and reflect environmental and community concerns.

Transportation planning is a process that develops information to help make decisions on the future development and management of transportation

systems. It involves the determination of the need for new or expanded roads, transit systems, freight facilities and bicycle/pedestrian facilities their location, their capacity and the future needs. The process of developing the LRTP provides an opportunity for participating in the



planning of the future transportation system. The process allows the community to focus their attention on transportation in the context of Jackson County as well as the SORTPO region. The LRTP was developed within the regulatory framework of Moving Ahead for Progress in the 21st Century Act (MAP-21) and the Fixing America's Surface Transportation Act (FAST Act). The LRTP establishes the goals, objectives and transportation strategies for addressing the region's transportation needs. This planning process follows the three "c's" identified by federal transportation regulations: continuing, cooperation and comprehensive.

# Purpose of Plan

The 2040 Harmon County LRTP is a document used by the county, cities, towns, agencies, businesses and residents as a guide to maintain and improve the region's transportation system through 2040. The year 2040 was chosen as the planning horizon year for the LRTP allows the local governments and participating agencies to plan for long range solutions to anticipated needs.

The plan is an important tool and assists communities in focusing their limited funds on projects that give them the best value and benefit for funding. The purpose of the long-range transportation plan is to direct investment of available resources toward meeting the region's highest priority needs. The needs are determined by comparing the plan's objectives, "What do we want to accomplish over the life of the plan?" with current conditions and forecasts, "Where are we starting, and how are demographics and economics expected to change?" The projects and policies that are included in the LRTP the plan arise from the needs and those needs also span the twenty-year planning period.

A key concept that underlies the discussion of needs is affordability. With limited fiscal resources, every jurisdiction that owns and operates part of the countywide transportation system must consider what they can afford to operate and maintain into the future. People of all ages are making different decisions about where they choose to live, and what constitutes a positive quality of life. Appendix 5.2 illustrates survey results obtained during the planning process. Survey Question 9 includes



information on the importance of selected transportation components in Harmon County. Three components received the highest rating: maintenance improvements, intersection improvements and connection to US and State Highways. When selecting projects survey respondents indicated in Question 10 a higher preference for projects that improve safety, supports economic development, reduces congestion, improve shoulders and improve pedestrian and bicycle facilities.

As a means of achieving the successful implementation of the LRTP, the plan has been developed in five-year increments. The five-year increment format will offer realistic goals in Chapter 6 relative to the LRTP's short range implementation activities. The incremental approach also provides a reasonable opportunity in scheduling state and /or federally funded transportation improvements within the county.

# Relationship and Requirements with State and Federal Agencies

The 2040 LRTP was developed in cooperation and in collaboration with municipal, county governments, transit providers, ODOT and the Federal Highway Administration (FHWA). The plan is the culmination of a continuing, cooperative, coordinated and comprehensive planning effort among the federal, state and local governments directed by SORTPO that provides for consideration and implementation of projects, strategies and services that should address the planning factors identified in The Moving Ahead for Progress in the 21st Century Act (MAP-21) and the Fixing America's Surface Transportation Act (FAST) was signed into law in December 2015. The FAST Act added two additional factors for a total of ten (Table 1.1), which SORTPO should strive to address through their LRTP planning process.

#### **Table 1.1: Planning Factors**

1. Support the economic vitality of the United States, the States, nonmetropolitan areas, and metropolitan areas, especially enabling global competitiveness, productivity and efficiency.

- 2. Increase the safety of the transportation system for motorized and non-motorized users.
- 3. Increase the security of the transportation system for motorized and non-motorized users.
- 4. Increase accessibility and mobility of people and freight.
- 5. Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic patterns.
- 6. Enhance the integration and connectivity of the transportation system across and between modes, people and freight.
- 7. Promote efficient system management and operation.
- 8. Emphasize the preservation of the existing transportation system.
- 9. Improve the resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation.
- 10. Enhance travel and tourism

Source: 23 USC Section 23 U.S.C 135 (d)(1)

In addition, The FAST Act continues Map-21 requirement to State Departments of Transportation and Metropolitan Planning Organizations to use a performance-based approach to support seven (7) national goals for the transportation system. This requirement has not been mandated to non-metropolitan areas. Though specific performance measures are not identified in this plan, SORTPO recognizes the significance of such measures and will begin the collection of data needed to establish standards in future (Appendix 1).

# **Goals and Strategies**

The LRTP format follows a hierarchy that includes goals, objectives and strategies to assist Harmon County in planning and prioritization of transportation system projects and studies. The Goals are founded on the principals that the transportation system must serve the needs of its



community today; it must be responsive to change; and it must be affordable for users. Goals are general statements of what we want the future to be like. The goals are used as guiding principles to choose among various options for transportation improvements. Therefore, they should be attainable and realistic. In addition, the goals should relate to present conditions and expected

changes in those conditions. Strategies are statements that provide direction for decisions to help attain these goals and objectives. Table 1.2 identifies the goal categories for the LRTP.

Goals were developed from meetings held with stakeholders, technical committee and policy board meetings. It is important to recognize that many factors influence transportation system performance and transportation is only one component of a community. Economic development, housing, the economy and natural resources also can play a role. Implementing goals is the responsibility of local, county and state governments and the SORTPO. Strategies were developed in coordination with partner agencies. The strategies developed do not fall solely under the responsibility of SORTPO. Local and community agencies should consider their roles in affecting outcomes. It will be necessary to prioritize the strategies and build the data collection and analysis, for those deemed most important, into annual programs, such as the Planning Work Program (PWP).

**Table 1.2: Harmon County Goal Categories** 

	Goal	Description
1.	Accessibility and Mobility (pg. 7)	Improve accessibility and mobility for people and freight.
2.	Awareness, Education and Cooperative Process (pg. 7)	Maintain intergovernmental cooperation and coordination, along with community participation and input in all stages of the transportation planning process.
3.	Freight & Economic Vitality (pg. 8)	Support and improve the economic vitality of the county and region by providing access to economic development opportunities, such as business and industrial access, natural, scenic and historic resources or recreational travel and tourism.
4.	Environment (pg. 8)	Reduce impacts to the county's natural environment, historic areas and underrepresented communities resulting from transportation programs and projects.
5.	Finance & Funding (pg. 8)	Seek and acquire a variety of transportation funding sources to meet the many diverse system needs.
6.	Maintenance and Preservation (pg. 9)	Preserve the existing transportation network and promote efficient system management to promote access and mobility for both people and freight.

Goal	Description
7. Safety & Security (pg. 9)	Improve the safety and security of the transportation system by implementing transportation improvement that reduce fatalities and serious injuries as well as enabling effective emergency management operations.
8. Community & Health (pg.9)	Facilitate development of transportation projects and programs that support economic development and healthy lifestyles in the county and region.
9. Tourism & Travel (pg. 10)	Improve travel opportunities through enhancement and preservation of access to tourism destinations or regionally significant facilities.

#### **Goal 1: Accessibility and Mobility**

Improve accessibility and mobility for people and freight.

#### **Strategies:**

- 1. Identify opportunities to provide transit services to improve access to health care facilities, education facilities, and employment.
- 2. Develop a system to collect and monitor changes in population, employment, and major employers by Traffic Analysis Zone (TAZ).
- 3. Conduct a freight assessment for the county.
- 4. Review transportation improvements and expansion of services to ensure that the facility for one (1) mode of transportation doesn't create barriers for the access or mobility of other modes.

#### **Goal 2: Awareness, Education and Cooperative Process**

Maintain intergovernmental cooperation and coordination, along with community participation and input in all stages of the transportation planning process.

#### **Strategies:**

- 1. Participate on state, regional, and local committees regarding County transportation issues.
- 2. Educate key stakeholders, businesses, local leaders and the public on the purpose and function of SORTPO.
- 3. Annually review the Public Participation Plan.
- 4. Develop a clearinghouse for regional data sets, such as pavement management systems and geographic information systems to help inform sound planning decisions.
- 5. Facilitate and support the coordination of regional training opportunities.
- 6. Develop method to track the implementation of projects and regularly update the public on the status of projects, programs and finances.

7. Facilitate and support the coordination of regional training opportunities.

#### **Goal 3: Freight & Economic Vitality**

Support and improve the economic vitality of the county and region by providing access to economic development opportunities, such as business and industrial access, natural, scenic and historic resources or recreational travel and tourism.

#### **Strategies:**

- 1. Prioritize transportation projects that serve major employment and activity centers, and freight corridors.
- 2. Coordinate transportation planning with adjoining counties, regions and councils of government for transportation needs and improvements beyond those in our region.
- 3. Working with area employers and stakeholders develop a database and map identifying transportation needs.
- 4. Identify and designate routes and connectors with heavy freight movements as freight priority corridors.

#### **Goal 4: Environment**

Reduce impacts to the county's natural environment, historic areas and underrepresented communities resulting from transportation programs and projects.

#### **Strategies:**

- 1. Consult with local, state and national agencies in the areas of environmental protection and historic preservation, in terms of transportation programs and projects.
- 2. Promote proper environmental stewardship and mitigation practices to restore and maintain environmental resources that may be impacted by transportation projects.
- 3. Promote the use of alternative fuels and technologies in motor vehicles, fleet and transit vehicles.
- 4. Develop database and mapping to identify the County's underrepresented communities.
- 5. Support designs of the transportation system that will protect cultural, historic, and scenic resources, community cohesiveness, and quality of life.

#### **Goal 5: Finance and Funding**

Seek and acquire a variety of transportation funding sources to meet the many diverse system needs.

#### **Strategies:**

1. Maximize local leverage of state and federal transportation funding opportunities.

- 2. Increase private sector participation in funding transportation infrastructure and services.
- 3. Encourage multi-year capital improvement planning by local, county, tribal, and state officials that includes public participation, private sector involvement, coordination among jurisdictions and modes and fiscal constraint.
- 4. Assist jurisdictions in finding and applying funds.

#### **Goal 6: Maintenance and Preservation**

Preserve the existing transportation network and promote system management to promote access and mobility for both people and freight.

#### **Strategies:**

- 1. Identify sources of transportation data and develop a procedure to collect the data and present to the public.
- 2. Identify and collect transportation performance data and compare to previous years' data.

#### **Goal 7: Safety and Security**

Improve the safety and security of the transportation system by implementing transportation improvement that reduce fatalities and serious injuries as well as enabling effective emergency management operations.

#### **Strategies:**

- Coordinate with local governments and other agencies to identify safety concerns and conditions, and recommend projects to address key deficiencies.
- 2. Coordinate county and regional actions with the Statewide Highway Safety Plan.
- 3. Collect and routinely analyze safety and security data to identify changes and trends.
- 4. Assist in the designation of corridors and development of procedures to provide for safe movement of hazardous materials.
- 5. Incorporate emergency service agencies in the transportation planning and implementation process.
- 6. Support the Oklahoma Department of Transportation in its plans to add and improve roadway shoulders to two lane highways.
- 7. Develop a data file and create a map identifying location of wind farms, pipelines and relationship to communities and transportation system.

#### **Goal 8: Community & Health**

Facilitate development of transportation projects and programs that support healthy lifestyles in the region.

#### **Strategies:**

1. Integrate healthy community design strategies and promote active

transportation to improve the public health outcomes.

#### **Goal 9: Tourism & Travel**

Improve travel opportunities through enhancement and preservation of access to tourism destinations or regionally significant facilities.

#### **Strategies:**

- 1. Develop a regional map that identifies tourism destinations and regionally significant facilities.
- 2. Establish procedures to increase coordination and communication with local governments, tribal governments and state agencies to identify projects that impact the communities' transportation system.
- 3. Collaborate with local economic development authorities, State and Federal economic development agencies in the identification of current and future transportation projects.

#### **Key Issues, Challenges and Trends**

Rural communities have problematic transportation areas even if they do not experience congestion. Understanding the true nature of the problem at these locations and developing a plan to address them is an important part of rural planning. Unanticipated changes may happen that can have impacts on a city, town, county or region. There are many issues facing the area that have a direct or indirect impact on the transportation system. This section is intended to identify these issues, challenges and trends. At the onset of the transportation planning process with input by the public through surveys and stakeholder meetings, the SORTPO staff, policy board and technical committee members identified key issues, challenges and trends that impact the transportation system. Appendix 5.2 displays the results of the surveys.

#### **Key Issues:**

- Maintain access to healthcare and emergency services.
- Lack of Transit Services.
- Forced school consolidations due to state of the State's flat revenues and multiple year budget cuts.
- Lack of shoulders on 2 lane highways.
- Urban versus rural mindset.
- Lack of funding to adequately maintain roadway systems and bridges.
- Problematic traffic issue locations (areas with high accidents, intersections, truck generators).

#### **Challenges:**

- Competition for medical professionals between urban and rural-
- Age of infrastructure.
- Attracting workforce to support the employment needs
- Access to affordable to high speed internet.

- Lack of funding to adequately maintain roadway systems and bridges.
- Working together regionally to attract/maintain workforce, industry and community
- Funding limitation, revenues continue to be limited to meet the transportation system needs over time.
- Maintain access to health care and emergency services.
- Lack of system to reevaluate how, when and where new roads are built versus investment in upgrade to the existing road system.

#### **Trends:**

- Population is declining in the rural areas.
- Freight traffic will grow.
- The population is aging.
- Motor vehicles will continue to be the primary means of transportation.
- The energy sector and farming community will continue to rely heavily on trucks in rural areas.
- Technology impact on retail, employment and how medical services are obtained.
- Autonomous vehicle technology.
- State of Oklahoma's budget negative impact on rural communities.

# **Chapter 2: Current Conditions**

This chapter provides a "snapshot" of current conditions that relate to transportation in Harmon County. Demographics, economic conditions, environmental factors, community development and transportation and traffic

data each provides information for transportation planning. Harmon County is located southwestern Oklahoma (Map 2.1). The county is bordered by Greer County/Beckham County to the northeast, Jackson county to the east, the state of Texas on the west, and the Red River (Texas) on the south. The county lies in the Gypsum Hills physiographic region, it is drained by Red River and its tributaries, the Salt and Elm Forks on the Red River



and Lebos and Turkey Creek. The County is predominately rural, with the majority of the population being within the incorporated cities of Hollis and Gould.

#### **History**

Harmon County encompasses 538 square miles of land and water. This County was created on June 2, 1909 by a proclamation of the Governor. The County area had been a part of Texas until the US Supreme Court awarded the land to Oklahoma Territory in 1896. In 1930, the U.S. Supreme Court ruled that the boundary between Texas and Oklahoma was 3,800 feet farther east than originally believed and the dispute land was returned to Texas. In 1910 the Altus, Wichita Falls and Hollis Railway (later the Missouri, Kansas and Texas Railroad) constructed a line from Altus (Jackson County) to the Oklahoma-Texas state line passing through Hollis and Gould. This railline is no longer in operation. Located in the county are four highways that provide connection to communities, surrounding counties and Texas: US Highway 62 traverses the county east and west connecting Hollis, Gould and McQueen, State Highway 5 runs north and south and connects Gould with Lincoln in Jackson County, State Highway (SH) 9 crosses the northern part of the county and, State Highway 30 runs north and south and connects Hollis with interstate 40 to the north. Data obtained from the 2011-2015 American Community Survey (ACS), reveals the county population was two thousand eight hundred sixty-six (2,866) resulting in a population density of 5 people per square mile. Population estimate for 2010-2014 was two thousand eight hundred eighty-three (2,883).

The County Seat is the town of Hollis. Located in Hollis is the county courthouse, completed in 1926 and added to the National Register of Historic Places (NR 84003031). Other sites included on the National Register of Historic Places

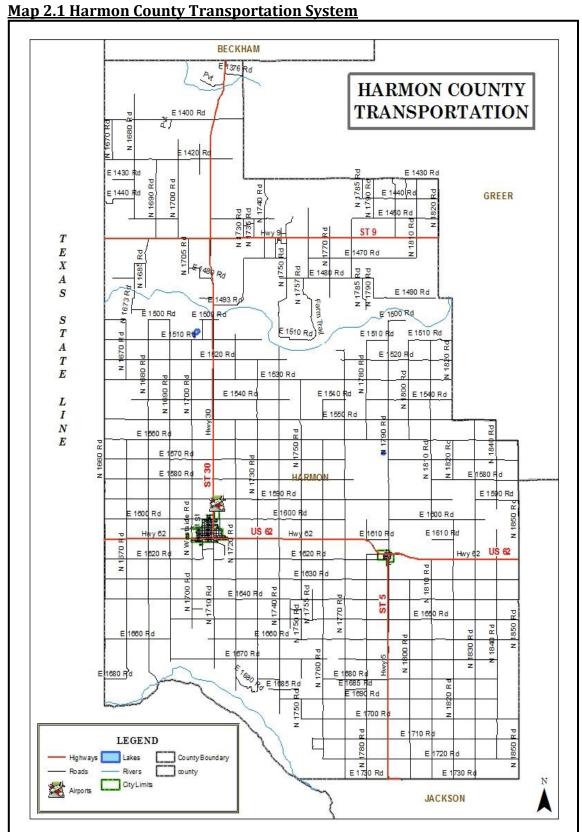
include: City Hall, Jail and United States Post Office. The Community Building in Gould is listed on the National Register of Historic Places.

The county includes the towns of Hollis and Gould:

- ➤ Hollis is located 5 miles east of the Texas state lane at the intersection of US Highway 62 and State Highway 30. This city is thirty-five miles west of Altus on U.S. Highway 62 and thirty-seven miles south of interstate 40 on State Highway 30. Hollis is the county seat for Harmon County and is the largest community. The 2010-2014 ACS population for Hollis population was 2,060. Agriculture such as cotton, wheat, peanuts and livestock are Hollis's major economy base.
- ➤ Gould is located at the intersection of US Highway 62 and State Highway 5. The 2010 US Census population for Gould population was 141. The 2010-2014 ACS estimated population at 171. Gould's economy is surrounded by farming and ranching.
- ➤ Harmon County is also home to the following non-incorporated communities of Vinson, Madge, McKnight, and McQueen.

As the population fluctuates, either through economic changes, in or out migration or shifting within the region the needs of the communities including education, health care, social services, employment, and transportation remain relatively stable. Land use and development changes that particularly affect transportation in rural areas include, but are not limited to, loss or gain of a major employer, movement of younger sectors of the population to more urban areas, tribal land development and investment. Transportation is crucial to keeping older adults independent, healthy and connected to friends, family, recreation, shopping and health services. However, older residents' transportation needs differ based on their health, income, marital status, age, race and whether they live in a city, town or rural county area. The needs of this segment of the population will continue to influence the transportation needs and services for this region

Harmon County's population continues to decline as indicated in Table 2.1. The decline is attributed to out-migration, deaths and lack of new industry or businesses locating in the County. The County's 2010-2014 ACS population is distributed between male (46.5%) and female (53.5%) with a median age of 41.2 years of age. Largest concentration of population is between the ages of 20-54 (37%) while the population for ages 19 years and under include 28% of the population and the population age 60 years old and over represent 25.1% of the county's population.



Source: SORTPO

Table 2.1: Harmon County Population 1980-2014 Estimate

	1980	1990	2000	2010	2010-2014 ACS ESTIMATED POPULATION
Hollis	2,958	2,584	2,264	2,060	2,061
Gould	318	237	206	141	171
Balance of Harmon County	1,243	972	813	721	651
Harmon County	4,519	3,793	3,283	2,922	2,883

Source: American Fact Finder

Information obtained from the 2010-2014 ACS provides facts on the makeup of the county. Below is information obtained from the 2010-2014 ACS. Additional demographic data can be found in Appendices 2.1 – 2.7.

- This is data from Harmon County
  - o Total Housing Units 1,550
  - o Occupied Housing Units 1,175
  - Owner Occupied Units 795
  - o Renter Occupied Units -380
  - o 94.6% of housing units are single family detached
  - o 1.8% of housing units are mobile home or other type
- Educational Attainment population 25 years and Older
  - High School Graduate 28.6%
  - o Some College -22.9 %
  - o Bachelor's Degree -13.0 %
- Commute Patterns to Work Age 16 years and Older
  - o Car, truck or van -77
  - o Public Transportation -0
  - o Walked 14
  - o Other Means 17
  - Worked at Home –36
- Industry
  - Agriculture and forestry –177
  - Construction 110
  - o Retail Trade 100
  - Educational Services –286
  - Public Administration 85

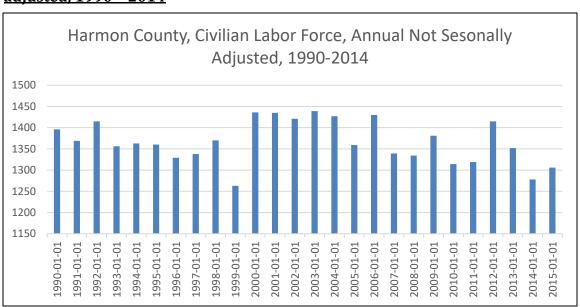
Civilian labor forces data 1990-2015 is illustrated in Figure 2.1. The information portrayed in this graph developed by Federal Reserve Bank illustrates the fluctuation in the Harmon County Civilian Labor Force. Figure 2.2 illustrates the Civilian Labor Force Not Adjusted Seasonally. Comparing the

data in Figure 2.1 and 2.2 there are similarities in the employment growth between 1990-2015. Figure 2.3 illustrates 2011-2015 Harmon County Health Care retail, finance and other services were the businesses with the greatest number of employees.



