

**PRELIMINARY FINAL- ENVIRONMENTAL  
ASSESSMENT FOR OTA TRAINING RANGE  
ADDITIONS AND OPERATIONS (11B, 17, 18, 22, 28, 29,  
AND 29A) IDAHO ARMY NATIONAL GUARD  
ADA COUNTY, IDAHO**



Department of the Army  
Idaho Army National Guard  
3489 W. Harvard Street  
Boise, Idaho 83705

August 2010



**Idaho Army National Guard  
Joint Environmental Management Office  
Orchard Training Area, Idaho**

<b>Proposed Action:</b> Training Range Additions (11b, 17, 18, 22, 28, 29, and 29a) within the Impact Area of the Orchard Training Area (OTA).				<b>EA No:</b> DOI-BLM-ID-B011-2010-0005-EA
State: <b>Idaho</b>	County: <b>Ada</b>	Range: <b>Boise</b>	Project Proponent: <b>Instillation Support Unit (ISU)</b>	Authority: <b>NEPA</b>
Prepared By: <b>IDARNG-JEMO</b>	Title: <b>OTA Training Range Additions (11b, 17, 18, 22, 28, 29, and 29a)</b>			Report Date: <b>8-20-10</b>

**LANDS INVOLVED**

Meridian	Township	Range	Sections	Total Area
<b>Ada</b>	<b>T-3S</b>	<b>R-2E</b>	<b>S-1, 2, and 12</b>	<b>-5,325 acres -61 acres Impacted</b>
		<b>R-3E</b>	<b>S-21, 22, 23, 25, 26, 27, and 28</b>	
		<b>R-4E</b>	<b>S-17, 18, 19, 20, and 30</b>	
	<b>T-2S</b>	<b>R-3E</b>	<b>10 and 11</b>	

Consideration of Critical Elements	N/A or Not Present	Applicable or Present, No Impact	Discussed in EA
Air Quality			X
Areas of Critical Environmental Concern (ACEC)	X		
Cultural Resources			X
Environmental Justice (E.O. 12898)		X	
Farm Lands (prime or unique)	X		
Floodplains	X		
Invasive, Nonnative Species			X
Livestock Grazing			X
Migratory Birds		X	
Native American Religious Concerns			X
Recreation		X	
Social and Economic			X
Threatened or Endangered Species			X
Upland Vegetation			X
Waste, Hazardous or Solid			X
Water Quality (Drinking/Ground)	X		
Wetlands, Riparian Zones	X		
Wildfire			X
Wildlife-Terrestrial			X
Wildlife-Aquatic	X		
Wild and Scenic Rivers (Eligible)	X		
Wilderness Study Areas	X		

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## **EXECUTIVE SUMMARY AND SIGNATURE PAGE**

**LEAD AGENCY:** Bureau of Land Management, Boise District-Four River Field Office, Idaho

**COOPERATING AGENCIES:** Idaho Army National Guard, Boise, Idaho

**TITLE OF PROPOSED ACTION:** OTA Training Range Additions (11b, 17, 18, 22, 28, 29, and 29a)

**AFFECTED JURISDICTION:** Ada County, Idaho, U.S.A.

**POINT OF CONTACT:** Charles Baun, Natural/Cultural Resource Manager, Idaho Army National Guard's Joint Environmental Management Office

**APPROVED BY:**

**APPROVED BY:**

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Aden Seidlitz

Bureau of Land Management,  
District Manager, Boise

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Michael J. Bennett, COL

National Guard Bureau,  
Chief, Environmental Programs Division

**DOCUMENT DESIGNATION:** Environmental Assessment (EA)

**EXECUTIVE SUMMARY:** The Idaho Army National Guard (IDARNG) proposes to construct and operate seven new modernized training facilities (Range 11b, 17, 18, 22, 28, 29, and 29a) within the Impact Area of the Orchard Training Area (OTA) to support the ongoing mission of the Idaho Army National Guard (Appendix A: Map 1). The OTA is a designated Brigade training center and mobilization site for the National Guard. The Proposed Action would be located in the southeastern and southwestern portions of the OTA, with additional soil disturbance in the north eastern portion for berm construction materials. The facilities and ranges (Appendix B) include:

- Live Fire Exercise Breach Facility (Proposed Range 11b);
- Squad Defense Range (Proposed Range 17);
- Heavy Sniper Range (Proposed Range 18);
- Engineer Qualification Range (Proposed Range 22);
- Field Artillery Direct Fire Range (Proposed Range 28);
- Hand Grenade Familiarization Range (proposed Range 29): and
- Hand Grenade Qualification Course (Proposed Range 29a).

These proposed facilities/ranges would modernize the training capability within existing training areas of the OTA Impact Area, and would serve as the primary readiness and training facilities for the IDARNG.

While the OTA is used for military training activities, it is entirely within the Morley Nelson Snake River Birds of Prey National Conservation Area (NCA). The NCA was Use of the OTA as a training area by the IDARNG is authorized under the through a Memorandum of Understanding (MOU) between the IDARNG and Bureau of Land Management (BLM) (BLM et al. 2002) (Appendix C). For over 50 years, this public land has been used for military training as well as for livestock grazing and public recreation. The OTA has continued to provide quality military training and other military support missions in this unique terrain.

The proposed projects were identified in the 2009 Range Complex Master Plan for the IDARNG, and initiated in early 2010. Once the site specific locations and range layouts were determined the IDARNG Joint Environmental Management Office (JEMO) initiated a Record of Environmental Consideration (REC) in March of 2010 to consider the potential environmental and cultural effects of the Proposed Action, and to determine if the Proposed Actions could be considered under a Categorical Exclusion, per Appendix B of 32 CFR Part 651. The REC process determined that an EA was required based on the overall scope of the project and potential impacts to the human environment.

Cultural, wildlife, and botanical site clearances were initiated in March of 2010 and completed in June. Agency coordination with the Bureau of Land Management (BLM), U.S. Fish and Wildlife Services (USFWS), Idaho Department of Lands (IDL), the Idaho Department of Fish and Game (IDFG), and the regional Tribes (Shoshone-Paiute and Shoshone Bannock) were initiated in May 2010, with public scoping initiated in June of 2010 (Appendix C). Key issues identified during internal and external scoping included:

- Potential impacts to air quality associated with dust emissions;
- Potential loss of soil associated with soil disturbing activities;
- Potential establishment of invasive or noxious weed species associated with soil disturbing activities;
- Potential noise impacts to surrounding area and wildlife species;
- Potential impacts to recorded and unrecorded cultural resources;
- Potential for wildfire and its impact on native plant communities, wildlife habitat, and special status plant/wildlife species that could be affected;
- Potential impacts to raptor and associated prey species;
- Potential impacts to livestock grazing operations and the availability of forage;
- Potential impacts to military personnel and the OTA associated with non-compliance with DoA training requirements; and
- Potential economic impact associated with expanded training facilities or the lack of these facilities within the OTA.

Based on the proposed actions relative to the existing conditions and identified issues, as well as the best management practices (BMPs) incorporated into the design and implementation of the proposed project, it is unlikely that any mitigation actions need to be taken. For this reason, no mitigation measures beyond the BMPs listed below would be necessary. Construction of the ranges is proposed for mid to late September, with an estimated timeframe of 38 weeks.

<b>Resource</b>	<b>BMPs</b>
Air Quality	<ul style="list-style-type: none"> <li>• During construction activities, application of dust suppressants or use of operational controls would be used to prevent excess fugitive emissions.</li> </ul>
Noise	<ul style="list-style-type: none"> <li>• Training activities resulting in high decibel levels would be restricted to daytime use to the extent possible to limit or reduce noise impacts to adjacent land owners.</li> <li>• Construction activities would be limited to daytime hours to minimize potential noise impacts.</li> </ul>
Geology and Soils	<ul style="list-style-type: none"> <li>• Site digging and grading would be limited to those activities required to construct the proposed facilities and associated infrastructure, and to provide any necessary protective berms for the facilities.</li> <li>• Soil stabilizing measures (seeding, use of geo-textiles, hydro-mulch, etc.) would be taken to limit or reduce loss of top soil associated with soil disturbing actions during construction and operations.</li> </ul>
Invasive Species	<ul style="list-style-type: none"> <li>• Use of on-site materials to reduce establishment of new invasive or noxious weed species associated with off-site materials.</li> <li>• Control measures and site maintenance (mechanical, biological, chemical, or prescribed burns) would be conducted to limit or reduce the establishment or spread of invasive or noxious weed species.</li> </ul>

Resource	BMPs
Vegetation	<ul style="list-style-type: none"> <li>• Construction areas were carefully chosen and planned so that impacts to native sagebrush-bunchgrass habitat would be minimized.</li> <li>• Pre-construction surveys were, and will be conducted prior to soil disturbing activities to avoid special status plant species.</li> <li>• The IDARNG would continue to protect slickspot peppergrass (<i>Lepidium papilliferum</i>) (LEPA) by implementing the management guidelines outlined in the 2003 INRMP.</li> </ul>
Wildlife	<ul style="list-style-type: none"> <li>• Pre-construction surveys and grubbing during non-nesting periods would be conducted to avoid impacts to special status species, raptors, and migratory bird species.</li> <li>• Annual monitoring is conducted on all training ranges. In the event that an occupied nesting site is identified within the training areas or associated structures within the OTA, the site would be identified and military personnel would work with the JEMO staff to take appropriate measures.</li> </ul>
Cultural Resources	<ul style="list-style-type: none"> <li>• All culturally sensitive or known areas with cultural artifacts would receive appropriate protection as determined by the IDARNG archaeologist during construction of the facilities and ranges, as well as during any training activities thereafter. Consistent with IDARNG policies contained in the 2010 ICRMP, all construction sites would be surveyed for cultural resources prior to and during construction to avoid the potential for any impacts to cultural sites.</li> <li>• Construction areas were carefully chosen to avoid known cultural resources.</li> </ul>
Public and Occupational Health and Safety	<p><b>Surface Danger Zone (SDZ)</b></p> <ul style="list-style-type: none"> <li>• To ensure the public's safety, existing training guidelines and protocols would continue to be used to regulate entry to and training activities within the SDZs (which are inside the Impact Area).</li> </ul> <p><b>Unexploded Ordnance (UXO)</b></p> <ul style="list-style-type: none"> <li>• All construction activity would be restricted to non-dudged training areas within the Impact Area, i.e. no activity within the Core Impact Area.</li> <li>• To ensure the public's safety, the Impact Area (which might contain UXO) is off-limits to the public. Warning signs are posted around the Impact Area to prevent inadvertent exposure to UXO.</li> </ul> <p><b>Fire Prevention and Suppression</b></p> <ul style="list-style-type: none"> <li>• The IDARNG would continue to implement its fire management program, which would handle any fires that might occur.</li> </ul> <p><b>Public Safety</b></p> <ul style="list-style-type: none"> <li>• Safety and security at the proposed military facilities would be consistent with IDARNG security procedures. Appropriate signage and barriers would alert the public of construction activities related to the Proposed Action and any traffic pattern changes.</li> </ul> <p><b>Occupational Health and Safety (OSHA)</b></p> <ul style="list-style-type: none"> <li>• OSHA requirements and other applicable worker safety regulations would be followed during project construction and operation. Appropriate measures would be taken to limit unauthorized persons from accessing the area during construction.</li> </ul>
Hazardous and Toxic Materials/Wastes	<ul style="list-style-type: none"> <li>• Safety precautions would be taken by construction crews to minimize the potential for a hazardous spill. Under current procedures, all spills, regardless of size, are immediately reported to the Orchard Range Control.</li> </ul>

Resource	BMPs
Hazardous and Toxic Materials/Wastes	The responsible unit works to contain the spill until personnel from Range Control or the Environmental Management Office arrive (ANL EAD, 2004). These protective measures would be implemented for the Proposed Action and would minimize the potential for impacts from hazardous and toxic materials.

This EA has been prepared in accordance with NEPA and the Council on Environmental Quality (CEQ) Regulations 40 Code of Federal Regulations (CFR) Parts 1500-1508, and 32 CFR Part 651 (Environmental Analysis of Army Actions). This EA assesses the purpose and need for the proposed action of constructing and operation of the proposed Ranges within the OTA Impact Area. The outline and content of the EA has been prepared in accordance with the guidelines provided in the BLM’s NEPA Handbook H-1790-1 (2008a), as well as the National Guard Bureau (NGB) NEPA Handbook (National Guard Bureau, 2006).

Both processes were used based on the unique conditions associated with management of the OTA as a military training area using BLM-managed lands under a MOU. Based on the BLM administration of the lands, this document integrated components from the National Guard Bureau’s NEPA process with the BLM’s NEPA format. Specific BLM materials used in the development of the EA included the BLM EA template, scoping process and template, as well as associated Informational Memorandum’s for the development of the EA and associated agency and public scoping.

Based on the unique management conditions of the OTA, the IDARNG could not work directly with the USFWS in regards to Endanger Species Act (ESA) Section 7 consultation process. Rather, the IDARNG developed the “No effect” documentation, which was supported by a letter of concurrence from the BLM, as the BLM is the federal manager of the lands associated with the project. The USFWS had no objection to this process.

This EA evaluates the direct, indirect, and cumulative effects of the Proposed Action and the No Action alternatives with respect to the natural/cultural resources and resources uses identified in the Consideration of Critical Elements above. The evaluation performed as the work product of this EA concluded that the overall impacts associated with the Proposed Action, either initially or cumulatively, would not have a significant adverse effect on the local environment or quality of life. Furthermore, this action would not have a measurable adverse affect to raptor species or their prey base, and as such would be a compatible use within the Morley Nelson Snake River Birds of Prey National Conservation Area (NCA).

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## ACRONYMS AND ABBREVIATIONS

ACB	Armored Cavalry Brigade
ACHP	Advisory Council on Historic Preservation
AFB	Air Force Base
AIRFA	American Indian Religious Freedom Act of 1978
AMF	Army Modular Force
ANL EAD	Argonne National Laboratory Environmental Assessment Division
AR	Army Regulation
ARFORGEN	ARNG Force Generation
ARNG	Army National Guard
ARPA	Archeological Resources Protection Act of 1979
AUM	Animal Unit Months
BLM	Bureau of Land Management
BMP	Best Management Practices
BVEP	Boise Valley Economic Partnership
C4	Composition C (plastic explosive)
CAA	Clean Air Act
CAB	Combined Arms Battalion
CACTF	Combined Arms Collective Training Facility
CCA	Candidate Conservation Agreement
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CEW	Covered Employment and Wages
CEQ	Council on Environmental Quality
CFR	Code of Federal Regulations
CO	Carbon Monoxide
COMPASS	Community Planning Association of Southwest Idaho
dB	Decibels
DoA	Department of Army
DoD	Department of Defense
E.O.	Executive Order
EA	Environmental Assessment
EPA	Environmental Protection Agency
ESA	Endangered Species Act
F	Fahrenheit
FLPMA	Federal Land Policy and Management Act
FONSI	Finding of No Significant Impact
HE	High Explosive
HB	Heavy Brigade
HBCT	Heavy Brigade Combat Team
HTMW	Hazardous and Toxic Materials and Waste
JEMO	Joint Environmental Management Office
IDARNG	Idaho Army National Guard
IDEQ	Idaho Department of Environmental Quality
IDFG	Idaho Department of Fish and Game
ICRMP	Integrated Cultural Resources Management Plan

IMD	Idaho Military Division
INRMP	Integrated Natural Resources Management Plan
FLPMA	Federal Land Policy and Management Act
m	Meter
MATES	Mobilization and Training Equipment Site
MOU	Memorandum of Understanding
MSA	Metropolitan Statistical Area
NAAQS	National Ambient Air Quality Standards
NAGPRA	Native American Graves Protection and Repatriation Act of 1990
NCA	National Conservation Area
NEPA	National Environmental Policy Act of 1969
NFA	No Further Action
NG	National Guard
NGB	National Guard Bureau
NHPA	National Historic Preservation Act of 1966
NO <sub>2</sub>	Nitrogen Dioxide
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
O <sub>3</sub>	Ozone
ORTC	Operation Readiness Training Complex
OSHA	Occupational Safety and Health Administration
OTA	Orchard Training Area
Pb	Lead
PEA	Programmatic Environmental Analysis
PM	Particulate Matter
REC	Record of Environmental Consideration
RMP	Resource Management Plan
ROW	Right of Way
SHPO	State Historic Preservation Office
Shoot House	Live-Fire Shoot House
SDZ	Surface Danger Zone
SO <sub>2</sub>	Sulfur Dioxide
SONMP	State Operational Noise Management Plan
SOP	Standard Operating Procedures
SPCCP	Spill Prevention Control and Countermeasure Plan
TC	Training Circular
TMDL	Total Maximum Daily Loads
TOW	Tube-launched, Optically-tracked, Wire data link
UAC	Urban Assault Course
U.S.	United States
UAS	Unmanned Aerial System
USDA	United States Department of Agriculture
USDI	United States Department of the Interior
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Service
UXO	Unexploded Ordnance
(o)	Degrees

# How to Read this Document

To read this Draft Environmental Assessment (EA) more effectively, review this page.

This document has been developed and organized to provide the reader with sufficient information to understand the issues to be addressed, the environment in which these issues arise, the range of alternatives that are available to address the issues, and the social and environmental consequences of these actions. The chapters are written so that nontechnical readers can understand the potential environmental, technical, and economic consequences of each of the alternatives.

- **Chapter 1** (Purpose of and Need the Proposed): Introduces the project area and describes the purpose and need for the EA. This chapter provides a brief description of the planning area and consistency with other plans, and relationships to statutes, regulations, the National Environmental Policy Act (NEPA), and other requirements.
- **Chapter 2** (Description of Alternatives): Introduces the alternative development process and describes the alternatives to be assessed, as well as those that were considered but not analyzed.
- **Chapter 3** (Affected Environment/ Environmental Consequences): Describes the existing environment within the project area that would affect or be affected by the alternatives. This information, in conjunction with best management practices (BMP) and general assumptions, is the baseline used to analyze the consequences of implementing each alternative, including the direct, indirect, short-term, long-term, and cumulative impacts, as well as the overall conclusion.
- **Chapter 4** (Consultation and Coordination): Provides information on the groups/ agencies consulted throughout the process, as well as the list of resources specialists involved in developing and editing the document.

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# CHAPTER 1.0 INTRODUCTION TO THE PROPOSED ACTION

## 1.1 Introduction

The Army National Guard (ARNG), as a participant in the Total Army Force, has a federal mission to provide trained units that are available for active duty in time of war or national emergency. The Idaho Army National Guard (IDARNG) has a state mission to provide military units that are organized, equipped, and trained to function when necessary to protect life and property, and to preserve peace, order, and public safety, under competent orders from authorities of the State of Idaho.

The OTA is found completely within the boundaries of the NCA and is designated as a Brigade training center and mobilization site for the National Guard (NG). Public Law 103-64 section 1(B) specifically provides for “continued military use, consistent with the requirements of section 4(e) of this Act, of the OTA by reserve components of the Armed Forces.

The IDARNG was a heavy brigade (HB) unit, 116th Armored Cavalry Brigade (ACB), until it was re-designated as a Heavy Brigade Combat Team (HBCT) in 2005 to address current Department of Army (DoA) doctrine, which calls for more urban-specific capabilities associated with the HCBT and less heavy armor associated with the ACB. The ACB includes two armor battalions, one mechanized infantry battalion, one support battalion, and a headquarters unit. The HB has an authorized strength of about 3,300 soldiers.

The HCBT is a modular brigade containing two combined arms battalions (CAB), cavalry squadron, an artillery battalion, associated support for each and headquarters unit. Each CAB includes tanks, Bradleys, and infantry. The HCBT has an authorized strength of approximately 3,100 soldiers. The HBCT is a modular unit capable of adapting to changing world situations and tactics. While the HCBT is the current training emphasis, this could change at any time and the training site would be called on to adapt ranges to meet future training needs.

