

# **Guidelines for Preparing an ITAM Five-year Plan**

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# Guidelines for Preparing an ITAM Five-year Plan

## Introduction ...

The ITAM Five-year Plan is a management process to identify installation requirements for the ITAM Program. It becomes a tool that assists the ITAM Coordinator in producing their Installation Workplan Analysis Module (IWAM) and provides the supporting justification for ITAM requirements. This learning module is intended to assist in the preparation of an ITAM Five-Year plan. National Guard Bureau installation process will differ somewhat from this process and any use by the National Guard Bureau should be made with that in mind.

Effective ITAM project planning begins with the process of identifying and listing the installation's major ITAM-related problems and/or issues. The reader may wish to review the various "standard ITAM work categories" listed in Appendix G of the ITAM Procedural Manual (enclosure 1).

During the process of identifying and listing the installation's major ITAM-related requirements or obligations, there are numerous plans and documents that the ITAM Coordinator and his or her staff will want to consult. Some of the more relevant plans and documents have mandatory requirements for the ITAM program and may include:

1. Integrated Natural Resources Management Plan (INRMP)
2. Integrated Cultural Resources Management Plan (ICRMP)
3. Endangered Species Management Plan (ESMP)
4. Army Training and Testing Area Carrying Capacity (ATTACC) data
5. Land Condition Trend Analysis (LCTA) data
6. Range Development Plan (RDP)
7. Planning Level Surveys (PLS)
8. Land Rehabilitation and Maintenance (LRAM) Project Lists
9. Installation Workplan Analysis Module (IWAM)
10. Other relevant installation- and command-specific documents.

In identifying resources to support projects, the ITAM Coordinator should consider possibilities in addition to ITAM funds and MACOM support. The ITAM Coordinator should look to both installation and "outside" sources as potential partners:

- Internal installation partners
  - DPW
  - Forestry
  - Cultural resources
  - Agricultural out-leasing program
- External partners
  - The Nature Conservancy
  - U.S. Fish and Wildlife Service
  - Not-for-profit wildlife organizations, i.e., Ducks Unlimited
  - NRCS

In addition to contracting for labor, the ITAM Coordinator may stretch ITAM project dollars by soliciting “in kind” contributions of labor and/or materials. Military construction units from both the active Army as well as the National Guard may be able to combine training activities with constructing an ITAM project. So-called “red cycle” units may be able to contribute person power and equipment to ITAM projects.

## Outline for an ITAM Five-year Plan

### Approval Memo:

The first document in the installation's ITAM Five-year Plan will be a memorandum approving the Plan, signed by either the Senior Mission Commander of the installation or his G3 or equivalent.

### Introduction:

The Introduction should include:

1. A summary description of the installation ITAM Program and the purpose of the ITAM Five-year Plan, including a description of the coordination that has taken place with appropriate installation staff (and their plans). This coordination should include, at a minimum:
  - a. The Natural Resources management staff (INRMP and ESMP)
  - b. The Cultural Resources/Archeological management staff (ICRMP)
  - c. The Range Control staff (RDP)
  - d. The Department of Public Works master planning staff.
2. A brief description of the process and timeline for updating the Plan.
3. A paragraph identifying the Plan's author(s), and those who contributed to the Plan.

### Chapter One:

Chapter One should present:

1. A description of the installation, including a copy of the installation training area map.
2. A brief summary of the installation's mission(s) (Commander's Vision Statement).
3. A listing of all units that use the training area for training.
4. A description of the types of training activities that occur.

### Chapter Two:

Chapter Two should present:

1. A detailed description of the installation's ITAM Program by component, including current staff and proposed future staff requirements. Although not a component of the program, include a description of the GIS capabilities in terms of support that can be provided to installation staff and units, and common products available to GIS users.
2. The goals and objectives for the overall ITAM Program, and the goals and objectives for each component of the ITAM Program (i.e., LCTA, TRI, LRAM, and EA).
3. A description of the guidance provided by the Senior Mission Commander or the G3 (or equivalent) concerning the ITAM program, priorities for the ITAM Program, and/or priorities for reshaping the training lands to better support training. This description should include maps that depict the plans to accomplish the above guidance.
4. A description of the cooperative agreements that the installation and the ITAM Program have with other agencies and units, such as the Natural Resources Conservation Service, the U.S. Fish and Wildlife Service, State Agencies, educational installations, as well as with other installation programs.

### **Chapter Three:**

Chapter Three will be divided into five sub-chapters. The first sub-chapter will be for Budget Year 1; the second sub-chapter for Budget Year 2; the third sub-chapter for Budget Year 3; the fourth sub-chapter for Budget Year 4; and the fifth sub-chapter for Budget Year 5. Budget year 1 is actually the current fiscal year.

Annually, the ITAM Coordinator and his or her staff members review and refine the ITAM Five-year Plan prepared for the preceding Fiscal Year. Budget Year 2 in last year's ITAM Five-year Plan has become this year's Execution Plan. Everything from the preceding year's ITAM Five-year Plan shifts forward one year.