Figure 2.1: Harmon County, Civilian Labor Force 1990 - 2015

Source: US. Bureau of Labor Statistics. Release: Unemployment in States and Local Areas (all other areas) Growth Rate Calculations | US recession dates



<u>Figure 2.2: Harmon County, Civilian Labor Force, Annual not seasonally adjusted, 1990 - 2014</u>

Source: Bureau of Labor Statistics

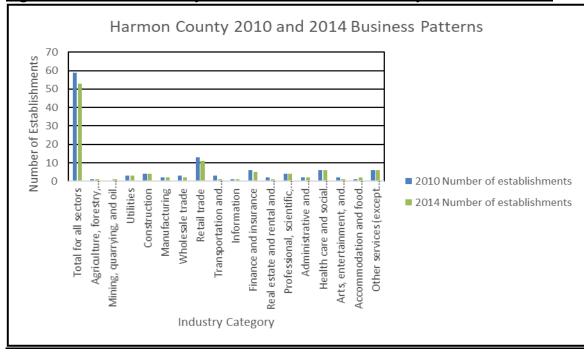


Figure 2.3: Harmon County, 2010 & 2014 Harmon County Business Pattern

Source: US Census Statistics

Figure 2.4 provides information related to vehicle registration data obtained from the Oklahoma Tax Commission (OTC). Automobile and farm truck registration between 2011 and 2015 remain stable. The 2010-2014 ACS

population estimate of two thousand eight hundred eighty-three (2,883) when compared to vehicle registration supports the continuing trend of multiple vehicle ownership. Data obtained from the 2010-2014 ACS reveals that 91.7% of the population had access to at least one vehicle; while 8.3% of the population did not have access to a vehicle. Commute patterns to work for Workers 16 years and older according to the 2010-2014



ACS identify that 86.9 % workers drove alone, 7.0% carpooled, and 3.3% worked at home. Mean travel time was estimated at 16.2 minutes.

# **Traffic Analysis Zones**

The Traffic Analysis Zone (TAZ) Program is a specialized computer program used for delineating zones in support of the Census Transportation Planning Products (CTPP). TAZ delineation follows the decennial census and is designed to allow planning agencies the ability to define areas to associate demographic data that supports transportation system analysis. Boundaries of a TAZ typically follow U.S. Census boundaries and are an aggregation of several census blocks. Data for the plan was obtained from the 2010 U.S. Census Bureau, ACS and Oklahoma Department of Commerce. The year 2015 is the base year for the plan and 2011-2015 ACS was used as the base population.

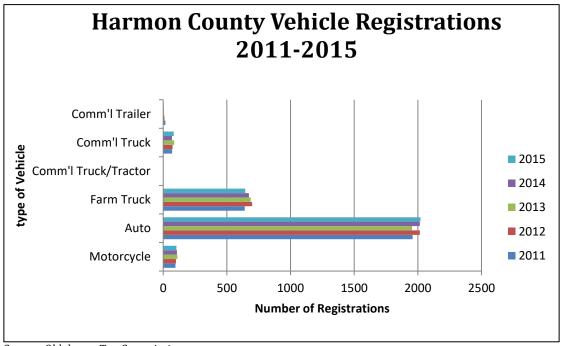
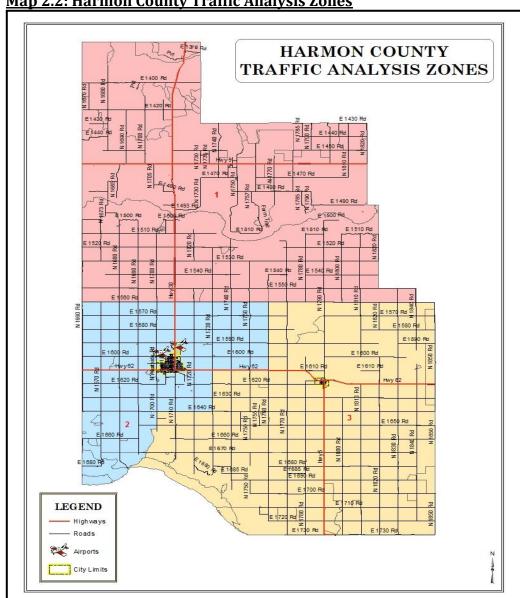


Figure 2.4: Harmon County Vehicle Registration, 2011-2015

Source: Oklahoma Tax Commission

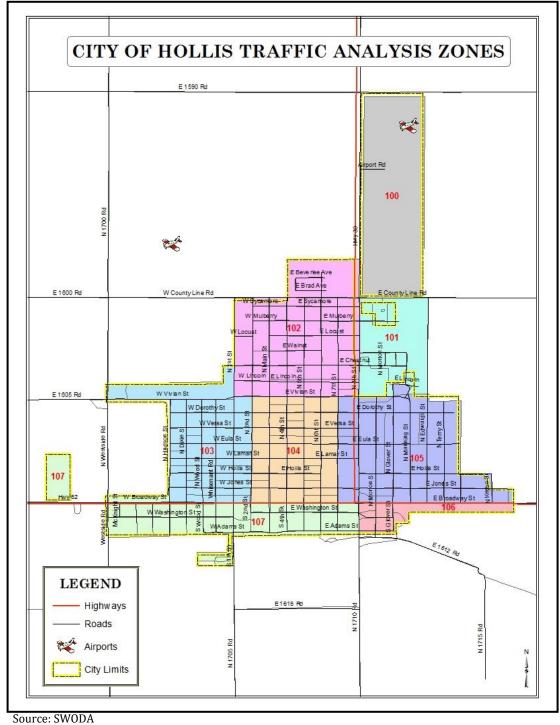
TAZ delineation for the areas other than Metropolitan Planning Organizations (MPO) are the responsibility of ODOT. Historically in non-MPO areas the TAZ boundary defaulted to the census tract boundary. This makes the process of maintaining and updating socioeconomic data much easier. However, utilizing this default for the plan did not provide SORTPO with transportation data that met the needs of the planning process. SORTPO staff reviewed the existing TAZ boundaries and after analysis of data, community boundaries and TAZ guidelines new boundaries were drafted. The revised TAZ boundaries were based on the population thresholds of 200 to 400 and employment thresholds of 300. In the future SORTPO will work cooperatively with ODOT in designation or revision to TAZ boundaries.

Geographically, the County is subdivided into eleven (11) TAZs. Socio-economic data (including population and employment) were distributed by TAZ. Map 2.2 illustrates the revised TAZ boundaries for the areas of the county. Maps 2.3 and 2.4 illustrate TAZ areas for Hollis and Gould. The 2011-2015 ACS population of two thousand eight hundred sixty-six (2,866) and employment of one thousand two hundred forty-eight (1,248) of were distributed into the new TAZs. (Appendix 2.8) provide information on the population and employment data by TAZ. TAZs 103 and 104 contain the largest concentration of population and TAZs 104 and 105 include the largest employment centers. In some instances, a major employer may be identified as an employer with as few as 10-15 employees. Major employers by city or town and County by TAZ are included in (Appendix 2.9).

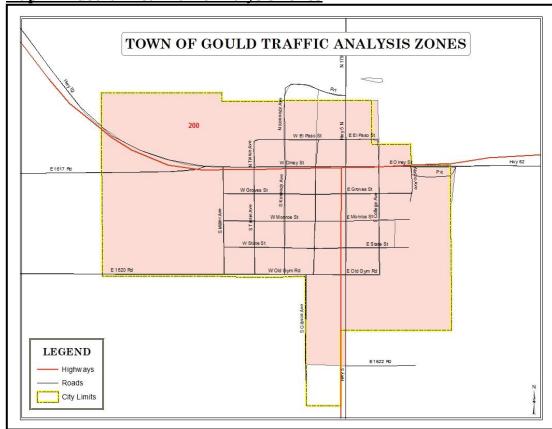


Map 2.2: Harmon County Traffic Analysis Zones

Source: SWODA



Map 2.3: Hollis Area Traffic Analysis Zones



Map 2.4: Gould Area Traffic Analysis Zones

Source: SWODA

# **Physical Development Constraints and Conditions**

Harmon County's major constraints for development include: US 62 and SH 5 and 30, towns/communities, environmental features and large farming operations. There are transportation facilities, large tract farming operating,

existing development and environmental features that affect the growth of Harmon County. Map 2.1 on page 13 illustrates the location highways and airport. These constraints both physical and manmade have shaped and impacted the development of the county. The majority of the population is concentrated in the town of Hollis. A list of major employers can be found in Appendix 2.9.



US 62 bisects the county east and west, entering the County from the east and extending to the Texas state line. State Highway 5 extends south of Gould and US 62 to the Jackson County line. State Highway 30 begins at Hollis US 62 and extends to the Beckham County line.

Harmon County is home to environmental features natural and cultural resources which can influence the transportation system. There are no federally recognized tribal lands in Harmon County, Appendix 2.10 illustrates

the Tribal Land in the state. There are many different types of environmentally sensitive areas and potential impacts to the natural and human environment that may be affected by various actions associated with the 2040 LRTP. These include (but are not necessarily limited to):

- Threatened and Endangered Species
- Wetlands
- Floodplains
- Surface and Ground Waters
- Stormwater Management and Erosion and Sediment Control
- Hazardous Materials
- Air Quality
- Historical/Cultural Resources
- Right-of-Way/Property Impacts, Including Impacts to Parks, Farmland and Neighborhoods
- Scenic View sheds
- Traffic

State and federal environmental regulations, require that environmental considerations be addressed in transportation decision making, plans and programs. Most transportation capital and maintenance projects have the potential to affect natural and human-made resources in both positive and negative ways. Appendix 2.11 and Appendix 2.12 provides description of significant environmental features to be considered in development of residential, commercial/industrial or transportation projects.

#### **Public Safety Issues**

The vulnerability of a region's transportation system and its use in emergency evacuations are issues receiving new attention with the threat of intentional damage or destruction caused by terrorist events and natural disasters. Therefore, security goes beyond safety and includes the planning to prevent, manage or respond to threats toward a region and its transportation system and users. There are many programs to help manage security concerns and emergency issues. SORTPO and its member jurisdiction transportation and emergency service staff are regular participants in security planning and preparation activities including development of the Harmon County Hazard Mitigation Plan. Ongoing participation in these planning activities helps prepare for and to better manage transportation safety and security situations.

MAP-21 required all states to prepare and annually evaluate their Strategic Highway Safety Plan (SHSP). A SHSP is a statewide, coordinated safety plan which includes goals, objectives and emphasis areas for reducing highway fatalities and serious injuries on all public roads. More information on the Oklahoma SHSP can be found on the ODOT website (<a href="http://www.okladot.state.ok.us/oshsp/index.htm">http://www.okladot.state.ok.us/oshsp/index.htm</a>).

The safety of the traveling public, regardless of vehicle type or highway system classification, is of principal concern for ODOT and SORTPO. Safety strategies are developed based on an analysis of key contributing factors such as crash data, highway inventories, traffic volumes, and highway configurations such as geometric challenges. When undesirable patterns become evident, specific countermeasures are identified based on a more in depth and detailed analysis of crash locations and causes.

#### **Collisions**

To help identify safety issues, traffic safety data must be analyzed. Trend analysis based upon multiple-years' worth of data provides a more accurate indication of the safety condition in the county. Review of collision records collected and maintained by ODOT was performed for the calendar years 2012-2016. A total of 103 collisions were reported in Harmon



County during this period. The highest concentration of collisions occurred along US-62 beginning at the Harmon County/Jackson County line extending west to the Texas state line. Table 2.2 identifies the number of and severity of collisions street type during this time period. Also during this period one fatality and forty (41) injuries or possible injuries were reported.

The majority of collisions occurred with a fixed object (39.8%), animal (25.2 %), and overturn/rollover (14.6%). Figure 2.5 illustrates collisions by vehicle type, where pickup trucks (32.6%), passenger vehicle 4-door (25.1%), sport utility vehicle (22%%), and truck tractor/semi-trailer (4.14%) represent the highest concentration by vehicle types. The top three categories for collisions by driver condition include no improper action (38.8%), unsafe speed (22.3%), in attention (11.6%). Appendices 2.13-2.17 provide supplemental information on collision data.

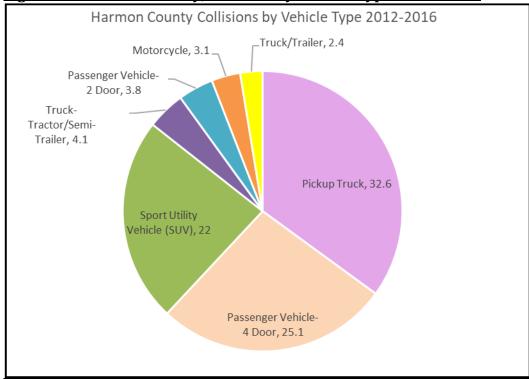
Table 2.2: Harmon County Collision Concentration, 2012-2016

HWY	CITY STREET	MILE/	SEV	NUM	RANK
	NAME	ST.2	INDEX	COLLS	
US-62	BR.	06.85	6	2	1
US-62		06.01	5	1	2
US-62		06.10	4	2	3
US-62		06.50	4	2	4
		0265	4	1	5
		0260	4	1	6
		0506	4	1	7
US-62	_	04.70	4	1	8
US-62		11.50	4	1	9

HWY	CITY STREET NAME	MILE/ ST.2	SEV INDEX	NUM COLLS	RANK
SH-30		06.30	4	1	10
SH-30		13.50	4	1	11

Source: ODOT Traffic Engineering Div. Collision Analysis and Safety Branch

Figure 2.5: Harmon County, Collision by Vehicle Type 2012-2016



Source: ODOT Traffic Engineering Div. Collision Analysis and Safety Branch

#### **Areas of Concern**

Areas of concern were identified through surveys, holding public meetings and soliciting comments from stakeholders. Through the collective knowledge and experience of the members of the Transportation Technical Committee and Policy Board and the information obtained via public comment the data areas of concern were identified. These locations are shown in Table 2.3. The scope of the LRTP does not include solutions to the areas of concern.

Table 2.3: Harmon County Transportation Areas of Concern

CITY/TOWN	LOCATION	DESCRIPTION
Harmon Co.		US 62 (Harmon/Jackson c/l to
		Harmon/Texas sl) need shoulders
Hollis		US 62 trucks speeding
Harmon Co.		US 62 (N1810-N1830) Wildlife on the
		road
Harmon Co.		SH 30 (E1520 - E1470) Wildlife on the
		Road
Hollis		US 62, /SH 30 Downtown signage
Harmon Co		SH 30 need shoulders
		Aging drivers and frequent cross traffic's
		speed.
Hollis	W. County Line Rd	Water on the road and flooding.
Hollis	E. County Line Rd.	Stormwater drains deteriorating
	south to E. Eula St.	
Hollis	N. 1st/W. Vivian	
	St.	Water on the road and flooding.
Hollis	N. 8th/E. Versa St	Water on the road and flooding.
Hollis	US 62/Westside	
	Rd/N1700 Rd.	
Hollis	US 62/S. 2 <sup>nd</sup> St.	
Hollis	US 62/SH30	
Hollis	SH 30/E. Hollis St.	
	SH 30/E1710	Sandy Creek Bridge/flooding
		Wildcat Bridge

Source: SORTPO

# **Existing Roadway Network**

The state-owned highway system in Oklahoma is comprised of the State numbered route highways, the US numbered route highways and the Interstate Highway System. The state system of highways encompasses 12,257 centerline

miles as measured in one direction along the dividing stripe of two lane facilities and in one direction along the general median of multilane facilities. Transportation on our highways is also facilitated by over 6,800 bridge structures that span major rivers and lakes, named and unnamed perennial streams and creeks, other roads and highways and railroads.



Oklahoma's rural nature and historically agricultural and energy based economy has witnessed the conversion of many

farm-to-market roads and bridges into highways. While these roads were ideal for transporting livestock and crops to market 70 years ago, they are less than adequate when supporting today's heavier trucks, increased traffic demands and higher operating speeds. Almost 4,600 miles of Oklahoma highways are two-lane facilities without paved shoulders. Appendix 2.18 illustrates the Steep Hill/Sharp Curves areas of concern (statewide). Appendix 2.19 illustrates the location of two lane highways with no shoulders.

Preserving the transportation system has emerged as a national, state and local transportation priority. Aging infrastructure continues to deteriorate, reducing the quality of the system and increasing maintenance costs. All roads deteriorate over time due to environmental conditions and the volume and type of traffic using the roadway. Without proper maintenance, roadways wear out prematurely. ODOT's annual evaluation of pavement conditions and safety features such as passing opportunities, adequate sight distances, existence of paved shoulders, recovery areas for errant vehicles, and the severity of hills and curves in 2016 reveals about 30% or approximately 3,687 of the State's 12,257 miles of highway rate as poor which includes 3,211 miles of two-lane highway.

#### **Traffic Count**

Traffic count data was collected from ODOT (Appendix 2.20). Traffic counts are collected by ODOT and data included in this plan reveal that the largest volume of traffic is carried US 62 from the Jackson and Harmon County Line west to the Texas state line.

#### **Functional Classification and Road System**

Functional classification is a well-established system utilized by the Federal Highway Administration (FHWA) for grouping streets and highways into classes based on roadway characteristics and intended services. Basic to this process is the recognition that individual roads and streets cannot serve travel independently; rather, most travel involves movement through a network of roads. Thus, it is necessary to determine how to channelize travel within the network in a logical and efficient manner. Functional classification (Appendix 2.21) defines the extent to which roadways provide for through travel versus the extent to which they provide access to land parcels. An interstate highway provides service exclusively for through travel, while a local street is used exclusively for land access. Each roadway has a classification number based on its location, access, and capacity characteristics. Functional class and jurisdiction are important not only in relation to operational and maintenance responsibility, but also in how roadway improvement projects can be funded. It is important to note that Rural Local and urban local streets which are not eligible for federal funds. Harmon County functionally classified roads are illustrated on the Functional Classification Map in Appendix 2.22. Funding eligibility limitations include:

 FHWA National Highway Performance Program (NHPP) can be used only on the National Highway System, which comprises the Interstates, all

- other Principal Arterials, and all designated NHS Connectors.
- FHWA Surface Transportation Program (STP) can be used on any facility except Local Roads and Rural Minor Collectors.
- FHWA Highway Safety Improvement Program can be used to address safety problems on any public road.

#### **Bridges**

Federal law requires that all bridges be inspected biennially; those that have specific structural problems may require more frequent inspections. Inspections include evaluation and rating of numerous elements of the substructure, superstructure, and deck, with special attention paid to fracture-critical members. Underwater inspections occur no less than every 5 years to check for scour around bridge piers. Bridges are composed of three basic parts: deck, superstructure and substructure. If any of these components receives a condition index value of 4 or less in the National Bridge Index, it is considered structurally deficient.

Bridges are rated on a numerical scale of "1" to "7" that translates into a range of Poor, Fair, Good, and Excellent. Bridges are also described as "Structurally Deficient" and "Functionally Obsolete" (Appendix 2.23). The former may have any of many structural problems noted in the inspection; while some may be closed or load-posted, many remain safe for traffic. The latter are bridges that do not meet current design standards. They may have narrow lanes, or inadequate clearances, but they may also be structurally sound. These structures enable vehicles, bicycles, pedestrian and wildlife to cross an obstacle. Bridges are structures that span more than 20 feet between supports and deteriorate over time due to weather and normal wear-and-tear with the passage of vehicles. To ensure safety and minimize disruption to the

transportation network bridges undergo regular inspections by qualified engineers. Inspections help locate and identify potential problems early and trigger protection mechanisms when a problem is found.

.

Harmon County bridge inventory includes 149 on and off-system bridges that are critical for regional mobility. The bridges in



the county vary greatly in their age with the oldest constructed in 1901 and most recent construction occurred in 2014. Between 2010-2016 4 bridges were constructed (1 On system and 3 Off system). County bridges (off system) with a sufficiency rating of 60 to 75 total 2 and bridges with a sufficiency rating of 59 or less total 39. Appendices 2.24 and Appendices 2.25 includes the On and Off-System bridges for Harmon County.

#### **Traffic Control**

Traffic signals are a key element of traffic control. Their location and timing affect the mobility of vehicles and pedestrians. National studies demonstrate that poorly timed traffic signals are responsible for a significant proportion of urban traffic congestion. Signal timing that does not allow sufficient time for pedestrians to cross a street can contribute to safety problems and act as a barrier to walking. The Manual on Uniform Traffic Control Devices (MUTCD) establishes minimum warrants that are to be met for installation of a signal, and for designation of exclusive turn lanes and movements. Signal ownership is an important element, as each jurisdiction may have its own protocols for maintaining and retiming signals. There is currently no inventory of traffic control devices in Harmon County which if developed can assist in prioritization of maintenance and scheduling upgrade.

## **Freight System**

The Fixing America's Surface Transportation Act (FAST Act) repealed both the Primary Freight Network and National Freight Network and directed the FHWA Administrator to establish a National Highway Freight Network (NHFN) (Appendix 2.26.) The FAST Act included the Interstate System—including Interstate facilities not located on the Primary Highway Freight System (PHFS)

in the NHFN. All Interstate System roadways may not yet be reflected on the national and state NHFN maps (Map 2.5).

The SORTPO Policy Board identified corridors listed in Table 2.4 and illustrated in Map 2.6 as significant statewide and regional highway freight corridors. Figure 2.6 illustrates the long-haul truck volume in 2011. Map 2.7 illustrates the Oklahoma 2014 High Volume Truck Corridors.

