TC 25-1

Training Land

JULY 2020

This publication supersedes TC 25-1, dated 5 December 2016**.**

Headquarters Department of the Army

TC 25-1

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Preface

Army Capability Manager Ranges (ACM Ranges) is the Headquarters Department of the Army Deputy Chief of Staff G3/7 Sustainable Range Program's (SRP) agent. This Training Circular (TC) provides the training land requirements for operational and institutional unit missions and tasks. It provides the calculation methods to determine installation land requirements as well as terminology and process to evaluate land usability.

The principal audience for TC 25-1 includes all members of the Sustainable Range Program as well as commanders and staff at both installation and major command levels. Trainers and educators throughout the Army will use this manual. TC 25-1 applies to the Active Army, Army National Guard, and United States Army Reserve unless otherwise stated.

Users of this TC are encouraged to submit comments and suggested changes by using the electronic version of DA Form 2028, (Recommended Changes to Publications and Blank Forms). Recommended changes should be submitted - directly to Commander, U.S. Army Training Support Center, Live Training Directorate, ATTN: ATIC-LTR, Fort Eustis, Virginia 23604-5166.

Chapter 1

Maneuver Training Areas Support Army Task Training

SECTION I – INTRODUCTION & PURPOSE OF THIS TRAINING CIRCULAR

1-1. The Army trains Soldiers and units worldwide on a variety of tasks conducted under various conditions. The Army's Combined Arms Training Strategies (CATS) provides commanders, leaders, trainers, staffs, and Soldiers with a unit training strategy that assist them in developing training plans to build or sustain unit-training readiness throughout the sustainable readiness process. CATS are developed based on a thorough review of mission, doctrine, and organization. Along with providing these training tasks, the Army proponents determine training support requirements that include live fire ranges, maneuver land, and training environment to ensure commanders can conduct the tasks effectively. TC 25-8, *Training Ranges*, specifies the doctrinal standards for live fire ranges. The purpose of Army Training Circular 25-1, is to specify the process of defining the Army's doctrinal standards for maneuver training land area that supports all tasks developed by TRADOC and USASOC proponents. TC 25-1 provides guidelines for the landscape required, to include the sustainment thereof, to conduct effective maneuver training in various kinds of terrain as well as provides data for the Army Range Requirements Model (ARRM). (See Figure 1-1 on page 1-2.)

1-2. Documents used to develop training land requirements include:

- Army Doctrine Publication (ADP 7-0), *Training*
- The Sustainable Range Program AR 350-19
- The Army's Training Land Strategy (ATLS)
- Combined Arms Training Strategies (CATS)
- Institutional training land requirements as defined by approved Programs of Instruction (POI)
- Operational training land requirements as defined by respective proponent

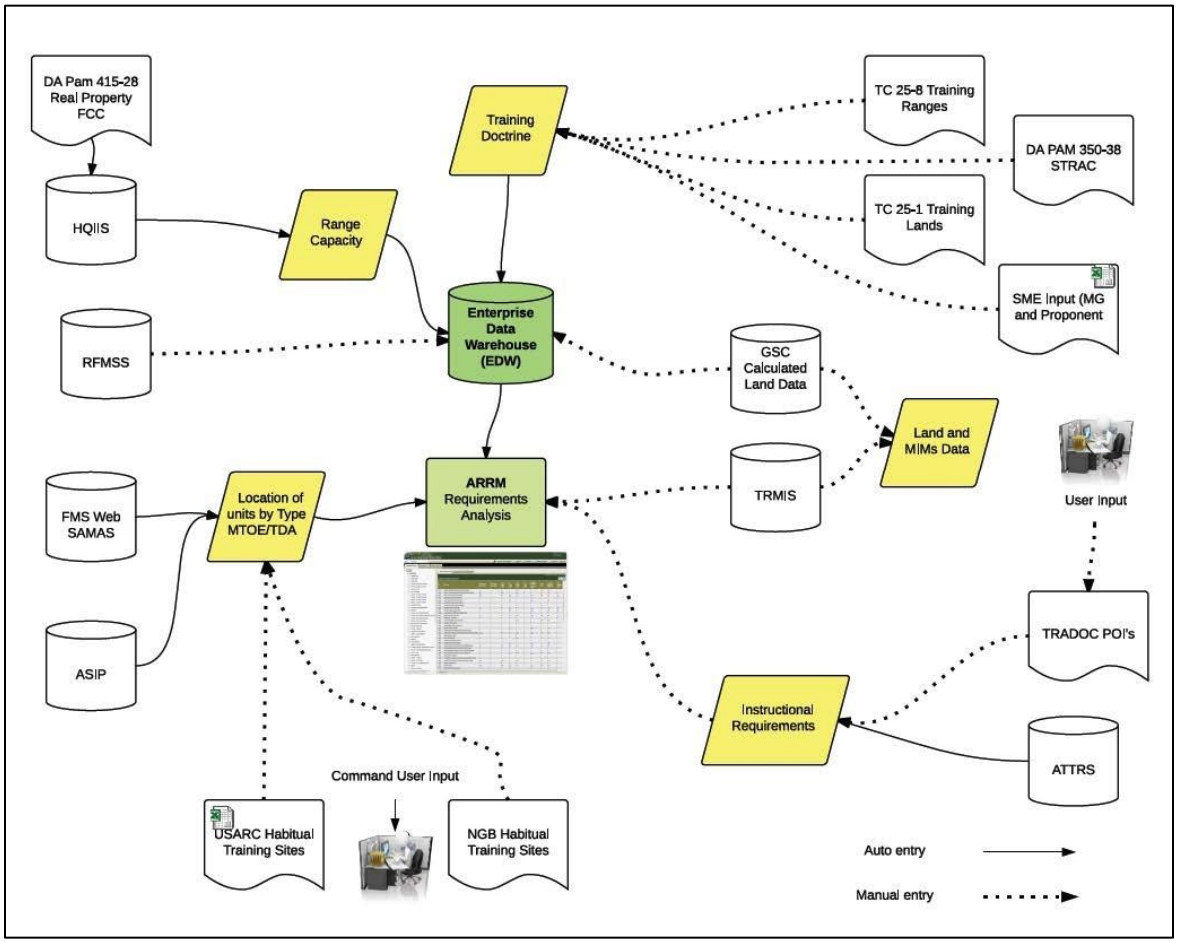

Figure 1-1. Army Range Requirements Model's Multiple Inputs

SECTION II – ARMY TRAINING LAND STRATEGY

1-3. The Army Training Land Strategy (ATLS) provides the vision and guidance for the management of ranges and training land. This strategy combines current training land management practices with those needed to support the vision of future Army training. The ATLS supports the Army Training Strategy by providing the infrastructure capability required to support live training for the Soldier.

1-4. Live training remains the cornerstone of Army doctrine. To ensure the Army can continue to train as it will fight, training must reflect the operational warfighting environment. To meet validated requirements the Army must establish best management practices for range operations and optimize available resources for range and training land priorities with the goal of maximizing the Capability, Availability, and Accessibility of ranges and training land.

- **Capability**. The configuration and characteristics of ranges and training lands as a platform necessary to support live training requirements.
- **Availability**. The necessary infrastructure to support range and training land capabilities within the boundaries of scheduling and training time requirements.

- **Accessibility**. The conditions required to conduct live training for Soldiers and units when and where required on ranges and training land.

SECTION III – SUSTAINABLE RANGE PROGRAM, MANAGING, SUSTAINING, AND MAINTAINING TRAINING LANDS

1-5. The Sustainable Range Program (SRP) is the Army's overall approach to improving the design, management, usage, and long-term sustainability of ranges. The goal of the SRP is to maximize the capability, availability, and accessibility of ranges and training lands to support doctrinally based operational and institutional training requirements, mobilization, and deployments. It has two core programs, the Range Program and the Integrated Training Area Management (ITAM) Program. The Range Program includes range modernization, range development, and range operations. The ITAM Program maintains the live maneuver training environment to improve training efficiency, Soldier and unit readiness, and survivability by sustaining realistic training lands through integration of land use requirements with land capability. For additional information, reference AR 350-19.

1-6. The ITAM Program sustains the Army's live training land capability by:

- Repairing maneuver damage.
- Reconfiguring land to enable new maneuver training capabilities to meet the Commanders' intents.
- Creating and maintaining a resilient training land base to keep pace with the Army's modernization efforts.

1-7. As a training enabler, ITAM is responsible for maintaining the three primary types of maneuver training land (Light Forces; CATCD 17710, Heavy Forces; CATCD 17720, and Amphibious Forces; CATCD 17711) and associated features. (See Section 3-2 and Section 3-3).

1-8. The components of the ITAM Program are:

- Training Requirement Integration (TRI)
- Land Rehabilitation and Maintenance (LRAM)
- Range and Training Land Assessment (RTLA)
- Sustainable Range Awareness (SRA)
- SRP Geographic Information Systems (GIS) Program

1-9. Training Requirements Integration

- The TRI component integrates training mission requirements with non-training mission (e.g. environmental) planning.
- The installation ITAM coordinator, or equivalent, will consult with the Range Management Authority (or equivalent official), other range organization personnel, trainers, environmental technical staff, natural and cultural resources managers, and other environmental staff members to integrate—
  - Training requirements.
  - Land management, training management, and natural and cultural resources management data.

  - Data derived from the Range and Training Land Assessment and Army conservation program components.
- Ensure efficient and successful land management strategies are being developed and meet regulatory requirements (e.g., Sikes Act, National Environmental Policy Act (NEPA), Clean Water Act, Endangered Species Act, etc.). Training mission projects (i.e., ITAM, Range Modernization, Range Operations, Range Development) will be integrated into and regularly coordinated with applicable installation plans including, but not limited to:
  - Integrated Natural Resources Management Plan (INRMP)
  - Integrated Cultural Resources Management Plan (ICRMP)
  - Integrated Wildland Fire Management Plan (IWFMP)
  - Forest Management Plan
  - Wildlife Management Plan
  - Integrated Pest Management Plan (IPMP)
  - Agriculture Conservation Plan (for agricultural lease areas)
  - Installation Real Property Master Plan (RPMP)
- TRI supports range modernization project siting and training event scheduling and allocation.
- TRI ensures proper coordination with non-training mission elements (e.g. DPW / Environmental) to ensure training support projects are compliant with local, state, Federal, Department of Defense (DoD) / Army regulations (e.g. AR 200-1), and Host Nation agreements, as applicable.

1-10. Land Rehabilitation and Maintenance

- The LRAM component is a key enabler for sustaining realistic training conditions through the reconfiguration of training lands to enable new maneuver capabilities, maintenance of existing training land resources, and maneuver damage repair.
- LRAM projects may be executed in order to mitigate safety hazards that prevent maneuver training lands from being utilized for required training tasks.
- Installations will define and document their LRAM objectives in the Installation RCMP.
- LRAM projects will be coordinated with appropriate installation offices to ensure all necessary documentation (e.g., NEPA, DA Form 4283, (Facilities Engineering Work Request), etc.) is completed and that activities are in compliance with applicable cultural and environmental laws and regulations.
- Biannual User working Group meetings will be held for recommendations to improve LRAM execution and efficiency.

2-11. Range and Training Land Assessment

- The RTLA component acquires data and assesses information to maximize the capability and sustainability of training land capabilities to support live training.
- RTLA conducts assessments to support training land management decisions. Assessment types and needs are determined locally at the installation and must have a direct correlation with the installation's current training mission requirements and Army approved changes to mission.
- RTLA assessments are designed to:
  - Provide information to support land management decisions.
  - Identify landscape conditions suitable for installation specific training missions.
  - Provide recommendations on land management strategies required to support unit training tasks.
  - Identify and report the requirement for LRAM practices and land management work.

  - Provide information to support LRAM projects:
  - Identify and report a need for soil stabilization and/or vegetation management to attain or maintain conditions suitable for training missions
  - Monitor the success/failure of LRAM projects
  - Assist with identifying suitable landscape conditions to support training mission requirements
- RTLA supports all ITAM components.
- Installations will define and document their RTLA objectives in the Installation RCMP.
- RTLA conducts internal capability assessments by routinely reviewing plans, such as the NRMP, ICRMP, agricultural leases, annual burn plan, timber harvest plan, and other plans as appropriate.
- Biannual User Working Group meetings are held for recommendations to improve RTLA execution and efficiency.

1-12. Sustainable Range Awareness

- SRA is the component of the ITAM Program used to promote range and training land awareness to educate range and training land users on safety and emergency protocols related to mission readiness activities in addition to local environmental considerations.
- SRA is achieved by:
  - Developing and distributing educational materials to users of range and training land assets.
  - Integrating SRA into existing Command and installation operational awareness activities and events.
- Soldier Field Cards provide vital information including, but not limited to emergency phone numbers, MEDEVAC procedures, risk assessment matrix, work/rest and water consumption table, and other installation specific information. Soldier Field Cards are SRA products available to all SRP supported installations and sites.