Based on the continuing shift from a HB to HCBT, the IDARNG is proposing the modernization of the Orchard Training Area (OTA) facilities and ranges located south of Boise, Idaho (Appendix A: Map 1). The Proposed Action would be located in the southeastern and southwestern portions of the OTA, with additional soil disturbance in the north eastern portion, and consist of constructing and operating seven training facilities/ranges. These proposed facilities/ranges would modernize the training capability within existing training areas of the OTA Impact Area, and would serve as the primary readiness and training facilities for the IDARNG.

Use of the OTA by the IDARNG as a training area is authorized under a MOU between the IDARNG and the Bureau of Land Management (BLM) (Appendix C). For over 50 years, this public land has been used for military training as well as for livestock grazing and public recreation. The OTA has continued to provide quality military training and other military support missions in this unique terrain.

This EA has been prepared in accordance with NEPA and the CEQ Regulations 40 CFR Parts 1500-1508, and 32 CFR Part 651 (Environmental Analysis of Army Actions). This EA assesses the purpose and need for the proposed action of constructing and operating the OTA Facilities

Development. The outline and content of the EA has been prepared in accordance with the guidelines provided in the BLM's NEPA Handbook H-1790-1, as well as the National Guard Bureau (NGB) NEPA Handbook (National Guard Bureau, 2006).

Both processes were used based on the unique conditions associated with management of the OTA as a military training area using BLM-managed lands under a MOU. Based on the BLM administration of the lands, this document used BLM standardized materials (Appendix C). These include the BLM EA template, scoping process and template, as well as associated Informational Memorandum's for the development of the EA and associated agency and public scoping.

The unique management conditions of the OTA also required a modified approach to the Endanger Species Act (ESA) Section 7 consultation process. The IDARNG did initiate informal and formal consultation with the USFWS (Appendix C). However, since the BLM is the federal manager of the lands associated with the project, i.e. Action Agency, the IDARNG could not work directly with the USFWS in regards to a "no effects" determination. Rather, the IDARNG developed the "no effect" documentation based on site-specific information and long-term data, which was supported by a letter of concurrence from the BLM (Appendix C). Per BLM Manual 6840.1F3 (USDI 2008c), based on the "no effect" determination there was no additional requirements for further consultation or concurrence from the USFWS.

## **1.2 Purpose of and Need for the Proposed Action**

The overall purpose of the Proposed Action is to comply with requirements of the IDARNG in order to meet current DoA standards and to prepare for and ensure troop combat readiness in urban areas. Modernization and upgrade of the existing training capability is integral to ensuring urban assault and individual soldier skills and meeting mission requirements of the IDARNG. As specified in Field Manual 3-06, *Urban Operations*, and Training Circular (TC) 25-8, *Training Ranges*, critical task training required for individual, crew, platoon, and company elements to be combat ready directly relates to the availability and capabilities of live-fire ranges. The Army's live-fire ranges provide training opportunities to help develop and improve individual soldiers and team competency in the use of sophisticated weaponry. The ranges also portray realistic combat conditions to mold the individuals and teams into an effective fighting unit.

To achieve these goals, the purpose of the proposed training sites is to provide suitable and readily accessible ranges and facilities for soldiers to implement current military training techniques. All of the activities that would be implemented under, and supported by, the Proposed Action are consistent with and support the ARNG Transformation and ARNG Force Generation (ARFORGEN). The ARFORGEN tool implements transformation strategies with a rapid capability to predict and synchronize U.S. Army resources with national and global mission requirements. Modernization and upgrade of the training capabilities on the OTA would contribute to ensuring troop combat readiness on both a national and global scale. In accordance with NEPA and 32 CFR 651, the Proposed Action must satisfy the requirements of the facilities while not resulting in significant environmental, cultural, physical, or socioeconomic impacts.

The need for the proposed facilities is based on continually changing nature of the geopolitical conflict associated with U.S. military activity world-wide, which currently is moving from large-scale war to small-scale contingencies that require mobility, rapid deployment, and an emphasis

on strategic capabilities as opposed to sheer firepower. As such, IDARNG has undergone a Force Structure change as part of the Army Modular Force (AMF) model from an Armored Brigade to a Heavy Brigade Combat Team. Consequently, the training focus of IDARNG has shifted from primarily tracked vehicles to putting more emphasis on dismounted soldiers, specifically in an urban environment.

Facilities for training soldiers for modern urban combat in realistic settings, while incorporating recent warfare lessons-learned are required to provide the tactical and situational awareness training necessary for surviving and succeeding in urban battlefields. The proposed facility and ranges are needed by IDARNG units to conduct weekend training on a monthly basis and to train during a portion of each summer to ensure troop combat readiness in urban areas. IDARNG soldiers are required to perform a minimum series of training operations each year to fulfill current training requirements and local training objectives. These facilities also are needed by other reserve components of the Department of Defense (DoD) to train and ensure that urban assault and individual soldier skills align with current military training techniques. IDARNG does not currently possess adequate facilities suitable to provide the required training, and consequently is unable to meet new Army standards for urban warfare training.

### **1.3 Summary of Proposed Action**

In order for the IDARNG to meet the training capabilities required by the DoA, they have identified the need for seven urban training facilities or ranges (Appendix B):

- Live Fire Exercise Breach Facility (Proposed Range 11b);
- Squad Defense Range (Proposed Range 17);
- Heavy Sniper Range (Proposed Range 18);
- Engineer Qualification Range (Proposed Range 22);
- Field Artillery Direct Fire Range (Proposed Range 28);
- Hand Grenade Familiarization Range (proposed Range 29): and
- Hand Grenade Qualification Course (Proposed Range 29a).

The proposed sites would be located within the OTA Impact Area south of range 15 on the eastern side of the OTA and south of range 30 on the western side (Appendix A: Map 1). In addition to the training sites, soil required for berm construction on range 11b would be moved from existing berms located on range 6, and an existing buried power line would be extended from range 15 to the proposed range 18 (Appendix A: Map 1).

The Proposed Action would be constructed in accordance with range specification outlined in the DoA's TC 25-8 (*Training Ranges*). The total area associated with the seven ranges, soil transfer, and power line extension would be approximately 5,325 acres. However, the total area of disturbance, approximately 61 acres (1.2 percent of the project area), associated with the proposed ranges or related construction activity would be considerably smaller based on the limited area affected by localized construction activity and large buffer areas surrounding each

range. Construction would take approximately 38 weeks and would begin in September of 2010. An expanded description of the project and proposed training facility/ranges can be found in Appendix B.

The Proposed Action would not expand the OTA range. Instead, it would change the focus of the existing training range by modernizing and upgrading existing training capabilities. As such, the IDARNG does not anticipate an increase in the number of soldiers training at the OTA or in the density of training population; rather existing training types would be redistributed.

## 1.4 Location and Setting

The Proposed Action is located in the southwestern and southeastern portions of the 143,000-acre OTA, which is approximately 13 miles south of Boise, Idaho. The proposed training sites and extended power line are found within Township 3-South; Ranges 2-East (Sections-1, 2, and 12), 3-East (Sections 21, 22, 23, 25, 26, 27, and 28), and 4E (Sections 17, 18, 19, 20, and 30), while the area associated with soil removal is located in Township 2-South, Range 3E, Sections 10 and 11.

The OTA is entirely within the NCA and falls primarily in Ada County, with a small area in the south in Elmore County. The City of Boise and its surrounding communities comprise the largest population center near the OTA. The City of Kuna lies to the northwest and Mountain Home to the southeast. The undeveloped lands adjacent to the OTA are primarily BLM rangeland, some state lands, and small portions of privately owned agricultural lands and rangelands.

Land cover associated with the OTA lies within the regional landform and vegetation classification known as the Intermountain Sagebrush Province/Sagebrush-Steppe Ecosystem (Kuchler 1966, as cited in Bailey 1976). This regional landform is also identified as the Snake River Basin-High Desert and the Kuna Desert. This region as a whole contains a diverse combination of landforms, ranging from plateaus to mountains. However, the project area is a relatively flat plateau between several prominent natural features: the Snake River to the south, the Boise Ridge at a distance to the north, and the Owyhee Mountains at a distance to the west.

Elevation of the OTA ranges from 3,000 to 3,500 feet above mean sea level, with lower elevations occurring along the southern and northeastern boundaries. The average temperatures on the OTA varies between approximately 20 degrees (°) and 90° Fahrenheit and annual precipitation ranges from only about 6.5 to 11 inches (U.S. Geological Survey [USGS] 2005).

Use of the OTA includes both active and passive recreation/education, livestock grazing, and military training. The Impact Area within the OTA is restricted from public access, but seasonal livestock grazing does take place. All existing approved uses within the OTA and the NCA have been identified in the 2008 NCA RMP (2008b) to be in compliance with Public Law 103-64.

## 1.5 Conformance with Land Use Plans, Policies, and Regional Assessments

This document is in conformance with the following land use plans, policies, and regional assessments:

- *BLM's NCA-Resource Management Plan (RMP) (2008)*
- *Ada County All Hazards Mitigation Plan (2006);*
- *Ada County, Idaho Wildland-Urban Interface Wildfire Mitigation Plan 2006 Update;*
- *2003 Candidate Conservation Agreement for Slickspot peppergrass (*Lepidium papilliferum*);*
- The IDARNG's 2003 Integrated Natural Resource Management Plan (INRMP);
- 2010 MOU Between the BLM and the IDARNG;
- The IDARNG's 2003 and updated 2010 Integrated Cultural Resource Management Plan (ICRMP);
- The IDARNG's 2006 Statewide Operational Noise Management Plan (SONMP);
- The IDARNG's 2008 Orchard Training Area Facilities Development EA and Finding of No Significant Impact (FONSI); and
- 2000 National Fire Plan (2007 Idaho Implementation Strategy for the National Fire Plan).

## 1.6 Relationship to Statutes, Regulations, National Environmental Policy Act, and Other Requirements

The following is a summary of the major laws and executive orders that apply to the Proposed Action.

### 1.6.1 *National Environmental Policy Act*

Under NEPA requirements and subsequent implementing regulations promulgated by the CEQ, any action conducted on federally-administered lands or action that utilizes Federal dollars, must be evaluated to determine if the Proposed Action might have significant economic, social, or environmental effects. The assessment must explore a reasonable range of alternatives and the associated potential environmental effects of the proposed actions. If there are no significant impacts, a FONSI can be signed to complete NEPA compliance. If potentially significant effects are identified, the proponent (IDARNG) must consider these, including potential for avoidance or mitigation in issuing its Record of Decision.

### 1.6.2 *Federal Land Policy and Management Act*

The Federal Land Policy Management Act (FLPMA) of 1976 mandates the BLM manage for multiple uses of Federal public lands. The FLPMA requires the BLM to execute its management powers under a land use planning process that is based on multiple use and sustained yield principles. The FLPMA provides for, but is not limited to, grazing on public lands, land sales, withdrawals, acquisitions, and exchanges.

### **1.6.3 Endangered Species Act**

The Endangered Species Act (ESA) requires all Federal agencies to ensure their actions do not jeopardize the continued existence of listed species or adversely modify designated critical habitat. Pursuant to Section 7 of the ESA, the IDARNG requested relevant species lists from the USFWS and the National Oceanic and Atmospheric Administration. See Appendix C for copies of the list and USFWS's response for scoping.

It should be noted that the BLM is the administrator of all public lands within the NCA, including the OTA. As such, it is the responsibility of the BLM, not the IDARNG, to identify if Section 7 consultation with the USFWS is required or if a finding of "No effect" can be issued. See section 3.4.11 for an expanded description of the No effects determination by the IDARNG and concurrence from the BLM (Appendix C).

### **1.6.4 Executive Order 12898—Environmental Justice**

Executive Order 12898 (February 11, 1994) provides that each Federal agency, to the greatest extent practicable and permitted by law, make achieving environmental justice part of its mission by addressing, as appropriate, disproportionately high and adverse human health or environmental effects on minority populations and low income populations.

### **1.6.5 Executive Order 13186—Migratory Birds**

Executive Order 13186 (January 10, 2001) directs Federal land management agencies to ensure management actions conserve and protect migratory birds consistent with existing migratory bird conventions; the Migratory Bird Treaty Act (16 U.S.C. 703–711); the Bald and Golden Eagle Protection Act (16 U.S.C. 668–668d); the Fish and Wildlife Coordination Act (16 U.S.C. 661–666c), the ESA of 1973 (16 U.S.C. 1531–1544); and NEPA of 1969 (42 U.S.C. 4321–4347).

### **1.6.6 Section 313 of the Clean Water Act**

Section 313 of the Clean Water Act of 1972 requires that "each department, agency, or instrumentality of the Federal Government having jurisdiction over any property or facility, or engaged in any activity resulting, or which may result, in the discharge or runoff of pollutants shall be subject to, and comply with, all Federal, State, interstate, and local requirements, administrative authority, and process and sanctions in a like manner as any non-governmental entity." The IDARNG is therefore required to comply with all Federal, State, interstate, and local requirements, administrative authority, and process and sanctions with respect to the control and abatement of water pollution. The Idaho Department of Environmental Quality (IDEQ) is responsible for implementing the Clean Water Act in Idaho and has promulgated State water quality rules to meet this responsibility in IDAPA 58.01.02—Water Quality Standards and Wastewater Treatment Requirements (IDEQ 1996). Waters are designated as impaired when there is a violation of water quality criteria and are placed on the §303(d) list. Section 303(d) of the Clean Water Act requires states to develop water quality improvement plans, referred to as total maximum daily loads (TMDLs), for water bodies that are not meeting their beneficial uses. A TMDL is only required when a pollutant can be identified and in some way quantified. The purpose of a TMDL is to set limits on pollutant levels, correct water quality impairments, and achieve beneficial uses of water bodies through attainment of water quality standards.

### **1.6.7 1993 Public Law 103-64**

The establishment of the NCA for the purpose of conserving, protecting, and enhancing raptor populations and habitats, and the scientific, cultural, and educational resources and values of the public lands in the conservation area. Among other things, Public Law 103-64 “the Act” sets forth provisions for the Reserve and National Guard’s (NG) use of the OTA for training purposes. Specifically to:

- Authorize military use of the OTA pursuant to the 2008 NCA RMP;
- Provide the Idaho Military Division (IMD) with continued long-term authorization, as required by Department of Defense and NG Bureau regulations, in order to allow for adequate amortization of developments and improvements;
- Provide for the continued use of the OTA by the IMD at a level that is compatible with the protection for raptor populations and habitats, and the scientific, cultural and educational resources and values of the public lands in the NCA; and
- Provide a mechanism for subsequent review of the MOU and to provide an amendment procedure to implement mutually acceptable modifications.

### **1.6.8 2010 OTA Training Authorization Memorandum of Understanding (MOU)**

The 2010 MOU between the Governor of Idaho on behalf of the IMD and the Idaho State Director, BLM authorizes continued NG military training activities on the public lands now known as the OTA, with the following objectives:

- To continue military use of the public lands in the OTA consistent with Section 4(e) of the Act (see above).
- To provide BLM and IMD clear operating procedures, responsibilities, and limitations for the use and management of the OTA.
- To ensure the safety of the general public, BLM, and military units using the OTA.
- To provide for the authorization and protection of IMD facilities in the OTA.
- To provide for the rehabilitation of areas disturbed by military training or military training-related fires.
- To provide a means to control unauthorized use of the OTA.

### **1.6.9 National Historic Preservation Act**

The National Historic Preservation Act of 1966 (NHPA) requires that prior to authorizing an undertaking, Federal agencies must take into account the effect of the undertaking on any properties eligible for or listed on the National Register of Historic Places (NRHP). Protection of historic properties (36 CFR 800) defines the process for implementing requirements of the NHPA, including consultation with the appropriate State Historic Preservation Office (SHPO)

and the Advisory Council on Historic Preservation (ACHP). Section 3.8 herein presents analysis and conclusions relevant to NHPA requirements.

#### **1.6.10 Executive Order 13007—Indian Sacred Sites**

Executive Order 13007 (May 24, 1996) instructs Federal agencies to promote accommodation of, access to, and protection of the physical integrity of American Indian sacred sites. Analysis related to this requirement is presented in Section 3.8.

#### **1.6.11 Various Authorities—Native American Tribal Consultation**

BLM is required to consult with Native American tribes to “help assure (1) that federally recognized tribal governments and Native American individuals, whose traditional uses of public land might be affected by a proposed action, would have sufficient opportunity to contribute to the decision, and (2) that the decision maker will give tribal concerns proper consideration” (U.S. Department of the Interior, BLM Manual Handbook H-8120-1). Additionally, the IDARNG is responsible under Executive Order 13175 to consult with federally recognized tribes on issues that directly involve military training activities that may affect cultural resources. Tribal coordination and consultation responsibilities are implemented under laws and executive orders that are specific to cultural resources which are referred to as “cultural resource authorities,” and under regulations that are not specific which are termed “general authorities.” Cultural resource authorities include: the NHPA of 1966, as amended; the Archaeological Resources Protection Act of 1979 (ARPA); and the Native American Graves Protection and Repatriation Act of 1990, as amended (NAGPRA). General authorities include: the American Indian Religious Freedom Act of 1979 (AIRFA); NEPA; FLPMA; Executive Order 13007-Indian Sacred Sites, and Department of Defense (DoD) Instruction 4710.02 *DoD Interactions with Federally Recognized Tribes* (DoD 2006), within which the DoD Annotated American Indian and Alaskan Native Policy is a component” of DoD14710.02. The proposed action is in compliance with the aforementioned authorities.

Southwest Idaho is the homeland of two culturally and linguistically related tribes: the Northern Shoshone and the Northern Paiute. In the latter half of the 19th century, a reservation was established at Duck Valley on the Nevada/Idaho border west of the Bruneau River. The Shoshone-Paiute Tribes residing on the Duck Valley Reservation today actively practice their culture and retain aboriginal rights and/or interests in this area. The Shoshone-Paiute Tribes assert aboriginal rights to their traditional homelands as their treaties with the United States, the Boise Valley Treaty of 1864 and the Bruneau Valley Treaty of 1866, which would have extinguished aboriginal title to the lands now federally administered, were never ratified.

Other tribes that have ties to southwest Idaho include the Shoshone-Bannock Tribes. Southeast Idaho is the homeland of the Northern Shoshone Tribe and the Bannock Tribe. In 1867 a reservation was established at Fort Hall in southeastern Idaho. The Fort Bridger Treaty of 1868 applies to BLM’s relationship with the Shoshone-Bannock Tribes. BLM considers off-reservation treaty-reserved fishing, hunting, gathering, and similar rights of access and resource use on the public lands it administers for all tribes that may be affected by a proposed action.

## 1.7 Scoping and Development of Issues

The IDARNG Joint Environmental Management Office (JEMO) initiated a Record of Environmental Consideration (REC) in March of 2010 to consider the potential environmental and cultural effects of the Proposed Action, and to determine if the Proposed Actions could be considered under a Categorical Exclusion, per Appendix B of 32 CFR Part 651. RECs were developed for only two, Ranges 28 and 11b, of the seven proposed ranges. After review of these RECs, and consideration of the timing, resources, and actions associated with the five other ranges, it was determined by JEMO and IDARNG staff that all the proposed ranges could not be independently assessed as separate projects. As such, an EA was required based on the overall scope of the project and potential impacts to the human environment. Based on the decision, a single REC was not completed for all seven proposed ranges as a single project.