The ITAM Coordinator and his or her staff reviews, updates, refines, and expands the information describing planned activities for Budget Year 1. They make the necessary adjustments to the information describing their plans for the next three years (Budget Years 2, 3, & 4), and then they add the details for a new Budget Year 5.

For each year, the ITAM Five-year Plan presents a description of and budget information for all ITAM project activities, in an organization and priority that parallels the IWAM budget request. In other words, the ITAM Five-year Plan describes the same list of projects that are detailed in the IWAM budget, in the same priority, and with the same budget numbers. There should be a direct correlation between each year's project descriptions and the IWAM budget submission.

For each year (sub-chapter), the ITAM Five-year Plan should begin with the following "Appendix G crosswalk":

1. A map identifying all project locations, using color-codes to identify the type of project.
2. A summary annual budget paralleling the IWAM budget for that year, showing a roll-up for that Fiscal Year by project, by component, and by work category.

For each project, the ITAM Five-year Plan should include the following information:

1. The Problem Statement developed for the project, including an explanation of the consequences of not approving and completing the project.
2. A Project Description in sufficient detail to: a) put the project in context; b) explain the project; c) describe its execution, including the sequencing and interrelationships of tasks; and d) make the budget elements understandable.
3. A brief summary of the Project Description to go in the IWAM Project Description box.
4. A brief description of anticipated outcomes/benefits and evaluation measures.
5. A priority ranking and justification for the project to facilitate management decisions based on funding from the MACOM.
6. A project budget with sufficient cost detail to complete the IWAM budget.
7. A summary of project funding sources.
8. "Before" pictures of the project site, if appropriate.
9. A detail map and/or drawing(s) illustrating and explaining the project, if appropriate. One map should show the location of the LCTA plots to be surveyed that year.
10. Resources and funding provided by other staff/agencies, etc.

Note: A simple Gantt chart can be used to illustrate the duration, sequencing, and interrelationships of the major project tasks.

In their totality, the projects included for each year should include what the installation can reasonably expect to accomplish if funded at 100 percent of their requirements. For projects that are multi-year projects, the initial project description and project budget should describe the project in its entirety. The entry for the first year that the project occurs and for subsequent year(s) should highlight the relevant project details and project costs for that year.

In subsequent years for multi-year projects, an abbreviated description can provide a page reference to the complete description in the first year of the project that includes all of the relevant “before” photographs, maps, drawings, and other illustrative material.

#### **Chapter Four:**

Chapter Four should provide a description of the installation’s LCTA program and the data collection methodology being used. If collection methodologies have changed from one year to the next, that fact should be explained. A map should show the location of all LCTA plots, by type, across the installation.

#### **Chapter Five:**

Chapter Five should provide a description of the installation’s EA program. This chapter should briefly summarize the area media resources available, and identify the major audiences that each reaches, and should identify themes to be used with the various audiences. This chapter should briefly describe the ITAM Program’s current relationship with the installation Public Affairs Office. If focus groups have been used or are contemplated, the findings or possible impacts should be described.

This chapter also should summarize current and projected EA activities, projects, and programs by year. If training aids are included in the EA project list, content, production and distribution issues should be discussed for each.

#### **Chapter Six:**

Chapter Six should provide a list of all of the equipment that the ITAM Program has, grouped by program component. Although a part of the LCTA component, list GIS equipment separately.

This chapter should identify the new or replacement equipment proposed by Fiscal Year as detailed in the projects across the five years as described in Chapter Three.

#### **Chapter Seven:**

Chapter Seven should provide a description of the ITAM Program’s installation back log requirements. These are the projects that are not included in the IWAM submission and exceed IWAM funding requirements. These are projects that have been set aside due to inadequate funding in previous years and exceed the installation’s ability to accomplish in a single year.

For each “back log” project, the ITAM Five-year Plan should include the following information:

1. A description of the project in sufficient detail to: a) explain the project; b) describe its execution; and c) make the budget elements understandable.
2. A project budget with sufficient cost detail to complete an IWAM entry.
3. A summary of possible project funding sources
4. “Before” pictures of the project site, if appropriate.
5. A detail map and/or drawing(s) illustrating and explaining the project, if appropriate.

**Chapter Eight:**

Chapter Eight should present a roll up of the total cost requirements by Fiscal Year, showing funding requirements by ITAM component.

This will be a five-year summary budget that parallels the IWAM budget, showing a roll-up for each Fiscal Year by component and for the complete five years by component.

Fiscal Year	TRI	LRAM	LCTA (including GIS)	EA	Total:
Budget Year 1	\$ -	\$ -	\$ -	\$ -	\$ -
Budget Year 2	\$ -	\$ -	\$ -	\$ -	\$ -
Budget Year 3	\$ -	\$ -	\$ -	\$ -	\$ -
Budget Year 4	\$ -	\$ -	\$ -	\$ -	\$ -
Budget Year 5	\$ -	\$ -	\$ -	\$ -	\$ -
Total:	\$ -	\$ -	\$ -	\$ -	\$ -

## ENCLOSURE 1

### APPENDIX G: STANDARD ITAM WORK CATEGORIES

Table G-1 provides a comprehensive listing of Integrated Training Area Management (ITAM) work categories. The Workplan Analysis Module (WAM) accepts data entry and reports workplan information that corresponds to the categories in the table.