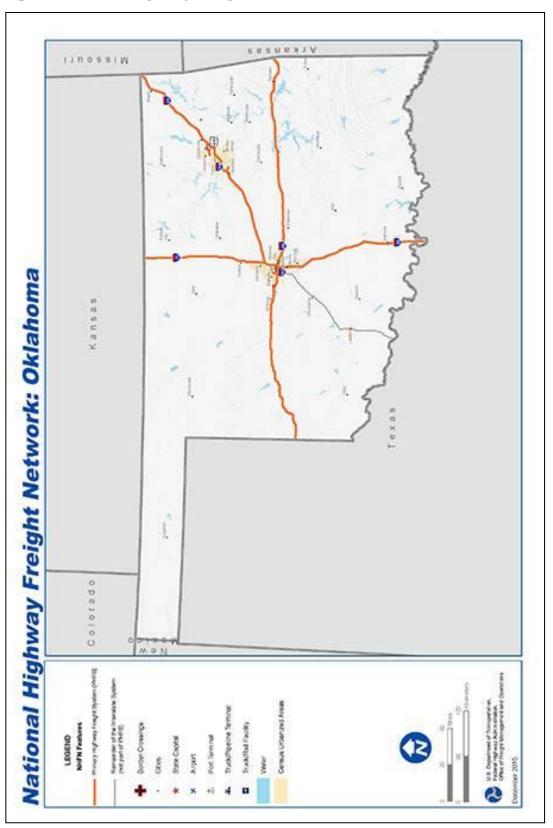
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**Table 2.4 Harmon County Significant Freight Corridors** 

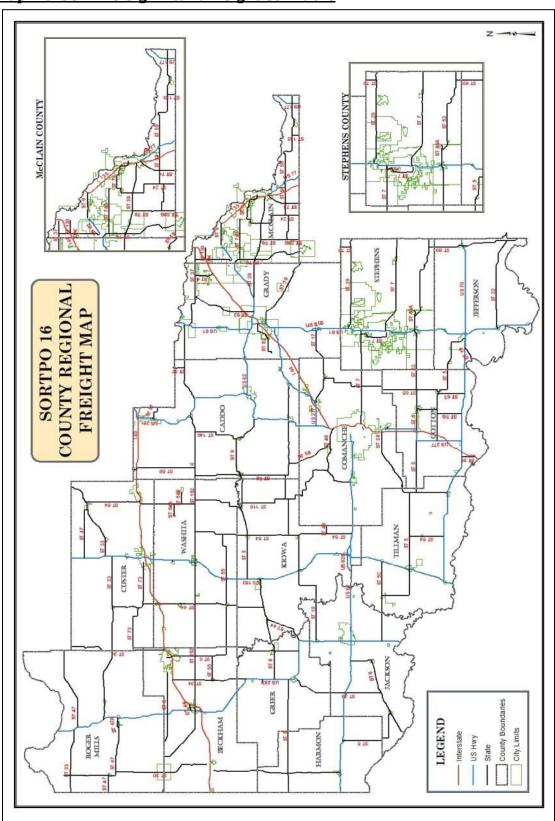
CITY/TOWN	LOCATION/DESCRIPTION
Harmon County	US Highway 62
Harmon County	State Highway 5
Harmon County	State Highway 30
Harmon County	State Highway 9

Source: SORTPO









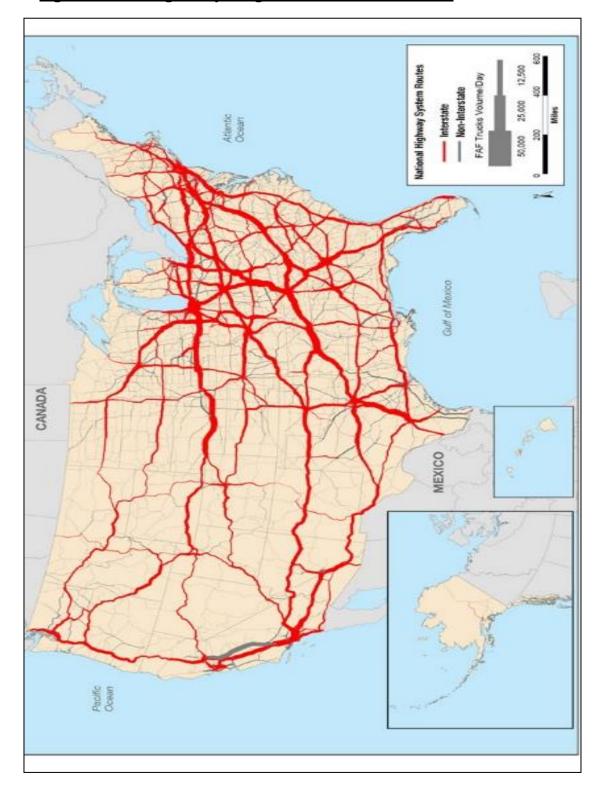
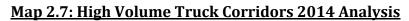
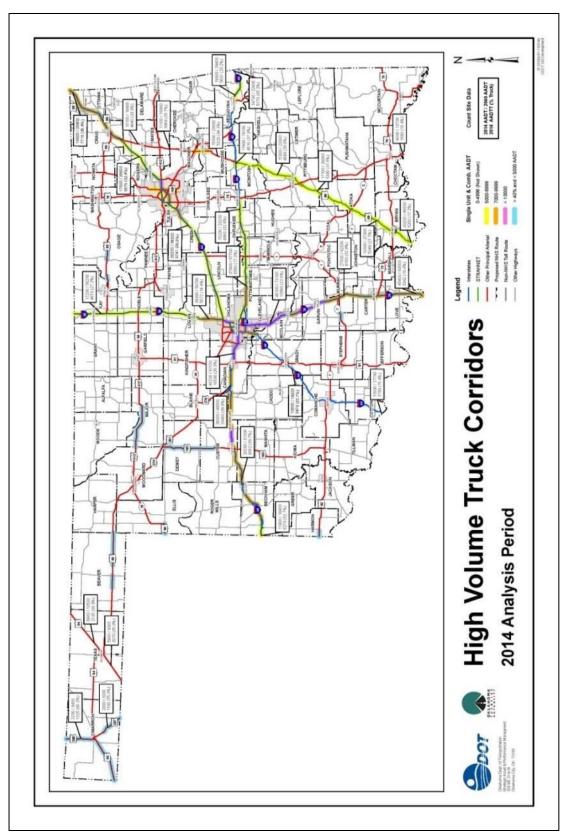


Figure 2.6: Average Daily Long-Haul Traffic on NHS 2011

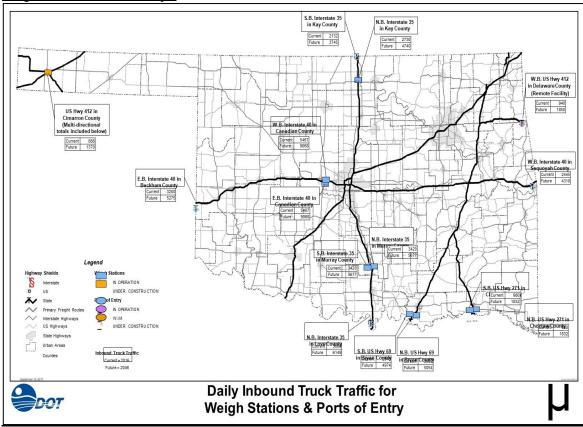
Source: Freight Analysis Framework (FAF)





To assist with the inspection and enforcement of truck permits Ports of Entry (POE) facilities were constructed by ODOT. This system of POE monitors freight ingress at the state line and allows better enforcement of vehicle and freight laws. The POE (Map 2.8) are state-of-the-art facilities established as the mechanism to create a more controlled freight transportation environment on the highway system.





Source: ODOT

## **Rail**

ODOT Rail Programs Division oversees and monitors five different railroad companies operating through leases on approximately 212 miles of State owned

track and serves as a liaison between ODOT and rail companies for ODOT projects which involve railroads or railroad property. In August 2014, ODOT and the Stillwater Central Railroad completed a \$75 million sale of the Sooner Sub rail line between Midwest City and Sapulpa. With the sale of this 97.5 mile, ODOT announced a \$100 million initiative to improve safety at the State's railroad crossings. Most of the money for this program comes from the \$75 million sale of the Sooner Sub.



Improvements are to be made to more than 300 rail crossings statewide and will add flashing lights and crossing arms to many of these crossings. Federal funding, as well as funds provided by railroad companies will also be used in completing the three to four-year program.

The state-owned tracks are leased by privately operated railroads. Statewide there are three (3) Class I railroads and nineteen (19) Class III railroads. Class I railroad lines include Burlington Northern Santa Fe Railway (BNSF), Union Pacific Railroad (UPRR), and Kansas City Southern Railway Co. (KCS). ODOT is in the preliminary stage of developing the 2017 Rail Plan. There are no railroad lines in the county of Harmon.

## **Bicycle and Pedestrian Network**

Bicycle and pedestrian facilities have been primarily a local issue, usually within communities. Most communities have at least a partial system of sidewalks to aid pedestrians, particularly near schools. Pedestrian travel requires a network of sidewalks without gaps and with accommodations for people with disabilities as defined by the Americans with Disabilities Act (ADA). There are instances, particularly in rural areas, where a wide shoulder is an acceptable substitute for a sidewalk. Safe pedestrian and bicycle travel requires protected crossings, marked crosswalks and pedestrian signals where warranted.

# **Public Transportation**

Public transportation systems and services in rural areas are limited. Low population densities in the SORTPO region and the distances between activity centers complicate the delivery of public transportation in rural areas. There are limited activity generators (mostly job destinations) that produce concentrations of transit need. That is, at least one (1) end of a trip is concentrated enough that public transit may be attractive. The difficulty then becomes establishing feasible routes and scheduling service such that the trip is acceptable to the workers. Federal, state and especially local funding is limited. This limits the type and level of service that can be provided. ODOT's Transit Programs Division is responsible for the administration of the Federal Transit Administration (FTA) grants for rural transit operations.

Southwest Transit began under the guidance of a group of volunteers known as the Road Runners with the Altus Christian Ministries. The program provided rides for seniors and persons with disabilities to shopping and medical appointments. In 1983, Southwest Transit management was shifted to the South West Oklahoma Community Action Group. The Transit System operates twenty-seven (27) vehicles including mini-vans and cutaway buses. According to their website Southwest Transit provides transportation to Head Start and day-care children, non-emergency medical transportation, transportation for employment and education, and provides transportation to our service men and women at the Altus Air Force Base.

Transit services are available in Altus, Hollis, Mangum, and Granite on a demand response basis. Additional services include:

- Feeder routes from Altus to Lawton to connect to Jefferson Bus and from Altus to Elk City to connect to Greyhound, and
- Altus Express shuttle operates in Altus from 6:00PM to 2:10AM on Friday and Saturday nights. The route originates at the Altus Air Force Base, Club Altus and travels Main Street and East Broadway to stop at local favourites. This route is repeated hourly and supported by local businesses and rider donations.

The ODOT 2012 Transit Gap and Overview Analysis results revealed the need for coordination of existing services. Development and implementation of a coordinated system approach to delivery of transit services will enhance the opportunities for rural communities to reach destinations outside of the region.

#### Aviation

The Oklahoma Airport System Plan classifies airports by their functional classification: Regional Business Airport (RBA),

District Airport (DA) and Community Airport (CA). These classifications were developed to characterize each airport on how they relate to each other. The concept of classification of airports is similar to the concept of classifying the roadway system.



A RBA serves multiple communities. Normally, it will serve:

- a community of at least 5,000 persons, generally larger,
- a county population of 10,000 or more persons.
- serve major employers (businesses with 50 or more employees),
- located near the center of a local sustaining economy, and
- closely match the local sustaining economies identified by the Oklahoma Department of Commerce.

Features of a DA include providing access to a part of the state that is not well served by a RBA. Typically, these airports will,

- have a supporter with a defined interest in promoting airport and with a demonstrated financial capability,
- about five or more based aircraft at these airports or an equivalent number of annual itinerant operations, and
- airports are attended, aviation gasoline is available and there is a public terminal building.

The CA airports are entry-level airports. These airports regularly serve

- small communities, where the city population is less than 5,000, and for many, the population is less than 2,000,
- normally these airports are not attended, have no services available, and
- the sponsor has limited financial capability to fund capital improvement projects.

The SORTPO area consists of twenty-two (22) general aviation airports identified in Table 2.4. Greer County is home to one public airports and is illustrated on Map 2.1, page 13.

**Table 2.4: SORPTO Public Airports** 

CITY	COUNTY	AIRPORT NAME	TYPE OF AIRPORT	OWNER
Sayre	Beckham	Sayre Municipal	CA	Municipal
Elk City	Beckham	Elk City Regional	RBA	Municipal
Carnegie	Caddo	Carnegie Municipal	CA	Municipal
Anadarko	Caddo	Anadarko Municipal	DA	Municipal
Hinton	Caddo	Hinton Municipal	DA	Municipal
Lawton	Comanche	Lawton-Ft. Sill Regional	RBA	Municipal
Walters	Cotton	Walters Municipal	CA	Municipal
Clinton	Custer	Clinton Regional	RBA	Municipal
Weatherford	Custer	Thomas P Stafford	RBA	Municipal
Chickasha	Grady	Chickasha Municipal	RBA	Municipal
Mangum	Greer	Scott Field	DA	Municipal
Hollis	Harmon	Hollis Municipal	DA	Municipal
Altus	Jackson	Altus/Quartz Mt. Reg.	RBA	Municipal
Hobart	Kiowa	Hobert Regional	RBA	Municipal
Purcell	McClain	Purcell	DA	Municipal
Cheyenne	Roger Mills	Migon Laird Municipal	CA	Municipal
Duncan	Stephens	Halliburton Field	RBA	Municipal
Tipton	Tillman	Tipton Municipal	CA	Municipal
Grandfield	Tillman	Grandfield Municipal	DA	Municipal
Frederick	Tillman	Frederick Regional	RBA	Municipal
Cordell	Washita	Cordell Municipal	CA	Municipal
Burns Flat	Washita	Clinton/Sherman	RBA	Municipal

Source: Oklahoma Aeronautics Commission

# **Chapter 3: Future Conditions and Improvements**

The objective of the Future Conditions and Planned Improvements chapter is to portray a "snapshot" of typical daily traffic conditions in the county for the year 2040. It is assumed that only those projects included in the current ODOT eight (8) year construction plan, County Improvements for Road & Bridges Program (CIRB) and projects funded by local governments will be constructed by the year 2040.

#### **Future Conditions**

Harmon County' population and employment will continue to be dependent on the agriculture industry. As family, owned farms are absorbed by farming conglomerations and technology and more efficient farming practices are implemented the role of the family farming unit will continue to decline and number of workers will be reduced. SORTPO Policy Board recommended the 2040 population projection of 2,177 and employment projection totaling 850, as shown in Appendix 3.1.

Although population and employment are projected to decrease, SH 62 will continue to operate as a regional significant freight route connecting the panhandle of Texas with Oklahoma. Increased freight traffic and congestion along the interstate system could provide an opportunity for additional truck freight traffic on the state and US highways. Figure 3.1 illustrates the Projected Average Daily Long-Haul Traffic on NHS.

# **2040 Transportation Improvements**

Not all service needs for the transportation system are for constructed improvements. In many instances, additional data will need to be collected and studies developed to provide a complete list of needs. In the interim projected construction improvement needs will rely on information, data, programs implemented by state, tribal governments, rail line companies, county and city governments.



#### **Improvements**

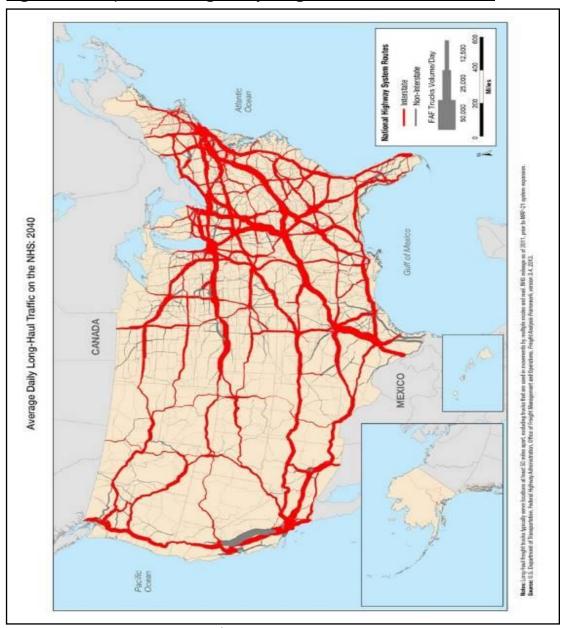
Future transportation projects in Harmon County includes projects listed in Table 3.1 and Appendix 3.2 illustrates the locations of projects identified in the ODOT 8 Year Construction Work Program for years 2017-2020, CIRB FY 2017-2021, and the FY 2017-2020 Asset Preservation Program.

**Table 3.1: Future Projects** 

CITY/TOWN	LOCATION	DESCRIPTION			
Hollis	Broadway	Sidewalk repairs			
Hollis	The stop light at Broadway/	Resurface road north for eight			
	Hwy 30	miles			
Harmon		25 miles of chip and seal			
County					

Source: SORTPO

Figure 3.1: Projected Average Daily Long-Haul Traffic on NHS 2040



Source: Freight Analysis Framework (FAF)

# **Chapter 4: Financial Summary**

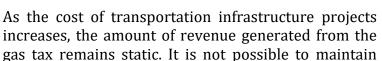
## **Financial Assessment**

The assessment is intended to summarize federal, state and local transportation funding sources.

#### **Federal**

In general, transportation revenues continue to follow an unsustainable course as multiple factors force the funding available for transportation continues a downward trend. For example, both the Oklahoma and federal gas tax rates are

fixed on a per-gallon basis, and therefore gas tax revenues are not responsive to inflation. There is a price elasticity associated with gasoline. Consumers change driving habits and stop purchasing gasoline as the price per gallon increases and then revenues generated from gasoline sales decrease.





past levels of transportation investments as per capita collections continue to decline. Additionally, as cars become more fuel efficient, drivers pay less in gas taxes. At the same time, the wear and tear on roadways caused by these vehicles remains the same. The federal funding levels related to highways are typically established through authorizing legislation commonly referred to as the Federal Highway Bill. This legislation normally authorizes projected funding levels for a period of six years. Consistent, long-term funding anticipations are critical in order to understand the expected annual federal funding availability and prepare projects accordingly. Each year, the legislation is funded through the Administration's budgeting and the congressional appropriations processes. The primary source for the dedicated federal transportation funding appropriation is the gasoline and diesel tax deposits directed to the Highway Trust Fund.

The department of transportation in each state is designated as the cognizant or recipient agency to interact with the representative federal agency, the Federal Highway Administration. Therefore, federal funding for roads and bridges is administered by ODOT regardless of facility ownership. All traditional, congressionally identified or discretionarily funded city street and county road projects that utilize federal highway funding are administered by and through ODOT.

Taxes on gasoline and other motor fuels are collected and distributed from the Federal Highway Trust Fund (HTF) and are distributed to the states by the FHWA and the FTA to each state through a system of formula grants and

discretionary allocations. Motor fuels taxes, consisting of the 18.4-cent per gallon tax on gasoline and 24-cent per gallon tax on diesel fuels, are the trust fund's main dedicated revenue source. Taxes on the sale of heavy vehicles, truck tires and the use of certain kinds of vehicles bring in smaller amounts of revenue for the trust fund.

Surface Transportation Program (STP) is federal funds utilized on road projects. These STP funds may provide up to eighty percent (80%) of the construction costs of these projects. Counties fund the remaining twenty percent (20%) match for construction costs, plus the costs for engineering, right of way and utility relocation through local sources or state fund. taxes. Appendix 4.1 identifies the transportation funding categories.

#### **State**

Funding for highway improvements in Oklahoma comes primarily from two sources – federal and revolving funds including federal and state motor fuel taxes directed to the Highway Trust Fund and the State Transportation Fund along with the Rebuilding Oklahoma Access and Driver Safety (ROADS) fund as initiated by House Bill 1078 in 2005. House Bill 2248 and House Bill 2249 provide funding to reduce the number of structurally deficient bridges and deteriorating road conditions on the state highway system.

In 1923, Oklahoma enacted its first state level excise tax on motor fuels. The last increase was in 1987 and the tax is currently seventeen cents (17¢) per gallon for gasoline and diesel at fourteen cents (14¢). There is also a transportation dedicated 5 cents per gasoline gallon equivalent excise tax on natural gas used for motor vehicle fuel Oklahoma's primary sources of funding for road and bridge construction and maintenance are derived from fuel taxes and motor vehicle tax. The motor fuel taxes that are deposited to the State Transportation Fund (STF) are gasoline excise tax, diesel fuel excise tax, special fuel use tax, and special fuel decals. The fuel tax is assessed on consumers when they purchase fuel, and the gasoline tax is the largest generator of revenue to the STF. The motor fuel tax revenues are also apportioned to municipalities and county governments for road and bridge repair and maintenance and to Native American Tribes.

In addition to the above taxes the ROADS Fund is guaranteed an annual apportionment equal to the amount apportioned for the previous year plus an additional \$59.7 million until it reaches a cap of \$575 million. In FY 2015, the Fund received \$416.8 million. In addition, the County Improvement for Roads and Bridges (CIRB) fund, as administered by ODOT was increased to 20% of motor vehicle registration fees and capped at \$120 million beginning in SFY 2016. Table 4.1 summarizes the state funding categories supporting transportation. Appendix 4.2 summarizes transportation funding categories, funding eligibility and funding limits provided at the state level.