1-13. SRP Geographic Information Systems Program

- The SRP GIS Program, a component of the ITAM Program, is the foundational support element of the SRP. The mission of the SRP GIS Program is to create, analyze, manage, and distribute standardized authoritative geospatial information, products, and services for the execution of training strategies and missions on U.S. Army ranges and training lands.
- The SRP GIS Program provides standard geospatial data development, geospatial analysis, and mapping capabilities at all echelons. These capabilities support the ITAM Program components, Range Development, Range Modernization, Range Operations functions, and training mission support.
  - Geospatial data development, geospatial analysis, and mapping capabilities are required to perform and/or support the following:
    - Development and execution of model parameters for overall program budgeting and execution
    - Range project planning process
    - RCMP development
    - The RFMSS Enhanced Graphic Firing Desk (EGFD)
    - Military Installation Map (MIM) development and sustainment
    - Unit training suitability analysis and training mission support products
  - Geospatial data developed in support of the SRP must adhere to National, Federal, DoD, and Army standards:

The HQDA DCS G 3/7 SRP Geospatial Data Strategy, updated annually, identifies and documents the funding, collection, and maintenance of geospatial data for which HQDA DCS G 3/7 is the proponent. These geospatial data layers are a critical requirement in support of Army live training.

- All HQDA DCS G 3/7 proponent geospatial data must meet published guidance, including the geospatial Data Quality Assurance Plans (QAPs) for which HQDA DCS G 3/7 is the proponent, and Army Installation Geospatial Information and Services (IGI&S) metadata requirements.
- To allow for data integration, the current approved release of the Spatial Data Standards for Facilities, Infrastructure, and Environment (SDSFIE) will be followed (see AR 115-13).
- All HQDA DCS G 3/7 proponent geospatial data must include associated metadata (see AR 115-13).

- Access to geospatial information is core to performing SRP functions at all levels. On a quarterly basis, SRP supported installations/sites will submit HQDA DCS G 3/7 proponent geospatial data in accordance with AR 115-13 and guidance in the HQDA DCS G 3/7 SRP Geospatial Data Strategy. SRP geospatial information must be available for data consolidation and strategic planning to support the HQDA DCS G3/7 Training, Training Support Simulations Division, to SRP supported Commands for regional analysis, to other HQDA offices for geospatial analysis and integration, and to SRP supported installations/sites to support the training mission.
- HQDA DCS G 3/7 proponent geospatial data will be integrated into the Army enterprise GIS system.

- As the lead for the SRP GIS Program, ACM Ranges is responsible for –
  - Coordinating and managing SRP GIS Program recommendation, requirements, and initiatives, including:
    - Representing HQDA DCS G3/7 Training, Training Simulations Division at quarterly IGI&S Functional Coordination Committee (FCC) meetings and serving as the lead for HQDA DCS G3/7 Training proponent geospatial data (as directed by HQDA DCS G3/7 Training, Training Simulations Division.
    - Managing SRP GIS Program requirements & initiatives within the ACM Ranges, HQDA Support Work Plan (direct support and services).
    - Presenting programmatic updates at the SRP Management Reviews and representing the SRP GIS Program during technical, management, user working groups, and workshops.
    - Providing recommendations to the SDSFIE family of standards based on SRP requirements.
    - Chairing the SRP GIS User Working Group (UWG).
      Coordinating SRP GIS requirements and policies with Federal and DoD offices/agencies, including HQDA DCS G3/7 Training, Training Simulations Division, the G9 IGI&S Program, the National Geospatial-Intelligence Agency (NGA), U.S. Army G2, and the Army Geospatial Center (AGC).
    - Developing, maintaining, and distributing SRP GIS Program information, guidance, and documentation.
    - Managing the SRP Esri Enterprise Agreement (EA).
- The SRP GIS UWG identifies and recommends GIS requirements to support SRP by utilizing best management practices and standards for GIS initiatives, analyzing options for automation and tool development, and exploring alternatives to meet SRP GIS user requirements. Biannual SRP GIS UWG meetings will be held for recommendations to

improve SRP GIS execution and efficiency. The SRP Geospatial Support Center (GSC) provides standard SRP geospatial information and services in support of SRP GIS Program requirements at SRP supported installations/sites, SRP supported Commands, and HQDA DCS G3/7 Training, Training Simulations Division.

- The mission of the SRP GSC is to increase the utility and cost effectiveness of GIS in support of the SRP.
- The SRP GSC serves as the point of contact for SRP GIS technical support, to include the SRP GIS Toolkit, and provides centralized guidance to SRP supported installations/sites on how to adhere to current guidance, policies, standards, and regulations for geospatial data development, collection, maintenance, storage, distribution, and submittal.

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Chapter 2

Maneuver Doctrine Frames Maneuver Training Land Requirements

SECTION I – TRAINING UNITS AND DEVELOPING LEADERS

2-1. Army Doctrine Publication (ADP) 7-0, *Training* describes the fundamentals of how the Army trains to conduct operations as a unified action partner employing the Army's operational concept—unified land operations. Developing and sustaining readiness is the Army's number one priority. Training represents the most important activity units do every day to achieve readiness. The Army does this by conducting tough, realistic, standards-based, and performance-oriented training.

2-2. FM 7-0, *Train to Win in a Complex World*, describes how the Army trains to win. With that focus, the Army develops training readiness and the capabilities that support Army and joint force commanders. FM 7-0 applies to all leaders at all organizational levels. All leaders are trainers. Leaders include Officers, Warrant Officers, Noncommissioned Officers, and Department of the Army Civilians in leadership positions.

2-3. Unit collective training reinforces foundations established in the institutional training domain and introduces additional skills needed to support the unit's mission and readiness posture. Collective training requires interactions among individuals or organizations to perform tasks that contribute to the unit's training objectives and mission-essential task proficiency.

2-4. Unit training occurs in the operational training domain at home station, maneuver combat training centers, regional training centers, and mobilization training centers. Unit training develops and sustains an organization's readiness by achieving and sustaining proficiency in mission-essential tasks. Installations ensure units have access to the training enablers required to develop and sustain mission readiness.

SECTION II - BRIGADE COMBAT TEAMS

2-5. Brigade combat teams (BCTs) organize to conduct decisive action, which is the continuous, simultaneous combinations of offensive, defensive, and stability or defense support of civil authorities' tasks. The BCT can fight without augmentation, but it also can be tailored to meet the precise needs of the assigned missions. BCTs conduct expeditionary deployment and integrate the efforts of the Army with military and civilian, joint and multinational partners. The BCT is the Army's largest combined arms organization as well as being the primary close combat force. For combat operations, the ground component of joint task forces is built around the BCT. The BCT units and capabilities from every warfighting function; they are task organized to meet specific mission requirements. There are currently three types of BCTs. They are the Armored Brigade Combat Team (ABCT), the Infantry Brigade Combat Team (IBCT), and the Stryker Brigade Combat Team (SBCT). This section describes the organization, capabilities, and limitations of each BCT type. For additional information, please reference FM 3-96 Brigade Combat Team.

2-6. ABCTs are balanced combined arms units that execute operations with shock and speed. Their main battle tanks, self-propelled artillery, and fighting vehicle-mounted Infantry provide tremendous striking power. ABCTs require significant strategic airlift and sealift to deploy and sustain.

Their fuel and ammunition consumption may limit operational reach. However, the ABCT's unmatched tactical mobility and firepower offset this. ABCTs include organic military intelligence, military police, artillery, signal, engineer, CBRN, reconnaissance, and sustainment capabilities.

2-7. IBCTs are the Army's lightest BCT, and are organized around dismounted Infantry, capable of airborne or air assault operations. Each of the three types of IBCT (light Infantry, air assault, or airborne) have the same basic organization. IBCTs require less strategic lift and logistical support than other BCTs. When supported with intra-theater airlift, IBCTs have theater-wide operational reach. Organic antitank, military intelligence, artillery, signal, engineer, reconnaissance, and sustainment elements enable the IBCT commander to employ the force in combined arms formations. IBCTs are optimized for operations in close terrain such as swamps, woods, hilly and mountainous areas, and densely populated areas.

2-8. SBCTs balance combined arms capabilities with significant strategic and intra-theater mobility. Designed around the Stryker wheeled armor combat system in several variants, the SBCT has considerable operational reach. It is more deployable than the Armored Brigade Combat Teams (ABCT) and has greater tactical mobility, protection, and firepower than the IBCT. SBCTs fight primarily as a dismounted Infantry formation. The SBCT includes military intelligence, signal, engineer, antitank, artillery, reconnaissance, and sustainment elements. This design lets SBCTs commit combined arms elements down to company level in urban and other complex terrain against a wide range of opponents.

2-9. BCTs require large training spaces to conduct training. According to calculations from the Army Range Requirements Model (ARRM), ABCTs and IBCTs require approximately 10,390 acres; SBCTs require 18,750 acres to perform training exercises. The map in Figure 2-1 shows land size requirements using black boxes scaled to the installation that represent acreage needed to support BCT training. These maps are also used by HQDA to analyze BCT stationing capacity according to Accessible Land on Army installations.

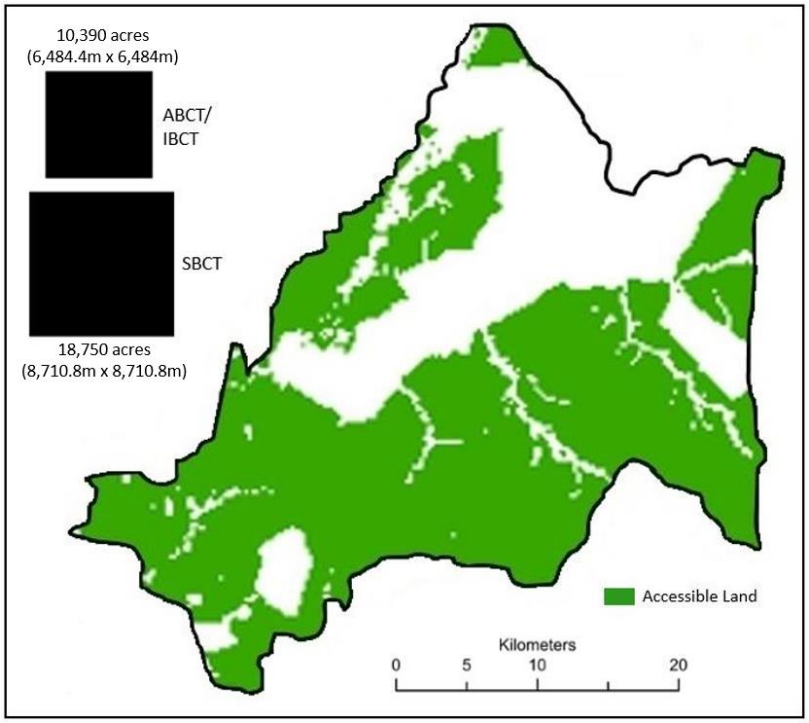

Figure 2-1. BCT Land Size Requirements

SECTION III – TYPES OF ARMY OPERATIONS THAT FRAME TRAINING LAND REQUIREMENTS

2-10. Offensive operations. An offensive task is a task conducted to defeat and destroy enemy forces and seize terrain, resources, and population centers. The four primary offensive tasks are movement to contact, attack, exploitation, and pursuit. (See Figure 2-2 below.)