Table G-1. ITAM Work Categories

ITAM Component	WorkArea	Work Category	Work Category Description	Work Sub-Category	Unit of Measure
EA	Environmental Awareness	Conduct Training	Cost of conducting installation EA training.	none	Lump Sum
EA	Environmental Awareness	Displays	Cost of producing and maintaining centralized installation EA displays	none	Each
EA	Environmental Awareness	Print Media	Cost of producing all types of printed EA products, including: soldier and leader cards; soldier and leader pamphlets; and posters.	none	Each
EA	Environmental Awareness	Signs	Cost of producing and stocking EA signs for use in training areas.	none	Each
EA	Environmental Awareness	Video/ Automated Media	Cost of producing EA videos tailored to installation needs and production of scripts for installation-produced videos. Cost of producing automated EA products (computer, CD-ROM, etc).	none	Lump Sum
LCTA	Data Collection (Non-plot)	Cameras/ Imagery Equipment	Costs of acquiring or leasing cameras and imagery equipment for use at the installation.	none	Lump Sum

Table G-1. ITAM Work Categories

ITAM Component	WorkArea	Work Category	Work Category Description	Work Sub-Category	Unit of Measure
LCTA	Data Collection (Non-plot)	Erosion Surveys	Costs of conducting surveys focusing on erosion. This does NOT include baseline or comprehensive installation-wide erosion surveys. This does apply to collection provided by an outside agency (either public or private) contracted to accomplish the above.	none	Lump Sum
LCTA	Data Collection (Non-plot)	Non-LCTA Protocol Natural Resource Management (NRM) Surveys	Costs for a variety of NRM surveys outside the parameters of the standard LCTA methodology, but needed to make TRI decisions or to assess cause/effect relationships relevant to training activities. This does NOT include baseline, comprehensive installatio	none	Lump Sum
LCTA	Geographic Information Systems	Data Layers/Maps	Costs for acquiring other imagery	none	Lump Sum
LCTA	Geographic Information Systems	External GIS Support	Installation/Regional: Costs for obtaining GIS support central system at installation level or from a regional center or source.	none	Lump Sum
LCTA	Geographic Information Systems	GIS Data Management	Costs for acquiring GIS data layers, management of GIS data	none	Lump Sum
LCTA	Geographic Information Systems	GIS Equipment	Hardware and Software costs: Costs associated with acquisition of GIS equipment, to include hardware and software.	none	Lump Sum
LCTA	Geographic Information Systems Staff	Salary	Salaries for GIS technical staff.	none	Lump Sum

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ITAM Component	WorkArea	Work Category	Work Category Description	Work Sub-Category	Unit of Measure
LCTA	Geographic Information Systems Staff	TDY and Training	Costs for GIS staff TDY and training.	none	Lump Sum
LCTA	Geographic Information Systems Staff	Supplies	Supplies for GIS system, excluding hardware and software.	none	Lump Sum
LCTA	Geographic Information Systems Staff	GIS vehicles	Cost for GIS vehicles.	none	Lump Sum
LCTA	Geographic Information Systems	ILS/CLS	Costs associated with integrated logistics support (ILS) or contracted logistics support (CLS) of GIS equipment.	none	Lump Sum
LCTA	Geographic Information Systems	Map Production/Imagery	Costs for acquisition and/or production of maps.	none	Lump Sum
LCTA	Miscellaneous	GPS Equipment	Costs associated with acquiring, leasing, and maintaining GPS equipment.	none	Lump Sum
LCTA	Miscellaneous	LCTA Carrying Capacity	Costs associated with installation-specific carrying capacity studies based on LCTA.	none	Lump Sum
LCTA	Miscellaneous	Weather Station	Costs of acquiring, leasing, operating & maintaining weather monitoring equipment.	none	Lump Sum
LCTA	Plot Management	Database Management / Analysis/ Reporting	Costs associated with maintenance and analysis of plot data. Includes costs for generation of analytical reports reflecting plot data. Includes costs associated with the purchase of data analysis software and/or contracted data analysis.	none	Lump Sum
LCTA	LCTA Coordinator	Salary	Salary for LCTA coordinator.	none	Lump Sum
LCTA	LCTA Coordinator	Supplies	Costs for LCTA supplies, not including GIS or plot management.	none	Lump Sum