**Table 4.1: State Funding Categories** 

Table 4.1. State	Funding Category FY13 Actual	FY14 Actual	FY15 Actual	FY16 Budget
State Transportatio n Fund	\$206,405,702	\$208,707,119	\$197,228,227	\$184,901,463
Motor Fuel Tax – HP Bridges	\$6,047,108	\$6,130,546	\$6,238,149	\$6,200,000
Income Tax	\$297,400,000	\$357,100,000	\$416,800,000	\$476,500,000
Total allocation	\$509,852,810	\$571,937,665	\$620,266,376	\$667,601,463
OTA Transfers	\$41,340,937	\$41,712,534	\$44,049,331	\$42,000,000
Total State Revenue	\$551,193,747	\$613,650,199	\$664,315,707	\$709,601,463
CIP Debt Service	\$11,526,973	\$11,358,296	\$0	\$0
ROADS Debt Service	\$32,367,490	\$35,971,788	\$42,599,529	\$36,434,743
Highways and Bridges	\$495,399,284	\$554,420,115	\$612,316,178	\$662,766,720
Lake & Industrial Access	\$5,000,000	\$5,000,000	\$2,500,000	\$3,500,000
Passenger Rail	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000
Public Transit	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000
Intermodal	\$1,900,000	\$1,900,000	\$1,900,000	\$1,900,000
Total Allocation	\$551,193,74 7	\$613,650,19 9	\$664,315,70 7	\$709,601,46 3

Source: ODOT

Public transportation funding for rural transit agencies is as follows:

- ODOT receives FTA's Section 5311 funding.
- Subrecipients submit application for Section 5311 funds annually.
- ODOT reviews application which includes service areas. Service areas usually include multiple counties and/or city limits.
- Funds are allocated to eligible Subrecipients based on the average of their last two previous years of performance measures (i.e. revenue miles, passenger trips, etc.) within their pre-approved Section 5311 service areas.

- Subrecipients are reimbursed for eligible administrative, operational, and capital expense, at specific rates, for services performed within their total pre-approved Section 5311 service areas.

The total expenditures identified in Table 4.1 are within the total federal, state and local revenues estimated for the 2040 LRTP and are adequate to fund the projects listed. Funding of local transportation projects and programs is heavily influenced by State of Oklahoma's annual budget and federal funding. Transportation funding sources based on motor vehicle fuel taxes tend to fluctuate with changes in fuel prices and fuel consumption. While most taxes are not tied to fuel prices, when gas prices go up, consumption tends to go down and thus tax revenues decline. Oklahoma's state budget continues to experience historic downfall revenues and these downfalls have a negative impact on the transportation system. With this plan development, it is anticipated that there will continue to be a downfall in available revenue for transportation programs and projects. Therefore, the coordination with local, regional and statewide agencies in the development of transportation programs and projects is significant in order to accomplish the projects.

#### **County**

The main funding program for county roads and bridges is the county highway fund, which consists of revenues from the state taxes on gasoline and diesel fuels as well as motor vehicle registration fees and a portion of the of the state gross production tax on oil and gas in the case of counties that have oil and gas production. A county's apportionment is based on several formulas that use proportional shares of each factor as it relates to the total statewide county totals. Counties that have oil and natural gas production receive a portion of the seven percent (7%) state tax on natural gas and oil. Counties have authority to impose a countywide sales tax for roads and bridges with revenues earmarked for roads and bridges. Appendix 4.3 summarizes the funding categories and taxes apportioned by the Oklahoma Tax Commission (OTC) for FY 2011 -2015 in addition to revenues apportioned by the OTC the recognized tribal governments who receive federal funds and may also designate their own local funds for transportation projects. Counties and tribal governments have been successful in working together to coordinate implementation of transportation projects. The opportunity to utilize a combination of funding sources for transportation projects is an opportunity that counties value. Challenges faced by local and state governments include: dependence on revenues from the state gas tax; the state's fixed rate gas tax and major disaster declarations and impact on the infrastructure.

In the summer of 2006 a law created the County Improvements for Roads and Bridges (CIRB) program. The funds apportioned to the program are in equal amounts to the eight Transportation Commission Districts. The sole purpose of the funds is for the construction or reconstruction of county roads or bridges on the county highway system that are the highest priority. Funds may accumulate

annual funding for a period of up to five years for a specific project. Information obtained from a report published by the National Association of Counties, funds collected by OTC for transportation projects are distributed directly to the counties. Revenues for specifically for the CIRB category are collected from state gasoline and diesel tax, special fuel tax and state gross production tax on oil. Appendix 4.4 summarizes the CIRB for Harmon County. The county uses a small percentage of tax revenues for maintenance and minor improvements, relying on outside funding sources for major improvements.

The County Commissioners established Circuit Engineering Districts (CEDs) to provide common engineering and project support services. All potential transportation projects are initiated by the County Commissioners and are coordinated with the appropriate CED who directs the development of the recommended list of projects to be considered by ODOT for inclusion in the CIRB Construction Work Plan. ODOT and the Transportation Commission have the responsibility for the expenditure of the CIRB funding. When the CIRB Construction Work Plan is approved, ODOT coordinates and cooperates with the Counties and the CEDs in management of the project.

#### **Local**

The main source of funding for community transportation projects is found in the general operating budgets. Generally, these funds are derived by city sales tax and fees. Funding for rural transportation projects may also be available through federal sources such as Community Development Block Grants (CDBG) through Oklahoma Dept. of Commerce, Economic Development Administration (EDA), and US Department of Agriculture Rural Development (USDA RD) programs. Oklahoma has limited funding available for projects through Rural Economic Action Plan (REAP) administered by Councils of Government (COG).

# **Chapter 5: Public Participation Summary**

This chapter presents and describes the public participation tools the RTPOs utilize as part of the planning process. Public participation is a federal requirement outlined in MAP21 and The FAST Act. SORTPO has an adopted Public Participation Plans (PPP) that was followed.

## **Environmental Justice**

FHWA has long embraced non-discrimination policy to make sure federally funded activities (planning through implementation) are not disproportionately adversely impacting certain populations. These populations include low income persons and populations as defined by the U.S. Department of Health and Human Services (HHS) Poverty Guidelines and minority persons and populations (Black, Hispanic, Asian American, American Indian and Alaskan Natives). As such, public involvement and outreach for the LRTP must adhere to Presidential Executive Order 12898, Environmental Justice (EJ).

Harmon County's racial and ethnic composition is 74.6% White, followed by 26.2% Hispanic or Latino, and 6.4% African American. In comparison, Oklahoma is 75.4% White, 9.6% Hispanic or Latino and 7.7% African American. The LRTP process identified EJ populations through a comparison of the racial and ethnic composition of the county. Additional information is in Appendix 5.1.

Low income populations were also identified for Harmon County. Low income populations are defined by the FHWA for transportation planning purposes as families of four (4) with a household income that is below the poverty guidelines set by HHS. The 2014 HHS poverty guideline for a family of four (4) is twenty-four thousand three hundred dollars (\$24,300.00).

## **Coordination with Other Plans**

The process to identify goals and objectives for the county started with a review and comparison of goals and objectives from other related planning documents and policies to ensure general consistency. This review included:

- FAST Act Federal Planning Factors,
- MAP-21 Federal Planning Factors,
- Quartz Mountain State Park Plan,
- 2012 Transit Gap Overview and Analysis,
- Oklahoma Mobility Plan,
- Oklahoma Aeronautics,
- 2012 Freight Flow Study, and



• ODOT 2015-2040 Long Range Transportation Plan.

Conversation and consultation has been initiated and will be ongoing with local governments, and State and Federal Agencies (including, but not limited to: State Historic Preservation Office, Oklahoma Department of Transportation, Oklahoma Department of Environmental Quality, Oklahoma Water Resources Board, Oklahoma Department of Wildlife Conservation, Aeronautics Commission, and Oklahoma Department of Agriculture All of the above agencies were given an opportunity for input during the Public Review and Comment period.

Public involvement is an integral part of the transportation process. SORTPO is proactive in its efforts to effectively communicate with the public and has

adopted a PPP to ensure that the transportation planning process and procedures complies with federal requirement for public involvement and participation. These procedures provide opportunities for the public to take an active role in the decision-making process.



The SORTPO has hosted 15 public meetings and/or provided notice of availability for public outreach to involve interested parties in the early stages of the plan development. Notices of public hearings and/or notices of availability for public outreach for the RTPO were published in local newspapers and SORTPO website. Surveys were distributed throughout the County and were made available on at <a href="https://www.sortpo.org">www.sortpo.org</a>. Appendix 5.2 provides a summary of the survey results. Appendix 5.3 contains information identifying the public outreach processes utilized in development of the 2040 Harmon County LRTP.

# **Chapter 6: Transportation Recommendations**

This chapter identifies the recommendations and summary of improvements that were developed as a result of the previous review of demographics, growth, activity generators, transportation system and other such issues. It is assumed that only those Harmon County projects included in the current ODOT eight (8) year construction program and CIRB will be constructed by the year 2040.

The projects included in the LRTP may have potential funding from a single source or multiple sources. Each project has its own unique components relative to only that project and while there are many funding programs within various state and federal agencies, each project must be evaluated on its own merits to determine which programs will apply. It should be noted that while many potential funding sources are identified for each project, these represent the primary sources and additional sources not listed may also be available. When implementing this plan, SORTPO will continue to review potential funding sources as they become available or as projects become eligible for other sources. SORTPO will expand on this effort by identifying additional projects that are needed in the county and helping local governments with the identification of funding sources for those projects.

Not all the recommendations are for constructed improvements. In some cases, studies must be conducted to determine if the improvement is warranted (installation of new traffic signals, for example). In other cases, studies should be undertaken in order to develop a comprehensive set of solutions.

# **Committed Improvements**

The ODOT 8 Year Construction Work Program 2017-2024 assembles projects according to anticipated state and federal fund categories. Regarding federally funded projects, the current plan is fiscally balanced in that the total project costs do not exceed the anticipated federal funds. ODOT policy prohibits start of future projects until all funding is in place and federal regulations dictate projects cannot be programmed in the Statewide Transportation Improvement Program (STIP) unless there is a programmatic and financial game plan for completing the project within six (6) years. Appendix 6.1 includes a list of projects through the year 2040 including projects identified the ODOT 8 Year Construction Work Program for years 2017-2020, CIRB FY 2017-2021, FY 2017-2020 Asset Preservation and other projects such as development of studies, plans, and collection of data identified in Chapter 1 goals and strategies. The development of studies, plans and collection of data can be included in SORTPO's Planning Work Program (PWP).

# **APPENDICES**

# **Appendix A: Resolution 09-04**

#### **RESOLUTION NO. 09-04**

# CREATION OF THE RURAL TRANSPORTATION PLANNING ORGANIZATION COMMITTEE

WHEREAS, local business and community leaders have expressed a strong desire to convene and discuss transportation needs and goals in the eight-county SWODA Region, and

**WHEREAS,** regional transportation planning is encouraged by legislation *of* the Federal Highway Administration, and

**WHEREAS,** SWODA is the federally recognized regional planning organization for the eight-county area, and

**WHEREAS,** the SWODA Board *of* Trustees seeks to facilitate the planning process for surface, air and rail development to aid the region in economic development, workforce development, business and industry growth, tourism development and other pursuits;

**NOW THEREFORE, BE IT RESOLVED** by the Board of Trustees of the South-Western Oklahoma Development Authority does hereby create the Rural Transportation Planning Organization as a standing committee of the Authority.

**PASSED AND APPROVED this** 13th day of October 2009.

T.L. GRAMLING, Chairman

Mike Brown

**ATTEST:** 

MIKE BROWN, Secretary

# **Appendix B: Resolution 16-06**

#### **RESOLUTION NO. 16-06**

#### **EXPANSION OF THE REGIONAL TRANSPORTATION PLANNING**

#### **ORGANIZATION COMMITTEE**

WHEREAS, local business and community leaders have expressed a strong desire to convene and discuss transportation needs and goals in the sixteen (16) county South Western Oklahoma Development Authority (SWODA) and Association of South Central Oklahoma Governments (ASCOG) region, and

**WHEREAS,** regional transportation planning is encouraged by legislation of the Federal Highway Administration, and

**WHEREAS,** SWODA is the federally recognized regional planning organization for the sixteen (16) county area, and

**WHEREAS**, the SWODA Board of Trustees seeks to facilitate the planning process for surface and rail development to aid the region in economic development, workforce development, business and industry growth, tourism development and other pursuits;

**NOW THEREFORE, BE IT RESOLVED** by the Board of Trustees of the South Western Oklahoma Development Authority does hereby expand the Regional Transportation Planning Organization as a standing committee of the Authority.

John Schaufele Chairman

PASSED AND APPROVED this 8th day of November, 2016

John Dee Butchee, Secretary

ATTEST:

# **Appendix C: Acronyms**

ACS American Community Survey

ADA Americans with Disabilities Act

ASCOG Association of South Central Oklahoma Governments

BNSF Burlington Northern Sante Fe

CA Community Airport

CIP Capital Improvement Program

COEDD Central Oklahoma Economic Development District

CORTPO Central Oklahoma Regional Transportation Planning

Organization

DA District Airport

EJ Environmental Justice

FAST Act Fixing America's Transportation Act

FAT Fatality

FHWA Federal Highway Administration

FTA Federal Transit Administration

FY Fiscal Year

HHS Health and Human Services

HWY Highway

INJ Injury

IRI International Roughness Index

JCT Junction

KCS Kansas City Southern

LEP Limited English Proficiency

LOS Levels of Service

LRTP Long Range Transportation Plan

MAP-21 Moving Ahead for Progress in the 21st Century Act

MUTCD Manual of Uniform Traffic Control Devices

NHFN National Highway Freight Network

NHS National Highway System

NODA Northern Oklahoma Development Authority

Northern Oklahoma Regional Transportation Planning

Organization

NRHP National Register of Historic Places

OARC Oklahoma Association of Regional Councils

ODEQ Oklahoma Department of Environmental Quality

ODOT Oklahoma Department of Transportation

PD Property Damage

**NORTPO** 

PHFS Primary Highway Freight System

PPP Public Participation Plan

PWP Planning Work Program

RBA Regional Business Airport

RTPO Regional Transportation Planning Organization

S/L State Line

SAFETEA-LU Safe, Accountable, Flexible and Efficient Transportation

Equity Act: A Legacy for Users

SORTPO Southwest Oklahoma Regional Transportation Planning

Organization

STIP Statewide Transportation Improvement Program

STP Surface Transportation Program

STRAHNET Strategic Highway Network

SWODA South Western Oklahoma Development Authority

TAZ Traffic Analysis Zone

UP Union Pacific

USDA U.S. Department of Agriculture USDOT U.S. Department of Transportation

## **Appendix D: Definitions**

**Accident Severity Index** - A measure of the severity of collisions at a location, derived by assigning a numeric value according to the severity of each collision and totaling those numeric values.

**Capacity** - The maximum number of vehicles that can pass over a given section of a lane or roadway in one direction during a given period under prevailing roadway and traffic conditions.

**Census Tracts** - Small areas with generally stable boundaries, defined within counties and statistically equivalent entities, usually in metropolitan areas and other highly populated counties. They are designed to be relatively homogeneous with respect to population characteristics, economic status and living conditions.

**Capital Improvement Plan CIP** – A comprehensive schedule of capital improvements needed within the city and establishes a program to accomplish those needs within the city's ability to pay.

**Congestion** - The level at which transportation system performance is no longer acceptable to the traveling public due to traffic interference.

**Environmental Justice (EJ)** - The fair treatment and meaningful involvement of all people regardless of race, color, national origin, culture, education, or income with respect to the development, implementation and enforcement of environmental laws, regulations and policies. In transportation, this requires review of whether the benefits and burdens of transportation investments appear to be distributed evenly across the regional demographic profile and, if necessary, mitigation of such effects.

**Functional Classification** - Identification and categorization scheme describing streets according to the type of service they provide into one of four categories: principal arterials, minor arterials, collectors and local.

**Functionally Obsolete Bridge** - A bridge inadequate to properly accommodate the traffic can be due to inadequate clearances, either horizontal or vertical, approach roadway alignment, structural condition, or waterway adequacy. Any posted bridge which is not structurally deficient would be included in this category. Structures in this category could include narrow bridges.

**General Aviation Airport** - Provide access to the population and economic activity centers of the state.

Level of Service (LOS) - Refers to a standard measurement used by planners

which reflects the relative ease of traffic flow on a scale of A to F with free-flow being rated LOS A and congested conditions rated as LOS F.

**Local Sustaining Economies** - Geographical regions that function with some degree of independence from the rest of the state. The Oklahoma Department of Commerce (ODOC) has identified 47 of these regions.

**Long Range Transportation Plan** - Every state and MPO must develop a long-range transportation plan (LRTP) for transportation improvements, including a bicycle and pedestrian element. The LRTP looks twenty (20) years ahead and is revised every five (5) years.

**Multi-modal** - The consideration of more than one mode to serve transportation needs in each area. Refers to the diversity of options for the same trip; also, an approach to transportation planning or programming which acknowledges the existence of or need for transportation options.

**National Highway System** - Represents four percent (4%) to five percent (5%) of the total public road mileage in the US. This system was designed to contain the follow subcategories:

- A. Interstate- The current interstate system retained its separate identity within the NHS along with specific provisions to add mileage to the existing Interstate subsystem.
- B. Other Principal Arterials- These routes include highways in rural and urban areas which provide access between an arterial route and a major port, airport, public transportation facility or other intermodal transportation facility.
- C. Intermodal Connecting Links- These are highways that connect NHS routes to major ports, airports, international border crossings, public transportation and transit facilities, interstate bus terminals and rail and intermodal transportation facilities.

**National and State Scenic Byways** - Recognize highways that are outstanding examples of our nation's beauty, culture and recreational experience in exemplifying the diverse regional characteristics of our nation.

**Primary Commercial Service Airport** - An airport that receives scheduled passenger service and enplanes 10,000 or more passengers annually, as reported by the FAA.

**Strategic Highway Network (STRAHNET)** - Designation given to roads that provide "defense access, continuity, and emergency capabilities for movements of personnel and equipment in both peace and war." STRAHNET includes Routes (for long-distance travel) and Connectors (to connect individual installations to the Routes). This system includes the Dwight D. Eisenhower

System of Interstate and Defense Highways, identified as strategically important to the defense of the United States.

**Structurally Deficient Bridge** - A bridge can be inadequate to carry legal loads, whether caused by obsolete design standards, structural deterioration, or waterway inadequacy. Structures in this category may include those posted to restrict load limits as well as those closed to all traffic.

**Surface Transportation Program (STP)** - A category of federal transportation funds administered by the Federal Highway Administration and allocated to states and metropolitan areas based on a prescribed formula. This category of funds can provide 80% of the cost to complete transportation improvement projects. These funds are flexible, and can be used for planning design, land acquisition, and construction of highway improvement projects, the capital costs of transit system development, and up to two years of operating assistance for transit system development.

**Traffic Analysis Zones** - A traffic analysis zone is the unit of geography most commonly used in conventional transportation planning models. The size of a zone varies, and will vary significantly between the rural and urban areas. Zones are constructed by census block information. Typically, these blocks are used in transportation models by providing socio-economic data. This information helps to further the understanding of trips that are produced and attracted within the zone.

## **Appendix 1: Performance Measures**

Performance measures for State departments of transportation (State DOT) and Metropolitan Planning Organizations (MPO) were established by the Moving Ahead for Progress in the 21st Century Act (MAP-21). This Act transformed the Federal-aid highway program by establishing new requirements for performance management to ensure the most efficient investment of Federal transportation funds. Performance management increases the accountability and transparency of the Federal-aid highway program and provides a framework to support improved investment decision-making through a focus on performance outcomes for key national transportation goals. As part of performance management, recipients of Federal-aid highway funds will make transportation investments to achieve performance targets that make progress toward the following national goals:

- Safety—To achieve a significant reduction in traffic fatalities and serious injuries on all public roads.
- Infrastructure condition—To maintain the highway infrastructure asset system in a state of good repair.
- Congestion reduction—To achieve a significant reduction in congestion on the NHS.
- System reliability—To improve the efficiency of the surface transportation system.
- Freight movement and economic vitality—To improve the national freight network, strengthen the ability of rural communities to access national and international trade markets, and support regional economic development.
- Environmental sustainability—To enhance the performance of the transportation system while protecting and enhancing the natural environment.
- Reduced project delivery delays— To reduce project costs, promote jobs and the economy, and expedite the movement of people and goods by accelerating project completion through eliminating delays in the project development and delivery process, including reducing regulatory burdens and improving agencies' work practices.

State Department of Transportations and Metropolitan Planning Organizations will be expected to use the information and data generated as a result of the new regulations to inform their transportation planning and programming decisions. The new performance aspects of the Federal-aid highway program that result from this rule will provide FHWA the ability to better communicate a national performance story and to assess the impacts of Federal funding investments more reliably.

The FHWA is required to establish performance measures to assess performance in 12 areas 1 generalized as follows:

- (1) Serious injuries per vehicle miles traveled (VMT);
- (2) fatalities per VMT;
- (3) number of serious injuries;
- (4) number of fatalities;
- (5) pavement condition on the Interstate System;
- (6) pavement condition on the non-Interstate NHS;
- (7) bridge condition on the NHS;
- (8) performance of the Interstate System;
- (9) performance of the non-Interstate NHS;
- (10) freight movement on the Interstate System;
- (11) traffic congestion; and
- (12) on-road mobile source emissions.