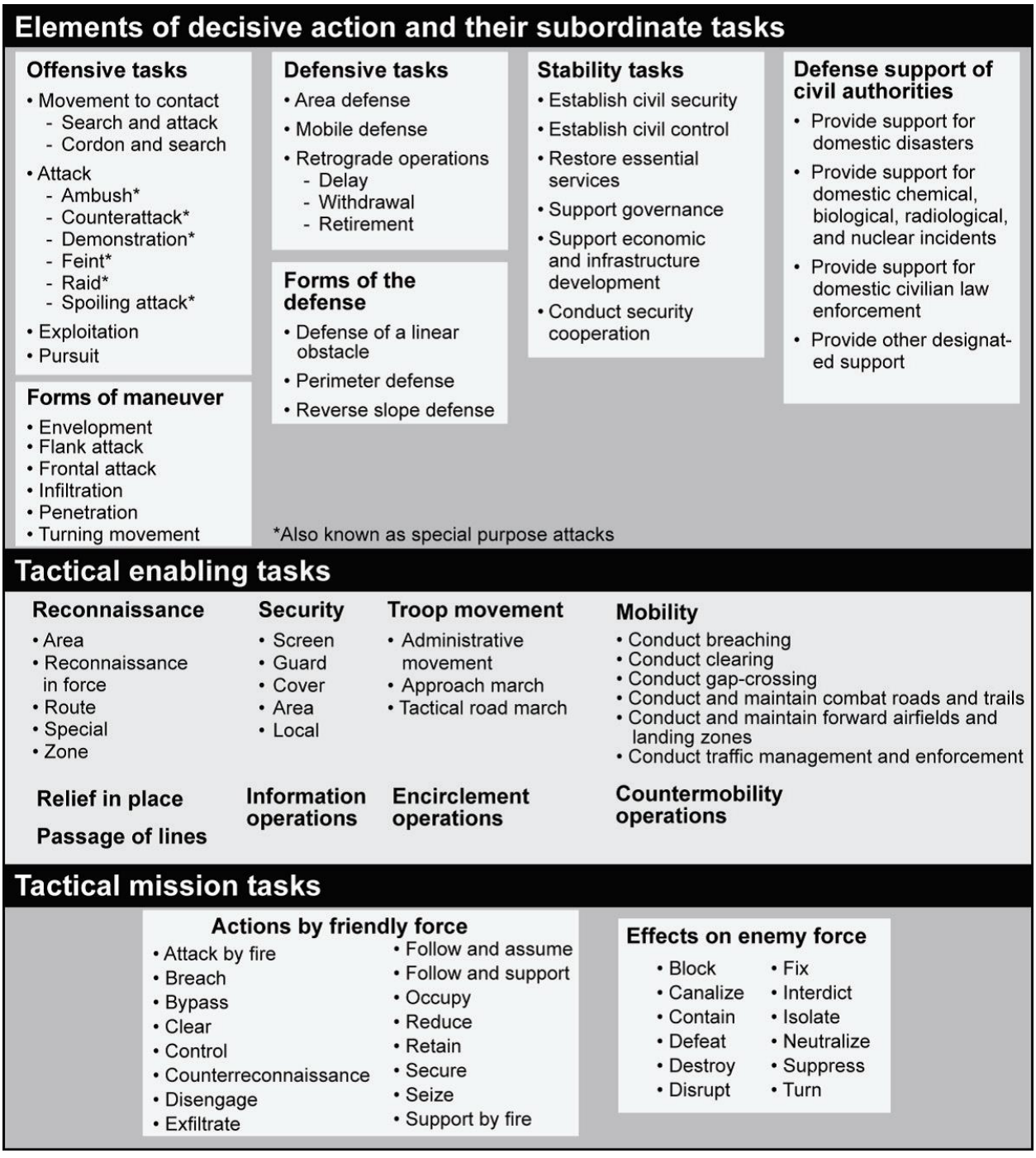

Figure 2-2. Tactical Doctrinal Taxonomy (ADP 3-90)

2-11. Commanders require large maneuver areas in which to design attack zones large enough to conduct all of the offensive maneuver training that mobile forces require. Army Proponents consider this as they derive the areas needed to support maneuver. Both manned and unmanned aviation requirements must be included in the planning and resourcing of a training event. (See Figure 2-3 below.)

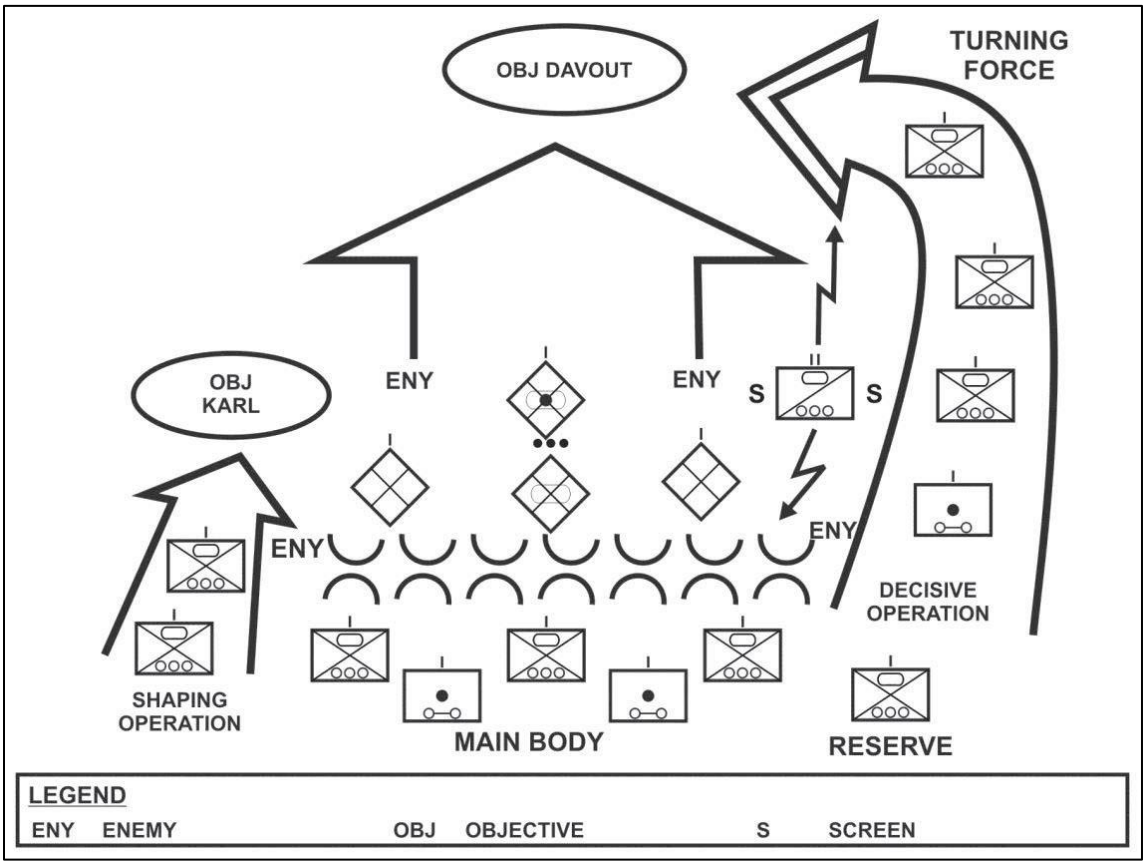

Figure 2-3. Example of a turning Movement (FM 3-96)

2-12. Maneuver Training Areas for offensive operations support Army maneuver training for all forms of offensive maneuver (penetration, frontal assault, envelopment, infiltration, turning movement). ADP 3-0, ADP 3-90, and ATP 3-90.1 provide the conceptual framework for Army unit maneuver that drives the Proponent size requirements for Army tasks conducted in maneuver training areas.

2-13. Defensive operations. A defensive task is conducted to defeat enemy attacks, gain time, control key terrain, protect critical infrastructure, secure the population, and economize forces. There are three primary defensive tasks: area defense, mobile defense, and retrograde.

2-14. Commanders conducting training for defensive operations require substantial maneuver areas to array forces throughout the doctrinal structure of the battlefield. Proponents consider the maneuver and range capabilities of the mobile tanks, mechanized infantry, and aviation forces in developing maneuver land requirements that support defense training. Both manned and unmanned aviation requirements must be included in the planning and resourcing of a training event.

2-15. Maneuver Training Areas for defensive operations support Army maneuver training for all patterns of defense. Figure 2-4 illustrates a Combined Arms Battalion (CAB) Defense in Depth. ADP 3-0, ADP 3-90, and FM 3-90-1 provide the conceptual framework for Army unit maneuver that drives the proponent size requirements for Army tasks conducted in maneuver training areas. (See Figure 2-4 below.)

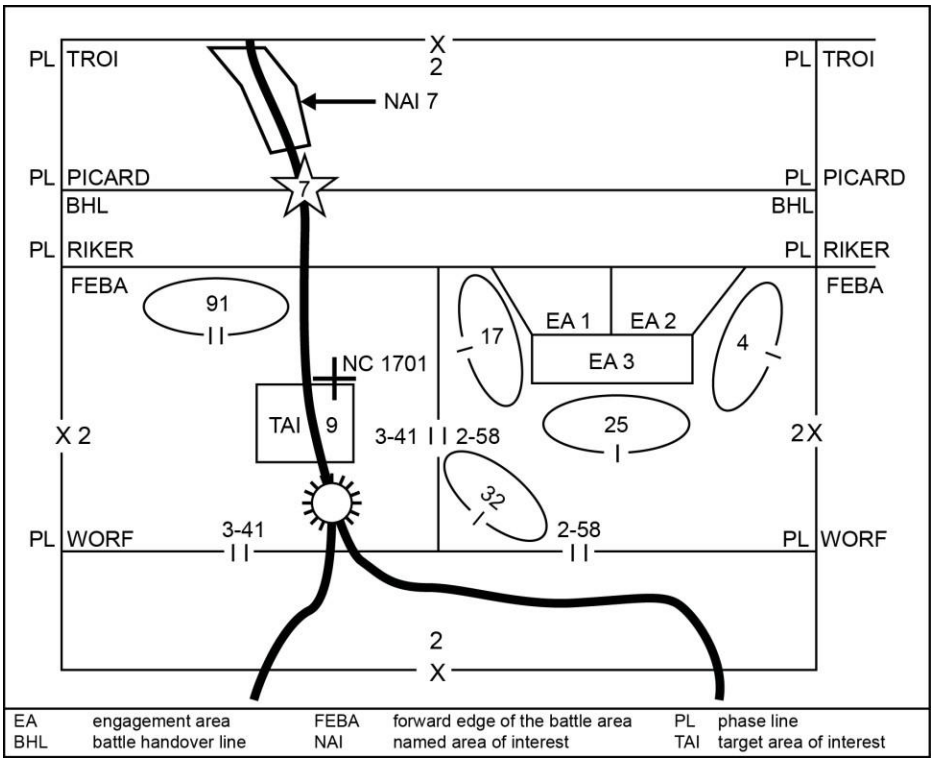

Figure 2-4. Typical control measures for an area defense (FM 3-90-1)

2-16. Stability Operations. Stability tasks leverage the coercive and constructive capabilities of the military force. These tasks enable forces to establish a safe and secure environment, facilitate reconciliation among local or regional adversaries, support the establishment of political, legal, social, and economic institutions, and facilitate the transition of responsibility to a legitimate civil authority.

2-17. Training for the tasks involved in Stability Operations is normally conducted by Brigade Combat Team (BCT) elements in the same areas that are used for offensive and defensive maneuver training. Proponents may derive additional stability training area requirements for specific BCT elements.(See Figure 2-5 on page 2-6.)

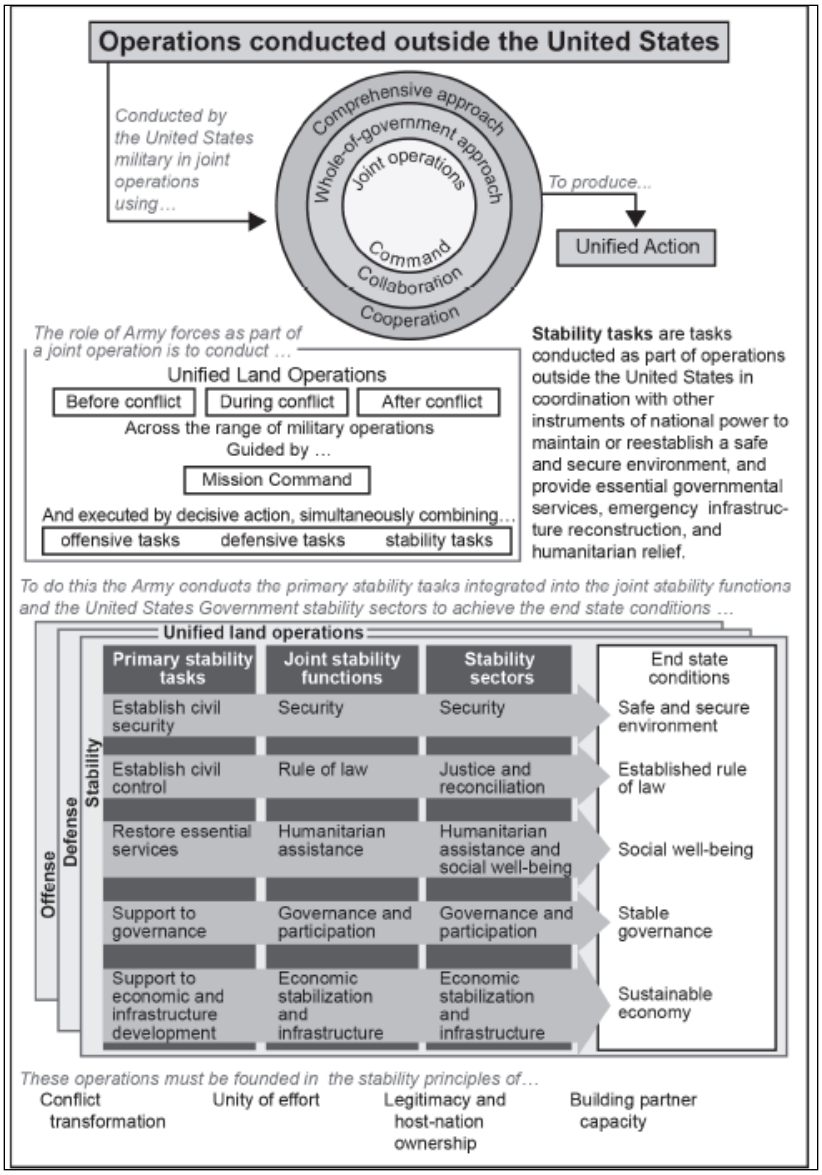

Figure 2-5. Stability Operations Underlying Logic (ADP 3-07)

2-18. Civil Support Operations. Army leaders ensure that Army units supporting civil authorities are guided by three core purposes which are: to save lives, to alleviate suffering and to protect property.

