



COMPATIBILITY ISSUES EXERCISE

The table on the following pages represents a list of the compatibility issues that have been identified and assessed as part of the Fort Sill Joint Land Use Study (JLUS). This list was developed based on input from the JLUS Policy Committee and Technical Working Group, first public workshop, and from the technical evaluation conducted by Matrix as part of this process. Each issue is categorized by the type of Compatibility Factor (the table below illustrates the 25 compatibility factors).

COMPATIBILITY FACTORS			
AQ	Air Quality	LAS	Land / Air / Sea Spaces
AT	Anti-Terrorism / Force Protection	LU	Land Use
BIO	Biological Resources	LEG	Legislative Initiatives
CA	Climate Adaptation	LG	Light and Glare
COM	Coordination / Communication	MAR	Marine Environments
CR	Cultural Resources	NOI	Noise
DSS	Dust / Smoke / Steam	PT	Public Trespassing
ED	Energy Development	RC	Roadway Capacity
FSC	Frequency Spectrum Capacity	SA	Safety Zones
FSI	Frequency Spectrum Impedance / Interference	SNR	Scarce Natural Resources
HA	Housing Availability	VO	Vertical Obstructions
IE	Infrastructure Extensions	V	Vibration
		WQQ	Water Quality / Quantity

EXERCISE INSTRUCTIONS

Please Provide Your Opinion

For each compatibility issue, place a dot in the box that represents how important you think the issue is to you or the organization you represent.

Rank the importance of each issue by selecting one of the following:

- Very Important to take action**
- Important to take action**
- Somewhat Important to take action**
- Not Important to take action**
- No Opinion**

NOTE: Mark "No Opinion" if this issue does not apply to you or if you do not have enough information to determine the importance of this issue.

Issue Importance

Very Important To Take Action

Important To Take Action

Somewhat Important To Take Action

Not Important To Take Action

No Opinion

Ref ID #

Issue Statement

Air Quality (AQ)

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion	Ref ID #	Issue Statement
13	5	0	0	0	AQ-1	<p>General Concern Regarding Possible Future Designation as Nonattainment for Ozone in the City of Lawton</p> <p>The communities surrounding Fort Sill are currently in Attainment for Ozone (O3); however, there is a concern that the City of Lawton is close to being designated as Nonattainment Area as the area receives a large amount of Interstate Air Pollution Transport from the Dallas-Fort Worth, TX area. This could have impacts on both the community and the military where construction or operations / training activities could be required to incorporate measures to reduce pollutant emissions.</p>

Anti-Terrorism / Force Protection (AT)

6	10	1	1	0	AT-1	<p>General Concern About Breaches of Installation Perimeter</p> <p>The primary concern focuses on trespassing issues and vandalism of the Fort Sill fence line. This can cause impacts for Fort Sill; such as potentially delaying operations and training and impacting military readiness.</p>
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Issue Importance

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion
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Ref ID #

Issue Statement

Anti-Terrorism / Force Protection (AT) *continued*

4	4	10	1	0	AT-2	<p>Concern About Traffic Configuration at Installation Access Points and Vehicle Collisions into Fort Sill's South Boundary Fence</p> <p>There is a concern about vehicle collisions into the South Fence at the Rogers Lane / Sheridan Road access where the Bentley, Scott, and 52nd Street Gates are located. The collisions are unintentional; however, damage to federal property can cause additional security risks.</p>
16	0	1	0	0	AT-3	<p>Recreational Drones Flying Over Post into Restricted Airspace</p> <p>There is a concern about recreational drones flying over the Post into the restricted airspace used by the military for training. There has been one incident in which a recreational drone crashed on to the airfield. Operating drones on or around the installation can be a safety risk to both military personnel and aircraft, adversely impacting Fort Sill's operations and training mission.</p>

Issue Importance

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion
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Ref ID #

Issue Statement

Biological Resources (BIO)

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion	Ref ID #	Issue Statement
1	6	8	3	0	BIO-1	<p>Invasive Wild Hog Species Impact Military Training Capabilities</p> <p>Wild hogs in the JLUS Study Area migrate onto the installation and cause damage to the land and perimeter security fencing because of animal rooting behaviors. The damage hogs cause to federal property add undo maintenance costs and can delay military operations or training resulting in adverse impacts to military readiness at Fort Sill.</p>
1	7	6	4	0	BIO-2	<p>Invasive Plant Species Increase Wildfire Risk in the JLUS Study Area</p> <p>Johnson Grass, an invasive plant species, can be found throughout the JLUS Study Area. This plant provides fuel for wildfires which increases the risk of wildfires.</p>