Table 3-1 in ODOT's 2015-2040 Long- Range Transportation Plan compares the 2015-2040 LRTP Goals and Performance Measures. Below is information contained in Table 3.1 of this Plan.

Table 3-1 ODOT 2015-2040 Long Range Transportation Plan

2015-2040	Recommended Performance Measure
LRTP Goals	
Safe and Secure	Reduction in traffic related fatalities and serious injuries
Travel	- Rate and number of traffic fatalities annually on all Oklahoma
	public roads
	– Rate and number of traffic-related serious injuries annually
	on all Oklahoma public roads
Infrastructure	Bridge Condition – Number of structurally deficient bridges
Preservation	Preservation of Pavement - Good/fair/poor condition index for
	NHS highways
Economic	Freight Movement
Vitality	<ul> <li>Annual freight tonnage/value for truck, rail, and barge modes</li> </ul>
	<ul> <li>Measure of freight travel time reliability and/or speed</li> </ul>
	Congestion
	<ul> <li>Travel time-based measure(s) of congestion</li> </ul>
Mobility Choice,	Public Transit- Annual rural transit vehicle revenue miles
Connectivity and	Passenger Rail - Annual ridership and on-time performance for
Accessibility	Amtrak Heartland Flyer
Environmental	Clean fuels and improved air quality - Clean fuels as a share of
Responsibility	ODOT's total fleet fuel use in gasoline gallon equivalents.
	Reduce roadway flooding and support improved water quality -
	Quantity of Litter/Debris (cubic yards or other measure of
	weight and volume) cleared from storm
	drains/culverts/roadsides

Source: Oklahoma Department of Transportation

# **Appendix 2: Current Conditions**

Appendix 2.1: Harmon County, Socio Economic Information, 2010-2014

SEX AND AGE	2010-2014	MARGIN OF	2010-2014
	ACS	ERROR	ACS %
Total population	2,883	****	2,883
Male	1,341	+/-59	46.5%
Female	1,542	+/-59	53.5%
Under 5 years	194	+/-42	6.7%
5 to 9 years	209	+/-48	7.2%
10 to 14 years	194	+/-43	6.7%
15 to 19 years	214	+/-53	7.4%
20 to 24 years	105	+/-43	3.6%
25 to 34 years	320	+/-78	11.1%
35 to 44 years	361	+/-48	12.5%
45 to 54 years	385	+/-35	13.4%
55 to 59 years	179	+/-37	6.2%
60 to 64 years	204	+/-42	7.1%
65 to 74 years	254	+/-26	8.8%
75 to 84 years	173	+/-31	6.0%
85 years and over	91	+/-34	3.2%
Median age (years)	41.2	+/-1.6	(X)
18 years and over	2,168		75.2%
21 years and over	2,066	+/-62	71.7%
62 years and over	651	+/-49	22.6%
65 years and over	518	+/-36	18.0%
65 years and over	518	+/-36	X
Male	212	+/-23	40.9%
Female	306	+/-22	59.1%
Race			
Total population	2,883	****	2,833
One race	2,731	+/-68	94.7%
Two or more races	152	+/-68	5.3%
One race	2,731	+/-68	94.7%
White	1,998	+/-68	69.3%
Black or African American	202	+/-37	7.0%

SEX AND AGE	2010-2014	MARGIN OF	2010-2014
	ACS	ERROR	ACS %
American Indian and Alaska	33	± / 22	1.1%
Native	33	+/-22	1.170
Cherokee tribal grouping	3	+/-6	0.1%
Chippewa tribal grouping	0	+/-9	X
Navajo tribal grouping	0	+/-9	X
Sioux tribal grouping	0	+/-9	X
Asian	44	+/-34	1.5%
Asian Indian	0	+/-9	X
Chinese	0	+/-9	X
Filipino	28	+/-30	1.0%
Japanese	0	+/-9	X
Korean	0	+/-9	X
Vietnamese	0	+/-9	X
Other Asian	16	+/-20	0.6%
Native Hawaiian /Other	0	+/-9	X
Pacific Islander	U	+/-9	Λ
Native Hawaiian	0	+/-9	X
Guamanian or Chamorro	0	+/-9	X
Samoan	0	+/-9	X
Other Pacific Islander	0	+/-9	X
Some other race	454	+/-71	15.7%

Source: 2010-2014 ACS

Appendix 2.2: Harmon County, Housing Occupancy 2010-2014 ACS

<u> </u>	am zizi marmon county, mousing occupancy zo zo zo z miles			
	2010- 2014 ACS	MARGIN OF ERROR	2010-2014 ACS %	
Housing Occupancy				
Total housing units	1,550	+/-37	1,550	
Occupied housing units	1,175	+/-87	75.8%	
Vacant housing units	375	+/-87	24.2%	
Homeowner vacancy rate	1.4	+/-2.2	(X)	
Rental vacancy rate	5.7	+/-6.3	(X)	

Source: 2010-2014 ACS

Appendix 2.3: Harmon County, Educational Attainment 2010 - 2014 ACS

Appendix 2.3: Harmon County, Educational Attainment 2010 - 2014 ACS								
	TO	TAL			ED POPULA			
			In publ	ic school	In privat	te school		
	2010-	MARGI	2010-	MARGIN	2010-	MARGIN		
	2014	N OF	2014	OF	2014 ACS	OF		
	ACS	<b>ERROR</b>	ACS	ERROR	%	ERROR		
Population 25	1.067	. / 72	935	. / 57	1 022	. / 47		
years and over	1,967	+/-73	933	+/-57	1,032	+/-47		
Less than 9th	11 10/	. / 2 2	10 50/	. / 2 5	11 70/	. / 2.7		
grade	11.1%	+/-2.2	10.5%	+/-3.5	11.7%	+/-2.7		
9th to 12th								
grade, no	10.1%	+/-2.6	11.6%	+/-4.0	8.8%	+/-3.3		
diploma								
High school	28.6%	. / / /	20 40/	. / 7 2	20.00/	. / [ 2		
graduate/GED	28.0%	+/-4.4	28.4%	+/-7.3	28.8%	+/-5.2		
Some college,	22.9%	+/-3.7	22.0%	+/-5.9	23.7%	+/-5.0		
no degree	22.9%	+/-3./	22.0%	+/-5.9	23.7%	+/-5.0		
Associate's	6.7%	+/-2.5	7.6%	+/-3.4	5.8%	+/-2.9		
degree	0.7 70	+/-2.5	7.0%	+/-3.4	3.0%	+/-2.9		
Bachelor's	13.0%	+/-2.7	10.6%	+/-3.1	15.1%	+/-4.1		
degree	13.070	+/-2.7	10.070	+/-3.1	13.170	+/-4.1		
Graduate or								
professional	7.6%	+/-2.4	9.3%	+/-3.7	6.0%	+/-2.8		
degree								
Percent high								
school	78.7%	+/-3.3	78.0%	+/-4.5	79.5%	+/-3.9		
graduate or	70.770	1/ 3.3	70.070	17 4.5	7 7.5 70	1/ 3.7		
higher								
Percent								
bachelor's	20.5%	+/-3.5	19.9%	+/-5.1	21.1%	+/-4.6		
degree or	20.570	'/ 3.3	17.7/0	'/ 3.1	21.1/0	1/ 1.0		
higher								

Source: 2010-2014 ACS

# <u>Appendix 2.4: Harmon County, Housing Units and Vehicles Available</u> <u>2010–2014 ACS</u>

		Occupied		occupied	Renter-occupied		
		g units		ng units		g units	
	2010-	MARGI	2010-	MARGIN	2010-	MARGIN	
	2014	N OF	2014	OF	2014	OF	
	ACS	ERROR	ACS	ERROR	ACS %	ERROR	
Occupied	1 175	. / 07	795	. / (0	380	. / 70	
Housing Units	1,175	+/-87	795	+/-68	380	+/-78	
Units in							
Structure							
1, detached	96.5%	+/-1.7	97.0%	+/-2.1	95.5%	+/-3.6	
1, attached	0.4%	+/-0.4	0.4%	+/-0.6	0.5%	+/-0.9	
2 apartments	0.0%	+/-1.7	0.0%	+/-2.5	0.0%	+/-5.1	
3 or 4	1 20/	. / 1 1	0.0%	./25	2.00/	./25	
apartments	1.3%	+/-1.1	0.0%	+/-2.5	3.9%	+/-3.5	
5 to 9	0.0%	+/-1.7	0.0%	+/-2.5	0.0%	+/-5.1	
apartments	0.070	1/ 1.7	0.0 /0	1/ 2.5	0.0 /0	1/ 3.1	
10 or more apartments	0.0%	+/-1.7	0.0%	+/-2.5	0.0%	+/-5.1	
Mobile							
home or	1.8%	+/-1.4	2.6%	+/-2.0	0.0%	+/-5.1	
other		-		-		-	
Vehicles							
Available							
No vehicle available	8.3%	+/-3.1	3.1%	+/-1.9	18.9%	+/-8.7	
1 vehicle available	36.9%	+/-5.6	29.3%	+/-6.0	52.6%	+/-10.1	
2 vehicles	32.8%	+/-5.3	37.7%	+/6/	22.4%	+/-8.5	
available	34.0%	+/-5.3	37.7%	+/-6.4	ZZ.470	+/-0.3	
3 or more							
vehicles	22.1%	+/-4.4	29.8%	+/-6.3	6.1%	+/-3.9	
available							

Source: 2010-2014 ACS

<u>Appendix 2.5: Harmon County, Employment Status and Commute to Work 2010 – 2014 ACS</u>

<u> 2010 - 2014 ACS</u>	2010-	MARGIN	2010-	MARGIN
	2014 ACS	OF ERROR	2014 ACS %	OF ERROR
<b>Employment Status</b>	ACS	ERRUR	70	ERRUR
Population 16 years and over	2,246	+/-35	2,246	(X)
In labor force	1,196	+/-94	53.3%	+/-4.3
Civilian labor force	1,196	+/-94	53.3%	+/-4.3
Employed	1,107	+/-98	49.3%	+/-4.4
Unemployed	89	+/-38	4.0%	+/-1.7
Armed Forces	0	+/-9	0.0%	+/-0.9
Not in labor force	1,050	+/-102	46.7%	+/-4.3
Civilian labor force	1,196	+/-94	1,196	(X)
Percent Unemployed	(X)	(X)	7.4%	+/-3.1
Commuting to Work				
Workers 16 years and over	1,098	+/-99	1,098	(X)
Car, truck, van - drove alone	954	+/-105	86.9%	+/-4.8
Car, truck, van - carpooled	77	+/-37	7.0%	+/-3.3
Public transit -not taxicab	0	+/-9	0.0%	+/-1.8
Walked	14	+/-14	1.3%	+/-1.3
Other means	17	+/-15	1.5%	+/-1.3
Worked at home	36	+/-22	3.3%	+/-2.0
Mean travel time to work (min)	16.2	+/-2.3	(X)	(X)

Appendix 2.6: Harmon County Occupation and Industry 2010 - 2014 ACS

Appendix 2.6: Harmon County Occupation and Industry 2010 – 2014 ACS						
Occupation	2010- 2014 ACS	MARGIN OF ERROR	2010- 2014 ACS %	MARGIN OF ERROR		
Civilian employed population 16 years and over	1,107	+/-98	1105 70	(X)		
Management, business, science, and arts occupations	383	+/-65	34.6%	+/-4.9		
Service occupations	188	+/-49	17.0%	+/-4.2		
Sales and office occupations	225	+/-52	20.3%	+/-4.3		
Natural resources, construction, and maintenance occupations	203	+/-53	18.3%	+/-4.5		
Production, transportation, and material moving occupations	108	+/-41	9.8%	+/-3.6		
Industry						
Civilian employed population 16 years and over	1,107	+/-98	1,107	(X)		
Agriculture, forestry, fishing and hunting, and mining	177	+/-58	16.0%	+/-4.7		
Construction	110	+/-42	9.9%	+/-3.6		
Manufacturing	51	+/-31	4.6%	+/-2.7		
Wholesale trade	33	+/-24	3.0%	+/-2.1		
Retail trade	100	+/-34	9.0%	+/-3.1		
Transportation and warehousing, and utilities	54	+/-28	4.9%	+/-2.4		
Information	6	+/-7	0.5%	+/06		
Finance and insurance, and real estate and rental and leasing	98	+/-39	8.9%	+/-3.5		
Professional, scientific, and management, and administrative and waste management services	34	+/-27	3.1%	+/-2.4		
Educational services, and health care and social assistance	286	+/-61	25.8%	+/-5.2		
Arts, entertainment, and recreation, and accommodation and food services	30	+/-26	2.7%	+/-2.3		
Other services, except public administration	43	+/-24	3.9%	+/-2.3		
Public administration	85	+/-30	7.7%	+/-2.9		

Occupation	2010- 2014 ACS	MARGIN OF ERROR	2010- 2014 ACS %	MARGIN OF ERROR
Class of Worker				
Civilian employed population 16 years and over	1,107	+/-98	1,107	(X)
Private wage and salary workers	688	+/-81	62.1%	+/-5.3
Government workers	264	+/-58	23.8%	+/-4.9
Self-employed in own not incorporated business workers	149	+/-43	13.5%	+/-3.5
Unpaid family workers	6	+/-9	0.5%	+/-0.8

Source: 2010-2014 ACS

Appendix 2.7: Mode of Travel to Work Harmon County ACS 2010-2014

Mode to Work	2010- 2014 ACS	2010- 2014 ACS %	MARGIN OF ERROR
Total Workers	1,098		+/-99
Drove alone	1,031	86.9%	+/-4.8
2-person Carpool	42	3.8%	+/-2.3
3-or-more-person Carpool	25	2.3%	+/-1.9
Public Transportation	0	0.0%	+/-1.8
Bike	0	0.0%	+/-1.8
Walked	14	1.3%	+/-1.3
Taxi, Motorcycle and Other means	16	1.5%	+/-1.3
Worked at Home	36	3.3%	+/-2.0

Source: 2010-2014 ACS

Appendix 2.8: Harmon County 2010 Population and Employment by TAZ

TAZ NO.	2010 POPULATION	2011-15 POPULATION	2011-2015 EMPLOYMENT
1	227	214	175
2	239	235	185
3	191	185	142
100	0	0	10
101	64	64	10
102	435	430	65
103	527	525	80
104	523	523	185
105	463	460	75
106	9	9	145
107	56	50	165
200	141	171	11

Source: SORTPO

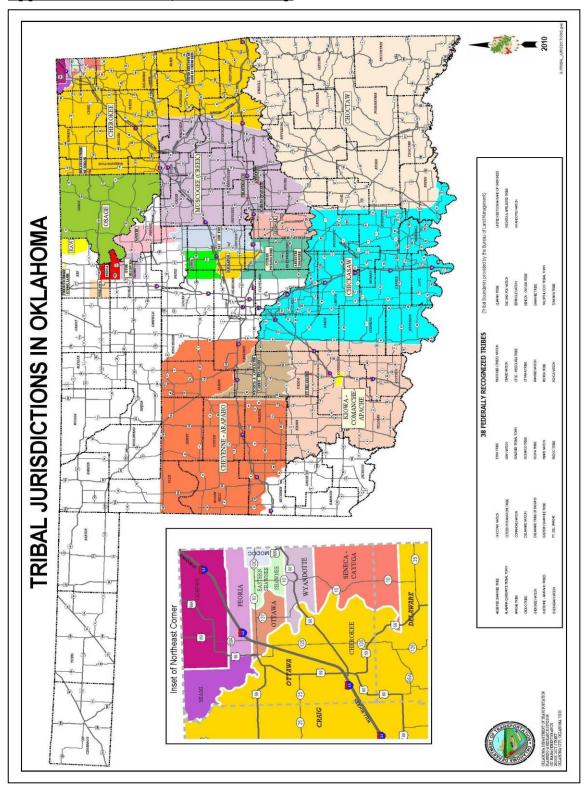
Appendix 2.9: Harmon County Major Employers

MAJOR EMPLOYER	ADDRESS	CITY	TAZ	2016 NO. of EMPLOYEES
Stockmans Bank	100 Kennedy St.	Gould	200	12
Abraham Clinic	920 N 8 <sup>th</sup> St.	Hollis	102	9
Cline Pharmacy	509 E Chestnut	Hollis	102	5-9
Colonial Manor	120 W. Versa	Hollis	105	50-99
Dixie One Stop	402 W. Broadway	Hollis	104	5-9
Dollar General	315 E. Broadway	Hollis	107	12
Dixon Kirchoff	1224 W Broadway	Hollis	107	20-49
Farmers Credit Service	920 N 8 <sup>th</sup> St.	Hollis	102	6
Gillienete Elementary	310 N. 6 <sup>th</sup>	Hollis	104	20-49
Great Plains National Bank	120 W. Jones St.	Hollis	104	45

MAJOR EMPLOYER	ADDRESS	CITY	TAZ	2016 NO. of EMPLOYEES
Harmon Memorial Hospital	400 E Chestnut St	Hollis	104	70
Harmon County Co-op	218 S. 2 <sup>nd</sup> St.	Hollis	107	6
Harmon County Courthouse	114 W. Hollis St	Hollis	104	30
Hollis Schools	415 N. Main	Hollis	104	72
Hollis Livestock Commission	921 N. 8 <sup>th</sup> St.	Hollis	101	37
Harmon Electric	114 N 1 <sup>st</sup> St.	Hollis	103	18
Hudson Equipment	514 N 8 <sup>th</sup> St.	Hollis	105	5
Love's Travel Stop	408 E. Broadway	Hollis	104	9
Motley Gin Inc.	609 E Broadway	Hollis	106	5-9
Navitas Utility Co	106 S Broadway	Hollis	105	5-9
Oklahoma Dept. of Transportation	1200 N 8 <sup>th</sup>	Hollis	101	8
Stockmans Bank	201 E Broadway	Hollis	107	6
Snider Farm Peanuts Barn	311 E. Jones St.	Hollis	104	1
Town of Hollis	208 W Jones St	Hollis	103	21
Westview Boys Home	120 W Broadway	Hollis	105	25
Western Fibers Inc.	200 N Manning	Hollis	105	6
Wright Comfort Solutions	302 W. Broadway	Hollis	104	22
United Grocery	423 E Broadway	Hollis	107	20
USPS	120 N 2 <sup>nd</sup>	Hollis	103	10-19

Source: Workforce Improvement Board, Ok Dept. of Commerce, SORTPO

## Appendix 2.10: Tribal Jurisdiction Map



#### **Appendix 2.11: Environmental and Development Concerns**

The environmental features and constraints were identified using secondary source information from the following: United States Environmental Protection Agency (USEPA), Oklahoma Geological Survey, Oklahoma Department of Fish and Wildlife Resources, Oklahoma Department for Environmental Quality (ODEQ), United States Department of Agriculture (USDA), United States

Department of the Interior Fish and Wildlife Service (USFWS), United States Geological Survey (USGS), Oklahoma University Geographic Information System (GIS) and other state and local agencies

Streams are natural corridors that provide habitat for fish, insects, wildlife and recreational benefits to people such as hunting, fishing, boating, bird watching, as well as, aesthetic benefits. Streams also OKIANOMA

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provide drinking water for wild animals, livestock and people. There are two (2) major rivers in the county, supplied by numerous streams; however, following years of extreme drought, many of these steams are dry. As of the origin of this plan, none are on the "watch list" of the Oklahoma Department of Environmental Quality (ODEQ) and none are designated as scenic waterways.

State and federal agencies classify plants and animals as threatened or endangered when their numbers are low or declining due to direct destruction (from development or pollution, for example) or loss or degradation of suitable habitat. The presence of a threatened or endangered species in an area is an indicator of a better or good quality environment. However, there is no state or federally listed endangered species specific to Harmon County.

The Special Flood Hazard Area is an area designated width along a stream or river with a 1% chance of flooding annually. These areas are protected to prevent any increase in the risks or severity of possible future floods and to maintain their natural and ecological benefits.

The National Register of Historic Places (NRHP) is a list of properties determined significant in American history, architecture, archaeology, engineering, or culture, by virtue of design or architectural criteria, association with historical persons and events, and/or value for historic or prehistoric information. Under state and federal law, NRHP listed and NRHP eligible properties are afforded equal protection from impact. NRHP properties are designated to help state and local governments, Federal agencies, and others identify important historic and archaeological resources, to ensure their protection, either through preservation, or minimization and mitigation of impact.