2-19. If the National Command Authority directs federal U.S. Forces operations in Continental United States (CONUS), the tasks that will be required are already trained in the normal conduct of Army business. No maneuver training land is required solely for civil support operations training. (See Figure 2-6 on Page 2-7.)

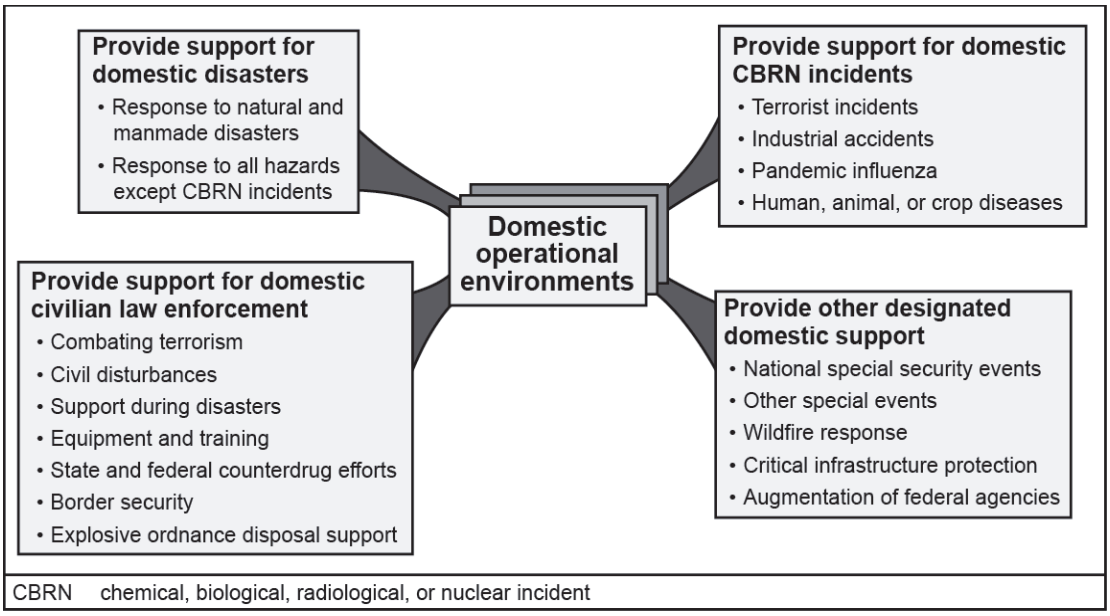

Figure 2-6. Defense Support of Civil Authorities Core Tasks (ADP 3-28)

SECTION IV – MANEUVER TRAINING AREAS THAT SUPPORT SPECIFIC TASKS OR UNITS

2-20. Maneuver training areas that support urban operations training. All Army units conduct operations in urban areas. To address the requirements for realistic urban maneuver terrain, the Army provides Urban Operations (UO) sites and Combined Arms Collective Training Facility (CACTF).

2-21. The Army inventories UO sites and CACTFs as ranges rather than as maneuver training land for building maintenance purposes. Units' requirements for UO facilities are likewise managed as range requirements. The UO facilities serve the same purpose as maneuver training land for Army units training in an urban environment.

2-22. Maneuver training areas around these facilities are often used in conjunction with the urban operations training facility. They serve as maneuver areas for units or opposing forces attacking the UO site. (See Figure 2-7 on page 2-8.)

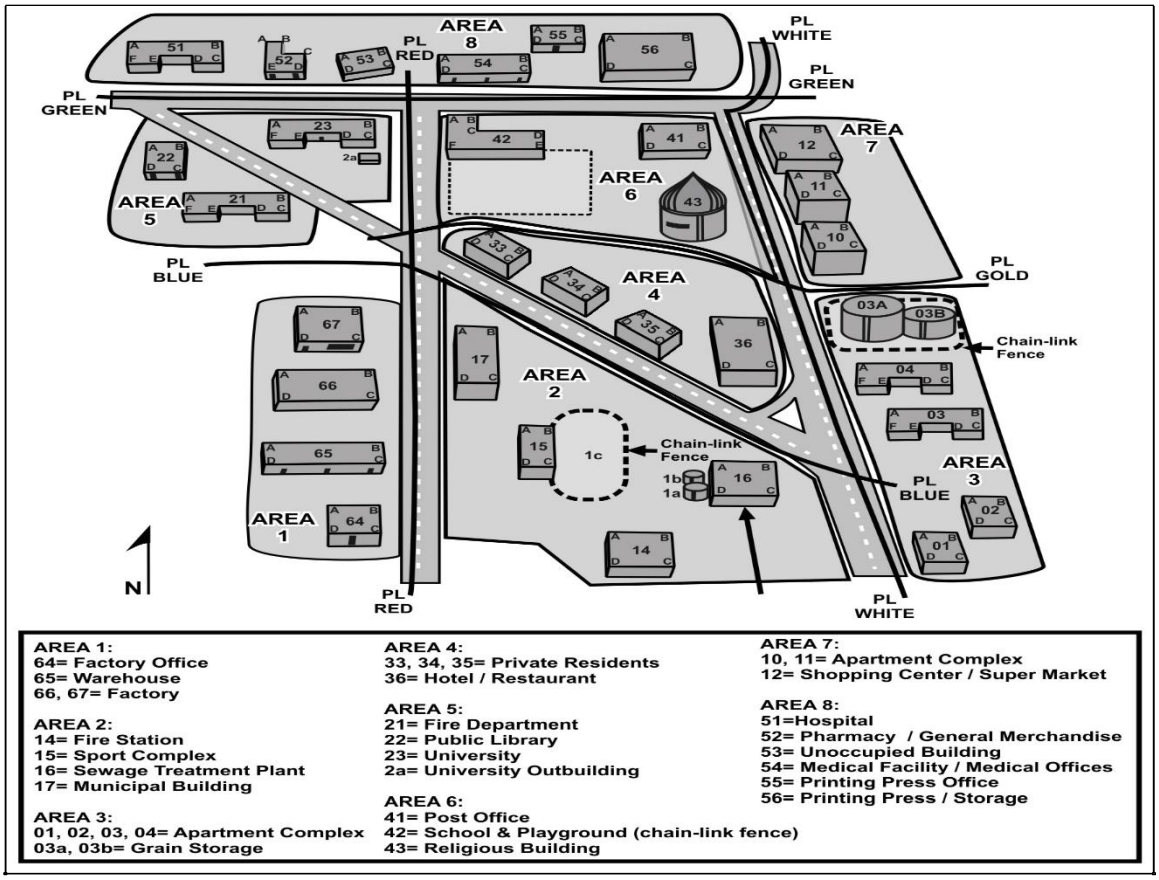

Figure 2-7. Example urban operations sketch (ATTP 3-06.11)

2-23. Maneuver training areas that support sustainment training. Commander's sustainment operations are integral to all other operations and therefore require maneuver area from which to support close combat operations. Maneuver operations in the BCT's area of operations (AO) are supported by sustainment operations that are integrated into the Brigade's terrain footprint. Some sustainment units require limited training land to train on separately for short periods each year.

2-24. Proponents define the training areas that Brigade Support Battalion units require. Brigade support units normally train with the combat units they support and therefore require limited training land for separate organic training.

2-25. Proponents define training areas that non-brigade support units require. Non-brigade support units require training area for supply and maintenance points as well as command and control training. (See Figure 2-8 on page 2-9.)

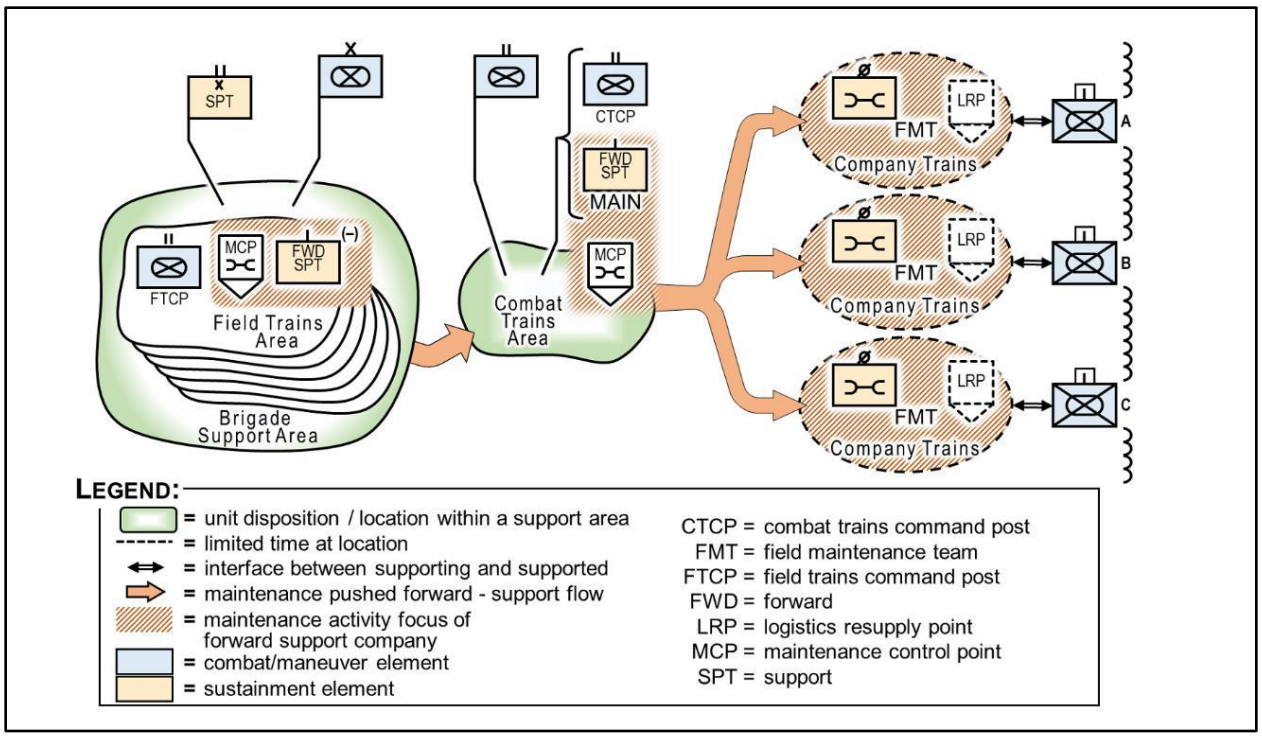

Figure 2-8. Example of echeloned FSC support to an ABCT (FM 4-0)

2-26. Maneuver training areas that support units not affiliated with Brigade Combat Teams. There are other units not usually assigned or attached to BCTs. Proponents for each type of unit provide the maneuver training area requirements for their respective types of units. These units may include other federal entities outside of the DoD. TRADOC assembles and models the land requirements for these other types of units in the same way they are modeled for Combined Arms Battalions.

2-27. Maneuver training areas that support TRADOC Programs of Instruction (POI). Many TRADOC POIs require maneuver training land. TRADOC school commandants develop and approve maneuver training areas that their respective schools require to support individual training classes. Army budgets for range and training land support funding based on these TRADOC POIs. Ranges, land areas, maintenance, and operating personnel are provided to the installations on the basis of the POI information.

SECTION V – CONTIGUOUS AND NONCONTIGUOUS OPERATIONS

2-28. Army units may deploy in AO with either contiguous or noncontiguous boundaries. Army units train for operations in both types of AO.

2-29. When larger echelons are involved, more terrain is required to deploy all forces that may be assigned or attached for training. As stated in the Army's FM 3-90 series, units will often operate in multiple non-contiguous locations rather than one large, contiguous location. A contiguous maneuver box of battalion size supports either requirement for most units.

2-30. The impact of the contiguous/non-contiguous doctrine on maneuver training area requirements is that the Army requires few large, contiguous areas. When commanders need large unit, contiguous

areas, they will move to other locations if there is insufficient training land available at home station. At all echelons, commanders, leaders, and staffs will maneuver virtually and constructively to complement lower unit live maneuver training capabilities.

2-31. A Combined Arms Battalion commander can array forces in two different ways inside his AO. On the left, the example shows units that share contiguous boundaries. On the right side, units are arrayed in specified areas but do not have contiguous boundaries. (See Figure 2-9 below.)