Table G-1. ITAM Work Categories

ITAM Component	WorkArea	Work Category	Work Category Description	Work Sub-Category	Unit of Measure
LCTA	LCTA Coordinator	Plot Management Supplies	Cost for plot management supplies.	none	Lump Sum
LCTA	LCTA Coordinator	TDY and Training	Cost for LCTA TDY and training, not including GIS.	none	Lump Sum
LCTA	LCTA Coordinator	Coordinator Vehicle	Vehicle for LCTA, not including GIS or Field Crew.	none	Lump Sum
LCTA	LCTA Field Crew	Salaries	Salaries for field crews.	none	Lump Sum
LCTA	LCTA Field Crew	Vehicles	Field Crew vehicles.	none	Lump Sum
LCTA	Plot Management	LCTA Modification	Costs for applying installation-specific modifications to standard LCTA plot methodology.	none	Lump Sum
LCTA	Plot Management	Plot Establishment/Monitoring	Costs of monitoring; includes contracted monitoring. Costs associated with establishment of plots.	none	Lump Sum
LCTA	Plot Management	Special Use Plots	Costs for establishing special use plots.	none	Lump Sum
LRAM	Area Protection/Restriction	Archaeological Site Capping	Costs of construction of protective structures, to include capping with soil, to protect archaeological sites.	none	Each
LRAM	Area Protection/Restriction	Fencing	Costs of fencing to prevent public intrusion and/or to prevent military intrusion into environmentally sensitive areas. Includes cost of marking systems and materials such as "Seibert Stakes". Does not include general fencing of TES habitat.	Blocking trails/fords	Foot

Table G-1. ITAM Work Categories

ITAM Component	WorkArea	Work Category	Work Category Description	Work Sub-Category	Unit of Measure
LRAM	Fire Presuppression	Construction and maintenance of fire breaks	Construction and maintenance of fire/fuel breaks, or other fuels modifications, directly associated with ranges/training areas for fire management resulting from training/testing activities. Does NOT include conservation or structural fire/fuels breaks,	none	Mile
LRAM	Program Wide Resources	Work Crews	Central items for annual use. This category is for planning only. Execution must be shown against actual projects. Work crew salaries not included in specific workplan projects.	none	Lump Sum
LRAM	Program Wide Resources	Vehicles	Central items for annual use. This category is for planning only. Execution must be shown against actual projects. Leased or purchased vehicles for LRAM fieldwork not included in specific workplan projects.	Purchase/ Lease Costs	Lump Sum
LRAM	Program Wide Resources	Vehicles	Central items for annual use. This category is for planning only. Execution must be shown against actual projects. Leased or purchased vehicles for LRAM fieldwork not included in specific workplan projects.	Maintenance Costs	Lump Sum

Table G-1. ITAM Work Categories

ITAM Component	WorkArea	Work Category	Work Category Description	Work Sub-Category	Unit of Measure
LRAM	Program Wide Resources	Equipment	Central items for annual use. This category is for planning only. Execution must be shown against actual projects. Leased or purchased non-vehicle equipment for LRAM field work not included in specific workplan projects.	Purchase/ Lease Costs	Lump Sum
LRAM	Program Wide Resources	Material	Central items for annual use. This category is for planning only. Execution must be shown against actual projects. Material for LRAM fieldwork not included in specific workplan projects. Includes costs for umbrella material contracts or in-house.	Stone and gravel	Ton
LRAM	Program Wide Resources	Material	Central items for annual use. This category is for planning only. Execution must be shown against actual projects. Material for LRAM fieldwork not included in specific workplan projects. Includes costs for umbrella material contracts or in-house.	Plant material	Lbs
LRAM	Program Wide Resources	Material	Central items for annual use. This category is for planning only. Execution must be shown against actual projects. Material for LRAM fieldwork not included in specific workplan projects. Includes costs for umbrella material contracts or in-house.	Mulch	Lbs

Table G-1. ITAM Work Categories

ITAM Component	WorkArea	Work Category	Work Category Description	Work Sub-Category	Unit of Measure
LRAM	Program Wide Resources	Material	Central items for annual use. This category is for planning only. Execution must be shown against actual projects. Material for LRAM fieldwork not included in specific workplan projects. Includes costs for umbrella material contracts or in-house.	Straw	Lbs
LRAM	Program Wide Resources	Material	Central items for annual use. This category is for planning only. Execution must be shown against actual projects. Material for LRAM fieldwork not included in specific workplan projects. Includes costs for umbrella material contracts or in-house.	Fabric/ Netting	Sq Yds
LRAM	Program Wide Resources	Material	Central items for annual use. This category is for planning only. Execution must be shown against actual projects. Material for LRAM fieldwork not included in specific workplan projects. Includes costs for umbrella material contracts or in-house.	Seed	Lbs
LRAM	Program Wide Resources	Material	Central items for annual use. This category is for planning only. Execution must be shown against actual projects. Material for LRAM fieldwork not included in specific workplan projects. Includes costs for umbrella material contracts or in-house.	Seed Collection	Lbs