Once the EA requirement was determined, the JEMO initiated external scoping with state and federal land use agencies, including the BLM, IDFG, USFWS, IDL; the regional Tribes (Shoshone-Paiute and Shoshone Bannock), as well as the general public (Appendix C). Scoping letters with a full project description and information package were sent to the land use agencies on May 21, 2010, the tribes on May 25, 2010, with the intent to solicit comments on the key issues. We received comment letters from the IDFG on June 1, 2010, and from the USFWS on June 25, 2010 (Appendix C). The IDFG expressed they were in concurrence with the issues identified in the scoping document. The USFWS comments were generally associated with potential effects to *Lepidium papilliferum* (LEPA), slickspot micro-sites; distance to identified Element Occurrences (EO); soil stabilization on disturbed sites; and control/maintenance of invasive species. There were no comments received from the BLM or the IDL.

A public notice was also sent out in the Idaho Statesman and Mountain Home News from June 10 through June 12, 2010, with a summery description of the project and directions to obtain a copy of the scoping/information package, which could be obtained through written correspondence with the IDARNG's JEMO; found at the Boise Public Library, 715 S. Capital Blvd., Boise, and the Mountain Home Public Library, 790 North, 10th East, Mountain Home; or an electronic copy could be downloaded from the IDARNG website <http://emomil.state.id.us> (Documents for Review), or the BLM website ([https://www.blm.gov/epl-front-office/eplanning/nepa/nepa\\_register.do](https://www.blm.gov/epl-front-office/eplanning/nepa/nepa_register.do)).

A second announcement was also issued to extend the timeframe for written or electronic comments on the proposed action. The timeframe was extended from June 18 to July 1, 2010. There have been only four responses from the public, three of which were neutral comments and one in support. Two were associated with potential noise impacts (neutral), one addressed potential impacts to raptors and associated prey base (neutral), and one generally supported the IDARNG and their associated mission and training actions. Agency, Tribal, and public scoping will continue throughout the entire EA development process to determine the desires, perspectives, and concerns of the public and local government.

All scoping documents, comments and notes can be found in Appendix C. This dialogue helped to develop the alternatives and identify key management issues that are addressed in this Draft EA. The primary resource or resource use issues identified during internal and external scoping with the IDARNG (including the JEMO staff), state and federal land use agencies, the Tribes, and the general public included:

- Potential impacts to air quality associated with dust emissions;
- Potential loss of soil associated with soil disturbing activities;
- Potential establishment of invasive or noxious weed species associated with soil disturbing activities;
- Potential noise impacts to surrounding area and wildlife species;
- Potential impacts to recorded and unrecorded cultural resources;
- Potential for wildfire and its impact on native plant communities, wildlife habitat, and special status plant/wildlife species that could be affected;
- Potential impacts to raptor and associated prey species;
- Potential impacts to livestock grazing operations and the availability of forage;
- Potential impacts to military personnel and the OTA associated with non-compliance with DoA training requirements; and
- Potential economic impact associated with expanded training facilities or the lack of these facilities within the OTA.

## **CHAPTER 2.0 DESCRIPTION OF THE ALTERNATIVES**

### **2.1 Alternative Development Process**

NEPA and 32 CFR Part 651 require consideration of reasonable alternatives to the Proposed Action. Only alternatives that would reasonably meet the defined Purpose and Need for the Proposed Action and are “appropriate and reasonable” require detailed analysis in this EA per 40 CFR Parts 1500-1508, title 32, §651.34. As discussed in Section 1.1, Purpose and Need, the purpose of the Proposed Action is to comply with requirements of the IDARNG in order to meet current DoA standards and to prepare for and ensure troop combat readiness in urban areas. To fulfill this purpose, suitable and readily accessible ranges and facilities such as the proposed Live Fire Exercise Breach Facility, Squad Defense Range, Heavy Sniper Range, Engineer Qualification Range, Field Artillery Direct Fire Range, Hand Grenade Familiarization Range, and Hand Grenade Qualification Course must be available for soldiers to implement current military training techniques. In addition, the proposed power line extension and berm construction provide needed infrastructure required for the use of each facility or range.

During the alternatives development phase of this project, properties used by IDARNG in southwestern Idaho were evaluated as potential construction sites for the proposed facilities. IDARNG applied specific criteria (see below) to consider and choose potential site locations for detailed analysis. Sites not meeting these criteria were eliminated from the assessment process. Alternative approaches of developing sites located on IDARNG lands in other parts of Idaho and

acquiring/developing sites in southwestern Idaho not on IDARNG lands were eliminated from consideration and detailed analysis because they did not meet project purpose and need. Additionally, all proposed sites outside the OTA Impact Area were also excluded from further consideration because they could introduce potential safety issues related to a higher probability of civilian interaction.

### **2.1.1 Siting Criteria**

All potential sites were evaluated by personnel from the environmental, cultural, and engineering offices. Many of the sites considered early in the alternatives development and evaluation process for the Proposed Action were excluded if they did not meet the following minimum criteria:

- Historical, cultural, and sacred sites would not be impacted;
- There would be no safety issues for military personnel or civilians (for example, a site is not in a high explosive target area);
- There would be no conflicts with critical livestock grazing areas and development sites (water tanks, spring developments, pasture access);
- Human development (homes, public roads, recreation sites) would not be impacted;
- Use would be compatible with current military operations (for example, the location would provide minimal fuel use or travel time from other major training areas on the OTA, or proximity to existing ranges that directly support the new training operations or are in sequential training scenarios); and
- Federally listed species (specifically LEPA), candidate species, or critical habitat are not present or potentially present at the site.

If a site did not meet these criteria it was eliminated from consideration. For example, the proposed Live Fire Exercise Breach Facility was originally located just east of range five (Appendix A: Map 1). However, this site was eliminated because past observations of LEPA in the area presented possible conflicts. In contrast, if a site met these criteria, it was further evaluated based on the minimum criteria for military urban operations training sites:

- Sites that are already being used for military training activities;
- Undeveloped tracts of land that are of sufficient size to accommodate the construction of the proposed facilities;
- Sites that would have space for expansion if training requirements change;
- Sites were accessible for scheduling military training activities;
- Sites that were inside the OTA impact area (within Range Road); and

- Sites that do not have any sensitive environmental concerns such as wetlands, surface waters, protected species or their habitat, or contamination.

Once a potential site was identified that met all the minimum requirements, a two step evaluation process was used to determine the final location and layout. Step 1 evaluated each site to determine the best layout based on a set of pre-determined considerations: 1) Affect of SDZs from other ranges; 2) Affect of SDZs from new ranges on existing ranges; 3) Impact on future development; 4) Desire to keep similar ranges in the same area (i.e. small arms ranges in the same general vicinity). Step 2 generated SDZs for the potential ranges and determined grids based on SDZ size and orientation, verifying TC 25-8 requirements, and finally mapping the ranges on the ground.

Based on these evaluations, the only properties used by the IDARNG in the southwestern Idaho region that meet the screening criteria requirements are the project areas identified. As a result, no other range locations on the OTA or other properties used by the IDARNG are considered to be reasonable alternative sites for the Proposed Action. For these reasons, there are no practicable alternatives to the sites proposed under this EA.

## **2.2 Description of Proposed Action and Alternatives**

### **2.2.1 *Alternative A—No Action/Continue Current Management***

The No Action Alternative would maintain existing conditions; that is, not construct and operate the Live Fire Exercise Breach Facility, Squad Defense Range, Heavy Sniper Range, Engineer Qualification Range, Field Artillery Direct Fire Range, Hand Grenade Familiarization Range, or Hand Grenade Qualification Course within the OTA or at any other location. While this action would meet management guidelines outlined in the BLM's NCA-RMP and the IDARNG's INRMP and ICRMP, the OTA would not provide the tactical and situational awareness training necessary for surviving and succeeding in urban battlefields, i.e. DoA urban training standards as outlined in TC 25-8. As the OTA does not currently meet all DoA training standards outlined in TC 25-8, these types of required training would have to be completed at alternative locations outside the State of Idaho. Based on the current training capabilities this Alternative would not meet the IDARNG's mission goals or the current Army urban warfare training standards; therefore, this Alternative would not meet the IDARNG's Purpose and Need.

### **2.2.2 *Alternative B—Proposed Action***

In order to meet the training requirements required by the IDARNG, they have identified the need for seven urban training facilities or ranges (Table 1). The proposed sites would be located within the OTA Impact Area south of range 15 on the eastern side of the OTA and south of range 30 on the western side (Appendix A: Map 1). All proposed sites would be south of the livestock drift fence and would provide the tactical and situational awareness training necessary for surviving and succeeding in urban battlefields (Appendix B).

In addition to the training sites, an existing buried power line would be extended from range 15 to the proposed range 18 (Appendix B), and soil required for berm construction on range 11b would be moved from existing training berms located on range 6 (Appendix B: Map 2). Based on the presence of the sagebrush community and potential occurrence of woven spore lichen

*Texosporium sancti-jacobi* in the northern portion of range 6, a work plan has been developed to restrict any use or direct impact to the sagebrush community (Appendix B).

Based on the locations of the proposed ranges there would be little or no affect from UXO on public or military personnel. The IDARNG has trained on the OTA since 1953. Between 1943 and 1948 the southern portion was used by the AAF as a practice bombing range referred to as the Swan Falls bombing Range FUDS Property No. F10ID0134. That was cleared by USACE contractor Shaw Environmental in 2009. Since 1953 the NG has not recorded any dud-producing ammunition usage in any of the range construction areas.

The Proposed Action would not expand the OTA range. Instead, it would change the focus of the existing training range by modernizing and upgrading existing training capabilities. As such, the IDARNG does not anticipate an increase in the number of soldiers training at the OTA or in the density of training population; rather existing training types would be redistributed.

**Table 1. Proposed Urban Training Facilities and Ranges.**

UTF/Range	Range No.	Description
FCC 17880-Live Fire Exercise Breach Facility	11b	This breach facility is used to train soldiers on the technical aspects of breaching doors, windows, and different types of walls using various mechanical and light explosive devices.
FCC 17893 Squad Defense Range	17	This range is used to train individuals and squads on employing mutually supporting fires from defensive positions against stationary infantry targets.
FCC 17829 Heavy Sniper	18	This range is used to train and test soldiers on the skills necessary to detect, identify, engage, and defeat stationary and moving targets in a tactical array.
FCC 17889 Engineer Qualification Range	22	This range is used to train and test soldiers on the skills necessary to employ equipment and explosives to breach or create obstacles.
FCC 17855 Field Artillery Direct Fire Range*	28	The range is used to train field artillery crews on the skills necessary to apply fire mission data, engage, and hit stationary targets in the direct fire mode.
FCC 17883 Hand Grenade Familiarization Range	29	The range is used to train and test individual soldiers in the employment of live fragmentation hand grenades.
FCC 17882 Hand Grenade Qualification Course (Practice grenades not HE**)	29A	The Hand Grenade Qualification Course is used to train and test individual soldiers on the skills necessary to employ hand grenades against stationary target emplacements.

*\*Direct Fire Range: Field artillery training that requires personnel to lower the barrels from normal high angle shooting to a flat “direct” shot similar to a tank.*

*\*\*HE (High-Explosive): These exercises are confined to the core impact area as they could produce duds (unexploded ordinance). Non-HE equates to non dud-producing capability.*

*Note: All facility and range specifications are identified in the TC 25-8 (Training Ranges).*

The Proposed Action would be constructed in accordance with range specification outlined in the DoA’s TC 25-8 (*Training Ranges*). The total area associated with the seven ranges, soil transfer, and power line extension would be approximately 5,325 acres (Table 2). However, the total area of disturbance, approximately 61 acres (1.2 percent of the project area), would be considerably smaller based on the limited area affected by localized construction activity (Table 3).

The large buffer areas surrounding each range were based on the boundaries used to complete the botanical, wildlife, and cultural clearance. Clearances are defined as site-specific surveys conducted to determine the presence or absence of specific resources, i.e. special status species clearances determine the presence of identified wildlife or botanical species of concern within the project area. The large clearance areas (project area) allow for flexibility in the site planning and specific locations of construction activity within each proposed range. Construction is estimated to take approximately 38 weeks and would begin in September of 2010.

**Table 2. Project Area Boundaries\*.**

Range	6	11b	17	18	22	28, 29, and 29a	Extended Powerline	Total
<b>Project Area (acres)</b>	250	40	145	440	4,200	210	40	<b>5,325</b>

*Note: Project areas include construction area, range, and estimated surface danger zone (SDZ).*

**Table 3. Range/Construction Disturbance Area (acres).**

Range	6	11b	17	18	22	28, 29, and 29a	Extended Powerline	Total
<b>Roads</b>	0.00	0.00	4.90	13.10	15.01	0.28	0.00	<b>33.29</b>
<b>Pads</b>	0.00	0.01	2.82	0.98	5.40	3.80	0.00	<b>13.01</b>
<b>Target/ Berms</b>	2.20	1.31	2.68	2.63	0.00	0.43	0.00	<b>9.25</b>
<b>Power</b>	0.00	0.02	0.40	0.40	0.00	0.00	4.10	<b>4.92</b>
<b>Path</b>	0.00	0.00	0.00	0.00	0.00	0.91	0.00	<b>0.91</b>
<b>Total</b>	<b>2.20</b>	<b>1.34</b>	<b>10.80</b>	<b>17.11</b>	<b>20.41</b>	<b>5.42</b>	<b>4.10</b>	<b>61.38</b>

### 2.2.3 Preferred Alternative

The Proposed Action (Alternative B) in this EA is the IDARNG’s Preferred Alternative.

## CHAPTER 3.0 AFFECTED ENVIRONMENT AND ENVIRONMENTAL CONSEQUENCES

The affected environment and environmental consequences are addressed below for each resource of concern. The affected environment describes the existing resource characteristics within the project area that would be affected by the alternatives. The description is based on the best available data. The environmental consequence analyzes the impact to each resource associated with implementing the action, including the direct, indirect, and cumulative impacts. Impacts analyses associated with the proposed action also consider the following general assumptions, as well as the BMP's identified in Table 4.

- All laws and regulations associated with transportation requirements (speed, following distance, vehicle type and weight, safety equipment), water rights (access, amount, and authorized use), air quality regulations, and right-of-way (ROW) authorizations would be adhered to by IDARNG operators during construction and operations at all times.
- There would be no net increase in training; rather the type of training and areas of use within the OTA would shift from heavy armored brigade to more urban-based combat. This is the current trend and may shift again in the future, but for the foreseeable future this is the existing trend and assumption.

### Best Management Practices

Based on the proposed actions relative to the existing conditions and identified issues, as well as the best management practices (BMPs) incorporated into the design and implementation of the proposed project (Table 4), it is unlikely that any mitigation actions need to be taken. For this reason, no mitigation measures beyond the BMPs listed below would be necessary.

**Table 4. BMPs Related to the Proposed Action.**

Resource	BMPs
Air Quality	<ul style="list-style-type: none"> <li>• During construction activities, application of dust suppressants or use of operational controls would be used to prevent excess fugitive emissions.</li> </ul>
Noise	<ul style="list-style-type: none"> <li>• Training activities resulting in high decibel levels would be restricted to daytime use to the extent possible to limit or reduce noise impacts to adjacent land owners.</li> <li>• Construction activities would be limited to daytime hours to minimize potential noise impacts.</li> </ul>
Geology and Soils	<ul style="list-style-type: none"> <li>• Site digging and grading would be limited to those activities required to construct the proposed facilities and associated infrastructure, and to provide any necessary protective berms for the facilities.</li> <li>• Soil stabilizing measures (seeding, use of geo-textiles, hydro-mulch, etc.) would be taken to limit or reduce loss of top soil associated with soil disturbing actions during construction and operations.</li> <li>• Soil stabilizing measures would be implemented during construction to reduce dust on roads and minimize the potential for erosion from stormwater runoff.</li> </ul>
Invasive Species	<ul style="list-style-type: none"> <li>• Use of on-site materials to reduce establishment of new invasive or noxious weed species associated with off-site materials.</li> </ul>

Resource	BMPs
Invasive Species	<ul style="list-style-type: none"> <li>Control measures and site maintenance (mechanical, biological, chemical, or prescribed burns) would be conducted to limit or reduce the establishment or spread of invasive or noxious weed species.</li> </ul>
Vegetation	<ul style="list-style-type: none"> <li>Construction areas were carefully chosen and planned so that impacts to native sagebrush-bunchgrass habitat would be minimized.</li> <li>Pre-construction surveys were, and will be conducted prior to soil disturbing activities to avoid special status plant species.</li> <li>The IDARNG would continue to protect slickspot peppergrass (<i>Lepidium papilliferum</i>) (LEPA) by implementing the management guidelines outlined in the 2003 INRMP.</li> </ul>
Wildlife	<ul style="list-style-type: none"> <li>Pre-construction surveys and grubbing during non-nesting periods would be conducted to avoid impacts to special status species, raptors, and migratory bird species.</li> <li>Annual monitoring is conducted on all training ranges. In the event that an occupied nesting site is identified within the training areas or associated structures within the OTA, the site would be identified and military personnel would work with the JEMO staff to take appropriate measures.</li> </ul>
Cultural Resources	<ul style="list-style-type: none"> <li>All culturally sensitive or known areas with cultural artifacts would receive appropriate protection as determined by the IDARNG archaeologist during construction of the facilities and ranges, as well as during any training activities thereafter. Consistent with IDARNG policies contained in the 2010 ICRMP, all construction sites would be surveyed for cultural resources prior to and during construction to avoid the potential for any impacts to cultural sites.</li> <li>Construction areas were carefully chosen to avoid known cultural resources.</li> </ul>
Public and Occupational Health and Safety	<p><b>Surface Danger Zone (SDZ)</b></p> <ul style="list-style-type: none"> <li>To ensure the public's safety, existing training guidelines and protocols will continue to be used to regulate entry to and training activities within the SDZs (which are inside the Impact Area).</li> </ul> <p><b>Unexploded Ordnance (UXO)</b></p> <ul style="list-style-type: none"> <li>All construction activity would be restricted to non-dudded training areas within the Impact Area, i.e. no activity within the Core Impact Area.</li> <li>To ensure the public's safety, the Impact Area (which might contain UXO) is off-limits to the public. Warning signs are posted around the Impact Area to prevent inadvertent exposure to UXO.</li> </ul> <p><b>Fire Prevention and Suppression</b></p> <ul style="list-style-type: none"> <li>The IDARNG would continue to implement its fire management program, which would handle any fires that might occur.</li> </ul> <p><b>Public Safety</b></p> <ul style="list-style-type: none"> <li>Safety and security at the proposed military facilities would be consistent with IDARNG security procedures. Appropriate signage and barriers would alert the public of construction activities related to the Proposed Action and any traffic pattern changes.</li> </ul>

Resource	BMPs
Public and Occupational Health and Safety	<p><b>Occupational Health and Safety (OSHA)</b></p> <ul style="list-style-type: none"> <li>OSHA requirements and other applicable worker safety regulations would be followed during project construction and operation. Appropriate measures would be taken to limit unauthorized persons from accessing the area during construction.</li> </ul>
Hazardous and Toxic Materials/Wastes	<ul style="list-style-type: none"> <li>Safety precautions would be taken by construction crews to minimize the potential for a hazardous spill. Under current procedures, all spills, regardless of size, are immediately reported to the Orchard Range Control. The responsible unit works to contain the spill until personnel from Range Control or the Environmental Management Office arrive (ANL EAD, 2004). These protective measures would be implemented for the Proposed Action and would minimize the potential for impacts from hazardous and toxic materials.</li> </ul>
Infrastructure Solid Waste Disposal.	<ul style="list-style-type: none"> <li>Solid waste, including construction debris, gathered during the construction and operation phases of the facility and ranges would be disposed of offsite at a designated landfill.</li> </ul>

The identified Area of Analysis encompasses the project areas (Table 2) as well as the site specific areas of impact associated with the Proposed Actions (Table 3). The project area for the Socioeconomics section was expanded to include Ada and Elmore Counties.