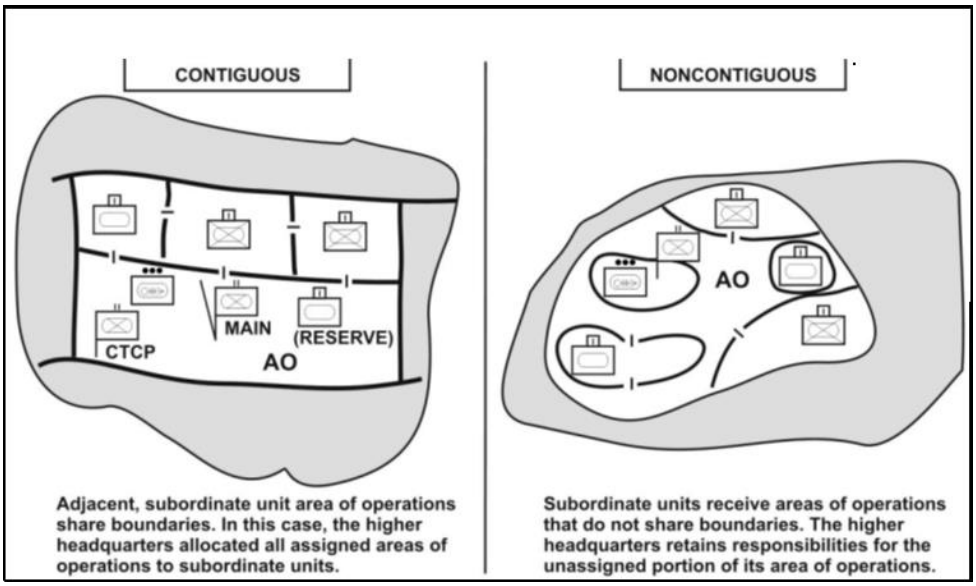

Figure 2-9. CAB Contiguous and Noncontiguous Training Areas

2-32. BCT commanders can similarly array forces in two different ways in his AO. The Brigade operates in the same way as the battalion. Division and Corps operations may similarly operate in a contiguous or a non-contiguous array. (See Figure 2-10 below.)

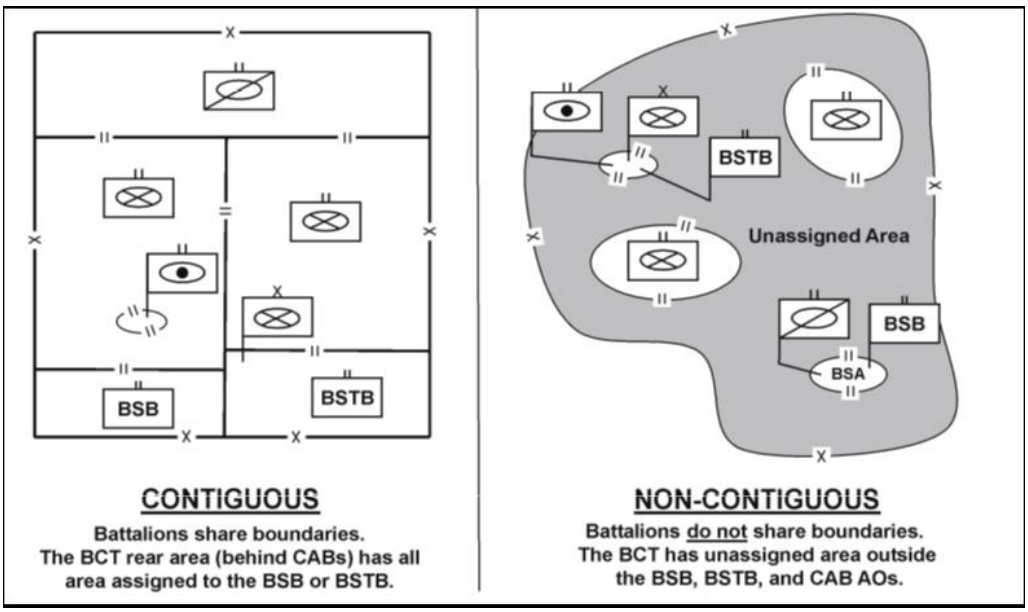

Figure 2-10. BCT Contiguous and Noncontiguous Training Areas

Chapter 3

Training Land Requirements

SECTION I – MANEUVER AREAS AS REAL PROPERTY

3-1. The Garrison Commander's Real Property Accountability Officer (RPAO) records the official maneuver training land inventories based on guidance published by the Office of the Deputy Chief of Staff, G-9 (DCS, G-9). TRADOC uses the inventory to determine installation available land. Available land is compared with Army installation training land requirements to identify deficiencies.

3-2. Types of Maneuver Training Areas. The three primary types of maneuver training land described in TC 25-1 can be found in Army Regulation 415-28. The three types and their associated Facility Category Codes (CATCD's) are: Maneuver Training Area - Light Forces (CATCD 17710), Maneuver Training Area - Heavy Forces (CATCD 17720) and Maneuver Training Area - Amphibious Forces (CATCD 17711).

- Light Forces Maneuver Training Area (CATCD 17710). Defined as:
  "Space for ground and air combat forces to practice movements and tactics as specified in the unit's Combined Arms Training Strategy (CATS). Different type units may support one another (combined arms), or a unit may operate on its own to practice a specific CATS tasks set. The "Light" designation refers to areas where maneuver may be restricted for some reason to small units or units having only wheeled vehicles. "Light" maneuver/training areas are not typically used by "Heavy" forces other than assembly areas where movement is restricted to roads or trails. Included in this category are bivouac sites, base camps, and other miscellaneous training areas…."
- Heavy Forces Maneuver Training Area (CATCD 17720). Defined as:
  "Space for ground and air combat forces to practice movements and tactics as specified in the unit's Combined Arms Training Strategy (CATS). Different type units may support one another (combined arms), or a unit may operate on its own to practice a specific CATS tasks set. The "Heavy" designation refers to areas where maneuver is unrestricted and can consist of all types of vehicles and equipment, including tracked vehicles. "Heavy" maneuver/training areas can be used by "light" forces. This category includes bivouac sites, base camps, and other miscellaneous training areas…."
- Amphibious Forces Maneuver Training Area (CATCD 17711). Defined as:
  "Space for ground and air combat forces to practice movements and tactics during amphibious (ship-to-shore) operations. Different type units may support one another (combined arms), or a unit may operate on its own to practice a specific CATS tasks set. Tasks can include both combat and logistics (especially logistics over the shore). Included in these areas are bivouac sites, base camps, and other miscellaneous training areas…."

3-3. The three types of maneuver training areas listed above may contain training "features" or areas designed for specific training tasks, but that are not of significant enough size, or do not generate sufficient funding requirements, to warrant a separate real property designation. These features include:

- Tactical Assembly/Bivouac Sites: These are locations within the maneuver/training area where troops establish temporary camps and/or assemble prior to conducting training missions.
- Landing Zones/Pickup Zones (LZ/PZ): LZs and PZs are areas within the maneuver/training area used for training tactical helicopter operations and landing and takeoff procedures.
- Artillery Firing Points (AFP**):** AFPs are sites located throughout the maneuver/training area used to conduct indirect fire into the impact area.
- Mortar Firing Points (MFPs): MFPs are sites located throughout the maneuver/training area used to conduct indirect fire into the impact area.
- Observation Points (OP): OPs are sites located within the maneuver/training area in the vicinity of an impact area used to adjust the firing of indirect fires or close air support into the impact area.
- Forward Arming and Refueling Point (FARP): A FARP is a temporary facility, organized, equipped, and deployed to provide fuel and ammunition necessary for the employment of aviation maneuver units in combat.
- Land Navigation Courses: Land navigation courses are areas located within the maneuver/training area principally scheduled and used for mounted and/or dismounted map reading, terrain association, or navigational training. ("Land Navigation Course" has its own CATCD, 17998, but shares the same Facility Analysis Category (FAC), 1741, as Maneuver Area, Light Forces.
- Amphibious Launch Sites: Amphibious launch sites are areas located maneuver/training area used to train tactical ship-to-shore operations.
- Maneuver Trails: Maneuver trails support tactical training events associated with installation training missions. Trail design and condition requirements are based on specific mission needs. These trails can support mounted and dismounted training exercises.

3-4. Maneuver Trails are defined as the network of *unpaved trails* found within a maneuver corridor or training area that support maneuver/tactical training. These trails are not part of the DPW Real Property infrastructure, have no RPUID, no assigned FCC Code, and may branch from Training Area Tank Trails (CATCD 85720 for paved, CATCD 85725 for unpaved Training Area Tank Trails), Training Area Roads (CATCD 85710 for paved, CATCD 85715 for unpaved Training Area Roads) or Combat Trails (CATCD 17965). Planned maintenance and repairs of these trails are generally identified by the ITAM program.

- The primary distinction between the three types of trails are:
  - Maneuver Trails are used for training (i.e., maneuver tasks, not movement) and are within a training area.
  - Training Area Tank Trails or Training Area Roads are used primarily for ingress, egress, and circulation within and around the training area by tactical and administrative vehicles (i.e., Administrative, Tactical Road March, and Movement Tasks.)
  - Combat Trails are defined as a training site used for various training types of proficiency and sustainment training by rotation through a series of stations in a round robin scenario. These are not to be confused with maneuver trails which include an unpaved network of trails in a maneuver corridor or training area used by tactical vehicles/equipment for maneuver training.

3-5. Usage calculations for these other types of land and for land used as testing areas are not included in TC 25-1. However, certain training tasks (including tasks from other training requirements documents like TC 25-1) may reference these land training features as necessary parts of their land requirement, and may document specific conditions within these features to support those tasks. NOTE: some of these land features when scheduled for their non-maneuver training task(s) (e.g., Artillery Firing Points) may make entire training areas where they are located unavailable for maneuver training tasks.

3-6. Primary and Secondary Land Uses. Land with primary use designations other than CATCD 17710, 17720, or 17711 may be utilized for some light and/or heavy maneuver training tasks. Non-dudded Impact Areas (CATCD 17731), Field Training Areas (CACTD 17999), and Personnel and Equipment Parachute Drop Zones (CATCD 17991), in addition to some portions of other live-fire complexes, are examples of areas that may be identified as secondary use (listed in real property as "Secondary Design Use"). These areas should be considered available to support maneuver training tasks; however, their availabilities may be limited to times not scheduled for their primary uses, and the allowable training tasks may be limited to those that do not alter the land conditions needed to support the primary uses. For example, an installation may prevent some armor maneuver training tasks within a primary use drop zone containing a flight landing strip in order to avoid damage to facilities. Likewise, some lands designated with primary CATCD design uses as 17710, 17720, or 17711 may have secondary uses that affect those portions of the areas in terms of time available for the primary use, or preclusion of certain training tasks within those areas to avoid land condition alteration that prevents usage for the secondary use. For example, a portion of a heavy maneuver training area (17720) may have a secondary use as a drop zone (17991), and within that area may schedule the drop zone during which time the same space cannot be used for armor training. Additionally, training ranges such as Field Artillery Indirect Fire Ranges may cause adjacent maneuver areas to be unavailable. Calculating land available for training must consider both the primary usage of non-maneuver lands, secondary usage of maneuver land, and other training features (such as artillery firing points or bivouac areas) within maneuver lands. Adjacent land use may affect the availability and types of training tasks conducted within these areas.

SECTION II - Training Sustainability and Realism

3-7. Training land sustainability and realism are where available land assets meet the training requirement. Training land management is the practice of balancing the need for realistic training conditions with the ability to sustain training rotations through time on a fixed land base. Sustainable and realistic training conditions are those that support the required training tasks over a period of time to allow movement of personnel, equipment, and use of Training Aids, Devices, Simulators, and Simulations (TADSS) in a manner that does not produce unacceptable and unmanageable Soldier safety or environmental compliance issues. Environmental compliance management is the responsibility of Garrison DPW/Environmental offices. The management of lands to ensure usability for the required training tasks in a safe and sustainable manner is the responsibility of the training land management offices. There must be coordinated cooperation between these offices.

3-8. Sustainable training lands are capable of supporting multiple iterations of doctrine-driven training throughput. They are managed to provide the needed carrying capacities associated with the various training types conducted at an installation including : free maneuver, fixed maneuver, live-fire maneuver, movement, airborne operations, artillery and mortar firing training, unit Mission Essential Task List (METL), warrior tasks and battle drills, signal training, bivouacking, patrolling exercises, and land navigation. Fixed maneuver training utilizes constructed hardened trails. Hardening or other improvements may be needed for repeated use, particularly for home station training.
Free maneuver utilizes the entire traversable landscape to conduct required training tasks and tactics. Where needed to ensure sustainability, some less durable lands may require hardening or other management actions to support both fixed and free maneuvers.

3-9. Realistic training conditions are those that can support doctrinal training fundamentals. Realistic training conditions are natural, safe, and sustainable. Training realism does not mean the replication of in-theater conditions at home station nor is it possible to determine all theater conditions or replicate those, and is not necessary to do so. Rather, “realistic” means the ability to support the required training tasks to standard. Land enhancements have to be substantiated by doctrinal requirements and application of the training events matrix (TEM) against CATS standards. Realistic for TRADOC is determined by POIs. A POI explains training tasks requirements and land has to safely support that requirement.

SECTION III – Available, Accessible, and Capable Training Land

3-10. Available training land supports some form of mounted or dismounted maneuver training; however, available land does not necessarily support all forms of maneuver. Available land is comprised of Maneuver/Training Area, Light Forces (17710), Maneuver/Training Area, Amphibious Forces (17711), Maneuver/Training Area, Heavy Forces (17720), Impact Area Non-Dudded (17731), Personnel/Equipment Drop Zone (17991), Land Navigation Course (17998), Field Training Area (17999), and RDT&E Ranges (39069).