Table G-1. ITAM Work Categories

ITAM Component	WorkArea	Work Category	Work Category Description	Work Sub-Category	Unit of Measure
LRAM	Program Wide Resources	Material	Central items for annual use. This category is for planning only. Execution must be shown against actual projects. Material for LRAM fieldwork not included in specific workplan projects. Includes costs for umbrella material contracts or in-house.	Fencing	Foot
LRAM	Program Wide Resources	Material	Central items for annual use. This category is for planning only. Execution must be shown against actual projects. Material for LRAM fieldwork not included in specific workplan projects. Includes costs for umbrella material contracts or in-house.	Seibert Stakes	Each
LRAM	Project Design	Planning	Costs of designing and performing an LRAM Study.	Study	Lump Sum
LRAM	Project Design	Planning	Costs of designing Watershed Erosion Project.	Watershed Erosion Project	Lump Sum
LRAM	Project Design	Specified/ Unspecified Project Design; Comprehensive Plans	Costs of performing design of specific LRAM projects. Costs of maintaining a standing LRAM design capability. Costs of developing comprehensive installation-wide LRAM plans.	none	Lump Sum

Table G-1. ITAM Work Categories

ITAM Component	WorkArea	Work Category	Work Category Description	Work Sub-Category	Unit of Measure
LRAM	Manuever Area Trail Maintenance	Manuever Area Trail Maintenance	Costs of constructing and maintaining maneuver area trails. Such trails will NOT be for public or administrative use. Includes costs of reducing a degraded maneuver trail (e.g., expanded width due to vehicles bypassing) to original configuration/dimension.	None	Mile
LRAM	Tactical Vehicle Road Crossing Maintenance	Tactical Vehicle Crossings	Costs of constructing and maintaining hardened hardened crossing sites on installation roads for use by tracked and tactical vehicles.	None	Each
LRAM	Soil Protection	Erosion Control Structures	Costs of construction and maintenance of specific erosion control structures needed to repair damage caused by training/testing.	Sediment basins (Erosion Control/Sed Ret Stru)	Each
LRAM	Soil Protection	Soil Rehabilitation	Repair of major eroded areas resulting from training or causing restrictions to training.	Critical Area Treatment	Acre
LRAM	Soil Protection	Soil Rehabilitation	Repair of major eroded areas resulting from training or causing restrictions to training.	Grass Sods	SY
LRAM	Soil Protection	Soil Rehabilitation	Repair of major eroded areas resulting from training or causing restrictions to training.	Aerial Seeding	Acre
LRAM	Soil Protection	Soil Rehabilitation	Repair of major eroded areas resulting from training or causing restrictions to training.	Grass Stolons, Rhizomes	SY
LRAM	Soil Protection	Soil Rehabilitation	Repair of major eroded areas resulting from training or causing restrictions to training.	Topsoiling	CY

Table G-1. ITAM Work Categories

ITAM Component	WorkArea	Work Category	Work Category Description	Work Sub-Category	Unit of Measure
LRAM	Specialized Training Facilities	Aircraft Hover Points; Landing Zones/Pads	Costs of creating and maintaining hardened sites that preclude excessive wind erosion related to helicopter flight operations.	none	SY
LRAM	Specialized Training Facilities	POL Contaminant Structure; POL Training Site	Creation of structures to capture inadvertent petroleum, oil and lubricant (POL) spills at locations where there is specialized or concentrated POL related training.	none	Each
LRAM	LRAM Coordinator	Salary	Salaries for the installation LRAM coordinator.	none	Lump Sum
LRAM	LRAM Coordinator	Office Supplies	Costs for office supplies.	none	Lump Sum
LRAM	LRAM Coordinator	TDY and Training	Cost for LRAM TDY and training	none	Lump Sum
LRAM	LRAM Coordinator	Coordinator Vehicle	Vehicle for LRAM coordinator, not including Field Crew.	none	Lump Sum
LRAM	Support Structure/Miscellaneous	Inter-Agency Support	Costs of executing inter-agency support agreements with local, state and federal agencies which have a direct bearing on training land management. These agreements cannot have a compliance provision, nor can they be associated with a compliance requirement.	none	Lump Sum
LRAM	Support Structure/Miscellaneous	Plant Holding Facility/Seed Collection	Costs of creating a seed repository for reseeding appropriate to installation or for maintaining a plant facility for revegetation appropriate to installation.	none	Each