Issue Importance

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion
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Ref
ID
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Issue Statement

Communication / Coordination (COM)

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion	Ref ID #	Issue Statement
10	5	1	0	0	COM-1	<p>Lack of Formalized Community Point of Contact Information Regarding New Development in the JLUS Study Area</p> <p>Fort Sill does not have an official community contact to provide the military with information about development occurring outside the installation that could impact the operational training mission.</p>
3	7	7	0	0	COM-2	<p>Lack of Public Awareness of Fort Sill Contact Information to Report Concerns</p> <p>Public may not know who to notify on Fort Sill regarding concerns or other issues, e.g. noise complaints. This could lead to a delay in responding to and addressing complaints or concerns and also negatively impact community / installation relationships.</p>

Issue Importance

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion
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**Ref
ID
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Issue Statement

Communication / Coordination (COM) *continued*

2	11	3	2	1	COM-3	<p>Coordination and Communication Between Fort Sill and Wichita Mountains Wildlife Refuge is not Formalized</p> <p>There is currently an informal relationship between Fort Sill and the Wildlife Refuge to address concerns related to impacts to both the military and the refuge. Situations where no documented agreement or procedure exists may cause delays or confusion on how to address issues, especially if there is a change in personnel.</p>
1	3	1	12	2	COM-4	<p>Lack of Notification to the Public on Training that Occurs Outside the Normal Daytime Hours</p> <p>There is a lack of notification to the public, local government agencies, and media outlets regarding artillery training that occurs outside the normal daytime hours, such as in the early morning or after midnight.</p>

Issue Importance

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion
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Ref ID #

Issue Statement

Communication / Coordination (COM) *continued*

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion	Ref ID #	Issue Statement
18	0	0	0	0	COM-5	<p>No Formal Communication Process Between the Federal Aviation Administration and Fort Sill Regarding Impacts from Wind Turbine Developments to the Radar Field of View</p> <p>While the Federal Aviation Administration (FAA) communicates with the installation when there could be vertical obstruction into mission critical airspace, the FAA does not evaluate the wind turbine development impacts on the radar field of view.</p>
1	9	6	0	1	COM-6	<p>Fort Sill Could Enhance Communicate on a Regular Basis with Surrounding Jurisdictions and the Public</p> <p>There is an opportunity to enhance relationships with and responses from surrounding jurisdictions when addressing issues that may arise.</p>
1	4	11	1	0	COM-7	<p>Joint Law Enforcement Meetings are Voluntary and Informal</p> <p>There is an informal weekly meeting between local law enforcement organizations, including Fort Sill Military Police and the Federal Bureau of Investigation.</p>

Issue Importance

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion
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Ref
ID
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Issue Statement

Dust / Smoke / Steam (DSS)

0	1	11	5	0	DSS-1	<p>Smoke / Dust Complaints in the Community There have been some complaints from the community regarding smoke and dust generated from fires originating at Fort Sill. This issue may become more of a concern in the future depending on the tempo of training.</p>
0	0	8	9	0	DSS-2	<p>Prescribed Burns Conducted by the Wichita Mountains Wildlife Refuge can produce Fugitive Smoke Particles There are prescribed burns that occur outside Fort Sill, specifically in the Wichita Mountains that have resulted in adverse impacts to Fort Sill, and have caused delays in training.</p>

Issue Importance

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion
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Ref
ID
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Issue Statement

Energy Development (ED)

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion	Ref ID #	Issue Statement
18	0	0	0	0	ED-1	<p>Existing and Proposed Energy Developments Impact Military Training</p> <p>There is existing wind development and several proposed sites that have impacted and have the potential to impact Fort Sill military training missions. This can result in degradation of military readiness not only for Fort Sill, but also for Sheppard Air Force Base (AFB), Altus AFB, Tinker AFB, and Vance AFB all of which use the Fort Sill airspace and range.</p>
18	0	0	0	0	ED-2	<p>Energy Developments Can Impact Radar</p> <p>Energy development can impact the airport surveillance radar (ASR) system which is the system that detects and displays aircraft in the terminal area. It provides information that enables ground control to communicate with pilots and aircraft in the area. This can increase air navigation safety risks to pilots and the public.</p>

Issue Importance

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion
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Ref
ID
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Issue Statement