- Non-Dudded Impact Areas (17731), Personnel and Equipment Parachute Drop Zone (17991), and Field Training Areas (17999) are areas that may be identified as secondary use (listed in real property as “Secondary Design Use”). These areas should be considered available to support maneuver training tasks.

- The Available Maneuver Land Analysis standard formula is:
  (light maneuver area [17710] + heavy maneuver area [17720] + field training area [17999] + amphibious maneuver area [17711] + non-dudded impact area [17731] + drop zone [17991] + ranges (all FCCs, including RDT&E range [39069]) + land navigation course [17998])
- ASSUMPTION STATEMENT: IAW DODI 4165.14, this analysis assumes that Real Property, GIS, and RFMSS share accurate and consistent database records. Real property facilities (e.g., ranges, airfields, etc.) are not to be included within maneuver land CATCDs (17710 and 17720) and should be coded correctly IAW DA PAM 415-28 and the corresponding Army IGI&S QAPs.

3-11. Accessible training land supports mounted and dismounted maneuver training. Accessible land on the installation resides inside the boundary of available land and excludes wetlands, surface water, and slopes equal to or greater than 30%. Analysis is performed to ensure dudded impact areas, ranges (excluding RDT&E ranges), airfields, and cantonment areas are excluded from accessible land. The analysis to exclude these factors is performed using geospatial layers and the results are incorporated into the Army Range Requirements Model (ARRM).

- Accessible Training Land ≤ Available Training Land
- Accessible Maneuver Land Analysis standard formula is:
  [(light maneuver area [17710] + heavy maneuver area [17720] + field training area [17999] + amphibious maneuver area [17711] + non-dudded impact area [17731] + drop zone [17991] + ranges (all FCCs, including RDT&E range [39069]) + land navigation course [17998])] – [(dudded impact area [17730; operational] + ranges (excluding RDT&E range [39069]) + airfields + cantonment areas + wetlands + surface water + slopes 30% and greater)]

3-12. Capable Training Land. Total capable land will vary based on the data reported in the Installation Status Report (ISR). Capable training land resides inside the boundary of accessible land and excludes local conditional factors (e.g., areas reported off limits due to rehabilitation, safety issues, construction, environmental restrictions, etc.). Capable land is derived from each training area's Red-Amber-Green-Black status rating entered into the ISR Ranges Maneuver Land spreadsheet. Each ISR rating equates to a percentage that is ≤ 97.5%, which is then multiplied by accessible land acreage for the corresponding training area; therefore, capable land will always be less than accessible land. Capable Training Land < Accessible Training Land ≤ Available Training Land.

SECTION IV - Assembling Operational and Institutional Land Requirements.

3-13. Once an inventory of installation land is complete, requirements for both units and TRADOC schools can be assembled for use in determining a doctrinal excess or shortfall of maneuver training land.

3-14. Aggregating Unit Land Requirements by Installation. Proponents determine the doctrinal maneuver training area required for unit training. Proponents determine kilometers squared (KM^2) of maneuver land required for each task that each type of Army unit (Infantry, Armor, CBRNE, Logistics, Aviation, etc.) conducts at each echelon (Platoon, Company, Battalion, and Brigade). Units are identified in this process by Standard Requirements Code (SRC) to identify them broadly by type because units of the same type require the same amount of maneuver land. This makes the calculations easier since fewer individual units have to be individually identified than would be the case with MTOEs, for example. Instead, type units are already grouped by SRC.

3-15. Along with the maneuver Area in KM^2, the proponent defines the approximate number of days (1 day is counted for every 24 hours) that are required for one training repetition and the number of annual repetitions the given type of unit will conduct. These numbers are doctrinal estimates used only to determine the baseline for doctrinal training land requirements. In practice, commanders at each echelon determine how many days and repetitions are required for their given unit, considering factors such as their units' missions, proficiency, and operations tempo (OPTEMPO).

3-16. Multiplying the area required by the Days for 1 Repetition, then multiplying again by the expected number of Annual Repetitions, provides the kilometers squared over a number of days in the year that will be required to train the anticipated tasks to the estimated doctrinal standard. For the first line in Table 3-1 (below), a Recon Platoon conducts the task of "Conventional Recon" in a 25 KM^2 box for one day four times each year: **(25 KM^2) x (1 Day per Repetition) x (4 Annual Reps) = 100 KM^2Days.**

Table 3-1. Example CBRNE Platoon Proponent Land Requirements

COMPANY/ BATTALION	PLATOON	PLATOON COUNT	MTP	LEVEL	TASK	AREA (KM^2)	DAYS FOR 1 REPETITION	ANNUAL REPS	SRC
RECON PLT	RECONNAISSANCE PLATOON	1	3-207-10-MTP	PLT (RECON)	· Conventional recon	25	1	4	03410F000
RECON PLT	RECONNAISSANCE PLATOON	1	3-207-10-MTP	PLT (RECON)	· NBC recon (Area)	9	1	4	03410F000
RECON PLT	RECONNAISSANCE PLATOON	1	3-207-10-MTP	PLT (RECON)	· NBC recon (Route)	10	1	4	03410F000
RECON PLT	RECONNAISSANCE PLATOON	1	3-207-10-MTP	PLT (RECON)	· NBC recon (Zone)	50	1	4	03410F000
RECON PLT	RECONNAISSANCE PLATOON	1	3-207-10-MTP	PLT (RECON)	· NBC survey	20	1	4	03410F000
RECON PLT	RECONNAISSANCE PLATOON	1	3-207-10-MTP	PLT (RECON)	· Conventional recon	25	1	4	03420F100

3-17. Kilometer square days (KM^2days) is the unit of measure used for depicting the amount of area required over time. This algorithm is repeated for every unit conducting required maneuver tasks in the Army. The concise algorithm allows automated aggregation of the large numbers of individual unit land requirements on each installation.

- KM^2 Days is the combination of area available and days available (or area required for a period of time). This is meaningful for throughput calculations. Using the acres metric would tell what training could occur doctrinally in a training area. Using KM^2 Days tells how many events could occur through the year. This metric also allows the quantifying temporal encroachment (i.e. restrictions for certain seasons).
- Acres is a measure of land required for training. It defines the size of the box and can be used to determine which training areas doctrinally meet the requirements of the training. It is useful when comparing installations and individual training areas to which areas are sufficient and if not enough land is available it gives a measure of insufficiency. It also allows one to quantify impacts of encroachment (i.e. loss to due critical habitat).

3-18. Aggregating TRADOC POI Land Requirements by Installation**.** TRADOC School Commandants determine the doctrinal maneuver training area required to support the training tasks of Soldiers in schools. TRADOC schools list required Soldier training tasks and supporting maneuver land requirements in Programs of Instruction (POI). School Commandants and TRADOC HQ approve POIs with the associated support/funding requirements.

3-19. TRADOC POIs list an amount of maneuver land (Light Forces, Heavy Forces, or both) for each Problem File Number (PFN) or event in the POI that requires land.

3-20. As shown in Figure 3-1 (Page 3-8), an 11B10 OSUT POI requires 100 acres as listed with the Facility Category Code. The Unit of Measure, Acres, is also listed. In the example, the total time requirement for an iteration of this POI is 195 hours or about 20 training days on maneuver training land that is suitable for Light Forces (17710).

Course: 11B10 OSUT **Version:** B **Delivery Group:** A **Phase:** 0
Course Name: Infantryman
Management Category: Resident **Preparation Date:** 12 Feb 2010
Status: Commandant Approved **Optimum Class Size:** 200

Facility Id: 17710-100 **Unit of Measure:** Acres

Nomenclature: MANEUVER/TRAINING AREA, LIGHT FORCES

Lesson / Version	Step	Facility Quantity	Student Ratio	Setup Hours	Cleanup Hours	Instruction Hours	Facility Hours
071J0048 / 1.00	TLO	1	1:200	2.0	2.0	155.8	159.8
	Lesson Total:			**2.0**	**2.0**	**155.8**	**159.8**
071J0094 / 1.00	TLO	1	1:200	0.8	0.8	7.8	9.4
	Lesson Total:			**0.8**	**0.8**	**7.8**	**9.4**
071J0144 / 1.00	TLO	1	1:200	1.0	1.0	23.8	25.8
	Lesson Total:			**1.0**	**1.0**	**23.8**	**25.8**
	Facility Total:			**3.8**	**3.8**	**187.4**	**195.0**

Figure 3-1. Light Maneuver Area POI Extract

3-21. TRADOC copies the maneuver land requirements for each lesson from each POI, and then aggregates the requirements for each installation where the POI is instructed. 1 day is counted for every 10 hours articulated in the POI. The number of class starts for each POI is captured at a minimum annually from the Army Training Readiness Reporting System (ATRRS). Since class starts are modified during each training year to account for student load changes, installation Range Managers also coordinate with the TRADOC HQ Range Manager to adjust class starts for any given fiscal year. This process aligns all TRADOC School POI requirements for Light Force and Heavy Force maneuver training areas to the correct installation(s). An example computation is:

POI Computation

- First, 100 acres are converted to .4 Square Kilometers.
- Second, 195 hours is divided by 10 hours per day to get 19.5 Range Days.
- Third we find 5 iterations of the class in ATRRS per year. This provides an algorithm of:

(.4 Km2 Light Maneuver Land required) x (1 PFN/POI) x (19.5 day/POI) x (5 Iterations/year)
= (.4) x (1) x (19.5) x (5)
= 39 KM^2 Days/Year.

Figure 3-2. POI Computation

SECTION V - Deriving Installation Land Requirements

3-22. As illustrated in Chapter 3-4, both the space an event requires and the time required for conducting the event are considered in deriving installation land requirements. As previously stated, the unit of measure used for depicting the amount of area required over time is Kilometer Square Days (KM^2Days). This unit of measure allows comparison of the various requirements to the KM^2Days of land that is available over time on an installation based on its land inventory. The amount of accessible maneuver training land available at an installation is calculated using GIS analysis. **(KM^2Days on Hand) - (KM^2Days Required) = Excess or Shortfall**

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Chapter 4

Training Land Requirements (Operational)

The operational training domain is the training activities organizations undertake while at home station, at maneuver combat training centers, during joint exercises, at mobilization centers, and while operationally deployed. This domain equates to assignments in the operational Army and the generating force.

ADP 7-0 Training

4-1. The Combined Arms Training Strategy (CATS) is descriptive, task-based, and event driven. CATS provides commanders, leaders, staffs, and Soldiers with a unit training strategies to assist them in developing training plans that build or sustain unit-training readiness throughout the sustainable readiness (SR). For each task CATS identifies events title, conditions (crawl, walk, run), training environment (L-V-C), purpose and outcome, execution guidance, and iterations - frequency - duration of the event and required resources.

4-2. Using CATS, the proponents provide detailed information to include:

- Tasks and corresponding events for all associated units.
- Kilometers squared (KM^2) data for both training events as well as operational (deployment) environments
- This data includes unit and tasks in both prepare and ready/mission year training status of the force projection model as well as Regular Army (RA) and Reserve component (RC).
- Airspace requirements in both training and operational (deployment) environments.
- Notes of interest for that particular unit or task.

4-3. Data provided by the proponents has been formatted for inclusion in TC 25-1 *Training Land* to allow for simple reference for the user. Training and available status as defined by AR 525-29. Use the appropriate chart to determine gross maneuver area requirements for training facilities from small local areas to division-size or larger installations:

- Column 1 Unit
- Column 2 Land requirements for Regular Army (RA) units in a prep status
- Column 3 Land requirements for Regular Army (RA) units in a ready status
- Columns 4-7 Land requirements for Reserve component (RC) units in a prep status
- Column 8 Land requirements for Reserve component (RC) units in a ready status
- Column 9 Max Area depicts the maximum land requirement for any single training event
- The formula to convert KM^2 to Acres is (KM^2 x 247.1)

4-4. Chapter 4 is organized by center of excellence (COE). All associated units within each COE are included. If a COE requires both Light and Heavy training lands, each will be depicted in a separate table.

4-5. Along with metrics for determining KM² during training the proponents also provided data reflecting the KM² requirements in an operational (deployed) environment. Additional data portrays any airspace requirements for a particular task.

4-6. Dimensions shown in these tables have been provided by the Army's proponents as guidance. Unit commanders will analyze their unit METL, assess their unit's task proficiency, estimate the resources available, and refer to CATS and plan their training accordingly.

4-7. The full chart for all tables listed in the Operational and Institutional sections can be found under Range Development on the SRP website.

4-8. The information provided in the tables of this chapter are current as of the publication of this document. For the most current data available, please reference the Army Range Requirements Model (ARRM) on the SRP web portal.

SECTION I – AVIATION CENTER OF EXCELLENCE

4-9. Aviation. Table 4-1 depicts the kilometer square (KM²) days per year.