Table G-1. ITAM Work Categories

ITAM Component	WorkArea	Work Category	Work Category Description	Work Sub-Category	Unit of Measure
LRAM	Training Area Closure	Training Area Discontinuation/ Rehabilitation	Costs of closing a training parcel and performing significant long-term rehabilitation without expectation of returning the parcel to training use.	Blocking trails/fords	Each
LRAM	Training Area/Range Development	Hard Stands	Costs of constructing hard stands or hardened sites in the maneuver area.	Heavy use area: Bivouac	Acre
LRAM	Training Area/Range Development	Hard Stands	Costs of constructing hard stands or hardened sites in the maneuver area.	Heavy use area: Firing Points	Acre
LRAM	Training Area/Range Development	Hard Stands	Costs of constructing hard stands or hardened sites in the maneuver area.	Heavy use area: Staging	Acre
LRAM	Training Area/Range Development	Hard Stands	Costs of constructing hard stands or hardened sites in the maneuver area.	Heavy use area: Travel Lanes	Foot
LRAM	Training Area/Range Development	Land/Soil Stabilization; General Maneuver Damage Repair; Hardstand	Costs of seeding, other small scale soil stabilization projects. Costs of general maneuver damage repair.	Aerial Seeding	Acre
LRAM	Training Area/Range Development	Land/Soil Stabilization; General Maneuver Damage Repair; Hardstand	Costs of seeding, other small scale soil stabilization projects. Costs of general maneuver damage repair.	Band Fertilizer	Acre
LRAM	Training Area/Range Development	Land/Soil Stabilization; General Maneuver Damage Repair; Hardstand	Costs of seeding, other small scale soil stabilization projects. Costs of general maneuver damage repair.	Broadcast Fertilizer	Acre

Table G-1. ITAM Work Categories

ITAM Component	WorkArea	Work Category	Work Category Description	Work Sub-Category	Unit of Measure
LRAM	Training Area/Range Development	Land/Soil Stabilization; General Maneuver Damage Repair; Hardstand	Costs of seeding, other small scale soil stabilization projects. Costs of general maneuver damage repair.	Broadcast Seeding	Acre
LRAM	Training Area/Range Development	Land/Soil Stabilization; General Maneuver Damage Repair; Hardstand	Costs of seeding, other small scale soil stabilization projects. Costs of general maneuver damage repair.	Chiseling	Acre
LRAM	Training Area/Range Development	Land/Soil Stabilization; General Maneuver Damage Repair; Hardstand	Costs of seeding, other small scale soil stabilization projects. Costs of general maneuver damage repair.	Diversion Ditches	Foot
LRAM	Training Area/Range Development	Land/Soil Stabilization; General Maneuver Damage Repair; Hardstand	Costs of seeding, other small scale soil stabilization projects. Costs of general maneuver damage repair.	Diversion terraces	Foot
LRAM	Training Area/Range Development	Land/Soil Stabilization; General Maneuver Damage Repair; Hardstand	Costs of seeding, other small scale soil stabilization projects. Costs of general maneuver damage repair.	Drill Seeding	Acre
LRAM	Training Area/Range Development	Dust Control	Dust control for training/testing related activities.	Maneuver Area Dust Control	Acre
LRAM	Training Area/Range Development	Dust Control	Dust control for training/testing related activities.	Maneuver Trail Dust Control	Mile

Table G-1. ITAM Work Categories

ITAM Component	WorkArea	Work Category	Work Category Description	Work Sub-Category	Unit of Measure
LRAM	Training Area/Range Development	Land/Soil Stabilization; General Maneuver Damage Repair; Hardstand	Costs of seeding, other small scale soil stabilization projects. Costs of general maneuver damage repair.	Fabrics & Netting	SY
LRAM	Training Area/Range Development	Land/Soil Stabilization; General Maneuver Damage Repair; Hardstand	Costs of seeding, other small scale soil stabilization projects. Costs of general maneuver damage repair.	Filter Stripping	SY
LRAM	Training Area/Range Development	Land/Soil Stabilization; General Maneuver Damage Repair; Hardstand	Costs of seeding, other small scale soil stabilization projects. Costs of general maneuver damage repair.	Grading & Shaping	Acres
LRAM	Training Area/Range Development	Land/Soil Stabilization; General Maneuver Damage Repair; Hardstand	Costs of seeding, other small scale soil stabilization projects. Costs of general maneuver damage repair.	Grassed Waterways	SY
LRAM	Training Area/Range Development	Land/Soil Stabilization; General Maneuver Damage Repair; Hardstand	Costs of seeding, other small scale soil stabilization projects. Costs of general maneuver damage repair.	Gravel/Rock/Mulch	Ton
LRAM	Training Area/Range Development	Land/Soil Stabilization; General Maneuver Damage Repair; Hardstand	Costs of seeding, other small scale soil stabilization projects. Costs of general maneuver damage repair.	Hydroseeding	Acre

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ITAM Component	WorkArea	Work Category	Work Category Description	Work Sub-Category	Unit of Measure
LRAM	Training Area/Range Development	Land/Soil Stabilization; General Maneuver Damage Repair; Hardstand	Costs of seeding, other small scale soil stabilization projects. Costs of general maneuver damage repair.	Limestone & Gypsum	Ton
LRAM	Training Area/Range Development	Land/Soil Stabilization; General Maneuver Damage Repair; Hardstand	Costs of seeding, other small scale soil stabilization projects. Costs of general maneuver damage repair.	Moldboard Plowing	Acre
LRAM	Training Area/Range Development	Land/Soil Stabilization; General Maneuver Damage Repair; Hardstand	Costs of seeding, other small scale soil stabilization projects. Costs of general maneuver damage repair.	Non-Traditional Material	Lump Sum
LRAM	Training Area/Range Development	Land/Soil Stabilization; General Maneuver Damage Repair; Hardstand	Costs of seeding, other small scale soil stabilization projects. Costs of general maneuver damage repair.	Offset Disking	Acre
LRAM	Training Area/Range Development	Land/Soil Stabilization; General Maneuver Damage Repair; Hardstand	Costs of seeding, other small scale soil stabilization projects. Costs of general maneuver damage repair.	Riprap	Ton
LRAM	Training Area/Range Development	Land/Soil Stabilization; General Maneuver Damage Repair; Hardstand	Costs of seeding, other small scale soil stabilization projects. Costs of general maneuver damage repair.	Straw Mulch: Crimped	Acres