### 3.1 Air Quality

#### 3.1.1 Affected Environment (Air Quality)

The U.S. Environmental Protection Agency (EPA) has established National Ambient Air Quality Standards (NAAQS) pursuant to Sections 109 and 301(a) of the Clean Air Act (CAA). These standards, expressed in micrograms per cubic meter, establish safe concentration levels for each criteria pollutant. NAAQS have been set for six pollutants: particulate matter (PM), sulfur dioxide (SO<sub>2</sub>), carbon monoxide (CO), nitrogen dioxide (NO<sub>2</sub>), ozone (O<sub>3</sub>), and lead (Pb) (EPA 2005).

The CAA divides the United States into attainment and non-attainment areas, usually by county or Metropolitan Statistical Area (MSA). Areas not meeting NAAQS are designated non-attainment for the specific pollutant. Each state is required to demonstrate compliance with NAAQS and other components of the CAA through a State Implementation Plan. The Implementation Plan for the Control of Air Pollution in the State of Idaho (IDEQ 2005) describes the non-attainment and air quality maintenance plans within Idaho.

There are currently five non-attainment and maintenance plans (Table 5) specifically developed for northern Ada County (that is, the City of Boise). However, the OTA and proposed range locations fall outside this area, i.e. the OTA does not fall within either a non-attainment area or a maintenance area. In addition, there are no records of exceedances for air quality standards within the OTA or within southern Ada or Canyon Counties. Current military training on the OTA focuses on mechanized activities, which generates only local fugitive dust and vehicle emissions.

**Table 5. Air Quality Improvement Plans in Areas Adjacent to the OTA**

<b>Nonattainment Area Plans within the Project Area</b>	<b>Docket #</b>	<b>State Submittal and Effective Dates</b>	<b>EP Affective Date</b>	<b>FR Publication Date &amp; Citation</b>	<b>CFR Paragraph/ Explanation</b>
<b>Boise N Ada County CO Attainment Plan</b>	ID8-1-6600a	6/29/94 (S)	1/30/95	12/1/94 59 FR 61546	40 CFR 52.670(c) 29
<b>N Ada County PM-10 Nonattainment Area Plan</b>	ID-1-1-5528a	11/14/91 (S) 12/30/94 (S) 7/13/95 (S) 7/13/95(*)	7/29/96	5/30/96 61 FR 27019	40 CFR 52.670 (c)(31)
<b>N Ada County CO Maintenance Plan</b>	ID-02-001	1/17/02 (S)	12/27/02	10/28/2002 67 FR 65713	40 CFR 52.672
<b>Northern Ada County (Boise) PM10 Maintenance Plan</b>	ID-02-003	9/27/02 (S), 7/10/03 (S), & 7/21/03 (S)	11/26/03	10/27/2003 68 FR 61106	40 CFR 52.670 (c)(38)
<b>N Ada County CO Maintenance Plan</b>	ID-02-001	1/17/02(S)	12/27/02	10/28/2002 67 FR 65713	40 CFR 52.672

*\*Note: in FR but not in CFR.  
FR: Federal Register  
S: Submittal*

### **3.1.2 Environmental Consequences (Air Quality)**

#### **3.1.2.1 Alternative A: No Action/Continued Current Management**

The No Action Alternative would not result in changes to the existing air quality in the analysis area.

#### **3.1.2.2 Alternative B: Proposed Action**

Effects on air quality would be direct and short term, result from construction and training activities, and are not expected to cause changes in regional air quality. The analysis area for air quality impacts is limited to the vicinity of the proposed facility, ranges, and associated construction activity. Effects of the Proposed Action on air quality are expected to be similar for all facilities and ranges. Air quality impacts during project construction, including the effects of construction equipment operation, worker transportation vehicles, and fugitive dust, would be temporary and would not create regional changes in air quality. In addition, air quality related BMPs that comply with local, regional, state, and federal regulations are implemented with all construction activities on the OTA and would be implemented for the Proposed Action.

Operation of the facilities constructed for the Proposed Action might result in the localized generation of fugitive dust and vehicle emissions during personnel and vehicle training movements. However, the potential temporary and localized increases in fugitive dust and vehicle emissions during project construction and operation are expected to be minor. These effects would be temporary and generally similar to or less than the effects of current military training activities in the analysis area because training would shift from current mechanized activities, which generate much dust and vehicle emissions, to low-intensity, urban warfare activities under the Proposed Action. Therefore, ambient concentrations of pollutants are expected to remain in compliance with federal and state air quality standards.

## **3.2 Noise**

### **3.2.1 Affected Environment (Noise)**

The IDARNG currently operates under the 2006 Statewide Operation Noise Management Plan (SONMP). In addition, an Argonne National Laboratory Environmental Assessment Division (ANL EAD) publication (2004) provides a detailed examination of the greatest noise level areas within the OTA. Training activities associated with lower noise levels include small caliber weapons firing, small demolition charges and training grenades, military vehicle maneuvering; troop and equipment transport; and bivouacking (Appendix A; Map 3). Training activities that generally produce the highest noise levels are large caliber (greater than 20mm) weapons firing, projectile impact and munitions detonation, and helicopter training (Appendix A; Map 4). These types of training activities normally occur in late spring, summer, and early fall months.

According to the 2006 SONMP, the maximum decibel (dB) levels modeled for large caliber firing exercise (highest noise levels) relative to surrounding private property is between 62 and 70 dB. These peak sound levels (Pk15 met) factor in the statistical variations caused by weather, that are likely to be exceeded only 15% of the time (i.e., 85% certainty the sound level will be within this range). The highest noise levels are associated with large caliber firing ranges and detonation-related training exercises produced on Ranges 1, 2, 6, 10, and 30 (Appendix A: Map 1 and Map 4). The remaining ranges are associated with small caliber and very small demolition charges, with much low dB levels and small noise contours (Appendix A: Map 1 and Map 3). Overtime, as the training emphasis within the OTA shifts from heavy armor to more urban-based capabilities the overall amount and frequency of large caliber training noise has and would continue to shift away from high noise level producing exercises to more low level ones.

### **3.2.2 Environmental Consequences (Noise)**

#### **3.2.2.1 Alternative A: No Action/Continued Current Management**

The No Action Alternative would not result in changes to the existing noise levels in the analysis area.

#### **3.2.2.2 Alternative B: Proposed Action**

The project area for noise-affected resources for the Proposed Action is limited to the general vicinity of the action areas, that is, within close proximity to the Proposed Action areas. Effects of the Proposed Action on noise levels would be direct and short term, and overall are expected to be comparable with existing noise levels associated with similar training activities within the

OTA. It is not likely that the overall amount or intensity of training would change from current seasonal training, but the types of training would shift from more wide-spread heavy military vehicle maneuvering to more localized weapons firing and projectile impact and munitions detonation. Therefore, the overall noise levels would be similar to or less than adjacent noise contours, and the source/area affected would be much more localized.

The IDARNG's SONMP (2006) 2006 identified the operational noise contours (small and large caliber) associated with existing training activities (Appendix A: Maps 3 and 4). It is very unlikely that construction activities associated with the proposed ranges and infrastructure would exceed those associated with small caliber contours. As such, noise impacts to surrounding private lands would be negligible.

The operation of Ranges 11b, 17, 18, 29, and 29a would all fall under the small caliber noise contours based on the type of activity and position relative to similar noise sources. These noise contours primarily fall within the boundary of the OTA or on federal/state lands with the exception of a small private parcel used for agriculture. Based on the limited affect to private lands associated with the proposed operational activities on these ranges the overall adverse impact would be negligible.

The operational noise contours associated with Ranges 22 and 28 would be associated with large caliber fire and munitions detonation. While the noise contours do fall outside the OTA boundary, the Ranges were positioned in the south and southwest corners of the Impact Area to limit the impact to surrounding private lands. In addition, the surrounding lands affected are primarily agricultural fields; therefore overall adverse impacts to residents would be negligible.

While there could be minimal adverse noise impacts associated with the new Ranges, there would also be an associated benefit relative to the overall reduction in the amount and frequency of large caliber firing. As the IDARNG's training emphasis shifts from heavy armored and large caliber operations to more urban-based small caliber training, the amount and frequency of noise associated with large caliber operations decreases. Specifically, training activities that occur within the OTA currently have approximately 30% less large caliber weapons firing and detonation-related noise associated with heavy armor brigades than existing training. While this trend may or may not change in the future, current and proposed training activities would indirectly result in reduced adverse impacts to adjacent private lands associated with large caliber training activities.

In addition, the proposed facility and ranges are not near any schools, hospitals, or facilities that would be impacted by construction noise or increased training noise when the facility is completed. As a result, future noise levels on the OTA are likely to be similar to or less than existing levels under current operations.

## **3.3 Soils**

### **3.3.1 Affected Environment (Soils)**

The affected environment related to geology and soils is discussed in the following sections:

- Physiography and Topography
- Geology
- Petroleum and Mineral Resources
- Soils

#### **3.3.1.1 Physiography and Topography**

The project area is within the western portion of the 20,000 square-mile physiographic feature known as the Snake River Plain. This area is characterized by gentle terrain with basalt ridges, buttes, and cinder cones (Collett 1980, as cited in Stout and Associates 2004). Elevation ranges from 3,000 to 3,500 feet above mean sea level. Snake River Plain lava flows are responsible for the gently rolling terrain of the OTA (Shallat 1994, as cited in Stout and Associates 2004). These basalt flows occurred during the Pleistocene or earlier and formed the underlying layer of Snake River Basalt. The Snake River Basalt layer ranges in depth from very shallow to thousands of feet deep (Collett 1980, as cited in Stout and Associates 2004).

#### **3.3.1.2 Geology**

Basalt ridges, buttes, cinder cones, and lava tubes occur throughout the low rolling hills of the OTA. Four large cinder cones occur within the OTA, but none is within the project area.

The Snake River Canyon, a deep gorge bisecting the Snake River Plain for more than 500 miles, is located 2.4 to 5.0 miles from the southern and western boundaries of the OTA. The Snake River Canyon varies from 300 to 800 feet deep and is not within the project area.

Faulting on the Snake River Plain usually parallels the east-west axis of the plain. However, there is no evidence of major faulting on the OTA (CH2M HILL 1988, as cited in Stout and Associates 2004). The 1985 Uniform Building Code lists the area as having only a minor seismic risk (Stout and Associates 2004).

#### **3.3.1.3 Petroleum and Mineral Resources**

The OTA has no known substantial mineral resources. Formerly, four cinder quarries located on the OTA were used by the IDARNG to obtain material for road surfacing and range firing pads. Two of these quarries are depleted and have been reclaimed. Cinder Cone Butte and one small quarry south of it are still available for use. However, neither of them is within the project area and the quality of cinders available has limited usefulness for roadbeds on the OTA.

#### **3.3.1.4 Soils**

Soils in the project area are described as aridosols that developed in loess or silty alluvium deposited mostly by wind over basalt plains (Stout and Associates 2004). These soils are young with weak definition of horizons, well drained, and vary from shallow to very deep (60 inches or deeper), depending on the depth of underlying bedrock (lava flows).

Soil surveys completed in 1999 by IDARNG and others indicate the OTA has bedrock-controlled topography that consists predominantly of level to rolling lava flows on an extensive

shield volcano grading to surrounding lava plains (Stout and Associates 2004). Most soil in the area was formed in alluvium that is derived from loess and volcanic ash. The soil is overlain by a thin mantle of loess. Durapans (silica-cemented hardpans) and Pleistocene basalt commonly are at a depth of less than 60 inches.

Soils in the project area (Appendix A: Map 5) were mapped from the Natural Resources Conservation Services (NRCS) soil mapping website (NRCS 2006). A summary of the soils within the project area is provided in Table 6 for each facility/range as well as the extended powerline right-of-way (ROW), and soils associated with the disturbance area on range 6. Expanded soil descriptions are found in Appendix D.

**Table 6. Soil Types within the Project Area.**

Range	Map Unit Name	Acres	Percent of Area
6	Chilcott-Catchell-Chardoton	120	48
	Catchell-Chilcott-Banbury	102	41
	Banbury-Mcpan-Rock Outcrop	28	11
<b>Range 6 Sub-Total</b>		<b>250</b>	<b>4.7*</b>
11b	Chilcott-Purdam-Browns Complex	32	80
	Power-Purdam Complex	8	20
	<b>Range 11b Sub-Total</b>		<b>40</b>
17	Purdam-Mcpan Complex	131	90
	Tadpole-Purdam-Trevino Complex	7	5
	Power-Purdam complex	7	5
	<b>Range 17 Sub-Total</b>		<b>145</b>
18	Tadpole-Purdam-Trevino Complex	320	72
	Power-Purdam complex	80	18
	Purdam-Mcpan Complex	32	8
	Corder-Tadpole Complex	8	2
	<b>Range 18 Sub-Total</b>		<b>440</b>
22	Tadpole-Corder Complex	3,370	80
	Tadpole-Purdam-Trevino Complex	630	15
	Corder-Tadpole Complex	155	4
	Tadpole Silt Loam, Saline	45	1
	<b>Range 22 Sub-Total</b>		<b>4,200</b>
28, 29, and 29a	Tadpole-Purdam-Trevino Complex	210	100
<b>Range 28, 29, and 29a Sub-Total</b>		<b>210</b>	<b>3.9*</b>
Powerline	Purdam-Mcpan Complex	23	58
	Chilcott-Purdam-Bowns Complex	8	20
	Chardoton Complex	4	11
	Power-Purdam complex	4	11
	Tadpole-Purdam-Trevino Complex	1	>1
	<b>Powerline Sub-Total</b>		<b>40</b>
<b>Project Area Total</b>		<b>5,325</b>	<b>100*</b>
<i>*Percentage of total project area.</i>			

### 3.3.2 Environmental Consequences (Soils)

#### 3.3.2.1 Alternative A: No Action/Continued Current Management

The No Action Alternative would not result in changes to the existing geology and soils associated with the analysis area.

### 3.3.2.2 Alternative B: Proposed Action

There would be direct, short-term and some long-term, adverse impacts to geologic and soils resources from the Proposed Action. These effects would be limited to the immediate construction area of the facilities (buildings and towers) and infrastructure (roads, building and parking pads, targets, berms, and utility trenches) (Table 7). These impacts would occur during the construction period and operation. Site digging and grading would be limited to only those activities required to construct the proposed facilities and infrastructure and to provide any necessary protective berms for the facilities and annual maintenance of the roads and roadside berms.

**Table 7. Direct Disturbance by Range (Soils).**

Range/Site	6	11b	17	18	22	28, 29, and 29a	Extended Powerline	Total
Disturbance (acres)	2.20	1.34	10.8	17.11	20.41	5.42	4.10	61.38

The impact from implementation of the Proposed Action on soils in the construction areas would be minor and short-term. Soil infiltration rates are high for all sites and soil erosion potential is low. These soil characteristics, when combined with the low slope on all sites, indicate there would be no long-term detrimental effects on the soils near the construction sites for any of the facilities. The IDARNG would implement BMPs during and after construction to reduce dust on roads and to minimize the potential for erosion from wind and storm water runoff. The long-term affect on approximately 61 acres of soils associated with the construction and operation would comprise a very small percentage (1.2 percent) of the project area or overall 143,000-acre OTA (.04 percent). Similarly, the Proposed Action would not impact the overall topography or the underlying geological structure of the analysis area, and there are no prime or unique farmlands in the analysis area or the OTA. Therefore, adverse impacts associated with the Proposed Action on these resources would be negligible.

## 3.4 Vegetation and Wildland Fire (Including Special Status Plants and Noxious Weeds)

### 3.4.1 Affected Environment (Vegetation and Wildland Fire)

#### 3.4.1.1 Upland Vegetation and Noxious and Invasive Plants

Extensive expanses of sagebrush and native grass communities were found historically throughout large areas of southwestern Idaho, including the project area. The decline in native sagebrush-steppe plant communities began with the intensive grazing pressures of the late 1800s through the early 1900s, which removed grass and forbs and introduced exotic species. As a result, by the early 1900s substantial changes in the vegetation of the area had begun to occur. Many species of exotic annuals, introduced into the area in contaminated crop seed and in livestock feces, invaded the damaged rangeland. These species included cheat grass (*Bromus tectorum*) and several exotic mustards (Brassicaceae) (Yensen 1981; Piemeisel 1951). Winter annuals, such as cheat grass, often germinate in the fall, set seed early in the spring, and dry immediately afterwards. They spend the hot months of summer dry and in a more flammable stage than the native species they replaced, resulting in easier fire starts from lightning or other

means. As cheat grass invades larger areas, fires began to burn larger and larger areas and to re-burn the same area with far greater frequency than historically.

While seeds of exotic annuals survive fire well, many native species such as big sagebrush (*Artemisia tridentate*), winterfat (*Ceratoides lanata*), and shadscale (*Atriplex confertifolia*) are killed by fire and do not re-sprout. By 1980, average sizes of wildfire burns were much larger than historically, and the burn-re-burn interval of the Snake River Plain ecosystem, like that of much of the OTA, was altered. The once-vast stands of native shrubs were gone or fragmented, replaced by large stands of exotic annuals.

Along with the disappearance of sagebrush, many understory plants disappeared as well. In addition, non-native grass species, such as intermediate wheatgrass and crested wheatgrass, were planted purposely to replace sagebrush-bunchgrass areas. These non-native grass species were planted because, at the time, they were considered to be better livestock forage or the seeds were easier to obtain than native seeds.

As shown in long-term vegetation inventories and monitoring by the JEMO of the IDARNG, plant communities associated with the project areas did not escape changes similar to those described above (Appendix A: Map 6). Currently, there are four general vegetation communities within the project areas, including: native grasslands and forbs, cheatgrass, exotic annual forbs/grasses, and isolated patches of native shrubs (Appendix A: Map 6 and Table 8). In addition, there are large areas of human disturbance associated with existing training activities.

**Table 8. Mapped Plant Community Distribution (acres) within the Project Areas.**

Range	6	11b	17	18	22	28, 29, and 29a	Extended Powerline	Total	% of Total
Native Shrubs	11.2	3.1	4.1	52.0	194.8	54.1	1.0	<b>320.3</b>	<b>6</b>
Native Grasslands/Forbs	132.6	4.1	12.3	180.6	1307.6	19.3	3.1	<b>1,659.6</b>	<b>31</b>
Cheatgrass	11.2	1.0	0.0	29.6	1859.5	0.0	0.0	<b>1,901.3</b>	<b>36</b>
Exotic Annual Forbs	2.0	11.2	125.5	171.4	723.2	37.7	10.2	<b>1,081.2</b>	<b>20</b>
Human Disturbance	92.8	20.4	3.1	6.1	115.3	98.9	26.0	<b>362.6</b>	<b>7</b>
<b>Total</b>	<b>249.9</b>	<b>39.8</b>	<b>144.9</b>	<b>439.7</b>	<b>4,200.3</b>	<b>210.1</b>	<b>40.0</b>	<b>5,325</b>	<b>100</b>

In addition to the general plant communities, there were three identified Idaho-listed plant species of concern (Table 9) that could potentially occur within the project area based on IDARNG, IDFG, and BLM records (Appendix A: Map 7), and one identified T&E species within the region (see below). Site clearances were completed on all proposed ranges and no Idaho-listed plant species of concern were identified within the areas of direct disturbance.