Table 4-1. Aviation

AVIATION								
Unit	**Yr. KM² days**							**Max Area**
	Light Maneuver Land FCC 17710							
	RA Prep	**RA Ready**	**RC Prep 1**	**RC Prep 2**	**RC Prep 3**	**RC Prep 4**	**RC Ready**	
AIR TRAFFIC SERVICES COMPANY (GSAB) - 01227K000	30	30	12	18	23	22	21	5
AIRFIELD OPERATIONS BATTALION (AOB) - 01623K000	40	34	17	22	20	20	16	10
ASSAULT COMPANY (USAREUR) - 01697X000	0	253	0	0	0	0	0	10
ASSAULT HELICOPTER COMPANY - 01207K000	245	253	0	50	120	120	140	10

Table 4-1 Aviation (cont.)

AVIATION								
Unit	**Yr. KM² days**							**Max Area**
	Light Maneuver Land FCC 17710							
	RA Prep	**RA Ready**	**RC Prep 1**	**RC Prep 2**	**RC Prep 3**	**RC Prep 4**	**RC Ready**	
ATTACK/RECON COMPANY (AH-64) - 01287K000	261	269	150	150	183	183	253	10
ATTACK/RECON TROOP (AH-64) - 01287K100	261	269	0	0	0	0	0	10
AVIATION COMPANY (USARSO) - 01627X000 / 01627X100 / 01628X000 (UH-60 / CH-47)	0	217	0	0	0	0	0	10
AVIATION MAINTENANCE COMPANY (AH-64) (01289K000 / 01289K200	56	67	0	17	28	28	36	10
AVIATION MAINTENANCE COMPANY (AHB) - 1209K000 / 01209K100	56	67	0	17	28	28	36	10
AVIATION MAINTENANCE COMPANY (GSAB) - 01229K000 / 01229K100	56	67	0	17	28	28	36	10
AVIATION MAINTENANCE COMPANY (GSAB) - 01639K000	0	0	0	17	28	28	36	10
AVIATION MAINTENANCE COMPANY (GSAB) (01439K000 / 01439K100)	0	0	0	17	28	28	36	10
AVIATION MAINTENANCE COMPANY (TASMG) - 01987G000	0	0	30	30	35	40	36	10
AVIATION MAINTENANCE TROOP (AH-64) (01289K100 / 01289K300)	56	67	0	0	0	0	0	10
AVIATION SECURITY & SUPPORT COMPANY (UH-72A) - 01657X000	0	0	31	81	131	131	81	10
AVIATION SUPPORT COMPANY (ASC) (CAB) - 01927K000 / 01927K100	43	43	0	0	0	0	0	10
AVIATION SUPPORT COMPANY (ASC) (ECAB) - 01967K000 / 01967K200	0	0	18	18	28	31	25	10
AVIATION SUPPORT COMPANY (ASC) (GSAB-TAB) - 01959K000 / 01959K100	0	0	18	18	28	31	25	10
AVIATION SUPPORT COMPANY (ASC) (TAB-A) - 01967K100 / 01967K300	0	0	18	18	28	31	25	10
AVIATION SUPPORT COMPANY (ASC, USAREUR) - 01969X000	43	43	0	0	0	0	0	10

Table 4-1 Aviation (cont.)

AVIATION								
Unit	**Yr. KM² days**							**Max Area**
	Light Maneuver Land FCC 17710							
	RA Prep	**RA Ready**	**RC Prep 1**	**RC Prep 2**	**RC Prep 3**	**RC Prep 4**	**RC Ready**	
COMMAND AVIATION COMPANY (GSAB, CAB) - 01218K000	248	255	5	55	122	122	145	10
COMMAND AVIATION COMPANY (GSAB-TAB) - 01418K000	0	0	0	50	120	120	140	10
GRAY EAGLE UAS COMPANY (AEB) - 01717K000	81	81	0	0	0	0	0	10
GRAY EAGLE UAS COMPANY (MQ-1C) (SEP) - 01707K000	81	81	0	0	0	0	0	10
HEAVY HELICOPTER COMPANY (-) (USAREUR) - 01698X000	248	0	0	0	0	0	0	10
HEAVY HELICOPTER COMPANY (GSAB, CAB) - 01247K000	248	255	160	161	172	172	145	10
HEAVY HELICOPTER COMPANY (GSAB-TAB) - 01447K000	0	0	160	161	172	172	145	10
HHC/HQ - GENERAL AVIATION BATTALION (GSAB) - 01225K000 / 01225K300 / 01226K000	70	70	0	0	0	0	0	10
HHC/HQ - GENERAL AVIATION BATTALION (GSAB) - 01225K100 / 01225K400 / 01226K100	0	0	0	8	32	32	24	10
HQ / HHC - ASSAULT HELICOPTER BATTALION (AHB) - 01205K000 / 01205K200 / 01206K000	70	70	0	8	32	32	24	10
HQ / HHC - AVIATION SECURITY & SUPPORT BATTALION - 01655X000 / 01656X000	0	0	7	15	32	32	29	10
HQ / HHC - GENERAL SUPPORT AVIATION BATTALION (GSAB) - 01435K000 / 01435K100 / 01436K000	0	0	0	8	32	32	24	10
HQ / HHC - GENERAL SUPPORT AVIATION BATTALION (GSAB-TAB) - 01635K000 / 01636K000	0	0	0	8	32	32	24	10

Table 4-1 Aviation (cont.)

AVIATION								
Unit	**Yr. KM² days**							**Max Area**
	Light Maneuver Land FCC 17710							
	RA Prep	**RA Ready**	**RC Prep 1**	**RC Prep 2**	**RC Prep 3**	**RC Prep 4**	**RC Ready**	
HQ / HHC - THEATER AVIATION BATTALION (FIXED WING) - 01605K000 / 01605K100 / 01605K200 / 01606K000	0	0	13	3	23	23	23	10
HQ / HHC - THEATER AVIATION BATTALION (USAREUR) - 01695X000 / 01696X000	0	70	0	0	0	0	0	10
HQ / HHC - THEATER AVIATION BATTALION (USARSO) - 01625X000 / 01626X000	0	71	0	0	0	0	0	10
HQ / HHC - THEATER AVIATION BRIGADE - 01630K000 / 01630K100 / 01630K200 / 01630K300 / 01612K000 / 01612K100	0	0	17	25	33	33	31	10
HQ / HHC - THEATER AVIATION OPERATIONS GROUP (TAOG) - 01620K000 / 01622K000	44	44	10	18	26	26	19	10
HQ / HHD - THEATER AVIATION SUSTAINMENT MAINTENANCE GROUP (TASMG) - 01980G000 / 01982G000	0	0	8	8	16	24	18	10
HQ, COMBAT AVIATION BRIGADE (CAB) (01300K000) / (01300K200)	70	70	0	0	0	0	0	10
HQ, EXPEDITIONARY COMBAT AVIATION BRIGADE (ECAB) (01400K000) / (01400K200)	0	0	21	28	26	26	25	10
HQ/HHC - ATTACK/RECON BATTALION - 01285K000 / 01285K200 / 01286K000	70	70	0	8	32	32	24	20
HQ/HHT - ATTACK/RECON SQUADRON (ARS) - 01285K100 / 01285K300 / 01286K100	70	70	0	0	0	0	0	20
THEATER AVIATION COMPANY (C-12) (01608K000)	0	0	2	2	7	7	7	1
THEATER AVIATION COMPANY (C12/UC-35) (01607K000)	7	7	0	0	0	0	0	1

SECTION II – CYBER CENTER OF EXCELLENCE

4-10. Signal. Table 4-2 depicts the kilometer square (KM^2) days per year.

Table 4-2. Signal

Signal								
Unit	**Yr. KM^2 days**							**Max Area**
	Light Maneuver Land FCC 17710							
	RA Prep	**RA Ready**	**RC Prep 1**	**RC Prep 2**	**RC Prep 3**	**RC Prep 4**	**RC Ready**	
BDE SIG CO (ABCT/IBCT) (11307K100)	28	28	14	14	14	14	14	2
BDE SIG CO (ABCT/IBCT) (11307R800)	6	6	6	6	6	6	6	1
BDE SIG CO (FIB/BFSB) (11307K500)	24	23	12	12	12	12	12	1
BDE SIG CO (MEB/CAB/SB) (11307K600)	24	24	12	12	12	12	12	1
BDE SIG CO (SBCT) (11103K400)	26	26	13	13	13	13	13	1
COMCAM CO (11693K000)	35	36	0	0	0	0	0	1
HHC THEATER CORE STRAT SIG BDE (11602K000)	12	12	0	0	0	0	0	1
HHC, EXPEDITIONARY SIG BN (11976K000)	16	16	15	15	15	15	15	1
HHC, SATCON BN (11816K000)	8	8	0	0	0	0	0	1
HHD THEATER CORE STRATEGIC SIGNAL BATTALION (11606K000)	6	6	6	6	6	6	6	1
HQ & HQ COMPANY, SOSB (11706K205)	14	28	0	0	0	0	0	1
JOINT/AREA SIGNAL CO (11978K000)	30	30	18	18	17	17	17	1
SATCON COMPANY A (11817K000)	0	45	0	0	0	0	0	1
SATCON COMPANY B (11818K100)	0	25	0	0	0	0	0	1
SATCON COMPANY C(11818K200)	0	53	0	0	0	0	0	1
SATCON COMPANY D (11818K300)	0	25	0	0	0	0	0	1
SIG, INTEL AND SUS (SIS) CO (CORPS) (11407K300)	50	50	0	0	0	0	0	1
SIG, INTEL, AND SUS (SIS) CO (DIV) (11007K100)	54	54	19	21	21	21	21	1
SIG, INTEL, AND SUS (SIS) CO (DIV) (ABN) (11007K300)	54	54	19	21	21	21	21	1
SPEC OPS SIG CO, SOSB (11707K300)	35	69	0	0	0	0	0	1

SECTION III – FIRES CENTER OF EXCELLENCE

4-11. Air Defense Artillery. Table 4-3 depicts the kilometer square (KM^2) days per year.

Table 4-3. Air Defense Artillery

AIR DEFENSE ARTILLERY								
Unit	**Yr. KM^2 days**							**Max Area**
	Heavy Maneuver Land FCC 17720							
	RA Prep	**RA Ready**	**RC Prep 1**	**RC Prep 2**	**RC Prep 3**	**RC Prep 4**	**RC Ready**	
ADA BATTERY (AVENGER) (ABNE)(44648K100)	852	876	589	589	589	589	589	25
ADA BATTERY (AVENGER)(44617R600)	852	876	589	589	589	589	589	25
ADA BATTERY (AVENGER)(44648K000)(44658K000)	852	876	589	589	589	589	589	25
ADA BATTERY (INTERCEPT)(44657K000)	1258	1555	1051	1051	1051	1051	1051	35
ADA BATTERY (PATRIOT)(44647K000)(44637K000)	2124	2337	0	0	0	0	0	35
ADA BATTERY (THAAD)(SEPARATE)(44693R000)	876	1394	0	0	0	0	0	35
ADA BDE (44602K0FF)(44602R6FF)	404	404	371	371	371	371	371	25
ADA BN (Avenger)(44615K000)	533	799	491	491	491	491	491	70
ADA BN (IFPC/AVENGER)(44655K000)	536	802	494	494	494	494	494	70
ADA BN (PATRIOT)(44635K000)	2884	3134	0	0	0	0	0	50
ADA COMPOSITE BN (PATRIOT) (44645K000) (44645K100)	2884	3134	0	0	0	0	0	50
Army Air and Missile Defense Command (AAMDC) (44601R6FF) (44601K0FF)	354	354	354	354	354	354	354	25
HHB AAMDC (44601R600)(44601K000)	196	226	172	172	172	172	172	25
HHB ADA BDE (44602R600)	342	384	232	232	232	232	232	25
HHB ADA BN (Avenger)(44616K000)	299	368	285	285	285	285	285	70
HHB ADA BN (IFPC/AVENGER)(44656K000)	329	380	291	291	291	291	291	70
HHB ADA BN (PATRIOT)(44636K000)	277	299	0	0	0	0	0	50
HHB ADA COMPOSITE BN (PATRIOT) (44646K000)	301	322	0	0	0	0	0	50

4-12. Field Artillery. Table 4-4 depicts the kilometer square (KM^2) days per year.