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LRAM	Training Area/Range Development	Land/Soil Stabilization; General Maneuver Damage Repair; Hardstand	Costs of seeding, other small scale soil stabilization projects. Costs of general maneuver damage repair.	Straw Mulch: Disked	Acres
LRAM	Training Area/Range Development	Land/Soil Stabilization; General Maneuver Damage Repair; Hardstand	Costs of seeding, other small scale soil stabilization projects. Costs of general maneuver damage repair.	Subsoiling	Acre
LRAM	Training Area/Range Development	Land/Soil Stabilization; General Maneuver Damage Repair; Hardstand	Costs of seeding, other small scale soil stabilization projects. Costs of general maneuver damage repair.	Tandem Disking	Acre
LRAM	Training Area/Range Development	Land/Soil Stabilization; General Maneuver Damage Repair; Hardstand	Costs of seeding, other small scale soil stabilization projects. Costs of general maneuver damage repair.	Terracing	Acre
LRAM	Training Area/Range Development	Land/Soil Stabilization; General Maneuver Damage Repair; Hardstand	Costs of seeding, other small scale soil stabilization projects. Costs of general maneuver damage repair.	Trenching	Foot
LRAM	Training Area/Range Development	Maneuver Corridor/ Area Development; Vegetation Clearing; other Clearing	Costs of reducing maneuver/training inhibiting vegetation. Costs of creating maneuver corridors in high vegetation areas. Costs of clearing other natural or manmade material to open land to maneuver & training.	Brush Plowing	Acre

Table G-1. ITAM Work Categories

ITAM Component	WorkArea	Work Category	Work Category Description	Work Sub-Category	Unit of Measure
LRAM	Training Area/Range Development	Maneuver Corridor/ Area Development; Vegetation Clearing; other Clearing	Costs of reducing maneuver/training inhibiting vegetation. Costs of creating maneuver corridors in high vegetation areas. Costs of clearing other natural or manmade material to open land to maneuver & training.	Bulldozing	Acre
LRAM	Training Area/Range Development	Maneuver Corridor/ Area Development; Vegetation Clearing; other Clearing	Costs of reducing maneuver/training inhibiting vegetation. Costs of creating maneuver corridors in high vegetation areas. Costs of clearing other natural or manmade material to open land to maneuver & training.	Chaining	Acre
LRAM	Training Area/Range Development	Maneuver Corridor/ Area Development; Vegetation Clearing; other Clearing	Costs of reducing maneuver/training inhibiting vegetation. Costs of creating maneuver corridors in high vegetation areas. Costs of clearing other natural or manmade material to open land to maneuver & training.	Furrowing/ Shredding	Acre
LRAM	Training Area/Range Development	Maneuver Corridor/ Area Development; Vegetation Clearing; other Clearing	Costs of reducing maneuver/training inhibiting vegetation. Costs of creating maneuver corridors in high vegetation areas. Costs of clearing other natural or manmade material to open land to maneuver & training.	Herbicide - Foliar Aerially Applied	Acre

Table G-1. ITAM Work Categories

ITAM Component	WorkArea	Work Category	Work Category Description	Work Sub-Category	Unit of Measure
LRAM	Training Area/Range Development	Maneuver Corridor/ Area Development; Vegetation Clearing; other Clearing	Costs of reducing maneuver/training inhibiting vegetation. Costs of creating maneuver corridors in high vegetation areas. Costs of clearing other natural or manmade material to open land to maneuver & training.	Herbicide - Foliar Ground Applied	Acre
LRAM	Training Area/Range Development	Maneuver Corridor/ Area Development; Vegetation Clearing; other Clearing	Costs of reducing maneuver/training inhibiting vegetation. Costs of creating maneuver corridors in high vegetation areas. Costs of clearing other natural or manmade material to open land to maneuver & training.	Herbicide - Soil Active Aerially Applied	Acre
LRAM	Training Area/Range Development	Maneuver Corridor/ Area Development; Vegetation Clearing; other Clearing	Costs of reducing maneuver/training inhibiting vegetation. Costs of creating maneuver corridors in high vegetation areas. Costs of clearing other natural or manmade material to open land to maneuver & training.	Herbicide - Soil Active Ground Applied	Acre
LRAM	Training Area/Range Development	Maneuver Corridor/ Area Development; Vegetation Clearing; other Clearing	Costs of reducing maneuver/training inhibiting vegetation. Costs of creating maneuver corridors in high vegetation areas. Costs of clearing other natural or manmade material to open land to maneuver & training.	Root Plowing	Acre