**Table 9. Special Status Plants with Potential Habitat in the Project Area Vicinity.**

Common Name	Scientific Name	General Habitat Description and Phenology	State/BLM Rank
<b>Wovenspore Lichen</b>	<i>Texosporium sancti-jacobi</i>	On well decomposed humus, flat or north-facing slopes in especially old clumps of Sandberg's bluegrass ( <i>Poa secunda</i> ), on big sagebrush –Thurber's needlegrass ( <i>Stipa thurberiana</i> ) -bluebunch wheatgrass ( <i>Pseudoroegneria spicata</i> ) sites, from 880-1000 m elevation. Year round.	S2 <sup>1</sup> /Type 2 <sup>a</sup>
<b>Davis' Peppergrass</b>	<i>Lepidium davisii</i>	Mostly barren hard bottom playas, but sometimes with a few shadscale and silver sage plants, surrounded by big sagebrush, four-wing saltbush ( <i>Atriplex canescens</i> ) and Sandberg's bluegrass habitat, from 885-1800 m elevation. April to August.	S3 <sup>2</sup> / Type 3 <sup>b</sup>
<b>Desert Pincushion</b>	<i>Chaenactis stevioides</i>	Open, usually sandy sites in salt desert shrub, primarily, big sagebrush, horsebrush ( <i>Tetradymia glabrata</i> ), four-wing saltbrush and Indian ricegrass ( <i>Oryzopsis hymenoides</i> ) communities, to 1200 m elevation. April to June	S2 <sup>1</sup> / Type 4 <sup>c</sup>
<p><sup>1</sup> S2: Imperiled: at risk because of restricted range, few populations (often 20 or fewer), rapidly declining numbers, or other factors that make it vulnerable to range wide extinction or extirpation.</p> <p><sup>2</sup> S3: Vulnerable: at moderate risk because of restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors that make it vulnerable to range wide extinction or extirpation.</p> <p><sup>a</sup> Type 2: These species are experiencing significant declines throughout their range with a high likelihood of being listed in the foreseeable future due to their rarity and/or significant endangerment factors.</p> <p><sup>b</sup> Type 3: These species are globally rare with moderate endangerment factors. Global rarity and inherent risks associated with rarity make these species imperiled.</p> <p><sup>c</sup> Type 4: These species are generally rare in Idaho with small populations or localized distribution with currently low threat levels. Due to small populations and habitat area, certain future land uses in close proximity could significantly jeopardize these species.</p>			

**Source: Atwood and DeBolt 2004**

Site specific clearances were also conducted for the presence of LEPA and associated slickspots or micro-playa habitat. LEPA is a federally listed threatened plant species. It was listed by the USFWS in 2009 based on a number of reasons including its restricted geographic range, very specific habitat requirements, small fragmented populations, and absence of the species from most superficially suitable habitat. Threats to its continued survival include wildfire, weed invasion, livestock disturbance, and development, among other issues (Meyer et al. 2006; USFWS 2009).

Site clearances identified that no LEPA or associated slickspot habitat was present within the project areas. The closest known LEPA-occupied slickspots are found north of Range Road across from Range 6, approximately 1.2 miles north of the closest disturbance (Appendix A: Map 8). This is also the closest element occurrence, a specific geographical location containing the species as identified in the 2003 LEPA Candidate Conservation Plan by the USFWS, BLM, IDGF, IDARNG, and other cooperators. Based on the proximity of LEPA, a construction plan was developed to keep soil disturbing activities associated with soil disturbing activities to the

southern portion of Range 6, approximate 2 kilometers south of the closest know or observed LEPA population (Appendix B). In addition, the IDARNG has been implementing a number of proactive conservation measures (Table 10) specifically related to the protection of LEPA and LEPA habitat.

**Table 10. IDARNG *Lepidium papilliferum* Management Policies Implemented.**

Action	Year Implemented	Comments
During training events when firing on the ranges occurs, trained firefighters and fire trucks are present; all training stops when smoke is sighted; firefighters are dispatched at once; and training does not resume until fires are out.	1987/1987	Since 1987 the OTA has lost far fewer acres of sagebrush to wildland fire than surrounding lands, less than 150 acres, compared to tens of thousands of acres of sagebrush lost to fire in lands adjoining the training area.
When planning maneuver and bivouac exercises, military units must submit their plans to the IDARNG Natural Resources Staff; if the exercise might affect LEPA, Natural Resources Staff work with the units to re-locate the exercises.	About 1990	Maneuver and bivouac exercises are sited so as not to affect <i>Lepidium papilliferum</i> or its habitat.
Population centers of LEPA are placed off-limits to all military training, 5,167 acres.	1990, 1991, 1994, and 2001	Additional off-limits would be added as more populations of the species were found.
All areas proposed for construction, development, or change-of-use is first surveyed for LEPA; if the species is found, the area is not disturbed; the activity is re-located.	1991	Reduce direct impacts to species and habitat.
Newly documented populations of <i>LEPA</i> will be added either to the Level I Habitat Management Areas or to the Level II Habitat Management Area, depending upon evaluations of the populations and military use of the area, by the IDARNG natural resources staff.	1991	Proactive and long-term protection.
Maneuvering is not done in sagebrush stands; IDARNG is doing less and less heavy maneuvering.	1996	This was done to protect sagebrush stands from fragmentation and from invasion by exotic annuals.
All military vehicles coming to Orchard Training Area from outside the western Snake River Plain must first be washed at the high-pressure wash rack at the MATES before entering the training area.	1999	This was done to prevent the introduction of additional species of exotic annuals.

Source: IDARNG 2003 INRMP

A summary description of each proposed range, including general community description and presence/absence of Idaho-listed plant species of concern is found below. A list the common plant species associated with plant communities found throughout the OTA can also be found in Appendix E.

**Powerline Extension:** The area associated with and directly adjacent to the excavation trench is dominated by non-native invasive grass and forbs species, with only isolated patches of native

species, primarily native grass species. There are no special status species or associated habitat within are near the affected area.

**Range 6:** This area has a large contiguous stand of big sagebrush in the northern portion of the project area (Appendix A: Map 6), with the potential occurrence of woven spore lichen. The rest of the area to the south, in which the soil excavation would occur, is dominated by exotic annuals. A site specific work plan has been developed to restrict any use or direct impact of the sagebrush community in the northern portion of the range (Appendix A: Map 2).

**Range 11B:** Approximately five percent of the project area is made up of isolated patches of native grasses and forbs with the residual 95 percent of the site dominated by cheat grass, bur-buttercup (*Ranunculus testiculatus*), mustards, and other exotic annuals. There is no remnant big sagebrush community or special status species found within the project area.

**Range 17:** Approximately three percent of the project area is made up of isolated patches of native grasses and forbs with the residual 97 percent of the site dominated by mustards and bur-buttercup. Native forbs persist in some rocky outcrops and in draw bottoms. There were no special status species found within the project area.

**Range 18:** Approximately 30 percent of the project area is made up of native grasses and forbs, primarily Sandberg's bluegrass and globe mallow (*Sphaeralcea munroana*). Native forbs communities are generally restricted to rocky outcrops and in draw bottoms. The residual 70 percent of the site is dominated by mustards and bur-buttercup, with patches of cheat grass throughout. There is no remnant sagebrush community, but Douglas pincushion (*Chaenactis douglassii*) has been present in prior years with adequate precipitation, but there were no occurrences identified this year. Areas associated with occurring special status species would be restricted from construction activity.

**Range 22:** The northeastern portion of the proposed project area, roughly 20 percent, has the highest percentage of native species, approximately 35 percent. The primary species is Sandberg's bluegrass with isolated patches of bud sage (*Artemisia spinescens*) and some small patches of winter fat. Residual native forbs still persist in the rocky areas of draws and hills as well, but these are small isolated populations. The rest of the northern portion of the area is dominated by exotic annuals. Douglas pincushion has been identified in the northeast portion of the project area in prior years with adequate precipitation, but there were no occurrences identified this year. Areas associated with occurring special status species would be restricted from construction activity. There is also a restricted playa in the same area with an occurrence of Davis' Peppergrass (*Lepidium davisii*). This area is currently, and would continue to be restricted from any use.

**Rang 28, 29, and 29a (28, 29, 29a):** The site is generally dominated by exotic annuals (85-95 percent) with isolated patches of native grasses scattered throughout. There is no remnant sagebrush community or special status species found within the project area.

#### ***Exotic/Non-Native/Noxious Weeds***

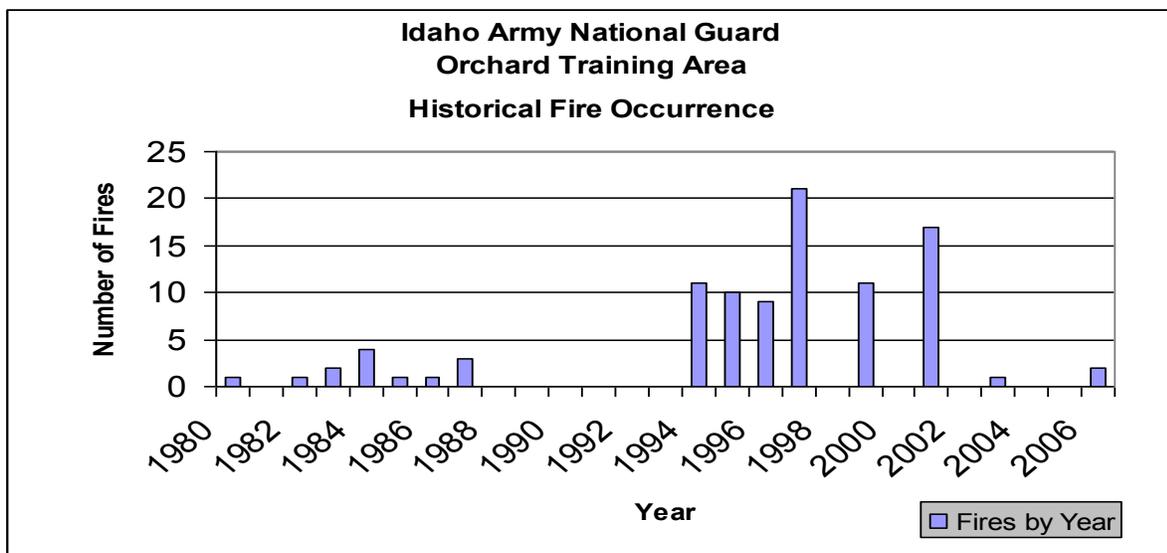
While the majority of the project area is composed of invasive annual species there is currently no identified Idaho-listed noxious weed species present. The IDARNG has implemented a procedure for preventing the introduction of exotic weed species into the OTA. Military vehicles

coming to the OTA from outside the Treasure Valley are required to undergo pressure washing at the MATES facility prior to entering the OTA. Each year, herbicides are used on noxious weed species introduced to the MATES facility at locations where out-of-area vehicles enter. Military vehicles exiting the OTA are also required to go through the MATES facility pressure wash. This IDARNG weed-prevention program was initiated in 2000 (Stout and Associates 2004).

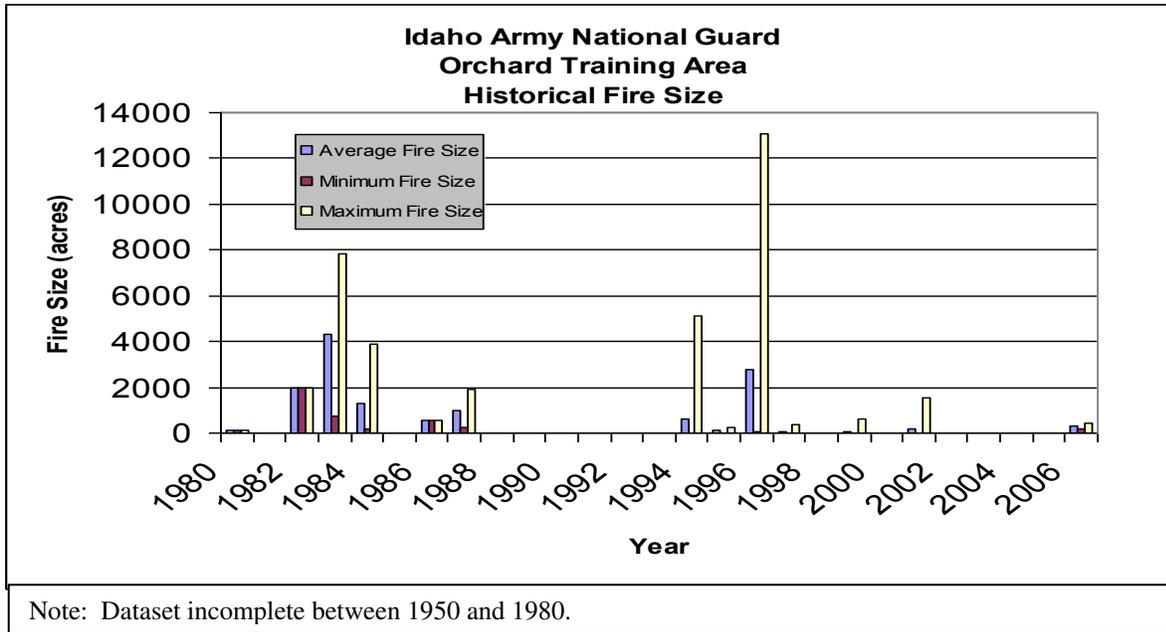
### 3.4.1.2 Wildland Fire

Many factors, both historic and contemporary, have led to reductions in burn intervals within the OTA. Although wildland fire is a natural disturbance mechanism associated with shrub-steppe ecosystems, the establishment and spread of invasive annuals throughout the Impact Area of the OTA has increased the quantity and connectivity of fuels, resulting in an altered fire regime (i.e., greater frequency of wildland fires that affect larger and larger areas of native vegetation) (Peters and Bunting 1992). BLM data indicates that approximately 42 percent of the OTA, or 57,988 acres, have burned since 1957. Figure 1 summarizes fire occurrence by year and Figure 2 summarizes fire size by year. Map 9 of Appendix A shows the locations of wildfires within and adjacent to the OTA since 1957.

**Figure 1: OTA fire occurrence since 1980**



**Figure 2: OTA fire size by year since 1980**



### 3.4.2 Environmental Consequences (Vegetation and Wildland Fire)

#### 3.4.2.1 Alternative A: No Action/Continued Current Management

The No Action Alternative would not result in changes to the existing vegetation or wildland fire regime associated with the analysis area.

#### 3.4.2.1 Alternative B: Proposed Action

##### *Upland Vegetation and Noxious and Invasive Plants*

The Proposed Action was specifically designed to avoid native vegetation to the extent possible and protect remnant native vegetation to minimize direct impacts to vegetation. Based on the identified locations of the facilities and associated infrastructure, approximately 61 acres of vegetation would be directly affected (Table 11). The Proposed Action has also been designed to minimize the impacts to remnant native plant communities, which make up approximately 15 acres or 25 percent of the impacted area, or 0.3 percent of the project area, with the greatest emphasis on protecting sagebrush communities, which make up approximately 2 acres or 3.3 percent of the impacted area, or 0.04 percent of the project area. These direct impacts would generally be long-term and adverse, but would also be localized. The exception would be range 6, which would be reseeded with native and desirable non-native species to reestablish soil structure and possibly reestablish native grass species that are generally missing in the area. The impact to range 6 would be adverse in the short-term but possibly beneficial in the long-term.

Indirect impacts to vegetation would generally be associated with the establishment and spread of invasive or noxious weed species that would compete for limited resources. Areas denuded of vegetation would be more susceptible to invasion by noxious and invasive plants, but incorporating appropriate BMPs to minimize this risk. Continuation of standard operating procedures (SOP) associated with washing vehicles would also reduce the risk of introducing

noxious weeds and plant species from off-site machinery and/or construction materials. Species introductions by recreationists and herbivores would be expected to remain unchanged, but improved vegetation associated with disturbed areas should make the plant communities more resistant to this disturbance. While these impacts would generally affect a greater area than the direct impacts identified above, the majority of the area of analysis is already dominated by these species; therefore, short and long-term adverse indirect impacts would be negligible.

**Table 11. Direct Disturbance by Range (Vegetation).**

Community Type	Total Area	Affected Area	% of Area Affected
<b>Range 6</b>			
Native Shrubs	11.20	0.00	0
Native Grasslands/Forbs	132.60	0.00	0
Cheatgrass	11.20	0.00	0
Exotic Annual Forbs/Grasses	2.00	0.00	0
Human Disturbance	92.80	2.20	2.4
<b>Range 6 Sub-Total</b>	<b>249.90</b>	<b>2.20</b>	<b>0.1</b>
<b>Range 11b</b>			
Native Shrubs	3.10	0.00	0
Native Grasslands/Forbs	4.10	0.57	14
Cheatgrass	1.00	0.00	0
Exotic Annual Forbs/Grasses	11.20	0.19	2
Human Disturbance	20.40	0.58	3
<b>Range 11b Sub-Total</b>	<b>39.80</b>	<b>1.34</b>	<b>3.4</b>
<b>Range 17</b>			
Native Shrubs	4.10	0.00	0
Native Grasslands/Forbs	12.30	1.23	10
Cheatgrass	0.00	0.00	0
Exotic Annual Forbs/Grasses	125.50	9.22	7
Human Disturbance	3.10	0.35	11
<b>Range 17 Sub-Total</b>	<b>145.00</b>	<b>10.80</b>	<b>7.5</b>
<b>Range 18</b>			
Native Shrubs	52.00	1.11	2
Native Grasslands/Forbs	185.60	7.80	4
Cheatgrass	29.60	0.01	0
Exotic Annual Forbs/Grasses	172.40	8.12	5
Human Disturbance	6.10	0.07	1
<b>Range 18 Sub-Total</b>	<b>445.70</b>	<b>17.11</b>	<b>3.8</b>

Community Type	Total Area	Affected Area	% of Area Affected
<b>Range 22</b>			
Native Shrubs	194.80	0.95	0.5
Native Grasslands/Forbs	1,307.60	3.10	0.2
Cheatgrass	1,859.50	8.43	0.5
Exotic Annual Forbs/Grasses	723.20	6.89	1
Human Disturbance	115.30	1.03	0.9
<b>Range 22 Sub-Total</b>	<b>4,200.30</b>	<b>20.41</b>	<b>.05</b>
<b>Range 28, 29, and 29a</b>			
Native Shrubs	54.10	0.05	0.1
Native Grasslands/Forbs	19.30	0.04	0.2
Cheatgrass	0.00	0.00	0
Exotic Annual Forbs/Grasses	37.70	.97	2.6
Human Disturbance	98.90	4.37	4.4
<b>Range 28, 29, and 29a Sub-Total</b>	<b>210.10</b>	<b>5.43</b>	<b>2.6</b>
<b>Extended Powerline</b>			
Native Shrubs	1.00	0.00	0
Native Grasslands/Forbs	3.10	0.09	2.9
Cheatgrass	0.00	0.00	0
Exotic Annual Forbs/Grasses	10.20	0.57	5.6
Human Disturbance	26.00	3.43	13.2
<b>Extended Powerline Sub-Total</b>	<b>40.30</b>	<b>4.09</b>	<b>10.1</b>
<b>Project Total</b>			
<b>Total</b>	<b>5,325</b>	<b>61.38</b>	<b>1.2</b>

***Threatened, Endangered, and Bureau of Land Management Special Status Plants***

There are not expected to be any short- or long-term, direct impacts to the identified special status plant species. No populations are known to occur in the area of disturbance and clearances were conducted for all sites during appropriate timeframes. If species are found, proper actions would be taken to protect the species and corresponding habitat.

While there would be no direct impacts, there is the potential that wildfires could affect plant communities adjacent to the area of disturbance. However, based on the limited amount of habitat for these species within the OTA Impact area, coupled with the aggressive fire suppression requirements during training activities and the fire management activities outlined in the 2003 INRMP, the overall potential indirect adverse impacts would be negligible.

It has also been determined by the IDARNG that based on the absence of LEPA or LEPA habitat within the project area, coupled with the construction plan for Range 6 and the overall conservation measures outlined above, there would be No effect on LEPA. A letter of concurrence of these findings was issued by the BLM (Appendix C).