**Appendix 2.12: Environmental Features Table** 

DESCRIPTION	LOCATION
Harmon County Courthouse	Hollis
City Hall	Hollis
Jail	Hollis
United States Post office	Hollis

Source: SORTPO

Appendix 2.13: Harmon County Collision Total, 2012-2016

	FAT	INC INJ	NON INC INJ	POS INJ	PD	TOT
Collisions	1	7	13	7	75	103
Persons	1	10	18	12		41

Source: ODOT Traffic Engineering Div. Collision Analysis and Safety Branch (NON INC – non-incapacitating)

<u>Appendix 2.14: Harmon County Collisions by Type of Collisions, 2012 – 2016</u>

Type Of Collision	FAT	INJ*	PD	ТОТ	PCT
Rear-End (front-to-rear)		1	2	3	2.9
Head-On (front-to-front)	1			1	1.0
Right Angle (front-to-side)		1		1	1.0
Angle Turning			4	4	3.9
Other Angle					
Sideswipe Same Direction			1	1	1.0
Sideswipe Opposite Direction			2	2	1.9
Fixed Object		12	29	41	39.8
Pedestrian					
Pedal Cycle					
Animal		6	20	26	25.2
Overturn/Rollover		6	9	15	14.6
Vehicle-Train					
Other Single Vehicle Crash		1	2	3	2.9
Other			6	6	5.8

Type Of Collision	FAT	INJ*	PD	ТОТ	PCT
Total	1	27	75	103	100
Percent	1.0	26.2	72.8	100	

Source: ODOT Traffic Engineering Div. Collision Analysis and Safety Branch

Appendix 2.15: Harmon County Vehicle by Vehicle Type, 2012 - 2016

VEHICLE TYPE	FAT		PD	TOT	PCT
Passenger Vehicle-2 Door		1	5	6	5.0
Passenger Vehicle-4 Door		9	20	29	24.0
Passenger Vehicle-Convertible			2	2	1.7
Pickup Truck	1	9	34	44	36.4
Single-Unit Truck (2 axles)			2	2	1.7
Single-Unit Truck (3 or more axles)			1	1	0.8
Truck/Trailer			2	2	1.7
Truck-Tractor/Semi-Trailer		2	13	15	12.4
Motorcycle		1	2	3	2.5
Sport Utility Vehicle (SUV)		6	9	15	12.4
Passenger Van		1		1	0.8
Other			1	1	8.0
Total	1	29	91	121	100
Percent	0.8	24.0	75.2	100	

Source: ODOT Traffic Engineering Div. Collision Analysis and Safety Branch

<sup>\*</sup>Includes Incapacitating, Non-Incapacitating, and Possible Injuries

<sup>\*</sup>Includes Incapacitating, Non-Incapacitating, and Possible Injuries

**Appendix 2.16: Harmon County Collision Locations, 2012-2016** 

Appelluix 2	110.11				1011 20	Cution	<u> </u>		1							
		HIC	HWAY	ľ		CITY	STRE	ET		COUN	TY RO	AD	T	OTAL (	COLLIS	IONS
		COL	LISION	IS		COL	LISIO	NS		COL	LISION	IS				
Year	FAT	INJ*	PD	TO	FAT	INJ*	PD	TOT	FAT	INJ*	PD	TOT	FAT	INJ*	PD	TOT
		·		T		_								_		
2012		5	10	15						2	2	4		7	12	19
2013		4	12	16						3	4	7		7	16	23
2014		3	7	10						1	2	3		4	9	13
2015	1	3	18	22						1		1	1	4	18	23
2016*		2	17	19						3	3	6		5	20	25
Total:	1	17	64	82				0		10	11	21	1	27	75	103

Source: ODOT Traffic Engineering Div. Collision Analysis and Safety Branch \*Includes Incapacitating, Non-Incapacitating, and Possible Injuries

**Appendix 2.17: Harmon County Collision by Driver Action, 2012 - 2016** 

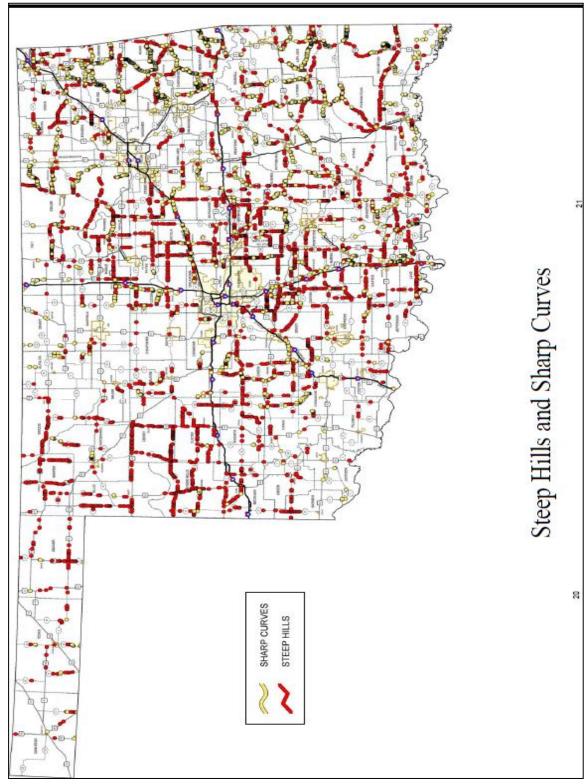
Unsafe / Unlawful	A	appar Norn			Abil		Od	olved lor ected		Slee	-		rug U dicat		_	nkno onditi			T	otal		
	Fat	Inj *	PD	Fat		Fat			Fat	Inj *	PD	Fat	Inj *	PD	Fat	Inj *	PD	Fat	Inj *	PD	Tot	PCT
Failed to Yield			3																	3	3	2.5
Failed to Stop		2																	2		2	1.7
Failed to Signal			1																	1	1	0.8
Improper Turn			1																	1	1	0.8

	Δ	ppar	ently			Alc	ohol	Invo	olved		Slee	'n	Di	rug U	Icρ	H	nknov	wn		Т	otal		
Unsafe / Unlawful		Norn	-	I	Abil mpa	ity ired			lor cted	S	uspe	-		dicat		_	onditi			1	otai		
	Fat	Inj *	PD	Fat	Inj *	PD	Fat	Inj *	PD	Fat	Inj *	PD	Fat	Inj *	PD	Fat	Inj *	PD	Fat	Inj *	PD	Tot	PCT
Improper Start			1																		1	1	0.8
Improper Stop																							
Improper Backing		1	1																	1	1	2	1.7
Improper Parking							S																
Improper Passing			7																		7	7	5.8
Improper Lane Change																							
Left of Center			1																		1	1	0.8
Following Too Close			1																		1	1	0.8
Unsafe Speed	1	8	17															1	1	8	18	27	22.3
DWI						2			1												3	3	2.5
Inattentio n		1	7								1	3					2			4	10	14	11.6
Negligent Driving			2																		2	2	1.7
Defective		1	2														1			2	2	4	3.3

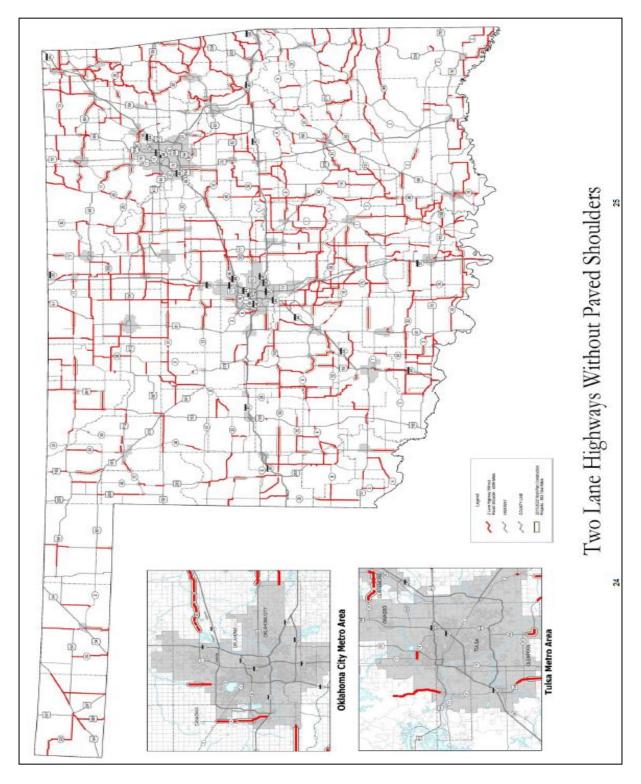
	A	npar	ently			Alc	ohol	Invo	olved		Slee	p	D	rug U	Jse	U	nkno	wn		Т	otal		
Unsafe / Unlawful		Norr	-		Abil mpa	ity ired		Od Dete	or cted	S	uspe	-		dicat		_	ondit						
	Fat	Inj *	PD	Fat	Inj *	PD	Fat	Inj *	PD	Fat	Inj *	PD	Fat	Inj *	PD	Fat	Inj *	PD	Fat	Inj *	PD	Tot	PCT
Vehicle																							
Wrong Way																							
No Improper Action		8	36													2	1		2	9	36	47	38.8
Other		2	1														1	1		3	2	5	4.1
Total	1	23	81			2			1		1	3				2	5	2	3	29	89	121	100
Percent	0.8	19	66.9			1.7			8.0		8.0	2.5				1.7	4.1	1.7	2.5	24	73.6	100	

Source: ODOT Traffic Engineering Div. Collision Analysis and Safety Branch. \*Includes Incapacitating, Non-Incapacitating, and Possible Injuries

## **Appendix 2.18: Steep Hills and Sharp Curves**

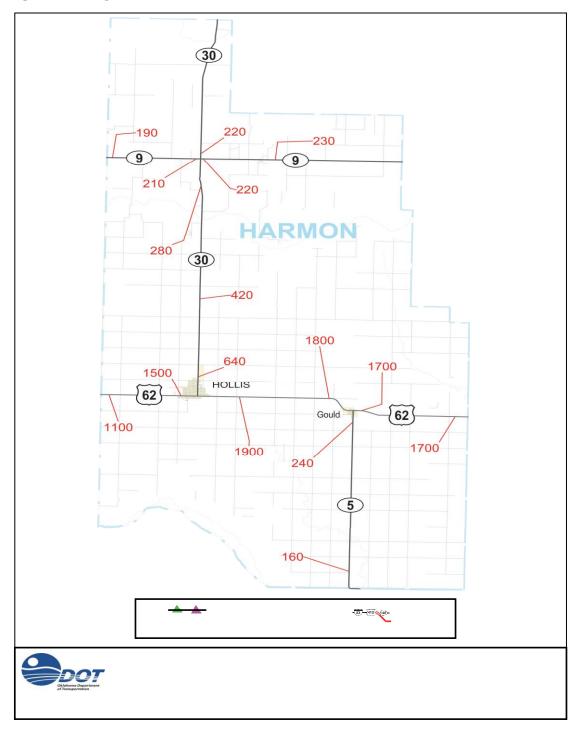


## **Appendix 2.19: Two Lane Highways Without Paved Shoulders**



### Appendix 2.20: Harmon County Traffic Count Data and Map, 2015

Existing traffic conditions were evaluated to provide an overall snapshot of the demand on the roadway system and its current ability to meet that demand. Traffic counts for the SA were obtained from ODOT. Traffic count data for 2014 and the Map illustrating the traffic count location are shown below.



#### **Appendix 2.21: Functional Classification and Road Systems**

Functional classification is the grouping of roads, streets and highways into integrated systems ranked by their importance to the general welfare, motorist and land use structure. It is used to define the role that any particular road should play in providing mobility for through movements and access adjoining land. This grouping acknowledges that roads have different levels of importance and provides a basis for comparing roads fairly.

Functional classification can be used for, but is not limited to, the following purposes:

- Provide a framework for highways serving mobility and connecting regions and cities within a state.
- Provide a basis for assigning jurisdictional responsibility according to the overall importance of a road.
- Provide a basis for development of minimum design standards according to function.
- Provide a basis for evaluating present and future needs.
- Provide a basis for allocation of limited financial resources.

Historically, one of the most important uses of functional classification of streets has been to identify streets and roads that are eligible for federal funds. The original federal aid primary, federal aid secondary, federal aid urban and national interstate systems all relied on functional classification to select eligible routes. In 1991, the Intermodal Surface Transportation Efficiency Act (ISTEA) eliminated the primary, secondary and urban federal aid systems and created the National Highway System (NHS). ISTEA continued the requirement that a street, road or highway had to be classified higher than a "local" in urban areas and higher than a "local" and "minor collector" in rural areas before federal funds could be spent on it. The selection of routes eligible for NHS funding was also based on functional criteria. While eligibility for federal funding continues to be an important use for functional classification, it has also become an effective management tool in other areas of transportation planning.

Streets are grouped into functional classes according to the character of service they are intended to provide. Oklahoma's Functional Classification system undergoes a comprehensive review after each decennial U.S. Census. The functional classification of streets includes the following functional classes: Interstate, Freeway, Rural Principal Arterial, Rural Minor Arterial, Rural Major Collector and Rural Minor Collector.

Rural Principal Arterial - A rural principal arterial road includes the following service characteristics:

 Traffic movements with trip length and density suitable for substantial statewide travel.

- Traffic movements between urban areas with populations over 25,000.
- Traffic movements at high speeds.
- Divided four-lane roads.
- Desired LOS C.

Rural Minor Arterial - A rural minor arterial road includes the following service characteristics:

- Traffic movements with trip length and density suitable for integrated interstate or inter-county service.
- Traffic movements between urban areas or other traffic generators with populations less than 25,000.
- Traffic movements at high speeds.
- Undivided four-lane roads.
- Striped for one or two lanes in each direction with auxiliary lanes at intersections as required by traffic volumes.
- Desired LOS C.

Rural Major Collector - A rural major collector road includes the following service characteristics:

- Traffic movements with trip length and density suitable for inter-county service.
- Traffic movements between traffic generators, between traffic generators, larger cities and between traffic generators and routes of a higher classification.
- Traffic movements subject to a low level of side friction.
- Development may front directly on the road.
- Controlled intersection spacing of 2 miles or greater.
- Striped for one lane in each direction with a continuous left turn lane.
- Desired LOS C.

Rural Minor Collector - A rural minor collector road includes the following service characteristics:

- Traffic movements between local roads and collector roads.
- Traffic movements between smaller communities and developed areas.
- Traffic movements between locally important traffic generators within their remote regions.
- Two-lane undivided roads with intersections at grade and designed to take a minimum interference of traffic from driveways appropriate to a rural setting.
- Striped for one lane in each direction.
- Desired LOS B.

Rural Local Road - A rural local road includes the following service characteristics:

- Two-lane undivided roads with intersections at grade.
- Traffic movements between collectors and adjacent lands.
- Traffic movements involving relatively short distances.
- Desired LOS A.

#### Level of Service

Street Capacity: The measure of a street's ability to accommodate the traffic volume along the street.

Level of Service (LOS): A phrase representative of several factors, including speed, travel time, traffic interruptions and operating cost of a traffic facility (roadway), used to measure the quality of the facility.

Level of Service Ranges from LOS A: Indicates good operating conditions with little or no delay, to LOS F, which indicates extreme congestion and long vehicle delays.

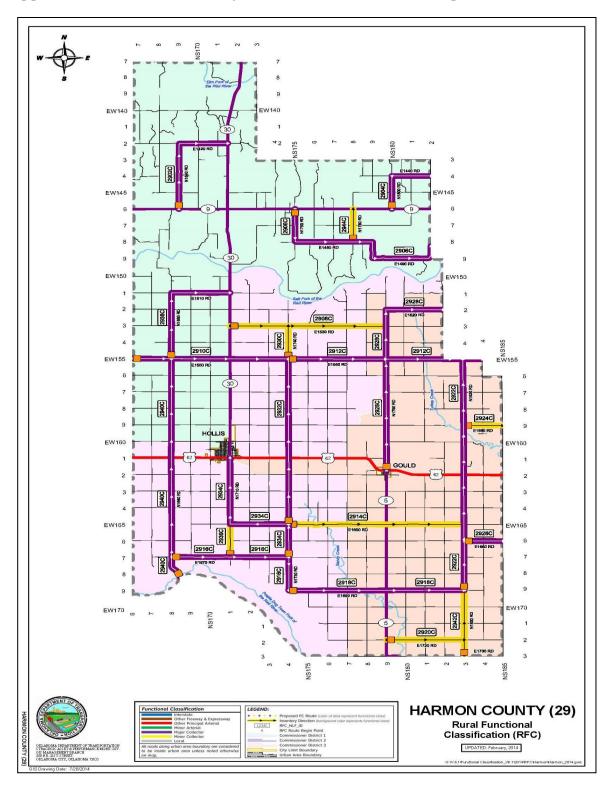
The following is a list of the various LOS with abbreviated definitions from the Highway Capacity Manual:

- LOS A: Describes a condition with low traffic volumes with little or no delays. There is little or no restriction in maneuverability due to the presence of other vehicles. Drivers can maintain their desired speeds and can proceed through signals without having to wait unnecessarily. Operating capacity can be measured as less than thirty percent (30%) of capacity.
- LOS B: Describes a condition with stable traffic flow with a high degree of choice to select speed and operating conditions, but with some influence from other drivers. Operating capacity can be measured as less than fifty percent (50%) of capacity.
- LOS C: Describes the beginning of the range of flow in which the operation of individual users becomes significantly affected by interactions with others in the traffic stream. LOS C is normally utilized as a measure of "average conditions" for design of facilities in suburban and urban locations. Operating capacity can be measured as less than sixty-nine percent (69%) of capacity.
- LOS D: Describes high density flow in which speed and freedom to maneuver is severely restricted even though flow remains stable. LOS D is considered acceptable during short periods of time and is often used in large urban areas. Operating capacity can be measured as less than seventy percent (70%) to ninety percent (90%) of capacity.

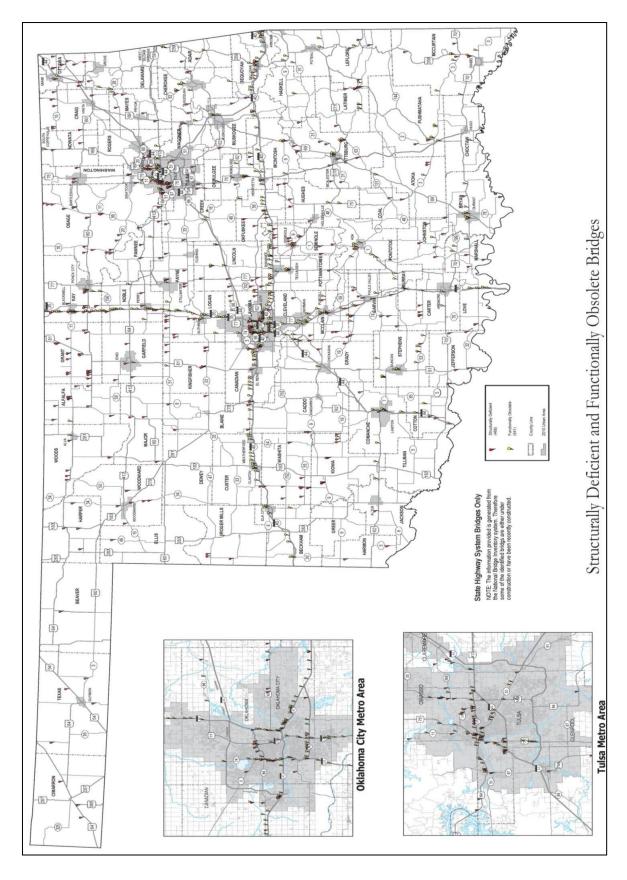
- LOS E: Describes operating conditions at or near capacity. Operations at this level are usually unstable, because small increases in flow or minor disturbances within the traffic stream will cause breakdowns. Operating capacity can be measured as between ninety percent (90%) to ninety-nine percent (99%) of capacity.
- LOS F: Is used to define forced or breakdown flow. This condition exists whenever the amount of traffic approaching a point exceeds the amount that can be served. LOS F is characterized by demand volumes greater than the roadway capacity. Under these conditions, motorists seek other routes in order to bypass congestion, thus impacting adjacent streets. Operating capacity can be measured above one hundred percent (100%) of capacity.

Future increases in traffic volume can be traced to population growth and land use development patterns. Capacity and LOS can also be diminished by increasing the number of access points and median cuts on the road network.