Table G-1. ITAM Work Categories

ITAM Component	WorkArea	Work Category	Work Category Description	Work Sub-Category	Unit of Measure
LRAM	Training Area/Range Development	Maneuver Corridor/ Area Development; Vegetation Clearing; other Clearing	Costs of reducing maneuver/training inhibiting vegetation. Costs of creating maneuver corridors in high vegetation areas. Costs of clearing other natural or manmade material to open land to maneuver & training.	Shredding	Acre
LRAM	Tactical Concealment Area	Concealment Island	Costs of constructing hard stands or hardened sites in the maneuver area.	none	Each
LRAM	Training Area/Range Development	Reconfiguration	Costs of constructing hard stands or hardened sites in the maneuver area.	Trees & Shrubs	Plant
LRAM	Training Area/Range Development	Rehabilitation of other Use Areas into Training Areas; UXO Clearing	Costs associated with converting land used for non-training or non-maneuver purposes to maneuver area. This can include some clearance of unexploded ordnance to create additional maneuver area.	none	Acre
LRAM	Training Area/Range Development	Road Closure/ Rehabilitation to Training Area	Costs of closing range roads or range road segments and returning the land to natural condition to permit maneuver and training.	Rest Eroded areas	Mile
LRAM	Water Projects	Shoreline Repair	Costs of building and maintaining hardened sites on stream banks or shoreline where bridging training habitually occurs. Hardening of shoreline for habitual amphibious training.	Heavy use area	SY
LRAM	Water Projects	Check Dams	Costs of building and maintaining sedimentation control structures. Costs of sedimentation sampling.	Retaining Structures	Each

Table G-1. ITAM Work Categories

ITAM Component	WorkArea	Work Category	Work Category Description	Work Sub-Category	Unit of Measure
LRAM	Water Projects	Check Dams	Costs of building and maintaining sedimentation control structures. Costs of sedimentation sampling.	Sediment Barriers: sediment fence	Foot
LRAM	Water Projects	Check Dams	Costs of building and maintaining sedimentation control structures. Costs of sedimentation sampling.	Sediment basins (Erosion Control/ Sediment Retention Structure)	Each
LRAM	Water Projects	Check Dams	Costs of building and maintaining sedimentation control structures. Costs of sedimentation sampling.	Gabions	CY
LRAM	Water Projects	Check Dams	Costs of building and maintaining sedimentation control structures. Costs of sedimentation sampling.	Sediment Traps	Each
LRAM	Water Projects	Stream Crossing Structure	Costs of building and maintaining stream crossing sites for vehicles to prevent erosion and sedimentation.	Stream Crossings	Each
TRI	ADP & Systems	ADP Equipment Hardware/ Software	Acquisition and support of ADP equipment needed for range operation functions related to ITAM.	none	Lump Sum
TRI	ADP & Systems	Data Link (LAN) - DPTM/NRM	Costs associated with establishing and maintaining a data link between the DPTM (Range operations) and Environmental (Natural Resource Management) offices. Provide rationale for this not being an installation / DOIM cost.	none	Lump Sum

Table G-1. ITAM Work Categories

ITAM Component	WorkArea	Work Category	Work Category Description	Work Sub-Category	Unit of Measure
TRI	ADP & Systems	RFMSS Training & CLS/ILS	Costs of training installation ITAM personnel on the use of RFMSS. Costs of RFMSS Integrated Logistics Support and/or Contracted Logistics Support.	none	Lump Sum
TRI	ITAM Coordinator	Salary	Salary for installation ITAM coordinator.	none	Lump Sum
TRI	ITAM Coordinator	TDY and Training	Cost for ITAM coordinator TDY and training.	none	Lump Sum
TRI	ITAM Coordinator	Coordinator Vehicle	Vehicle for ITAM coordinator.	none	Lump Sum
TRI	Management	Management Operations: Facilities	Costs associated with upgrades to facilities to support ITAM staff and technical functions (all ITAM components).	none	Lump Sum
TRI	Management	Management Operations: Supplies	Office supplies. Miscellaneous supplies to support the ITAM function. Does not include specific LCTA, GIS, EA, or LRAM items.	none	Lump Sum
TRI	Miscellaneous	Equipment: Video/Other Cameras	Costs for acquisition and/or leases of non-vehicular equipment. Note: there remains a duplication for cameras w/requirements specified under LCTA. Assume that cameras listed under TRI are standard (35mm, etc) vs. higher technology equipment.	none	Lump Sum
EA, TRI, LRAM, and LCTA	User defined	User defined	Miscellaneous user defined items. Keep to a minimum. Recurring items will be added to standard categories.	none	As Necessary