### ***Wildland Fire***

While wildfire is a natural function of the ecosystem, the vegetative communities within the area of analysis have been altered considerably. As such, wildfire has become a threat to remnant native plant communities and special status plant species, and training activities associated with the proposed ranges would be potential ignition sources adversely affecting plant communities both directly and indirectly. Direct impacts would diminish natural seed sources and reduce the reproductive capacity of the population, resulting in short and long-term adverse impacts to native populations. The severity of the overall impact would be related to the size and intensity of the burn, but would generally be localized. Indirect long-term impacts associated with increased competition from the establishment and spread of invasive species would also adversely impact native plant communities in the long-term. However, while short-term impacts would be more localized, long-term impacts could be landscape wide without active management.

The SOP's associated with military training activities coupled with daily wildfire monitoring and available resources for suppression and post-fire stabilization of military-caused wildfires provided by the IDARNG considerably reduces the overall potential impacts associated with direct and indirect impacts from wildfires. Based on these resources, the overall impacts from wildfire to native vegetation would be considerably reduced relative to similar areas without the IDARNG resources. Therefore, potential impacts from wildfire associated with the proposed action would be minimal.

## **3.5 Fish and Wildlife / Special Status Animals**

### **3.5.1 Affected Environment (Fish and Wildlife/ Special Status Animals)**

Wildlife species found in the area are those commonly associated with the southern Idaho portion of the Intermountain Sagebrush Province/Sagebrush-Steppe Ecosystem. Species include but are not limited to: badger (*Taxidea taxus*), coyote (*Canis latrans*), pronghorn (*Antilocapra americana*), common raven (*Corvus corax*), long-billed curlew (*Numenius americanus*), western meadowlark (*Sturnella neglecta*), Brewer's sparrow (*Spizella breweri*), sage sparrow (*Amphispiza belli*), western rattlesnake (*Crotalus viridis*), gopher snake (*Pituophis catenifer*), racer (*Coluber constrictor*), sagebrush lizard (*Sceloporus graciosus*), side-blotched lizard (*Uta stansburiana*), and the western whiptail lizard (*Cnemidophorus tigris*). An expanded list of common species found throughout the OTA is found in Appendix F.

The OTA also supports a wide variety of raptors and associated prey species important to the NCA including but not limited to:

<b>Raptors</b>		
American Kestrel ( <i>Falco sparverius</i> )	*Burrowing Owl ( <i>Athene cunicularia</i> )	*Ferruginous Hawk ( <i>Buteo regalis</i> )
Prairie Falcon ( <i>Falco mexicanus</i> )	Red-tailed Hawk ( <i>Buteo jamaicensis</i> )	Rough-legged Hawk ( <i>Buteo lagopus</i> )
Northern Harrier ( <i>Circus cyaneus</i> )	*Swainson's Hawk ( <i>Buteo swainsoni</i> )	Golden Eagle ( <i>Aquila chrysaetos</i> )
*Short-eared Owl ( <i>Asio flammeus</i> )	*Merlin ( <i>Falco columbarius</i> )	
*IDFG-listed Species of Conservation Concern.		
<b>Raptor Prey Species</b>		
Black-tailed Jackrabbit ( <i>Lepus californicus</i> )	Chisel-toothed Kangaroo Rat ( <i>Dipodomys microps</i> )	Deer Mouse ( <i>Dipodomys ordii</i> )
Northern Grasshopper Mouse ( <i>Onychomys leucogaster</i> )	Nuttall's Cottontail ( <i>Sylvilagus nuttallii</i> )	Ord's Kangaroo Rat ( <i>Dipodomys ordii</i> )
Great Basin Pocket Mouse ( <i>Perognathus parvus</i> )	Least Chipmunk ( <i>Tamias minimus</i> )	Piute Ground Squirrel ( <i>Spermophilus mollis</i> )
Deer Mouse ( <i>Peromyscus maniculatus</i> )	Ord's Kangaroo Rat ( <i>Dipodomys ordii</i> )	Western Harvest Mouse ( <i>Reithrodontomys megalotis</i> )

The bald eagle (*Haliaeetus albicilla*) winters (November to March) along the Snake River (south of the OTA). It is rarely observed on the OTA and is considered a casual visitor. It does not nest on the OTA. Golden eagles forage year-round throughout the OTA however they nest south of the OTA on cliff faces in the Snake River Canyon.

The IDFG listed fourteen species of conservation concern with a predicted distribution within the OTA including the: pygmy rabbit (*Brachylagus idahoensis*), Townsend's big-eared bat (*Corynorhinus townsendii*), spotted bat (*Euderma maculatum*), fringed myotis (*myotis thysanodes*), Brewer's sparrow, long-billed curlew, greater sage-grouse (*Centrocercus urophasianus*), ground snake (*Sonora semiannulata*), long-nosed snake (*Rhinocheilus lecontei*), and five raptor species (see above).

The USFWS identified four listed wildlife species within Ada County. The Snake River Physa (*Haitia (Physa) natricinia*) is listed as endangered, the Bull trout (*Salvelinus confluentus*) is listed as threatened, and the Greater sage grouse and Yellow-billed cuckoo (*Coccyzus americanus*) are listed as candidate species (Appendix C). The Snake River Physa, Bull trout, and Yellow-billed cuckoo all require streams, wetlands, or riparian habitat that is not found within or adjacent to any of the proposed project areas or the OTA. In March of 2010, the greater sage grouse was put on the candidate list for future action by USFWS, meaning the species would not receive statutory protection under the ESA and states would continue to be responsible for managing the bird. While habitat for the species is found within the OTA the species has not been observed within the OTA for more than fifty years.

The NCA's RMP and Record of Decision (2008b) listed ten species found in the project area as "regional and State imperiled". Under this plan, special conservation emphasis is given to the prairie falcon and Piute ground squirrel. Other BLM "regional and state imperiled" species associated with the OTA include the: pygmy rabbit; spotted bat; ferruginous hawk; loggerhead shrike (*Lanius ludovicianus*); sage sparrow; Brewer's sparrow; long-nose snake; and the ground snake (Appendix F).

JEMO staff conduct site specific clearances for all project areas during the months of April and May in 2010. There were no observed occurrences of any special status species within the project areas. However, in the event that any special status plant or wildlife species are encountered during construction activities, such activities shall cease until a full assessment can be made by the attending resource specialist.

### **3.5.2 Environmental Consequences (Fish and Wildlife/Special Status Species)**

#### **3.5.2.1 Alternative A: No Action/Continued Current Management**

There would be no permanent buildings constructed under the No Action Alternative. However, current impacts on the OTA Impact Area from training would continue under this alternative, as would adjacent sites used to bivouac troops in tents.

#### **3.5.2.2 Alternative B: Proposed Action**

The affected areas all fall within the OTA Impact area where historic training of a similar nature has taken place. In addition, the proposed training areas are located in areas with limited native vegetation that has been heavily invaded by undesirable non-native species (Section 3.5) that provide limited habitat (forage or cover) for local wildlife species. Construction of the proposed facilities and infrastructure would directly impact approximately 61 acres (affected area) of potential habitat, resulting in a long-term loss of habitat. However, the Proposed Action has been designed to minimize the impacts to remnant native plant communities, directly affecting approximately 15 acres, 25.0 percent of the affected area or 0.3 percent of the project area or, with the greatest emphasis on sagebrush communities, approximately 2 acres, 3.3 percent of the affected area or 0.04 percent of the project area, being directly affected. These communities provide considerably better habitat for native wildlife species relative to exotic annual grass/forbs and human disturbance that makes up the majority of the affected area (46 acres or 75.0 percent).

As the area is currently used as a training/firing range and direct impacts to remnant native and sagebrush communities would be limited, it is unlikely that associated species, i.e. nesting birds, rodents, or any other sagebrush obligate species would be affected. In addition, the remnant sagebrush stands in the area are not extensive enough to attract any Idaho-listed special status species that prefer sagebrush for nesting, such as loggerhead shrike, sage sparrow, or sage grouse. The analysis area may be used incidentally by pronghorn and mule deer, but it is not large enough to provide suitable long-term habitat for either of these species. Adverse impacts to foraging wildlife, such as bats and raptors, are likely to be minimal.

Impacts to bald and golden eagles would be minimal as both species do not nest in the project area and foraging use by golden eagles varies widely by season. Bald eagles occasionally pass through the OTA (1 or 2 sightings per year) but do not forage on the OTA; therefore negative

impacts to this species would be very unlikely. Golden eagles forage mostly in and near shrublands of the OTA and their presence is highly correlated with black-tailed jackrabbits (USDI 1996). No project construction is planned for shrub areas and therefore would result in minimal impacts to golden eagles.

Prairie falcons nest on the cliffs of the Snake River Canyon and forage on the benchlands of the NCA including the OTA. They are most often observed during late winter/early spring months when ground squirrels are active (unpublished raptor survey data) and prairie falcons are feeding their nestlings. Ground squirrel densities are similar on OTA compared to non-OTA sites (USDI 1996). Ground squirrels estivate beginning in June/July which corresponds to a decrease in prairie falcon presence. With this decrease in raptor use during summer/fall months when project construction would occur, adverse impacts to prairie falcon foraging activities are likely to be minimal.

In addition, IDARNG environmental staff conducts routine surveys for the presence of eagles, prairie falcons and other birds. Site specific surveys that record bird use/presence occur prior to training exercises and construction activities. Training exercises and construction activities with the potential to adversely impact bird species are relocated or modified in following the Migratory Bird Treaty Act of 1918. All bird species found on the OTA nest during early spring and construction activities would occur after this time. Direct impacts from construction activities would likely result in temporary displacement of foraging birds. By late summer many migratory bird species would have left the OTA and would not return until the following spring. Migratory grassland bird species found in the project area show a low sensitivity to disturbance (USDI 1996) and would experience minimal negative effects.

Over the past 20 years there have been no known incidences of bird mortality as a result of a training exercise or construction activity. Prior to each training exercise, soldiers receive a mandatory environmental briefing. This briefing directs soldiers to avoid all wildlife with particular emphasis on birds of prey and migratory birds.

## **3.6 Cultural Resources**

### **3.6.1 *Affected Environment (Cultural Resources)***

Paleo-Indian evidence discovered near Celebration Park shows the presence of humans in southern Idaho for over 10,000 years. Currently, the OTA lies within the traditional territory of the Northern Shoshone, Northern Paiute, and Northern Bannock Tribes. From 1868 through 1877 hostility with non-Natives and inadequate facilities at Fort Hall made life very difficult for the Bannocks and Snake River Shoshones. Although the Bannocks and Shoshones had been guaranteed access to traditional hunting, gathering, and fishing areas, the hostility of settlers off the reservation was as great as that of those encroaching on Fort Hall.

In 1879 the Western Shoshone Agency was moved to Duck Valley but most of the people under its jurisdiction were acknowledged to be in more than a dozen communities outside the reservation. Between 1882 and 1886, about 300 people under Bruneau John, Big Jim, and Panguitch consented to locate permanently at Duck Valley. In 1884 Egan's Bannocks plus the Paddy Cap, Panguitch, and Leggins bands were released from the Yakama reservation and many moved to the Duck Valley reservation. Though many bands of the Bannock, Shoshone, and Paiute were confined to various reservations they continued to use the cultural and natural

resources of southern Idaho and the OTA. The Tribes of the Duck Valley and Fort Hall reservations still use and depend upon the cultural and natural resources that they have traditionally used for centuries.

Based on the potential presence of historic and prehistoric resources associated with the analysis area, the IDARNG Cultural Resources Manager, Jake Fruhlinger and his staff conducted reconnaissance pedestrian archaeological surveys (clearances) from March 8, 2010 through June 4, 2010. Site surveys were conducted to determine and record the presence and distribution of any historic or prehistoric resources. There are no structures eligible for listing on the National Register of Historic Places (NRHP) or otherwise located within the project area of potential effect (APE). Table 12 identifies the results and timeframe of the surveys by area.

Guidelines used to identify historic resources are outlined as follows: Cultural Resources are defined as historic properties outlined by the National Historic Preservation Act (NHPA), cultural items as defined by the Native American Graves and Repatriation Act (NAGPRA), archeological resources as defined by Archaeological Resources Protection Act (ARPA), sacred sites as defined in EO 13007 to which access is afforded under American Indian Religious Freedom Act (AIRFA), and collections and associated records as defined in 36 CFR 79.

The Idaho State Historic Preservation Office (SHPO) requires Section 106 consultation on all federal projects. As the IDARNG is not the federal land owner, BLM was required to consult on all projects within the boundaries of the OTA. The JEMO staff submitted the archeological survey reports (clearances) to BLM cultural staff on April 9, 2010. After review, BLM staff submitted the IDARNG survey reports to SHPO for review on August 10, 2010. A letter on concurrence was issued by SHPO and BLM on August 13, 2010 (Appendix C).

In addition to site clearances, the JEMO cultural staff initiated Tribal consultation, pursuant to DoD Instruction 4710.02 on May 25, 2010 (Appendix C). Follow up requests for government to government meetings were sent on June, 22 and August 3, 2010, as well as a preliminary draft of this document for Tribal comment on August 10, 2010 (Appendix C). In addition to the IDARNG's consultation process, the BLM concurrently provided information on, and solicited comments from, the Tribes relative to the Proposed Action during their monthly Wings and Roots meetings on June 25, July 15, and August 19, 2010 (Appendix C).

**Table 12. Cultural Resources Summary**

<b>Range/Site</b>	<b>Survey Date</b>	<b>Description</b>
<b>6</b>	3/24/2010	No cultural materials were found, nor were there any previously recorded sites within the proposed APE.
<b>Powerline Extension</b>	3/24/2010	A single new archaeological site was recorded, site GF-38. GF-38 is a small lithic scatter consisting of multiple material types with no diagnostic artifacts situated atop Little Joe Butte. This site, however, lies approximately 20 meters to the southeast of the proposed power line ROW.
<b>11b</b>	3/24/2010	No cultural materials were found, nor were there any previously recorded sites within the proposed APE.

Range/Site	Survey Date	Description
17	5/4/2010	No cultural materials were found, nor were there any previously recorded sites within the proposed APE. However, two sites were located within one mile of the APE: pre-historic/historic site 10AA290 and pre-historic site GF-38. GF-43 is a rock cairn of unknown origin that lies approximately .46 miles to the southwest of the APE. GF-38 is a small lithic scatter located atop Little Joe Butte and is situated approximately .52 miles SE of the APE.
18	5/5/2010 5/6/2010	A single new historic site, GF-39, was recorded. GF-39, a historic site, lies approximately 700 meters to the east of the eastern most boundary of the proposed area of construction impacts associated with this project but within the buffer area surveyed by the archaeologists. Materials associated with GF-39 include multiple tobacco, sanitary, hole-in-top cans, and glass fragments, as well as other historic material such as a stove pipe fragment and a horse shoe. Within this site a basalt rock cairn is also present that is thought to be associated with the site. Portions of historic Dorsey Road (10AA366) are also present within the survey buffer area but outside of the proposed area of Range 18 construction. 10AA366 has been heavily used as a military transport road over the past multiple decades and has therefore lost its historic integrity within these portions. The closest point of 10AA366 to proposed Range 18 is approximately 900 meters from the eastern most boundary of the proposed Range 18. Site 10AA290 (known as Snake Pit) is a lava tube shelter that lies approximately 450 meters south of the southern boundary of the proposed area of construction for Range 18. The entrance to this lava tube is normally completely filled with tumbleweeds and is inaccessible. Site GF-38 is a small lithic scatter that is situated at the top of Little Joe Butte. It consists of multiple material flakes with no diagnostic artifacts. This site lies approximately 180 meters east of the eastern most boundary of the proposed area of construction for Range 18. Five basalt rock cairns are found within the survey buffer area but outside the area of proposed range 18 construction. These are documented as sites GF-40, GF-41, GF-42, and GF-43. GF-40 lies within 30 meters of the proposed northern boundary of Range 18. GF-41, GF-42, and GF-43 are all located at least 300 meters from any portion of the proposed area of construction for Range 18.
22	5/24/2010 to 6/5/2010	No new cultural properties were noted on this particular survey. However, there are three previously known sites in the APE. There is one historic road that runs through the APE, 10AA552, also known as the historic Boise to Grandview road. This portion of the road, however, has been used for a few decades as a fire break and military transport road and therefore has been suggested as ineligible for the National Register of Historic Places. 10AA282 is a historic can and glass scatter first recorded in 1986. Survey of the area of which this site was first recorded yielded no noticeable cultural material. 10AA281 is a can and glass scatter that was first recorded in 1986. This site was recorded as having a purple glass jar which, according to the report in 1986, was collected. Careful survey of this area yielded no cultural materials.

Range/Site	Survey Date	Description
28, 29, and 29a	3/8/2010	A single new cultural site, GF-37 was recorded. GF-37 is a historic sheep herder camp scatter consisting of Prince Albert and hole-in-top cans, which roughly date this site to 1915-1925. Due to the overall poor condition of the site, it has been deemed ineligible for the NRHP, and construction would not affect GF-37. A previously recorded site, 10AA551 was also noted within the surveyed area. 10AA551 is a historic road, deemed the Snake River Road that first appeared on USGLO maps in 1895. It has been deemed potentially eligible from a previous project and report (Fire Break for the OTA, Cullum, 1997).The IDARNG Cultural Resources Manager concurs with the potential eligibility of this site. The segment of the Snake River Road within the APE is approximately .5 miles north of the two proposed areas of construction on Range 28 and would not be affected by the proposed project.

Cultural resource surveys have been conducted for all proposed sites and complete inventory reports have been submitted to the BLM and the IDSHPO. Additionally, it is IDARNG policy to have a qualified archaeologist on site during initial ground disturbing phases of proposed construction projects associated with Idaho military training lands. In the event that any cultural or prehistoric artifacts are encountered during construction activities, such activities shall cease until a full assessment can be made by the attending resource specialist. Furthermore, the IDARNG shall ensure that all military personnel that use the OTA for field training exercises would be informed of IDARNG's SOP's regarding inadvertent discovery of cultural resources, and given information on responding to inadvertent discovery situations would be incorporated into orientation materials and IDARNG regulation 350-12. Non-military units would also be instructed on responding to inadvertent discovery situations.

The IDARNG requires that in the event of the inadvertent discovery of archaeological and/or culturally sensitive resources, measures are taken promptly within 48 hours of discovery to protect them from further disturbance, assess the significance of the discovery, and implement appropriate protection and BMPs. In the event of discovery of human remains, funerary objects, sacred objects, or objects of cultural patrimony, the IDARNG shall ensure that all appropriate measures are implemented to protect the remains and/or items, all appropriate Tribes and agencies are promptly notified of the discovery, and that all applicable federal, tribal, and state procedures are followed.

### **3.6.2 Environmental Consequences (Cultural Resources)**

#### **3.6.2.1 Alternative A: No Action/Continued Current Management**

Continued wind erosion under current management practices could result in the unearthing of culturally significant remains that have not been recorded. Once out of context, such remains would have considerably less informative value. However, the probability of any direct or indirect impact to cultural remains is marginal to none.

### **3.6.2.2 Alternative B: Proposed Action**

Based on preconstruction cultural resource surveys (Appendix B), the limited area affected (61 acres), and SOP's relative to on-site monitoring, the identified construction, maintenance, and operations of the facility and Ranges would unlikely have any adverse, direct impacts on cultural resources. As the area is and would continue to be used for military training, and as such is restricted from public access, unidentified cultural resources within the training area would be protected from public disturbance. Relative to archaeological sites located on public lands administered by the BLM, sites located within the Impact Area of the OTA are posted as off limits to military personnel and access is restricted to the general public. Therefore, known and unknown sites within the Impact Area receive a higher degree of protection from both direct and indirect adverse impacts. All previously recorded sites as well as new sites resulting from the cultural resources surveys are located outside of the proposed areas of ground disturbance. This being the case, known resources would not be directly affected by the proposed project.