Energy Development (ED) *continued*

15	1	1	0	0	ED-3	<p>Energy Development Impacting the Frederick Weather Radar</p> <p>Fort Sill does not have a weather radar on-installation, so the installation depends on the Frederick weather radar for weather information. Increasing wind energy development in the area of the Frederick Weather Radar could impact weather data collected for the area, which is used by Fort Sill as well as for local and national weather predictions.</p>
16	0	0	0	0	ED-4	<p>Abundant Renewable Energy Resources Provide Opportunities for Energy Development</p> <p>The JLUS Study Area and surrounding region has an abundance of renewable energy resources, which makes the area a premier location for energy development. However, the siting of energy development can adversely impact military training and aviation operations that occur in the region.</p>

Issue Importance

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion
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Ref ID #

Issue Statement

Frequency Spectrum Impedance / Interference (FSI)

14	2	1	0	0	FSI-1	<p>Uncoordinated Development Can Impact Radar Communications</p> <p>Certain uncoordinated development such as tall structures (e.g. cellular towers and existing wind farms) can interfere with radar communications producing false signals. This can impede and interfere with aviation and aircraft operations, which can result in degradation of military training effectiveness.</p>
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Infrastructure Extensions (IE)

9	6	2	0	0	IE-1	<p>Uncoordinated Infrastructure Extensions in Unincorporated Areas may lead to Incompatible Development</p> <p>Not all jurisdictions within the JLUS Study Area utilize zoning to help manage development. Concerns about uncoordinated infrastructure extensions into unincorporated areas of the county could result in incompatible development.</p>
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Issue Importance

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion
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Ref
ID
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Issue Statement

Competition for Land / Air/ Sea Spaces (LAS)

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion	Ref ID #	Issue Statement
2	2	7	6	0	LAS-1	<p>State Route 115 Requires Closure to Perform Certain Military Training Activities</p> <p>The 75th Field Artillery Brigade (FA BDE) is required to close State Route 115 when firing rockets from Quanah Range to West Range. The 75th FA BDE is only permitted to keep the road closed for a maximum of 15 minutes at any one time.</p>
1	1	10	4	0	LAS-2	<p>City of Lawton Water Line Traverses Fort Sill</p> <p>Four waterlines from Lake Lawtonka to City of Lawton run through Fort Sill. When these waterlines need maintenance or if the pipes break, then training operations can be postponed, delayed, or canceled to enable the Lawton Water Department to safely repair the waterlines.</p>

Issue Importance

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion
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Ref ID #

Issue Statement

Competition for Land / Air/ Sea Spaces (LAS) *continued*

15	1	0	0	0	LAS-3	<p>Need for Additional Land to Train on Advanced, Larger Weapons Systems</p> <p>There is a need for additional land and airspace to train on advanced, larger weapons systems, however land resources both on- and off-installation are scarce or are already used for other purposes that serve in a dual capacity to protect the military training and provide some economic activity.</p>
10	2	3	1	0	LAS-4	<p>General Concern About Heavy Aircraft Landing at Fort Sill-Lawton Regional Airport</p> <p>There is a concern about Fort Sill using the Lawton-Fort Sill Regional Airport to transport troops for mobilization exercises and activities. The concern is focused on Fort Sill using heavy aircraft, which tend to damage runways that are not equipped to handle the weight of the cargo of larger transport aircraft.</p>
10	5	0	0	0	LAS-5	<p>Concern About General Aviation Airspace Intrusions</p> <p>There have been general aviation intrusions into Fort Sill's controlled airspace, which can postpone, delay, or cancel military training and operations.</p>

Issue Importance

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion
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Ref ID #

Issue Statement

Competition for Land / Air/ Sea Spaces (LAS) *continued*

11	5	1	1	0	LAS-6	<p>Potential for Airspace Competition</p> <p>There is a need to protect the airspace over Fort Sill from encroachment as several military missions depend on this airspace and the facilities at Fort Sill to execute their missions. Congested airspace would impact the ability of all the military installations in the region to perform their missions.</p>
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Land Use (LU)

11	2	2	1	1	LU-1	<p>Concern About Uncoordinated Growth and Development in Surrounding Communities</p> <p>There is a concern about growth and incompatible development outside the installation in surrounding communities that is not coordinated with Fort Sill. Development can unintentionally impact military training and operations if it is not coordinated with the military.</p>
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Issue Importance

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion
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Ref ID #