## **Appendix 2.22: Harmon County Functional Classification Map**



## **Appendix 2.23: Structurally Deficient and Functionally Obsolete Bridges**



**Appendices 2:24 Harmon County On System Bridges with Sufficiency Rate** 

	2:24 Harmon County on System	SUFFICIENCY	YEAR	ADT	ADT
FACILITY	LOCATION	RATE	BUILT	TOTAL	YEAR
US 62	0.2 MI. E JCT SH 30	87.2	1927	2300	2015
US 62	3.0 MI. E TEXAS ST. LINE	90.6	1931	900	2015
US 62	3.3 MI. E JCT SH 30	92.3	1931	1700	2015
US 62	1.7 MI. W JCT SH 5	87.1	1931	1700	2015
US 62	1.2 MI. E Texas St. Line	84.1	1931	900	2015
US 62	3.7 MI. E Texas St. Line	84.1	1931	900	2015
US 62	4.0 MI. E Texas St. Line	86.8	1931	900	2015
US 62	3.3 MI. E Texas St. Line	86.7	1931	900	2015
US 62	2.5 MI. W JCT SH 5	85.6	1931	1700	2015
US 62	2.2 MI. E JCT SH 5	92.7	1932	1600	2015
US 62	2.7 MI. W Jackson C/L	92.7	1932	1600	2015
SH 30	1.7 MI. S JCT SH 9	97.4	1933	410	2015
SH 9	1.0 MI. E Texas St. Line	94.2	1933	160	2015
SH 30	6.2 MI. N JCT US 62	87.5	1974	410	2015
SH 30	3.4 MI. N. JCT. US 62	84.1	1974	410	2015
SH 30	0.1 MI. N JCT US 62	81.9	1975	1200	2015
SH 30	0.2 MI. N JCT US 62	87.1	1975	1200	2015
SH 30	7.4 MI. N JCT SH 9	94.1	1946	180	2015
SH 30	7.5 MI. N JCT SH 9	97	1946	180	2015
SH 30	4.3 MI. N JCT SH 9	81.7	1946	210	2015
SH 30	2.9 MI. N JCT SH 9	97.8	1946	210	2015
SH 5	3.7 MI. S JCT US 62	94.8	1952	250	2015
SH 5	3.3 Jackson C/L	99.6	2014	250	2015
US 62	0.3 MI. E Texas St. Line	75	1931	900	2015

FACILITY	LOCATION	SUFFICIENCY RATE	YEAR BUILT	ADT TOTAL	ADT YEAR
US 62	2.7 MI. E JCT SH 30	77.6	1931	1800	2015
SH 5	1.7 MI. N Jackson C/L	99.4	1932	250	2015
SH 5	6.1 MI. N Jackson C/L	99.4	1932	250	2015
SH 30	11.2 MI. N JCT US 62	41.4	1939	410	2015
SH 30	7.8 MI. N JCT SH 9	68.3	1940	180	2015
SH 30	11.2 N JCT US 62	-1	1901	-1	-1
SH 5	3.3 MI. N Jackson C/L	54.2	1932	250	2012
SH 30	7.8 N JCT SH 9	-1	1901	-1	-1

Source: ODOT

**Appendices 2:25: Harmon County Off System Bridges** 

LOCATION	SUFFICIENCY	YEAR BUILT	ADT TOTAL	ADT YEAR	OWNER
6.5 N OF GOULD	36.9	1947	100	1999	County
0.5 E 1.0 S OF VINSON	18.6	1920	75	1999	County
OKLATEXAS STATE LINE	38.7	1926	50	2012	County
4 MI. E 3.5 MI. S GOULD	58.9	1937	75	2006	County
2.5 N 2.2 W OF ELDORADO	48.4	1940	100	2006	County
5.5 W 4.0 N OF VINSON	40	1940	50	1999	County
7 MI. S 2 MI. W GOULD	15.4	1910	100	1999	County
1.1 MI. N OF US 62	35.9	1937	50	2010	County
3.0 E 0.4 S OF HOLLIS	37.9	1937	70	2002	County
0.1 MI. E SH 30	36.9	1950	100	1999	County
5.8E N of VINSON	96	1920	50	2015	County
6.0 S 1.5 W OF HOLLIS	97	1930	40	2015	County
5.4 MI. N OF US 60	92.1	1936	50	2015	County
6.5 N OF GOULD	100	1993	100	2015	County
7 MI. S 2 MI. W GOULD	100	1994	60	2015	County
0.5 E & 1.0 S OF VINSON	100	2000	75	2015	County
0.1 MI. E SH 30	100	1997	100	2015	County
5.5 W 4.0 N OF VINSON	97	1996	50	2015	County
3.6 W & 6.5 S OF HOLLIS	96	2000	24	2015	County
OKLATEXAS STATE LINE	99.8	2013	50	2015	County
3E OF HOLLIS, .5S US62	100	2004	100	2015	County
5.8 N OF GOULD	93.1	1940	100	2015	County
3.0 N OF GOULD	93.1	1940	100	2015	County
5.9 N OF GOULD	97	1947	100	2015	County

LOCATION	SUFFICIENCY	YEAR BUILT	ADT TOTAL	ADT YEAR	OWNER
2.0 W 1.0 S OF HOLLIS	99	1962	70	2015	County
1.4 W 6. N OF HOLLIS	93.1	1937	100	2015	County
5.5S & E OF US 62	97	1937	70	2015	County
4E 6.8S of GOULD	93.1	1937	75	2015	County
3.0 S 0.2 E OF GOULD	93.1	1938	50	2015	County
3.0 S 3.3 E GOULD	93.1	1938	50	2015	County
2.0 W 5.0 S OF HOLLIS	100	1962	100	2015	County
1S of US 62	100	1983	100	2015	County
2.6 MI. N OF US 60	100	1984	50	2015	County
1.4 S 3.3 E OF VINSON	100	1986	60	2015	County
2.0 W 1.8 S OF HOLLIS	97	1962	100	2015	County
2.0 W 0.1 S OF HOLLIS	97	1962	100	2015	County
2.0 W 0.2 S OF HOLLIS	99	1962	100	2015	County
2.4 MI. N OF US 62	100	1982	100	2015	County
3.0 E 2.7 S OF HOLLIS	71	1982	60	2015	County
7 MI. S GOULD	100	1983	50	2015	County
0.8 MI. W OF GREER C/L	89.7	1940	50	2008	County
2. S 2.8 E OF HOLLIS	38	1950	50	2002	County
1.1S 1.3E OF VINSON	33.9	1940	50	2012	County
3. N 2.1 E OF GOULD	40	1950	50	1999	County
.3 S 3.5 W OF HOLLIS	31.9	1950	100	1999	County
2.8 N 4.5 E OF HOLLIS	32.9	1950	50	1999	County
4. N .8 W OF HOLLIS	31.9	1950	100	1999	County
9. S .5 E OF MC QUEEN	32.9	1960	100	1999	County
8.2 S .5 E OF GOULD	26.3	1970	100	1999	County

LOCATION	SUFFICIENCY	YEAR BUILT	ADT TOTAL	ADT YEAR	OWNER
5.5 N .5 W OF HOLLIS	34.9	1940	60	2010	County
1. E 8.2 S OF GOULD	32.9	1960	100	1999	County
3.7 S .9 W OF GOULD	33.9	1950	50	2010	County
2.8 N 1.9 E OF GOULD	27.3	1930	100	1999	County
7.1 W 2. N OF VINSON	32	1940	30	2012	County
1.7 S 6.7 W OF VINSON	24.2	1940	50	2012	County
9. N 4. W OF VINSON	33	1950	24	1999	County
6.3 N 1.1 E OF GOULD	33.9	1950	50	2010	County
5.9 N 2.1 E OF GOULD	38	1928	50	2006	County
5. N 1.6 W OF MC QUEEN	27.4	1938	50	1999	County
1.8 S 2.5 E OF HOLLIS	33.9	1936	50	2002	County
2. E 1. N OF HOLLIS	32.9	1940	100	1999	County
4.5 E 1. S OF VINSON	24.2	1940	100	1999	County
3. E 3. N OF HOLLIS	31.9	1940	100	1999	County
2. N 2.3 W OF HOLLIS	34.9	1940	100	1999	County
1.4 S 2.3 E OF VINSON	24.4	1940	50	1999	County
6.4 E 1. N OF VINSON	32.9	1940	50	1999	County
.5 W .5 S OF HOLLIS	32.5	1959	60	1999	County
3.5 S 2.9 W OF GOULD	37	1928	50	2004	County
.6 E 5. N OF HOLLIS	34.9	1950	100	1999	County
2.1 E 11.2 S OF GOULD	93.1	1930	100	2015	County
2. N 1.5 E OF HOLLIS	81.1	1937	70	2015	County
4.1 N .5 W OF HOLLIS	93.1	1937	60	2015	County
2.1 E .2 S OF GOULD	93.1	1937	50	2015	County
2. E 1. N OF HOLLIS	100	1993	60	2015	County

LOCATION	SUFFICIENCY	YEAR BUILT	ADT TOTAL	ADT YEAR	OWNER
1.8 N 1.1 E OF GOULD	93.1	1938	50	2015	County
4. N .8 W OF HOLLIS	100	1994	60	2015	County
1.4 S 2.3 E OF VINSON	100	1998	50	2015	County
5.0 N & 1.6 W OF MCQUEEN	100	2001	50	2015	County
2.8 N 1.9 E OF GOULD	100	1996	50	2015	County
0.5 W & 0.5 S OF HOLLIS	100	2000	60	2015	County
3N 2.1E of GOULD	100	2001	50	2015	County
2.8N 4.5E of HOLLIS	100	2001	50	2015	County
6.4E 1N OF VINSON	100	2001	50	2015	County
3.5S 2.9W OF GOULD	100	2006	50	2015	County
1.7 MI. W 2. M N HOLLIS	100	2006	100	2015	County
3.0 MI. N & 2. 3 MI. E OF HOLLIS	100	2009	63	2015	County
4E, 4.1S GOULD	100	2008	75	2015	County
4E, 3.5S GOULD	100	2008	75	2015	County
7.2S 1.5E of GOULD	97	2008	50	2015	County
6.9N 1.2E of GOULD	100	2010	50	2015	County
6.3N & 1.1E OF GOULD	100	2012	50	2015	County
2S 2.8E OF HOLLIS	100	2003	100	2015	County
1.1S 1.3E OF VINSON	100	2014	50	2015	County
1.8S 2.5E OF HOLLIS	100	2004	100	2015	County
3.2S 2.5W OF VINSON	99.8	2009	50	2015	County
6.3 E .9 N OF VINSON	100	1992	100	2015	County
5.9N 2.1E OF GOULD	100	2007	50	2015	County
1. E 3. N OF HOLLIS	93.1	1938	50	2015	County

LOCATION	SUFFICIENCY	YEAR BUILT	ADT TOTAL	ADT YEAR	OWNER
6.1 N .9 W OF GOULD	92.1	1938	50	2015	County
4.5 W .1 N OF HOLLIS	93.1	1938	60	2015	County
1. S 1.3 E OF MC QUEEN	97	1954	60	2015	County
1.3 E 8.2 S OF GOULD	93.1	1937	60	2015	County
1.4 E 2. N OF HOLLIS	80.1	1937	70	2015	County
4N .4W of HOLLIS	82.1	1937	70	2015	County
.6 W 5.8 N OF GOULD	93.1	1938	50	2015	County
2. E 8.2 S OF GOULD	66.1	1938	60	2015	County
1.6 W 6. N OF MC QUEEN	93.1	1938	50	2015	County
7. S .5 E OF MC QUEEN	66.1	1938	100	2015	County
7.3S 1.9W of GOULD	98	1983	50	2015	County
3.2 S 2.5 W OF VINSON	39.6	1935	50	2008	County
2.4N 4.7W of VINSON	97.9	1983	100	2015	County
0.3 S 0.5 W OF HOLLIS	89	1987	100	2015	County
.8 E 11.2 S OF GOULD	100	1989	100	2015	County
2.3 S 1.3 W OF GOULD	100	1991	50	2015	County
1.2 N 7.3 E OF VINSON	100	1991	60	2015	County
2.5 N & 2.2 W OF ELDORADO	100	2008	100	2015	County

Source: ODOT

#### Appendix 2.26: National Highway Freight Network - Oklahoma

The NHFN includes the following subsystems of roadways:

- **Primary Highway Freight System (PHFS):** This is a network of highways identified as the most critical highway portions of the US freight transportation system determined by measurable and objective national data. The network consists of 41,518 centerlines miles, including 37,436 centerline miles of Interstate and 4,082 centerline miles of non-Interstate roads.
- Other Interstate portions not on the PHFS: These highways consist of the remaining portion of Interstate roads not included in the PHFS. These routes provide important continuity and access to freight transportation facilities. These portions amount to an estimated 9,511 centerline miles of Interstate, nationwide, and will fluctuate with additions and deletions to the Interstate Highway System.
- **Critical Rural Freight Corridors (CRFCs):** These are public roads not in an urbanized area which provide access and connection to the PHFS and the Interstate with other important ports, public transportation facilities, or other intermodal freight facilities.
- **Critical Urban Freight Corridors (CUFCs):** These are public roads in urbanized areas which provide access and connection to the PHFS and the Interstate with other ports, public transportation facilities, or other intermodal transportation facilities.

Primary Highway Freight System (PHFS) Routes			
ROUTE No.	START POINT	END POINT	LENGTH (MILES)
Creek Type	I44	U75	4.9
I240	I44	I35	4.61
I244	OK3R	I44	3.52
I35	TX/OK Line	OK/Ks Line	236.13
I40	TX/OK Line	I35	151.76
I40	I35	OK/AR line	177.96
I44	I240	4.68 Miles North of I40	7.92
I44	I35	OK/MO Line	194
U412	OK6P	I44	6.4
Subtotal			787.19

PHFS Intermodal			
Connectors			
		FACILITY	LENGTH
FACILITY ID	FACILITY NAME	DESCRIPTION	(MILES)
OK2L	Williams	21st St. (33rd W.	
	Pipeline Station	Avenue to Burlington	
		Northern RR at 23rd	
		St.)	1.27
OK3R	Burlington	23rd St. (BN Terminal	
	Northern	to Southwest Avenue)	
	Railroad	SW Avenue (23rd St. to	
		I-244 ramp.)	0.56
OK5P	Port of Catoosa	SR 266 (Port to US	
		169)	11.42
OK6P	Johnston's Port		
	33 (Verdigris	From US 412/NS 414,	
	River near	south 0.25 miles, east 1	
	Muskogee)	mile to Terminal	1.14
Subtotal			14.39
PHFS TOTAL			801.58

Interstate Not on the PHFS			
ROUTE No.	START POINT	END POINT	LENGTH (MILES)
I235	I40	I44	5.14
I240	I35	I40	11.68
I244	S. 21st St.	I44	12.24
I44	TX/OK Line	I240	114.91
	0.35 miles S. of		
I44	S66	I35	7.7
I444	I244 S	I244 N	2.5
Subtotal			154.15

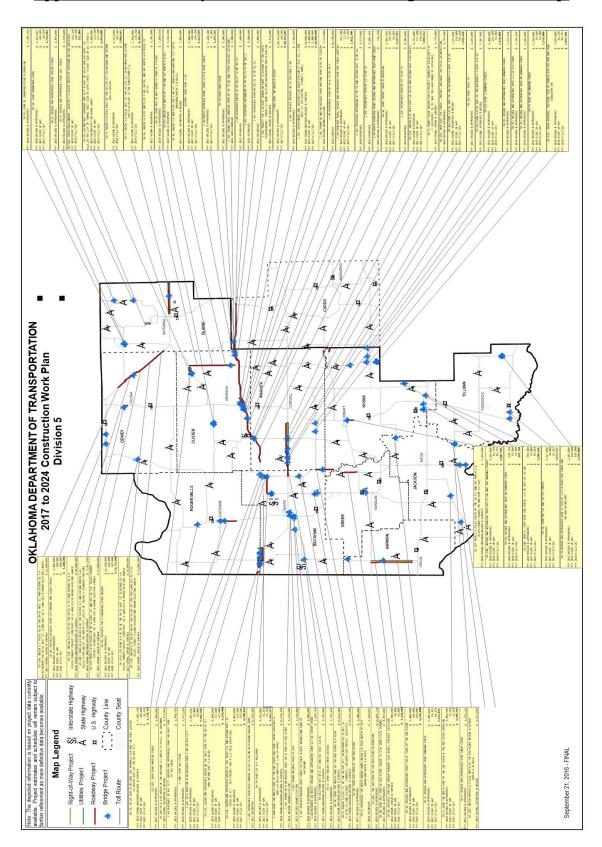
## **Appendix 3: Future Conditions**

<u>Appendix 3.1: Harmon County 2040 Population and Employment Projections</u> <u>by TAZ</u>

TAZ NO.	2010 POPULATION	2040 POPULATION	2040 EMPLOYMENT
1	227	171	115
2	239	185	135
3	191	156	115
100	0	0	4
101	64	35	4
102	435	345	35
103	527	385	59
104	523	395	135
105	463	325	40
106	9	5	85
107	56	40	115
200	141	135	8

Source: SORTPO

### Appendix 3.2: ODOT 8-year Construction Work Program 2017-2024 Map



## **Appendix 4: Financial**

**Appendix 4.1: Federal Funding Categories** 

	eral Funding Categories
Streets &	
Highways	
Federal Highway Administration Formula Program	<ul> <li>Bridge Replacement and Rehabilitation (BR)</li> <li>Congestion Mitigation/Air Quality (CMAQ)</li> <li>Highway Safety Improvement Program (HSIP)</li> <li>Interstate Maintenance (IM)</li> <li>National Highway System (NHS)</li> <li>Surface Transportation Program (STP) (Statewide, Urbanized Area, Enhancement and Safety)</li> </ul>
Federal Highway Administration Discretionary Programs:	<ul> <li>American Recovery and Reinvestment Act of 2009 (ARRA</li> <li>Demonstration Funds</li> <li>High Priority Projects (HPP)</li> <li>Intelligent Transportation Systems (ITS)</li> <li>Transportation Community Systems Preservation (TCSP)</li> <li>Other Discretionary Earmarks</li> </ul>
Federal Transit Administration Formula Programs	<ul> <li>Sec. 5307 – Urbanized Area Funds (Oklahoma City UZA and Norman UZA)</li> <li>Sec. 5310 – Elderly and Persons with Disabilities Program</li> <li>Sec. 5311 – Non-Urbanized Area Formula Program</li> <li>Sec. 5316 – Jobs Access and Reverse Commute (JARC)</li> <li>Sec. 5317 – New Freedom (NF)</li> <li>Congestion Mitigation/Air Quality (CMAQ) – Transferred from FHWA to FTA</li> </ul>
Federal Transit Administration	Discretionary Programs:  • Sec. 5309 – Discretionary Capital Program  • Other Discretionary Earmarks
Public Transit Revolving Fund	
Railroad	

Source: FHWA

**Appendix 4.2: Funding Category Summary** 

State	FUNDING ELIGIBILITY
County Equipment Revolving Fund	
Industrial, Historic site and Lake Access Funds	Can be used on city streets and county roads.
County Improvements for Roads and Bridges, (CIRB)	Only contract projects let thru ODOT
Federal	
Federal Bridge Funds Bridge Replacement Funds (BR)	Bridge < 50 sufficiency rating & functionally obsolete or structurally deficient.
Bridge Rehabilitation (BH)	Bridge between 50 & 80 sufficiency rating.
Preventive Maintenance (PM)	Must have a systematic process for project selection.
Safety Bridge Inspection	
	Mandated by the Federal Highway Administration, FHWA, on bridge length structures.
Surface Transportation Program	Road projects, grade, drain and surface on county major and minor collectors. Funding may provide up to 80 percent of the construction costs. Local governments fund the remaining 20 percent match plus costs for engineering, right of way and utility relocation.
Emergency Relief (ER) Funds	Disaster funding.
Emergency Transportation and Revolving Fund (ETR)	The funds are split amongst the eight CEDs. Counties can apply to their CED and borrow any amount of money from the fund.
Circuit Engineering District Revolving fund	
County Road & Bridge Improvement Fund (CBR)	County Built, contract projects and maintenance on roads/bridges

Source: ODOT

**Appendix 4.3: Apportionment of Statutory Revenues** 

Appendix 4.5: A	pportionment of S			EV 2014 15
C' as 'I	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15
Circuit Engineering District Revolving Fund	\$4,463,612.89	\$3,759,042.61	\$4,257,973.22	\$3606,553.448
Counties for Bridge & Road Improvement	\$29,469,291.00	\$24,556,139.05	\$28,025,910.64	\$23,430,017.08
Counties for Roads	\$233,167,431.04	\$224,693,222.81	\$252,415,798.31	\$254,470,157.23
County Improvement Road and Bridge Revolving Fund	\$96,381,44.43	\$99,297,039.31	\$129,693,227.84	\$138,133,545.79
County Road Fund	\$16,567,078.24	\$17,075,040.15	\$18,701,249.31	\$17,701,249.31
County Road Improvement Revolving Fund	\$23,162,249.21	\$23,869,001.05	\$26,138,425.71	\$26,138,425.71
High Priority State Bridge Revolving Fund	\$6,3036,200.98	\$5,932,688.65	\$6,159,069.25	\$6,225,331.10
Public Transit Revolving Fund	\$3,850,000.00	\$3,850,000	\$3,850,000	\$3,850,000
Railroad Maintenance Fund	\$666,387.67	\$716,415.44	\$837,887.56	\$826,792.79
Rebuild Oklahoma Access & Driver Safety Fund	\$250,700,000.00	\$292,400,000.00	\$352,100,000.00	\$411,800,000.00
State Hwy. Construction & Maintenance Funds	\$2,079,421.18	\$3,123,679.15	\$7,246,116.42	\$4,785,497.76
State Transportation Fund	\$208,864,879,28	\$204,316,899.57	\$213,905,376.86	\$214,115,706.14

Source: Oklahoma Tax Commission

**Appendix 4.4: Harmon County CIRB Funding FY 2017-2021** 

	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL
Harmon	\$350,000	\$0	\$0	\$4,800,000	\$0	\$5,150,000

Source: ODOT

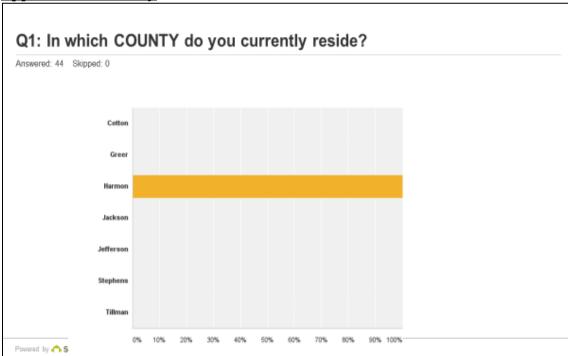
### **Appendix 5: Public Participation**