Unknown archaeological resources may be impacted by project construction. However, the IDARNG has an informal policy with the Idaho SHPO to have qualified personnel onsite during the initial phase of ground disturbance to monitor for the presence of buried archaeological resources. As such, potential direct impacts to unknown cultural resources would be considerably reduced or eliminated.

To further address any potential direct or indirect impacts to unknown cultural resources, the IDARNG, pursuant to DoD Instruction 4710.02, sent all local Tribes (Shoshoni-Paiute and the Shoshoni-Bannock) summaries of proposed actions (Appendix C) including a copy of the cultural resource inventory conducted by IDARNG's cultural staff (Appendix B). The purpose of the letters was to inform the tribes of the proposed project and have them identify if there were any unrecorded sites of cultural significance within or near the project area. As no comments were received from the Tribes it is assumed that the probability of encountering culturally-significant artifacts is likely lower at the proposed sites relative to a site that comments were received on. This consultation process enables us to reduce potential impacts to unrecorded cultural resources and limit the overall adverse impacts.

## **3.7 Social and Economics**

### **3.7.1 *Affected Environment (Social and Economics)***

#### **Discussed in this section:**

- Demographics
- Regional Employment and Economic Activity
- Regional Income and Expenditures
- Housing
- Schools
- Medical Facilities
- Shops and Services
- Public and Occupational Health and Safety
- Protection of Children

### **3.7.1.1 Demographics**

The over 143,000-acre OTA is located in an unpopulated area in the central portion of the western Snake River Plain and the Mountain Home Plateau. The sites of the Proposed Action are located in southeast Ada County, Idaho, west of the Elmore County line. The area that includes and surrounds the sites of the Proposed Action is within Ada County Census Tract 105.02. This section includes population statistics for the analysis area, which for socioeconomic is considered to include both Ada County and Elmore County. Socioeconomic data were analyzed for Ada County Census Tract 105.02, Ada County, Elmore County, Idaho, and the United States to make relative comparisons of project area conditions and trends.

#### **Ada County Census Tract 105.02**

This census tract, which is outside the Boise metropolitan area, is large but sparsely populated. It represents about 20 percent of the land area in Ada County, yet it contains less than 3 percent of the county's total population.

In 1990, Ada County Census Tract 105 had not been split into Tracts 105.01 and 105.02. At that time, there were 5,781 people living in Census Tract 105, and statistics were not gathered related to the urban or rural status of the population (U.S. Census Bureau, 1990). During the most recent census of these tracts in 2000, 13,339 people lived in Census Tracts 105.01 and 105.02, with 45 percent of them (2,352 people) living in rural areas. The population in these combined census tracts increased by 130.8 percent from 1990. Of the 8,728 people living in Census Tract 105.02, 3.2 percent of them (276 people) lived in rural areas (U.S. Census Bureau, 2000a).

In 2000, the median age of people living in Census Tract 105.02 was 29.6 years. Children under 18 years of age comprised 32.7 percent of the population, and those 65 years of age and older comprised 2.8 percent of the population (U.S. Census Bureau, 2000a).

#### **Ada County**

Ada County is one of the fastest growing counties in Idaho, as well as the most populous. It has the 31st largest area of Idaho's 44 counties (Idaho Commerce & Labor, 2005a). Boise is located within Ada County. It is the largest city in Idaho, the state capital, and home to some of the largest employers in the state.

Between 1990 and 2000, the population of Ada County increased from 205,775 to 300,904 people. This 46.2 percent growth rate was higher than the growth rate in the rest of the state (28.5 percent) and the nation (13.1 percent) (U.S. Census Bureau, 1990 and 2000b). It has continued to grow at a higher rate than the rest of the state and the nation (U.S. Census Bureau, 2005).

It is forecasted that Ada County would grow to over 385,000 people by 2010 (Community Planning Association of Southwest Idaho [COMPASS], 2004). This would be an increase of over 87 percent since 1990. The economic health, concentration of high-technology industrial employers, and outdoor lifestyle are major reasons for the continued growth in the region.

In 2000, the median age of people living in Ada County was 32.8 years. Children under 18 years of age comprised 27.3 percent of the population, and those 65 years of age and older comprised 9.1 percent of the population (U.S. Census Bureau, 2000b).

## **Elmore County**

Elmore County includes the cities of Mountain Home and Glenns Ferry, along with Mountain Home Air Force Base (AFB). Currently, Elmore County has the 6<sup>th</sup> largest area and the 12th highest population of the 44 Idaho counties (Idaho Commerce & Labor, 2005b).

Between 1990 and 2000, the population of Elmore County increased from 21,205 to 29,130 people. This 37.4 percent growth rate was higher than the growth rate in the rest of the state (28.5 percent) and the nation (13.1 percent) (U.S. Census Bureau, 1990 and 2000b), but not as high as the growth rate in Ada County (46.2 percent). From 2000 to 2004, the population in Elmore County declined to 28,878 people (U.S. Census Bureau, 2005).

In 2000, the median age of people living in Elmore County was 29.1 years. Children under 18 years of age comprised 28.0 percent of the population, and those 65 years of age and older comprised 7.1 percent of the population (U.S. Census Bureau, 2000c).

### **3.7.1.2 Regional Employment and Economic Activity**

#### ***3.7.1.2.1 Ada County Employment***

##### **Ada County**

The gainfully employed Ada County labor force grew from 137,969 in 1994 to 178,469 in 2004 (Idaho Commerce & Labor, 2005a). During 2004, the industries with the largest average employment in nonfarm payroll jobs in Ada County were Trade, Utilities, and Transportation (19 percent); Professional and Business Services (17 percent); and Government (15 percent). The industries with the lowest average employment included Natural Resources (less than 1 percent) and Information (2 percent) (Idaho Commerce & Labor, 2005a).

There are over 18,000 businesses in the Boise metropolitan area (Canyon and Ada Counties) (Boise Valley Economic Partnership [BVEP], 2005). There are at least 27 businesses in Ada County with at least 500 employees (Idaho Commerce & Labor, 2005c). The IDARNG, with 1,000 employees, is ranked as the 22nd largest employer in the Boise Metropolitan Statistical Area (BVEP, 2005).

##### **Elmore County**

The gainfully employed Elmore County labor force grew from 8,165 in 1994 to 10,591 in 2004 (Idaho Commerce & Labor, 2005b). During 2004, the industries with the largest average employment in nonfarm payroll jobs in Elmore County were Government (40 percent); Trade, Utilities, and Transportation (20 percent); and Leisure and Hospitality (11 percent). The industries with the lowest average employment included Natural Resources (less than 1 percent) and Information (1 percent) (Idaho Commerce & Labor, 2005b).

#### ***3.7.1.2.2 Unemployment***

##### **Ada County**

Ada County's average annual unemployment rate has consistently been lower than the unemployment rates of both Idaho and the United States. Ada County's unemployment rate increased from a 10-year low of 3.0 percent in 2000 to 4.6 percent in 2003 then back to 3.9 percent in 2004 (Idaho Commerce & Labor, 2005a).

### **Elmore County**

Until 2004, Elmore County's average annual unemployment rate had been consistently higher than the unemployment rates of both Idaho and the United States. However, in 2004, its unemployment rate of 5.5 percent was the same as that for the U.S., but still higher than the 4.7 percent average annual unemployment rate for Idaho. Elmore County's unemployment rate has decreased from a high of 6.7 percent in 2002 to a 10-year low of 5.5 percent in 2004 (Idaho Commerce & Labor, 2005b).

#### ***3.7.1.2.3 Earnings***

### **Ada County**

Ada County's highest average annual wages in 2004 from companies in the Covered Employment and Wages (CEW) program (also known as the ES-202 program) were in the Manufacturing (\$55,797), Information (\$44,492), and Mining (\$41,212) industries. In 2004, the Leisure and Hospitality industry had the lowest average annual wage (\$12,169). Overall, the average annual wage in Ada County in 2004 was \$35,731 (Idaho Commerce & Labor, 2005a).

### **Elmore County**

Elmore County's highest average annual wages in 2004 from companies in the CEW program were in the Financial Activities (\$33,171), Information (\$32,752), and Construction (\$29,760) industries. In 2004, the Leisure and Hospitality industry had the lowest average annual wage (\$9,772). Overall, the average annual wage in Elmore County in 2004 was \$22,869 (Idaho Commerce & Labor, 2005b).

#### ***3.7.1.2.4 Regional Income and Expenditures***

### **Ada County**

The population of Ada County had a combined personal income of approximately \$11.5 billion in 2003 (Idaho Commerce & Labor, 2003a). In 1997, retail sales in Ada County were approximately \$3.2 billion (FedStats, 2005a). In 2005, approximately \$1.5 million were spent on various construction contracts for the IDARNG in Ada County. The number of soldiers trained at the OTA is not expected to exceed 10,000 per training year.

### **Elmore County**

The population of Elmore County had a combined personal income of approximately \$670 million in 2003 (Idaho Commerce & Labor, 2003b). In 1997, retail sales in Elmore County were approximately \$231 million (FedStats, 2005b).

#### ***3.7.1.2.5 Housing***

### **Ada County**

In 2002, Ada County had an estimated 127,486 housing units (FedStats, 2005a). In 2003, the homeowner vacancy rate was 1.2 percent and the rental vacancy rate was 8.5 percent (U.S. Census Bureau, 2003). In 2000, approximately 70.7 percent of the housing units were owner-occupied, with a median value of \$124,700 (FedStats, 2005a).

## **Elmore County**

In 2002, Elmore County had an estimated 10,927 housing units (FedStats, 2005b). In 2000, approximately 57.4 percent of the housing units were owner-occupied, with a median value of \$93,200 (FedStats, 2005b).

### ***3.7.1.2.6 Schools***

No Ada or Elmore County schools are located on or proximate to the northeast portion of the OTA (the location of the Proposed Action), and there are no Ada County schools within miles of the Proposed Action.

### ***3.7.1.2.7 Medical Facilities***

There are ample medical facilities serving Ada and Elmore Counties. They are concentrated in the Boise Metropolitan Statistical Area and the Mountain Home and Mountain Home AFB. Emergency services are available through military and civilian agencies serving Ada and Elmore Counties.

### ***3.7.1.2.8 Public and Occupational Health and Safety***

Public and occupational health and safety consists of several elements, including:

- Police, fire, and rescue services
- Surface Danger Zones
- Unexploded ordnance
- Fire prevention and suppression
- Public safety
- Occupational health and safety
- National security

### **Police, Fire, and Rescue Services**

Police protection is provided by the Ada County Sheriff's Department. Fire and rescue service is provided by the Orchard Rural Fire Department and IDARNG Range Control. Elmore County does not provide police, fire, or rescue services to the OTA.

### **Surface Danger Zones (SDZ)**

An SDZ (Appendix A: Map 11) is that segment of the range that is endangered by a particular type of weapon firing. It extends from the firing point out into the Impact Area. At the OTA, the 53,658-acre Impact Area includes an irregular circular pattern of fourteen active firing ranges (Appendix A: Map 1). These are located along the Range Road that encompasses the Impact Area. Small arms, artillery, tank, mortar, and helicopter firing are targeted at the Impact Area. Within the Impact Area, a smaller, core Artillery Impact Area has been fenced. Personnel in designated positions in the maneuver sectors can fire high explosives (artillery and mortars) into the Artillery Impact Area (Stout and Associates 2004).

There are three general types of gunnery ranges on the OTA (Stout and Associates 2004):

- Tank and Infantry Fighting Vehicle Ranges. From these ranges, stationed tanks and infantry fighting vehicles fire at targets (stationary, moving, and pop-up).

- Specialty Weapons Ranges. In these ranges, soldiers fire pistols, rifles, machine guns, mortars, light anti-armored vehicle weapons, and grenade launchers.
- Maneuver and Firing Range (Multi-Purpose Range Complex-Heavy) at Range 1. Soldiers fire at both moving and stationary targets connected to an electronic scoring system that tracks the hits. Military personnel in a tower on Christmas Mountain control and evaluate the training scenarios. A fenced compound at the base of Christmas Mountain stores equipment and supplies for the ranges.

Military personnel use a tower structure at most ranges to view and evaluate gunnery activity. There are helicopter landing pads adjacent to each range, as well as at the MATES facility and the Snake River Training Facility (Stout and Associates 2004).

### **Unexploded Ordnance**

Various weapons and munitions are used during training activities. These may include small arms, machine guns, grenades, mortars, C4 demolitions, parachute flares, TOW missiles, and artillery” (IDARNG, undated, as cited in ANL EAD, 2004). Annually, the Impact Area is swept by IDARNG personnel, in conjunction with an expert explosive ordnance disposal team. To reduce potential adverse impacts to human health and the environment, the UXO they find is detonated in place (McHenry, 2002b, as cited in ANL EAD, 2004). To ensure the public’s safety from UXO, the entire Impact Area is off-limits to the public.

#### ***3.7.1.2.9 Fire Prevention and Suppression***

In 1987, the IDARNG first implemented a wildfire suppression program for military training activities (Stout and Associates 2004). The IDARNG’s fire management program, which is designed to monitor, prevent, and respond/suppress wildland fires, includes the following items:

- A minimum of three IDARNG personnel are trained as Class II wildland firefighters so they can participate on the range fire suppression team (INRMP 2003).
- Trained fire crews and equipment must be stationed at ranges during firing exercises to immediately respond to fires that occur from gunnery activity (IDARNG, 1997a, as cited in ANL EAD, 2004).
- IDARNG personnel must immediately tell Range Control if they observe fires anywhere within the OTA (ANL EAD, 2004).
- The Operations and Training Officer must approve and coordinate the use of pyrotechnics (ANL EAD, 2004). For example, restrictions on the use of tracers and pyrotechnics may be placed when there is high danger of fire (INRMP 2003).
- Sagebrush habitats, which are fire sensitive, cannot be used for heavy vehicle training or bivouacking. This minimizes the potential for fires (INRMP 2003).
- The importance of preventing fires is stressed in environmental awareness posters, brochures, and videos (Stout and Associates 2004).

- All range personnel have access to fire safety and prevention educational programs (INRMP 2003). Implementation of the IDARNG's fire management program at the OTA has greatly reduced the number and magnitude of fires compared to previous years (ANL EAD 2004).

#### ***3.7.1.2.10 Public Safety***

The entire Impact Area is off-limits to the general public. Signs warning of potential danger in the unfenced Impact Area have been posted at 200-meter (656-foot) intervals around the periphery. IDARNG range staff coordinates all activities and access to the Impact Area. To enter the Impact Area, an authorized escort is needed for non-IDARNG personnel (ANL EAD 2004). As an additional safety precaution for livestock and IDARNG personnel and ranchers who might have permission to enter the area, the Artillery Impact Area is fenced (Stout and Associates 2004).

During Annual Training events, signs indicating that increased military activities are taking place are posted at the main entry areas to the OTA (Stout and Associates 2004). In the spring, Range Security staff informs those in popular ground-squirrel hunting areas when military training is occurring in their vicinity (Stout and Associates 2004).

On a continuing basis, to minimize conflicts with military and private planes, IDARNG Annual Training Site personnel coordinate airspace usage over the OTA with the Federal Aviation Agency, the 183rd Aviation Battalion, Gowen Field, and Mountain Home AFB (Stout and Associates 2004). The OTA's INRMP provides for "public access to military installations, subject to safety requirements and military security.... Management options that create significant safety and/or security risks (e.g., allowing uninhibited access to impact areas) would not be considered." (Stout and Associates 2004)

#### ***3.7.1.2.11 Occupational Health and Safety***

During training activities, troops follow Occupational Safety and Health Administration (OSHA) requirements and other applicable safety regulations. Soldiers and other users must view an environmental and safety video before participating in activities on the OTA (Stout and Associates 2004). For example, "troops are warned about the presence and danger regarding badger holes during training events." (Stout and Associates 2004) Because of safety considerations, the NCA-RMP (BLM 2008b) no longer allows public shooting on large areas to the north and west of the OTA. Since then, there has been more recreational shooting on the OTA, which is a potential safety hazard to troops who train in the area (Stout and Associates 2004).

#### ***3.7.1.2.12 Protection of Children***

President Clinton issued E.O. 13045, "Protection of Children from Environmental Health Risks and Safety Risks" on April 21, 1997. This E.O. recognized that "a growing body of scientific knowledge demonstrates that children may suffer disproportionately from environmental health and safety risks." These include "risks to health or to safety that are attributable to products or substances that the child is likely to come in contact with or ingest (such as the air we breath[e], the food we eat, the water we drink or use for recreation, the soil we live on, and the products we use or are exposed to)." Therefore, to the extent permitted by law and the agency's mission, it is the responsibility of each federal agency to identify and assess such environmental health and

safety risks and to ensure that its policies, programs, activities, and standards address disproportionate risks to children that result from environmental health risks or safety risks. Schools, childcare centers, and family housing areas, with their high concentrations of children, would be sensitive areas for exposure to children. The Proposed Action is not near such sensitive areas.

### **3.7.2 Environmental Consequences (Social and Economics)**

#### **3.7.2.1 Direct and Indirect Economic Effects**

##### **3.7.2.1.1 Alternative A: No Action/Continued Current Management**

The No Action Alternative would not result in any changes to the existing socioeconomic elements (demographics; regional employment and economic activity; IDARNG salaries and local expenditures; housing; schools; medical facilities; public and occupational health and safety; and protection of children) in the analysis area.

##### **3.7.2.1.2 Alternative B: Proposed Action**

As described in the following text, the Proposed Action would have no effects on a number of socioeconomic components and minor direct and indirect effects (some beneficial and others adverse) on several components. Overall, there would be a negligible beneficial impact on the total labor force, employment, unemployment, and earnings. Training activities that used the proposed facility and ranges would have a beneficial impact on the local economy because troops on temporary training assignments would purchase meals from local merchants, rent rooms in lodging facilities, and purchase gasoline and other commodities during training activities. The resulting improvement in national security would be a long-term, direct beneficial impact of the Proposed Action.

###### **3.7.2.1.2.1 Demographics**

Construction of the proposed facility and ranges would not require the relocation of IDARNG personnel. Since the labor force of the local area should be able to provide workers for construction of the Proposed Action, it is not expected that any additional people would need to relocate to the area. In addition, operation of the facility and ranges would not affect the population of the analysis area. Therefore, under the Proposed Action, the location, distribution, density, and growth rate of the populations in Ada County and Elmore County would not be affected.

###### **3.7.2.1.2.2 Regional Employment and Economic Activity**

The economic effects of the Proposed Action would be associated with the change in the demand for goods and services in the local economy. Primary (or direct) effects would be caused by initial changes in expenditures, employment, salaries, and population directly related to the Proposed Action. Secondary effects would be induced by the process of spending and re-spending, and the relationship between what is needed to produce goods and services and the commodities that are produced.

The economic effects of the Proposed Action would be limited mostly to temporary effects associated with construction. Total construction costs have been estimated at \$ 2.4 million for all seven proposed facilities, ranges, and associated infrastructure (in FY 2010). It is assumed that

local contractors would be used for this construction. Expenditures on construction labor, materials, and supplies would result in short-term direct and indirect increases in employment and earnings within the analysis area, a beneficial impact. However, due to the nature of these construction projects, no long-term impacts to the size of the civilian labor force or earnings in Ada County and Elmore County would be anticipated. Since the combined personal income of Ada County was approximately \$11.5 billion in 2003 (Idaho Commerce & Labor, 2003a) and that of Elmore County was approximately \$670 million in 2003 (Idaho Commerce & Labor, 2003b), the beneficial impacts from short-term construction payrolls and materials purchased would not substantially affect the economy of the analysis area. The addition of construction employees associated with the Proposed Action would represent only a minimal fraction of the total regional workforce.