Issue Statement

Land Use (LU) *continued*

10	6	0	0	1	LU-2	<p>Existing Incompatible Land Uses Within One Mile Around Fort Sill</p> <p>There are existing incompatible land uses within one-mile of Fort Sill’s boundary. This can lead to additional incompatible development due to lack of adequate land use controls in surrounding communities.</p>
12	3	0	0	1	LU-3	<p>Incompatible Development in the City of Elgin</p> <p>There is incompatible development in the City of Elgin near the Fort Sill perimeter security fence, which results in noise complaints and a safety hazard.</p>
7	9	0	2	0	LU-4	<p>Lawton-Fort Sill Regional Airport Lacks Adequate Land Use Controls Around the Facility to Support Long-term Military Activities</p> <p>Currently, the Lawton-Fort Sill Regional Airport supports Fort Sill and has planned for increased support in the future if demand is required. However, there are several land uses outside the airport that could be incompatible development due to a lack of sufficient land use controls.</p>

Issue Importance

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion
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Ref
ID
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Issue Statement

Legislative Initiative (LEG)

11	5	1	0	0	LEG-1	<p>There is a Need for Enhanced Military Compatibility Legislation</p> <p>While there is existing legislation that provides some level of protection for the military regarding encroachment, there is a need to enhance the legislation to provide clarity to define more protections of the federal investment in the state and encourage compatible economic growth around military installations that can positively impact the local communities.</p>
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Light and Glare (LG)

12	6				LG-1	<p>Continued Reduction of Nighttime Training Capability</p> <p>In the past, the 75th Field Artillery Brigade performed night vision training throughout the entire installation. However currently, there is too much light pollution from development causing horizon brightening at night. This can reduce the effectiveness of the training and the potential future capability of receiving more missions for this purpose.</p>
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Issue Importance

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion
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Ref ID #

Issue Statement

Light and Glare (LG) *continued*

7	8	3	0	0	LG-2	<p>There are Minimal to No Lighting Controls in the Jurisdictions Around Fort Sill</p> <p>Fort Sill's mission requires nighttime training to effectively prepare for a variety of military conflicts worldwide. A dark skies environment is required to effectively execute nighttime training with and without night vision devices. The local regulatory environment does not provide adequate protection of the dark skies for military training.</p>
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Noise (NOI)

0	3	4	11	0	NOI-1	<p>Aircraft Training Operations Generates Noise at Henry Post Army Airfield that can Impact Land Uses Off-Installation South of the Airfield</p> <p>Aircraft training occurs at Fort Sill's Henry Post Army Airfield that is located in southeastern portion of the cantonment area. The noise modeling developed for the aircraft training shows that noise contours extend off the installation and can impact land uses in the northern part of the City of Lawton.</p>
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Issue Importance

Ref
ID
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Issue Statement

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion
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Noise (NOI) *continued*

0	1	3	14	0	NOI-2	<p>Range Operations Generate Noise that Extends Off-Installation</p> <p>Small arms, field artillery, and aerial bombing training generate an abundance of noise for Fort Sill. These activities occur in all parts of the installation resulting in noise impacting noise sensitive land uses in every direction.</p>
0	1	0	14	2	NOI-3	<p>Noise from MLRS Rocket Firing Extends Off Fort Sill Impacts the City of Eglin</p> <p>The firing of MLRS rockets are loud and generate noise levels that impact the City of Elgin primarily during daytime, however there are occasions when firings occur at night. While there are only about 56 rockets fired annually it does result in off base noise impacts.</p>
0	3	4	9	1	NOI-4	<p>There is No Formal Process for Reporting Noise Complaints to Fort Sill</p> <p>Fort Sill does not have a clearly identified process by which the community can report noise complaints.</p>

Issue Importance

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion
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Ref
ID
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Issue Statement

Public Services (PS)

1	8	4	4	0	PS-1	<p>Flooding Due to the Release of Water Overages from Nearby Dams Impacts Fort Sill's Training Areas</p> <p>The Lake George, Lake Lawtonka, and Lake Elmer Thomas dams occasionally release water to reduce water overages in the lakes. This release of water can flood Fort Sill Training Areas in the northern and southeastern portion of the installation as well as many off-post areas in northern Lawton.</p>
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Roadway Capacity (RC)

5	4	7	0	1	RC-1	<p>Key Gate East Does Not Have a Queuing Area</p> <p>The Fort Sill Key Gate East provides access to the Warrior Training Campus area on Fort Sill. Key Gate East does not have a vehicle queuing area during times of heavy use. This lack of queuing area can cause traffic congestion and other related traffic impacts that can affect traffic flow and mobility on local roadways.</p>
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Issue Importance