**Appendix 5.1: Harmon County Socio Economic Characteristics** 

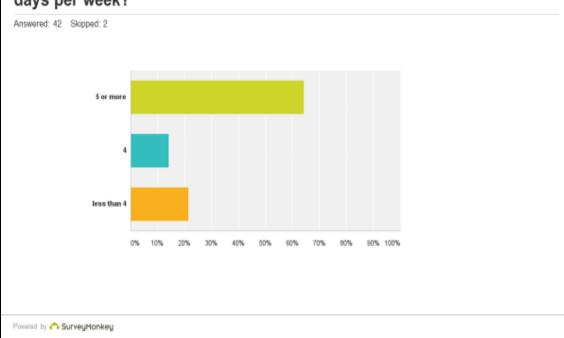
Appendix 3.1. Harmon county socio Econ	Harmon
	County
Total Population (2010 Census)	2,866
Average household size	2.54
Average household income	\$31,250
Median age	41.1
Persons 65 years and over	17.3%
Median selected monthly owner costs	\$1,174
with mortgage*	
Median gross rent*	\$480
Percent in poverty*	17.5%
Percent with a disability under age 65 years*	11.7%
Percent without health insurance	16.5%
coverage, under 65 years	4.007
Percent veterans	4.9%
Percent foreign born*	2.6%
Language other than English spoken at	20.7%
home, 5 years and older*	
Mean travel time to work (min)	15.6

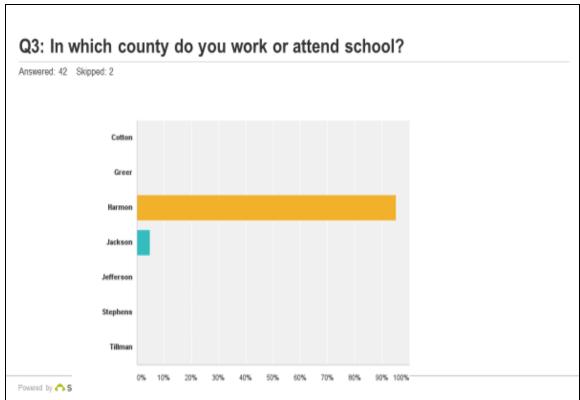
Source: US Census - \*2010-2014 ACS

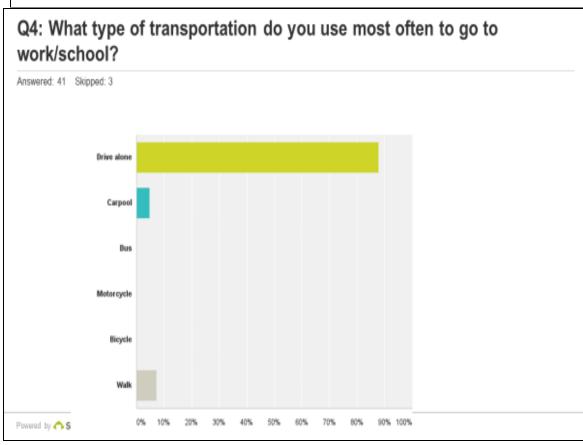
#### **Appendix 5.2: Survey**

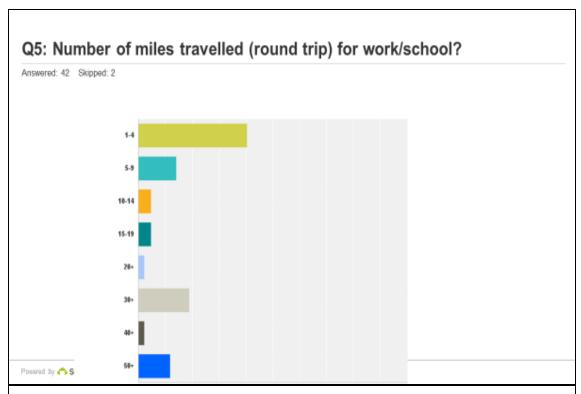


## Q2: If you work or attend school outside the home, how many days per week?

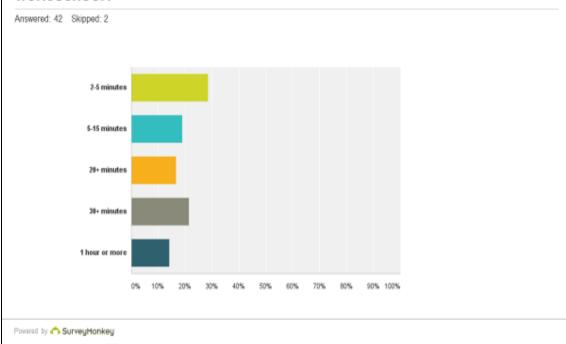


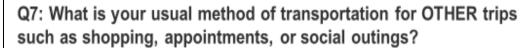


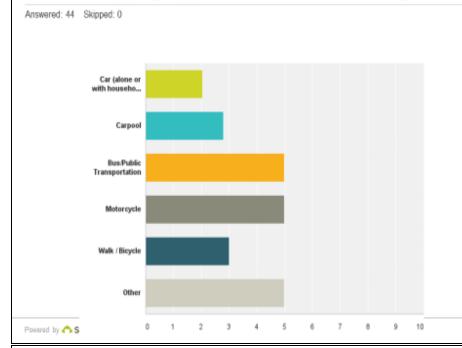




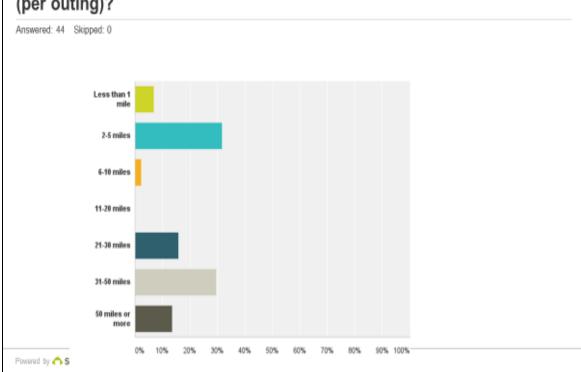
# Q6: How much TIME does it usually take to travel (round trip) to work/school?

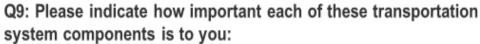


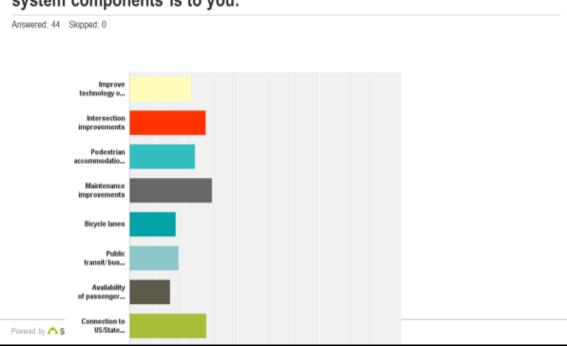




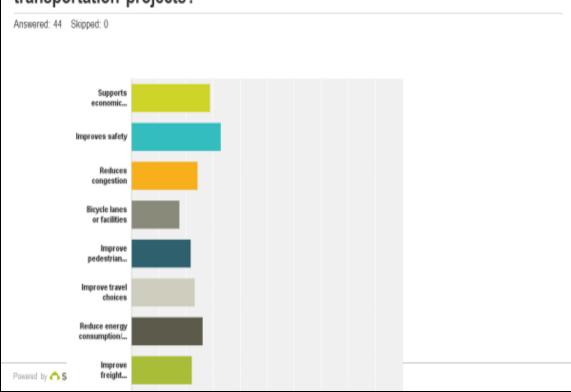
# Q8: How many miles do you usually travel for these other trips (per outing)?







# Q10: Which do you think should be a priority when selecting transportation projects?

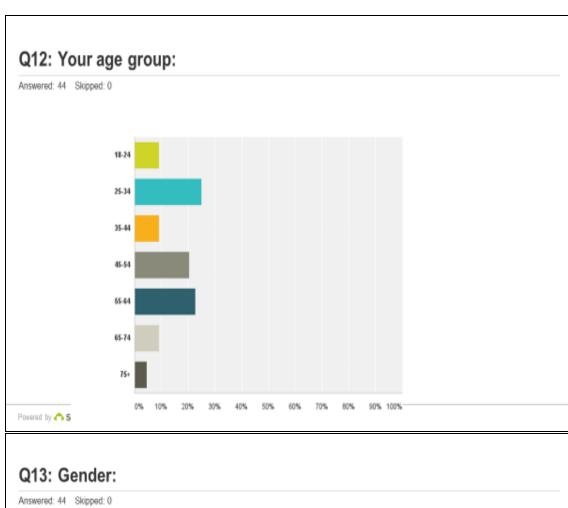


Survey for 2040 Regional Transportation Plan

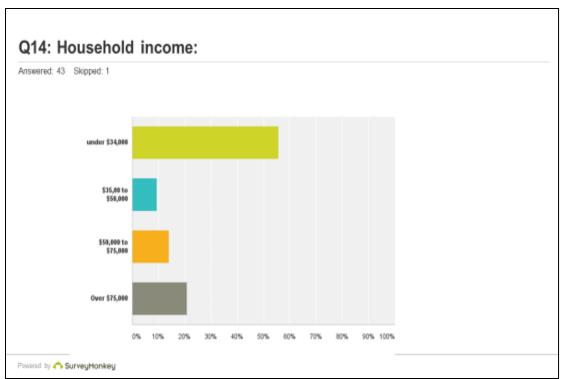
## Q11 What are some specific locations with traffic problems that you encounter?

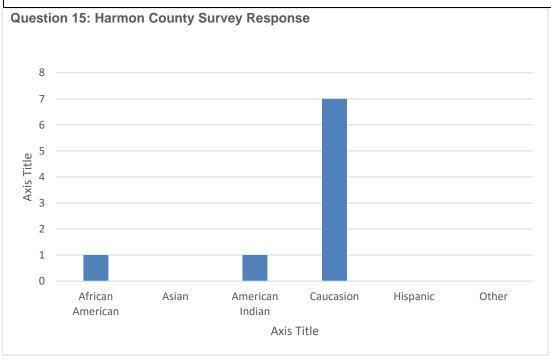
Answered: 14 Skipped: 40

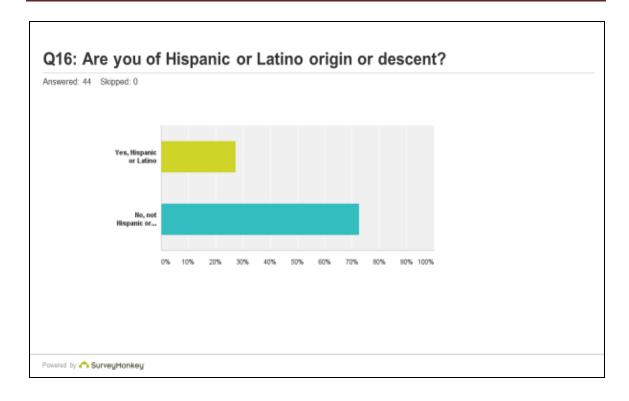
#	RESPONSES	DATE
	Two lane highways need some passing lanes and shoulders widened.	6/12/2017 9:50 AM
2	Not enough room on sides of HWY 62 to pull offiftrouble occurs. Very difficult to pass anothe vehicle for miles because of curves or hills between Hollis and Gould. Roads are rough hard on tires and vehicles.	6/12/2017 9:43 AM
3	Most of the roads in our county are in poor condition. People regularly have to slow traffic to move down rough roads. Lack of shoulders creates danger for cars when they have trouble on the road. There are regular accidents and even fatalities from people trying to exit and enter our highways.	5/16/2017 7:02 AM
4	All the roads I use in Harmon County need attention. From potholes, repaving and graded. Some roads washout when it rains.	5/15/2017 10:20 AM
5	Red River Bridge- Altus	5/15/2017 10:11 AM
6	backroads	4/20/2017 3:05 PM
7	Back roads in town	4/20/2017 3:02 PM
8	people not stopping at stop signs and not yielding.	4/20/2017 2:57 PM
9	Any where with yield signs Nobody uses yield signs in Harmon Co.	4/20/2017 2:55 PM
10	Hollis-St/Inters safety pllis, Ok school zone at 3:00 p.m. not enough signal traffic control very congested.	4/17/2017 1:04 PM
11	none	3/14/2017 5:26 PM
12	Highways laintenance The road from Hollis, Oklahoma to Altus, Oklahoma many times has debris which is a hazard.	2/17/2017 1:06 PM
13	Maintenance Rd/Birg repair close Roads County side roads-not always smooth or wide enough	2/16/2017 3:04 PM
14	Freight (aintenance R) ads County and Roads are horrible and very damaging to our farm equipment.	2/14/2017 9:35 AM











#### **Appendix 5.3: Public Outreach**

On February 9,2017, a stakeholder's meeting was held at City Hall, 208 W. Jones St., Hollis, OK. Prior to this meeting invitation were sent to local stakeholders.

SORTPO staff distributed a copy of the 2040 Harmon County LRTP on August 28, 2017 to the following agencies: Harmon County Commissioners, Hollis City Hall, Oklahoma Aeronautics Commission, Oklahoma Agriculture Food & Forestry, Oklahoma Department of Environmental Quality, Oklahoma Geological Survey, Oklahoma Department of Transportation, Oklahoma Department of Wildlife, Oklahoma Historical Society, and Oklahoma Water Resources Board.

A legal notice advertising SORTPO's public hearing to adopt the Harmon County 2040 Long Range Transportation Plan was placed in the Hollis Newspaper. The SORTPO Policy Board held a public hearing on September 28, 2017 to receive comments on the 2040 Harmon County LRTP prior to its' adoption.

#### **Invitation to Stakeholder Meeting**

January 5, 2016

Dear.

The Southwest Oklahoma Regional Transportation Planning Organization ("SORTPO") is the regional transportation planning organization for southwest Oklahoma. Within this region are 16 counties, including the eight counties within the South Western Oklahoma Development Authority (SWODA) Council of Government and the eight counties comprising the Association of South Central Oklahoma Government (ASCOG). SORTPO is in the process of developing a regional long-range transportation plan for the sixteen counties.

A stakeholder meeting is scheduled to introduce the long-range transportation planning process and to engage you in the early stage of this plan development.

Date: February 9, 2017 Time: 10:00 am Location: Hollis City Hall 208 W. Jones Hollis, Ok 73550

This meeting will present opportunities for you to share your areas of concern as well as to help identify transportation programs to meet the needs of the future. Please share this invitation with your associates, as all are welcome, and the meeting is open to the public. We look forward to seeing you there!

Becky Cockrell
Transportation Planner
South Western Oklahoma Development Authority
PO Box 569, Building 420 Sooner Drive
Burns Flat, OK 73624
580-562-4882 Ext. 118



January 23, 2017
PRESS RELEASE
"For Immediate Release"
Southwest Oklahoma Regional Transportation Planning Organization 420 Sooner Dr. PO Box 569, Burns Flat, OK 73624
580-562-4882

### Public engagement invited in development of long-range transportation plan for Harmon County

You are invited to a stakeholder meeting to engage the public in the early stage of developing a regional long-range transportation plan. Scheduled for Thursday, Feb. 9, 10 a.m., at the Hollis City Hall located at 208 West Jones Street, the meeting will introduce the long-range transportation process and provide opportunities to share your areas of concern for Harmon County with the Southwest Oklahoma Regional Transportation Planning Organization (SORTPO). Transportation programs to meet the needs of the future will also be identified.

SORTPO, the regional transportation planning organization for 16 counties in southwest Oklahoma, is in the process of developing a regional long-range transportation plan. The region includes the eight counties within the Southwestern Oklahoma Development Authority (SWODA) Council of Government and the eight counties comprising the Association of South Central Oklahoma Government (ASCOG).

Please share this invitation with your associates, as all are welcome. Direct inquiries to Becky Cockrell, SWODA transportation planner, at (580) 562-4880 or becky@swoda.org.

###

### **Public Review and Comments Received**

(Beginning August 28, 2017- September 26, 2017)

Agency	Contact Name	Comments
ODEQ	Jon A. Roberts	This is in response to your August 28, 2017 request for comments on the 2040 Long Range Transportation Plans for Greer, Harmon, Jackson, Jefferson, and Stephens Counties. DEQ has no specific comments about the individual county plans; however, as you assess environmental risk posed by the projects please refer to DEQ Land Protection GIS data layers available for download at <a href="http://gisdata-deq.opendata.arcgis.com/">http://gisdata-deq.opendata.arcgis.com/</a> .
ODOT	Lisa Lam	Editorial comments.
OK State Depart. Of Health	Dennie Christian	I met with Harmon County Forward and they listed the following for page 39: Sidewalks on both sides of the street in the East 200 block of Hollis Improve Highway 62 from Texas Line to Victory, OK –There is heavy truck traffic Repairs on Fifth street from Highway 62 to Hospital – This is utilized by EMS as a direct route to the hospital.  Please include East 100 block of Hollis as well
Retired OSU Alumni	John Sheppard	Editorial comments.

### **Appendix 6 - Recommendation**

**Appendix 6.1: Recommended List of Projects** 

GENERAL LOCATION	PROJECT	DESCRIPTION	FUNDING STATE /
LOCATION	YEAR		FEDERAL
Harmon County	2017- 2021	Develop a clearinghouse for regional data sets, such as pavement management systems and geographic information systems.	SPR/Local
Harmon County	2017- 2021	Conduct a freight assessment for the county.	SPR/Local
Harmon County	2017- 2021	Develop a system to collect and monitor changes in population, employment, and major employers by Traffic Analysis Zone (TAZ).	SPR/Local
Harmon County	2017- 2021	Develop data collection standards.	SPR/Local
Harmon County	2017- 2021	Establish procedures that enhance the consultation and coordination of transportation planning with local, regional, state and tribal government representatives.	SPR/Local
Harmon County	2017- 2021	Conduct speed study at intersection locations with high accident severity index and corridors with major attractors.	SPR/Local
HARMON RESURFACE	2017- 2021	SH-30 BEGIN AT THE US-62 JCT AND EXT NORTH 8.0 MILES.	\$1,459,083
HARMON 27898(04)	2017- 2021	SH-30: OVER ELM FORK OF THE RED RIVER, 7.6 MI NORTH OF SH-9	\$4,900,000
HARMON 28768(04) FFY 2017 BRIDGE & APPROACHES	2017- 2021	SH-30: OVER SALT FORK OF RED RIVER, 11.2 MI. NORTH OF US- 62NEEDS TO STAY 100% STATE FUNDED.	\$8,053,000
HARMON 31825(06) UTILITIES	2017- 2021	SH-30: REPLACE THIRTEEN WOODEN ROADWAY SIZE BOXES, VARIOUS LOCATIONS BETWEEN US-62 & SH-9. (RW FOR 04) VARIOUS LOCATIONS	\$10,000.00

GENERAL	RAL DESCRIPTION		
LOCATION	PROJECT		FUNDING STATE /
	YEAR		FEDERAL
		BETWEEN US-62 & SH-9. (RW FOR	
		04)	
HARMON	2022-	SH-30: REPLACE THIRTEEN WOODEN	\$1,500,000
31825(04)	2026	ROADWAY SIZE BOXES, VARIOUS	
GRADE, DRAIN		LOCATIONS BETWEEN US-62 & SH-9.	
& SURFACE			
HARMON	2017-	CO RD(EW-169) BEG @ SH-5 &	
28710(06)	2021	EXTEND WEST APPROX 5.0 MILE &	
RIGHT OF		NORTH APPROX 2.0 MILE ON NS-174	\$100,000
WAY		(RW FOR 28710(04))	
HARMON	2017-	CO RD(EW-169) BEG @ SH-5 &	\$250,000
28710(07)	2021	EXTEND WEST APPROX 5.0 MILE &	
UTILITIES		NORTH APPROX 2.0 MILE ON NS-174	
		(UT FOR 28710(04))	
HARMON	2017-	CO RD(EW-169) BEG @ SH-5 &	\$4,800,000
28710(04)	2021	EXTEND WEST APPROX 5.0 MILE &	
WIDEN &		NORTH APPROX 2.0 MILE ON NS-174	
RESURFACE			
Harmon	2022 -	Develop procedures to identify and	SPR/Local
County	2026	collect traffic count data at specific	
**	2022	locations within the county.	CDD /I I
Harmon	2022 -	Develop method to track the	SPR/Local
County	2026	implementation of projects and	
		regularly update the public on the	
		status of projects, programs and	
Harmon	2022 -	finances.	CDD /Logal
Harmon	2022 -	Identify the locations of major employment centers, including existing	SPR/Local
County	2020	and proposed developments and	
		identify types of transportation	
		available.	
Harmon	2022 -	Working with area employers and	SPR/Local
County	2026	stakeholders develop a database and	or ry nocar
		map identifying transportation needs.	
Harmon	2022 -	Develop database and mapping to	SPR/Local
County	2026	identify the County's underrepresented.	, 20001
			ann / ·
Harmon	2027-	Develop a data file and create a map	SPR/Local
County	2031	identifying location of wind farms and	
		pipelines and relationship to	

GENERAL LOCATION	PROJECT YEAR	DESCRIPTION	FUNDING STATE / FEDERAL
		communities and the transportation system.	
Harmon County	2027- 2031	Develop a regional map that identifies tourism destinations and regionally significant facilities.	SPR/Local
Harmon County	2027- 2031	Collect and routinely analyze safety and security data by mode and severity to identify changes and trends.	SPR/Local
Harmon County	2032- 2036	Collect and routinely analyze safety and security data by mode and severity to identify changes and trends.	SPR/Local
Harmon County	2032- 2036	Conduct study at intersection locations with high accident severity index and corridors with major attractors.	SPR/LOCAL
Harmon County	2037- 2040	Collect and routinely analyze safety and security data by mode and severity to identify changes and trends.	SPR/LOCAL
Harmon County	2037- 2040	Conduct study at intersection locations with high accident severity index and corridors with major attractors.	SPR/LOCAL

Source: ODOT, SORTPO