Businesses in the vicinity of the Proposed Action area, such as gas stations and fast-food restaurants, could benefit from additional sales to construction workers. Overall, the Proposed Action would have a negligible impact on the total labor force, employment, unemployment, or earnings.

The BLM manages the land where the proposed ranges would be developed. Arrangements to use these properties would not affect any social functions or settings near populated areas. In addition, any agreements with the BLM to use the land would not represent a noticeable impact on the region's economy.

#### **3.7.2.1.2.3 Regional Income and Expenditures**

##### **IDARNG Salaries**

Under the Proposed Action, no additional IDARNG personnel would be hired. Because no new positions would be created and because the salaries of the existing positions are not expected to change solely as a result of the Proposed Action, the Proposed Action would not have any effect on IDARNG salaries.

##### **Local Expenditures**

Local expenditures in the analysis area related to IDARNG training activities are primarily based on the temporary influx of training personnel. These currently require minimal lodging, services, and meals provided by local merchants. The IDARNG would continue a level of training similar to that it currently provides. Therefore, training use of the facility and ranges would not substantially impact the local economy, but would result in negligible short and long-term benefits.

Potential socioeconomic impacts to the analysis area are primarily based on the temporary influx of training personnel, minimally requiring lodging, services, and meals, and would not involve the relocation of individuals or families to the area. Potential impacts to local area businesses and service providers, such as restaurants, entertainment facilities, and hotels, are anticipated to be negligible, but would be beneficial in the short and long-term.

#### **3.7.2.2.2.4 Housing**

It is anticipated that all construction workers would come from the local area and there would be no need for temporary housing. Therefore, there would be no impacts to the local housing market. Since the Proposed Action does not involve relocating personnel or hiring additional people to operate the Proposed Action, there would be no impacts on housing.

#### **3.7.2.2.2.5 Schools**

Since the Proposed Action does not involve relocating personnel or hiring additional people to operate the Proposed Action, there would be no impacts on schools.

#### **3.7.2.2.2.6 Medical Facilities**

Since the Proposed Action does not involve relocating personnel or hiring additional people to operate the Proposed Action, there would be no impacts on medical facilities.

#### **3.7.2.2.2.7 Public and Occupational Health and Safety**

##### **Police, Fire, and Rescue Services**

There could be temporary short-term, construction-related impacts to local community services and facilities due to implementation of the Proposed Action. Primarily, these impacts would be associated with the potential need for emergency services. However, potential construction activity impacts to community police, fire, and rescue services are expected to be minimal.

##### **Unexploded Ordnance**

Training activities have required, and would continue to require, the use of blank as well as live ammunition. To ensure the public's safety, the Impact Area (including the fenced Core Impact Area), which might contain UXO, is off-limits to the public. Warning signs are posted around the Impact Area. Therefore, no impacts due to inadvertent exposure to UXOs are expected.

##### **Fire Prevention and Suppression**

The Proposed Action should not increase the risk of fire. The IDARNG would continue to implement its fire management program, which would handle any fires that might occur (See Section 3.5).

##### **Public Safety**

The proposed ranges would be military facilities. Safety and security would be consistent with IDARNG security procedures. Appropriate signage and barriers would alert the public of construction activities related to the Proposed Action and any traffic pattern changes.

##### **Occupational Health and Safety**

Construction of the Proposed Action would involve heavy machinery and some safety risks to those working and/or monitoring construction activities. While constructing the Proposed Action, OSHA requirements and other applicable worker safety regulations would be followed. Appropriate measures would be taken to limit unauthorized persons from accessing the area during construction. A survey for UXO and appropriate response actions might be required prior to construction.

During training activities, troops would continue to follow OSHA requirements and other applicable safety regulations. Therefore, no substantive impacts to occupational health and safety are expected due to construction and operation of the Proposed Action.

##### **National Security**

The proposed facility and ranges would provide IDARNG and other military personnel with a training facility that better simulates anticipated 21st century combat situations. A beneficial impact of the Proposed Action would be the improvement in national security resulting from this training.

#### **3.7.2.2.8 Protection of Children**

The Proposed Action is not near schools, childcare centers, family housing areas, or other sensitive areas for exposure to children. It would not have an adverse impact on children or pose health or safety risks.

### **3.8 Hazardous and Toxic Materials/Wastes**

#### **3.8.1 Affected Environment (Hazardous and Toxic Materials/ Wastes)**

On the basis of a preliminary assessment conducted by the BLM in 1993, the EPA gave the OTA a No Further Action (NFA) designation under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and Superfund Amendments and Reauthorization Act (McHenry 2002b, as cited in ANL EAD 2004). When a site is designated NFA, it implies there is either no evidence of past chemical releases or, if present, the contaminants are below concentrations that could pose unacceptable risks to human health or the environment (ANL EAD, 2004).

Risk of exposure to hazardous and toxic materials and waste (HTMW) on the OTA may result from such things as:

- Releases of shower wastewater at bivouac areas
- Accidental spills of fuels, lubricants, and related materials during vehicle operations and maintenance.
- Releases of munitions-related compounds and other chemicals during weapons training (ANL EAD 2004).

A publication of the ANL EAD (2004) provides a detailed analysis of the potential HTMW risks across the OTA area.

Generally, the existing training activities that occur near the project area are administrative, light-maneuver, and bivouac-type activities. Small lubricant releases associated with engine leaks may occur from either wheeled or track vehicles using the OTA for maneuver training, troop transport, and support, or from administrative activities. However, since military vehicles undergo regular maintenance, it is expected that such leaks would be very minor and would not pose a risk to ecological resources (ANL EAD 2004). In addition, the IDARNG implements a Spill Prevention Control and Countermeasure Plan (SPCCP) to minimize the potential for, and address accidental spills of, oil, fuel, or other hazardous substances that may occur on the OTA (Bryant Pers. comm. 2006). At the bivouac sites, the use of portable toilets minimizes HTMW exposure risks. The gray water produced from temporary shower facilities during Annual Training, which is applied to the ground, is not expected to pose HTMW risks.

### **3.8.2 Environmental Consequences (Hazardous and Toxic Materials/ Wastes)**

#### **3.8.2.1 Alternative A: No Action/Continued Current Management**

The No Action Alternative would not result in any change to the existing potential for hazardous and toxic materials effects in the analysis area.

#### **3.8.2.2 Alternative B: Proposed Action**

There are no identified hazardous materials associated with the Proposed Action, but there are identified universal waste products. Potential impacts associated with universal waste and toxic materials from construction and operation of the Proposed Action would be short-term, direct, and minor. Construction activities at the proposed sites would generate some universal waste. It is anticipated that the majority of universal waste generated during construction would be used oil from motorized equipment. Contractor would take care of disposal of universal waste.

The increased presence of heavy construction machinery in the analysis area during construction would increase the potential for an accidental spill of fuel or other contaminants. Construction crews would take safety precautions to decrease the potential for universal spills.

IDARNG personnel implement requirements outlined in IDARNG's Reg. 350-12 and PAM 200-1 to minimize and address accidental spills of oil, fuel, or other universal substances that might occur at the OTA. Low-level spills (less than 5 gallons) have occurred at the OTA, resulting from tank fuel cell expansion and fuel line overflows (McHenry 2002b, as cited in BLM 2004). Under current procedures, all spills, regardless of size, are immediately reported to the Orchard Range Control. The responsible unit works to contain the spill until personnel from Range Control or the JEMO arrive (ANL EAD, 2004). The protective measures that are implemented on the OTA, and which would be implemented for the Proposed Action, would minimize the potential for impacts from universal and toxic materials, resulting in negligible short-term impacts.

The only potentially universal wastes generated by training exercises would be spent casings, lead bullets, and lead dust. These materials could contaminate soil with heavy metals, particularly lead, through degradation and corrosion processes, although such processes would be very slow due to the low rainfall and the fact that the water table is hundreds of feet below the surface. Established range clearance procedures would be enforced in the training areas. These procedures require that all residues from munitions be collected and disposed of by the unit using the facilities. Units are required to clean up spent casings prior to leaving the site. Berms that would be constructed as part of the Proposed Action could both reduce the number of stray bullets leaving the project area and concentrate such bullets to a limited area. Standard procedures and BMPs associated with training activities would result in minor long-term impacts, similar to the current impacts under the No Action Alternative.

While transporting soldiers to the training areas, there is the potential for a petroleum spill. However, any potential spills would be handled using the protective measures described above. With the implementation of these measures, no adverse impacts would be expected from universal and toxic materials.

In summary, potential impacts associated with universal and toxic materials from construction and operation of the Proposed Action would be minor.

### 3.9 Livestock Grazing

#### 3.9.1 Affected Environment (Livestock Grazing)

The Sunnyside Spring/Fall Allotment (#00825) and Sunnyside Winter Allotment (#00826) are the only publicly administered livestock grazing lands associated with the project areas (Appendix A: Map 12 and Table 13). These grazing allotments are permitted to multiple operators and administered by the BLM (USDI 2008).

**Table 13. Permitted Use Summary for the Sunnyside Allotments.**

Allotment Name	Admin. Office	Allotment Number	Authorized AUMs <sup>1</sup>	Authorized Season of Use	Kind of Livestock
Sunnyside Spring/Fall	ID-111	00825	6,256	04/01 – 06/30 10/15 – 12/16	Cattle, Sheep
Sunnyside Winter	ID-111	00826	11,280	12/16 – 02/28	Cattle, Sheep

<sup>a</sup> Animal unit months (AUMs)

#### 3.9.2 Environmental Consequences (Livestock Grazing)

##### 3.9.2.1 Alternative A: No Action/Continued Current Management

There would be little or no direct or indirect effects (short or long term) on forage availability or overall livestock grazing operations (i.e., reductions in AUMs, exclusions, or changes in season of use).

##### 3.9.2.2 Alternative B: Proposed Action

In general, adverse and beneficial impacts to livestock grazing would be minimal. Construction activity would have short- and long-term, direct, adverse impacts on livestock by reducing forage availability on approximately 61 acres and displacing livestock during construction. However, the impacts would be localized and affect less than one percent of the allotments.

### 3.10 Cumulative Impacts

Cumulative effects are the impacts on the environment that result from the incremental impact of an action when added to other past, present, or reasonably foreseeable future actions, regardless of what agency or entity (federal or nonfederal) or person undertakes such other actions (40 CFR 1508.7). The effects of past and present actions on the environment are reflected in descriptions of existing resource conditions presented in the Affected Environment sections above.

Environmental Consequences, which describe potential effects of the Proposed Action on the existing resources, reflect potential cumulative effects of the Proposed Action, past actions, and present actions on resources. These conditions represent the overall cumulative effects of all past and present relevant actions and activities on area resources.

For the purpose of this analysis, the local geographic area of consideration for cumulative impacts includes approximately 500,000 acres of the NCA north of the Snake River. At approximately 5,300 acres, the project area is approximately one percent of the geographic area associated with the cumulative impact area. As projects associated with this EA would be implemented within roughly 38 weeks, the period of consideration would be the 8-year period of 2006 to 2014, which includes 4 years prior to the start of the project and 4 years after the project is completed. A short description of the identified projects or activities within the geographic area of consideration for cumulative impacts is found below with general analysis.

Past, current, and reasonably foreseeable future actions near the analysis area and relevant to the Proposed Action include: activities associated with anticipated future growth and development in the general Boise and Mountain Home areas; land use planning and management actions associated with the BLM's 2008 NCA-RMP and the Idaho Joint Land Use Study (JLUS); and IDARNG projects under construction or needed to meet future infrastructure needs and training requirements within the geographic area.

### **Regional Growth and Management**

Although growth and development can be expected to continue outside the OTA and the surrounding BLM land, its environmental effects, while somewhat adversely affecting natural resources within the overall eco-region, would not be expected to result in cumulative adverse effects in the analysis area when added to the effects of the Proposed Action and existing management plans (BLM and the IDARNG) associated with the protection and enhancement of natural resources, including the protection of LEPA and LEPA habitat.

Specifically, residential and commercial growth within the geographic area is and has been minimal as the majority of the private lands are still used for agriculture. However, historic growth trends in Ada and Elmore County have shown that development pressure is present and could affect future training activities and regional natural resources. Based on the potential impacts associated with regional growth the JLUS was initiated to identify and address these impacts. The intent of the JLUS is to mitigate both existing and anticipated encroachment issues through improved coordination among stakeholders in the region: the Cities of Boise, Grand View, and Mountain Home; Ada, Elmore and Owyhee Counties; Mountain Home Air Force Base (AFB), Idaho National Guard, Shoshone Paiute Tribes, federal and state agencies, and the public.

Similarly, the 2008 NCA-RPM addresses both military training and regional growth as they pertain to the natural resources and resources uses on BLM lands. Based on the identified management actions and associated goals and objectives outlined in the 2008 RMP, including but not limited to: 100,000 acres of fuels management; 148 miles of fire breaks; 130,000 acres of restoration; 4,000 acres/year of weeds treatment; and the DoD withdrawal of the Impact Area, it was identified that the overall adverse cumulative impacts associated with military training and regional growth would be minimal.

### **IDARNG Projects**

IDARNG projects within the OTA include a rail spur currently under construction at the MATES facility; construction and operation of a Live-Fire Shoot House (Shoot House); an Urban Assault Course (UAC); a Combined Arms Collective Training Facility (CACTF), and an Operational Readiness Training Complex (ORTC). IDARNG projects outside the OTA but within the geographic area include the proposed construct of a new modernized training facility to support

the ongoing mission of the units assigned to the Edgemoade Readiness Center in Mountain Home, Idaho. The proposed facility would support a Brigade Special Troops Battalion (BSTB), Engineers (EN), and a Tactical Unmanned Aerial System (TUAS), which would be used in the OTA but housed and maintained from Edgemoade.

EAs have been completed for the rail spur, all training facilities, and the TUAS, and the EA for the Edgemoade Readiness Center is currently being developed. The TUAS is operational within the Impact Area of the OTA and the rail spur, and Shoot-House has all been constructed, with the CACTF currently under construction. Construction of the TUAS facility is proposed for fiscal year 2011 and the ORTC and Edgemoade Readiness Center facility would be constructed based on funding availability; however, it is assumed that these facilities would be constructed within the analysis timeframe.

The rail spur is approximately two miles long, and approaches the MATES facility from the east/northeast. The spur line allows ARNG units from outside the state to use railroad facilities to transport their equipment directly to the MATES facility for training at the OTA reducing the amount of economic resources (fuel, maintenance, wear and tear, etc.) required to transport them from Gowen Field to the OTA, as well as reducing overall air, noise, and transportation impacts. The new training facilities are primarily found within the OTA, with the Shoot House and UAC operation within the Impact Area, the CACTF to the south of the Impact Area, and the ORTC adjacent to the Mates Facility. The Edgemoade facility would be located north of Mountain Home outside the OTA. The total affected area of these facilities is approximately 190 acres, which is approximately 0.4 percent of the geographic area, and is required to meet ARNG training requirements. There were only limited adverse impacts associated with natural resources, including special status species and cultural resources, but there were also considerable economic benefits. Overall, construction and operation of the rail spur and identified training facilities, within and outside the OTA, would not be expected to result in substantial cumulative adverse effects in the analysis area when added to the effects of the Proposed Action.

### **General Analysis**

Based on the above, the potential direct and indirect environmental, cultural, physical, and socioeconomic cumulative impacts associated with the modernization and upgrade of the OTA Facilities Development would be minor. Construction and operation of the proposed facility/ranges and associated infrastructure would not be expected to have any substantial adverse cumulative effects on any resources present in the geographic area. Long-term activities in the affected areas that would occur under the Proposed Action would be consistent with past, current, and ongoing activities. In general, adverse impacts to resources would either not occur, would be short-term and temporary, or would be mitigated. Therefore, no substantial adverse cumulative effects are expected to result from implementation of the Proposed Action.

Construction of the proposed facilities would have short-term beneficial cumulative effects on the local economy resulting from increases in employment and expenditures during the construction period. In addition, there would be a considerable cumulative benefit associated with increasing the type and availability of training within the OTA. Increased training capabilities allows for IDARNG troops to be better prepared and more capable in the field, without having to travel to other facilities, i.e. less time and resources required for travel and a greater resources available on site. The cumulative increase in the amount of time available for training is

especially important in achieving the purpose of the Proposed Action, which is to prepare for and ensure troop combat readiness for the IDARNG and other ARNG units.

### **3.11 Conclusions**

Based upon the findings of this EA, implementation of the Proposed Action would not have significant adverse or beneficial direct, indirect, or cumulative impacts on any environmental, cultural, physical, or socioeconomic resources. While implementation of the Proposed Action would affect several of these resources, all effects would be minor or negligible based on the assumptions and implementation of the BMPs identified in Section 3.0. Because the Proposed Action would not significantly impact any of these resources, no mitigation measures beyond the BMPs listed in Table 4 would be necessary or required.

The Proposed Action would not involve unique or unknown risks, and the project is not expected to establish a precedent for future actions with significant effects. Long-term activities in the affected areas under the Proposed Action would be consistent with current, ongoing activities and IDARNG does not expect an increase in either the number of personnel training in the OTA or in the density of the training population. The Proposed Action would minimally affect public health or safety, and is not anticipated to cause effects that would generate controversy. The Proposed Action would not adversely affect districts, sites, highways, structures, or objects listed in or eligible for listing in the NRHP, or cause the loss or destruction of significant scientific, cultural, or historical resources. The Proposed Action would not jeopardize any federal threatened or endangered species, or species proposed for listing as threatened and endangered under authority of the ESA. The Proposed Action would not threaten or violate federal, state, or local laws or requirements imposed for the protection of the environment.

Construction of the Proposed Action would have short-term beneficial effects on the local economy resulting from increases in employment and expenditures during the construction period. In addition, the availability of these types of training activities would reduce the time and resources required to train at other regional facilities. The increased amount of time available for training is especially important in achieving the purpose of the Proposed Action, which is to comply with requirements of the IDARNG in order to meet current Department of the Army standards and to prepare for and ensure troop combat readiness in urban areas.

The No Action Alternative would maintain existing conditions (that is, not construct or operate the proposed ranges. The environmental consequences of implementing the No Action Alternative would be identical to the consequences of maintaining the status quo (that is, no change in existing conditions). Under the No Action Alternative, facilities for providing the tactical and situational awareness training necessary for surviving and succeeding in urban battlefields would not be provided in Idaho. As a result, there would be a continuation of major training shortfalls for military units at the OTA since these units would not be able to successfully plan and execute specialized urban assault training during combat operations. Without these facilities, soldiers would not be able to perform critical tasks in support of unit operations in urban combat environments. Unlike the Proposed Action, the No Action Alternative would not meet the purpose and need of the Proposed Action.

Based upon the analysis of potential impacts, it has been determined that the Proposed Action does not constitute a major federal action affecting the environment. Because there would be no significant impact resulting from the implementation of the Proposed Action, a Finding of No

Significant Impact (FONSI) is the appropriate decision document for this EA. An Environmental Impact Statement is not required.

## CHAPTER 4.0 CONSULTATION AND COORDINATION

The land use and management plans identified in section 1.4, as well as management representatives from the IDARNG, USFWS, BLM, IDFG, IDL, and the regional Tribes were used as the primary source for consultation and coordination in producing this document. This document represents an effort to join federal and state cooperators who have the technical expertise and capability to develop and implement a plan that meets the purpose and need of the project.

This EA was prepared by the IDARNG’s JEMO in accordance with CFR Title 40, subpart 1506.5(a) and (b), is in agreement with the findings of this analysis and approved them; thereby taking responsibility for the scope and content of this document.

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## 4.2 List of Agencies, Organizations, and Individuals Consulted

Boise District BLM	Idaho Department of Fish and Game
Idaho Department of Lands	U.S. Fish and Wildlife Services
Shoshone-Paiute Tribe	Shoshone-Bannock Tribe

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