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion
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Ref ID #

Issue Statement

Safety Zones (SA)

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion	Ref ID #	Issue Statement
4	3	10	0	0	SA-1	<p>There is Moderate to High Potential for Wildland Fires in the JLUS Study Area</p> <p>Topography, types of vegetation, and climate conditions within the region are conducive to wildland fires. The high risk for such fires during the year, particularly during fire season within the JLUS Study Area presents a threat to human safety and could cause damage to personal property, personal injury, or death.</p>
3	4	10	0	0	SA-2	<p>Stray Ordnance Associated with Falcon Range</p> <p>There is risk for stray ordnance landing off-post on land subject to local jurisdiction land use controls. While there have been few incidents of this occurring, the risk is still a concern for the military and communities surrounding Fort Sill, especially if development continues in the JLUS Study Area.</p>

Issue Importance

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion
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Ref ID #

Issue Statement

Safety Zones (SA) *continued*

2	9	4	2	0	SA-3	<p>Future Concern Regarding Fire Hazards and Incompatible Development Adjacent to Falcon Range</p> <p>There is existing infrastructure west of Indianoma Road, just past Falcon Range in an area that is not currently developed. If this area attracts future incompatible development in the future, there may be greater risk of potential damage to the both on and off-post development if there is a large wildfire.</p>
10	7	0	0	0	SA-4	<p>Incompatible Land Uses in Aircraft Safety Zones</p> <p>There are existing incompatible land uses in the aircraft safety zones of Henry Post Army Airfield that impact military aviation operations.</p>

Issue Importance

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion
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Ref ID #

Issue Statement

Vertical Obstructions (VO)

18	0	0	0	0	VO-1	<p>Uncoordinated Siting of Tall Structures May Impact Low-Level Military Aviation Operations</p> <p>The military has a concern about tall structures including microwave towers and energy development facilities impacting low-level military aviation operations. An uncoordinated microwave tower has already been installed that impacted low-altitude flying north of the installation. This is an area where low-level flights are performed to execute aerial bombing and other military aviation training.</p>
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Vibration (V)

0	0	7	10	1	V-1	<p>Vibration from Military Training Exercises is Experienced Throughout the Study Area, and Has the Potential to Cause Physical Property Damage</p> <p>Many of the communities along the north-northeastern boundary of Fort Sill experience vibration during heavy artillery training. This vibration has potential to cause damage to private property, as well as critical infrastructure. There is concern that the vibration is causing damage to Lawton's Water Treatment Plant, Lake Lawtonka Dam, and Lake Elmer Thomas Dam.</p>
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Issue Importance

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion
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Ref ID #

Issue Statement

Water Quality / Quantity (WQQ)

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion	Ref ID #	Issue Statement
7	9	0	0	0	WQQ-1	<p>Long Term Water Availability / Security for Fort Sill</p> <p>Fort Sill currently does not own any water rights. Fort Sill and the City of Lawton have an existing agreement where the City sells water to Fort Sill. Because the pipeline that carries the water goes through Fort Sill, the agreement provides for lower water rates. However, there have been efforts to increase the water rates charged to Fort Sill. To date there has been little interest to establish a regional plan for water to jointly support water needs.</p>
5	7	3	0	0	WQQ-2	<p>Water Supply Interruptions at Fort Sill</p> <p>Fort Sill lost water supply for approximately 38 hours following a 2010 ice storm that impacted the City of Lawton Medicine Park Water Treatment Plant. Fort Sill obtains water from this facility and is concerned that service interruptions may occur again in the future. As a result, Fort Sill and the City of Lawton are conducting ground water studies to investigate potential backup sources of water.</p>

Issue Importance

Very Important To Take Action	Important To Take Action	Somewhat Important To Take Action	Not Important To Take Action	No Opinion
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Ref ID #

Issue Statement

Water Quality / Quantity (WQQ) *continued*

19	1				WQQ-3	<p>Cumulative Effect of Jurisdictional and Private Wells Pulling from Same Groundwater Source</p> <p>A general concern was expressed about the number of wells in the JLUS Study Area and its unregulated impact on the overall water resources in this area. The concern also stems from the lack of regional water resources planning and coordination. This can impact all jurisdictions, Fort Sill, and the public.</p>
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