Table 4-4. Field Artillery

Field Artillery								
Unit	**Yr. KM^2 days**							**Max Area**
	Heavy Maneuver Land FCC 17720							
	RA Prep	**RA Ready**	**RC Prep 1**	**RC Prep 2**	**RC Prep 3**	**RC Prep 4**	**RC Ready**	
BATTLEFIELD COORDINATION DETACHMENT (BCD) (06602K000)	263	263	346	346	346	346	346	25
DIVARTY (06333K1FF) (06333K0FF)	2163	2489	0	0	0	0	0	25
FA BATTALION, 155ST (FA BDE) (06425K000)	0	0	1171	1171	1731	1731	1681	50
FA BATTALION, COMP (IBCT) (06235K100)	6452	8077	1032	2582	3423	2922	1060	50
FA BATTERY, BATTLION 155T (SBCT) (06327K000)	2439	1539	749	749	843	0	784	50
FA BATTERY, FA BN, 155T (FA BDE) (06427K000)	5	5	1043	1043	1127	949	1063	50
FA BATTERY, FA BN, COMP (155T) (IBCT) (06238K000) (06238K200)	2175	2175	912	912	1005	1005	912	50
FA BATTERY, FA BN, COMP (3X6) (105T) (IBCT) (06237K000)	1515	1515	713	713	807	807	748	50
FA BATTERY, FIELD ARTILLERY BN, COMP (105T) (IBCT) (ABN) (06237K200)	2345	2344	0	0	0	0	0	50
FA BATTLION 155T (SBCT) (06325K000)	5313	6013	920	2145	2460	434	951	50
FA BTRY 155SP (06457K000)(06387K000)	3383	3383	1219	1359	2604	0	1314	50
FA BTRY FA BN (HIMARS) (06467K000) (06477K000)	2307	2307	1128	1128	1122	100	1122	50
HHB, DIVARTY (06333K000)	8491	8456	0	0	0	0	0	50
HHB, FA BN 155SP (FA BDE) (06456K000)	0	0	583	583	1037	1072	1072	50
HHB, FA BN, 155T (FA BDE) (06426K000)	0	0	740	740	798	798	798	50
HHB, FA BN, COMP (3X6) (IBCT) (06236K100)	1638	2683	442	442	422	422	422	50
HHB, FA BN, COMP (IBCT) (ABN) (06236K300)	1697	1697	0	0	0	0	0	50
HHB, FA BRIGADE (06433K000)	2146	2146	637	637	1746	35	1021	50

Table 4-4 Field Artillery (cont.)

Field Artillery								
Unit	Yr. KM² days							Max Area
	Heavy Maneuver Land FCC 17720							
	RA Prep	RA Ready	RC Prep 1	RC Prep 2	RC Prep 3	RC Prep 4	RC Ready	
HQ FA BN, (155SP) (ABCT) (06385K000)	2519	2519	1424	1749	2106	0	1849	50
HQ, FA BN 155SP (SPLIT OPS) (06455K000)	0	0	589	589	1224	1224	1224	50
HQ, FIELD ARTILLERY BRIGADE (FA BDE) (06433K0FF)	5408	6550	2060	1735	1791	0	3141	50
MLRS HIMARS BN (06475K000) (06465K000)	3376	3376	815	815	1800	1	1800	50

SECTION IV – INTELLIGENCE CENTER OF EXCELLENCE

4-13. Military Intelligence. Table 4-5 depicts the kilometer square (KM²) days per year.

Table 4-5. Military Intelligence

ICOE								
Unit	Yr. KM² days							Max Area
	Light Maneuver Land FCC 17710							
	RA Prep	RA Ready	RC Prep 1	RC Prep 2	RC Prep 3	RC Prep 4	RC Ready	
CI Company, MI BN (30831R100)	0	35	0	0	0	0	0	1
COLLECTION & EXPLOITATION CO (BFSB) (34109R100)	60	85	24	34	34	34	34	1
HHC MI BDE (MIB) (30802R000)	10	11	0	0	0	0	0	1
HHC MI BN (BFSB) (34106R100)	26	35	14	24	24	24	24	1
HHD MI Bn(CI/HUMINT) (30826R100)	0	8	0	0	0	0	0	1
HHD, MI BN (INTERROGATION) (30726R000)	11	18	7	12	12	12	12	1
HHD, MI BN (LINGUIST) (34646R000)	0	0	8	8	8	8	8	1
HHD, MI BN TSB (EAC) (30876R000)	0	0	6	8	8	8	8	1
HHSC OPS BN (30806R100)	0	12	0	0	0	0	0	1

Table 4-5. Military Intelligence (cont.)

ICOE								
Unit	**Yr. KM² days**							**Max Area**
	Light Maneuver Land FCC 17710							
	RA Prep	**RA Ready**	**RC Prep 1**	**RC Prep 2**	**RC Prep 3**	**RC Prep 4**	**RC Ready**	
HUMINT CO (BFSB) (34119R100)	29	39	12	23	23	23	23	1
MI CO (HUMINT) (30878G000)	0	0	25	25	25	25	25	1
MI CO (HUMINT) (30727R000)	52	74	45	50	50	50	50	1
MI CO (HUMINT) (30827R100)	38	0	0	0	0	0	0	1
MI CO, HUMINT, LINGUIST (34740R000)	0	0	13	13	13	13	13	1
MI CO, RANGER REGT (34810R000)	0	9	0	0	0	0	0	1
MI CO, SIGINT, LINGUIST (34760R000)	0	0	10	10	10	10	10	1
MI COMPANY (BEB) (34120R000)	36	42	15	15	15	15	22	1
MI COMPANY (Regional Ops)(30877G000)	0	0	16	16	16	16	16	1
MI COMPANY (Regional Ops)(30808R000)	0	17	0	0	0	0	0	1
MI COMPANY (Theater Operations) (30807R100)	0	6	0	0	0	0	0	1
MI COMPANY (CI) (TAREX), MI BATTALION (30879G000)	0	0	15	15	15	15	15	1
MI Company (CI) (TSCM)(30828R100)	35	0	0	0	0	0	0	1
MI DET (HUMINT ANALYSIS REQ) (30728R000)	10	12	9	9	9	9	9	1
MI DETACHMENT (INTEL COORD) (LINGUIST) (34750R000)	0	0	17	17	17	17	17	1
Technical Collection Company (BFSB) 34107G100	68	86	30	30	30	30	30	1

SECTION V – MANEUVER CENTER OF EXCELLENCE

4-14. ABCT. Tables 4-6 and 4-7 depict the kilometer square (KM^2) days per year.

Table 4-6. ABCT Light Maneuver Land FCC 17710

MCOE ABCT								
Unit	**Yr. KM^2 days**							**Max Area**
	Light Maneuver Land FCC 17710							
	RA Prep	**RA Ready**	**RC Prep 1**	**RC Prep 2**	**RC Prep 3**	**RC Prep 4**	**RC Ready**	
ARMOR COMPANY, CAVALRY SQUADRON (ABCT)(17318K000)	0	0	0	0	0	0	0	0
ARMOR COMPANY, COMBINED ARMS BATTALION (ABCT)(17307K000)	15	15	0	0	3	0	3	50
ARMORED BRIGADE COMBAT TEAM (ABCT)(87310K000)	38	38	0	38	38	0	38	50
CAVALRY SQUADRON (ABCT)(17315K000)	63	63	0	48	63	48	63	50
CAVALRY TROOP, CAVALRY SQUADRON (ABCT)(17317K000)	6	6	0	0	1	1	1	50
COMBINED ARMS BATTALION (ARMOR)(ABCT)(07315K100)	76	76	0	41	57	41	57	50
HHC, ARMORED BRIGADE COMBAT TEAM (ABCT)(87312K000)	50	50	0	50	50	50	50	50
HHC, COMBINED ARMS BATTALION (ARMOR)(ABCT)(07316K100)	50	50	0	50	50	50	50	50
HHT, CAV SQDN (ABCT)(17316K000)	50	50	0	50	50	50	50	50
RIFLE COMPANY, COMBINED ARMS BATTALION (ABCT)(07317K000)	20	20	0	5	8	5	8	50

Table 4-7. ABCT Heavy Maneuver Land FCC 17720

MCOE ABCT								
Unit	**Yr. KM² days**							**Max Area**
	Heavy Maneuver Land FCC 17720							
	RA Prep	**RA Ready**	**RC Prep 1**	**RC Prep 2**	**RC Prep 3**	**RC Prep 4**	**RC Ready**	
ARMOR COMPANY, CAVALRY SQUADRON (ABCT)(17318K000)	275	275	0	20	174	165	229	50
ARMOR COMPANY, COMBINED ARMS BATTALION (ABCT)(17307K000)	275	275	0	20	174	165	229	50
ARMORED BRIGADE COMBAT TEAM (ABCT)(87310K000)	740	740	0	20	20	20	20	50
CAVALRY SQUADRON (ABCT)(17315K000)	740	740	0	20	20	20	20	50
CAVALRY TROOP, CAVALRY SQUADRON (ABCT)(17317K000)	225	225	0	10	93	140	153	50
COMBINED ARMS BATTALION (ARMOR)(ABCT)(07315K100)	805	805	0	20	25	20	25	50
HHC, ARMORED BRIGADE COMBAT TEAM (ABCT)(87312K000)	75	75	0	65	65	65	65	50
HHC, COMBINED ARMS BATTALION (ARMOR)(ABCT)(07316K100)	75	75	0	65	65	65	65	50
HHT, CAV SQDN (ABCT)(17316K000)	75	75	0	65	65	65	65	50
RIFLE COMPANY, COMBINED ARMS BATTALION (ABCT)(07317K000)	260	260	0	35	155	150	210	50

4-15. IBCT. Table 4-8 and 4-9 depicts the kilometer square (KM^2) days per year.

Table 4-8. IBCT Light Maneuver Land FCC 17710

MCOE IBCT								
Unit	**Yr. KM^2 days**							**Max Area**
	Light Maneuver Land FCC 17710							
	RA Prep	**RA Ready**	**RC Prep 1**	**RC Prep 2**	**RC Prep 3**	**RC Prep 4**	**RC Ready**	
CAVALRY SQUADRON (IBCT)(17215K000)(17215K100)	788	788	59	59	74	59	74	50
DISMOUNTED CAVALRY TROOP, CAVALRY SQUADRON (IBCT)(07219K000)(07219K100)	281	281	10	10	199	150	10	50
HHC, INFANTRY BATTALION (IBCT)(07216K000)(07216K100)	125	125	115	115	115	115	115	50
HHC, INFANTRY BRIGADE COMBAT TEAM (IBCT) (77200K000)(77200K100)	125	125	115	115	115	115	115	50
HHT, CAV SQDN (IBCT)(17216K000)(17216K100)	125	125	115	115	115	115	115	50
INFANTRY BATTALION (IBCT)(07215K000)(07215K100)	846	846	53	53	74	53	68	50
INFANTRY BRIGADE COMBAT TEAM (IBCT) (77200K000)(77200K100)	761	761	48	48	48	10	48	50
MOTORIZED CAVALRY TROOP, CAVALRY SQUADRON (IBCT)(17217K000)(17217K100)	281	281	10	10	199	150	10	50
RIFLE COMPANY, INFANTRY BATTALION (IBCT)(07217K000)(07217K100)	280	280	40	40	168	156	40	50
WEAPONS COMPANY, INFANTRY BATTALION (IBCT)(07218K000)(07218K100)	125	125	20	20	120	70	20	50

Table 4-9. IBCT Heavy Maneuver Land FCC 17720

MCOE IBCT								
Unit	Yr. KM² days							Max Area
	Heavy Maneuver Land FCC 17720							
	RA Prep	RA Ready	RC Prep 1	RC Prep 2	RC Prep 3	RC Prep 4	RC Ready	
WEAPONS COMPANY, INFANTRY BATTALION (IBCT)(07218K000)(07218K100)	130	130	0	0	81	70	0	50

4-16. SBCT Table 4-10 and 4-11 depict the kilometer square (KM²) days per year.

Table 4-10. SBCT Light Maneuver Land FCC 17710

MCOE SBCT								
Unit	Yr. KM² days							Max Area
	Light Maneuver Land FCC 17710							
	RA Prep	RA Ready	RC Prep 1	RC Prep 2	RC Prep 3	RC Prep 4	RC Ready	
CAVALRY SQUADRON (SBCT)(17195K000)	64	64	0	49	64	49	64	50
CAVALRY TROOP, CAVALRY SQUADRON (SBCT)(17197K000)	6	6	0	0	1	1	1	50
HHC, INFANTRY BATTALION (SBCT)(0719600K000)	50	50	0	50	50	50	50	50
HHC, STRYKER BRIGADE COMBAT TEAM (SBCT)(47112K000)	50	50	0	50	50	50	50	50
HHT, CAV SQDN (SBCT)(17196K000)	50	50	0	50	50	50	50	50
INFANTRY BATTALION (SBCT)(07195K000)	78	78	0	43	59	43	59	50
RIFLE COMPANY, INFANTRY BATTALION (SBCT)(07197K000)	20	20	0	5	8	5	8	50
STRYKER BRIGADE COMBAT TEAM (SBCT)(47110K000)	38	38	0	38	38	0	38	50
WEAPONS TROOP, CAVALRY SQUADRON (SBCT)(17198K000)	5	5	0	0	1	0	1	50

Table 4-11. SBCT Heavy Maneuver Land FCC 17720

MCOE SBCT								
Unit	**Yr. KM² days**							**Max Area**
	Heavy Maneuver Land FCC 17720							
	RA Prep	**RA Ready**	**RC Prep 1**	**RC Prep 2**	**RC Prep 3**	**RC Prep 4**	**RC Ready**	
CAVALRY SQUADRON (SBCT)(17195K000)	720	720	0	10	10	10	10	50
CAVALRY TROOP, CAVALRY SQUADRON (SBCT)(17197K000)	265	265	0	10	148	145	208	50
HHC, INFANTRY BATTALION (SBCT)(0719600K000)	75	75	0	65	65	65	65	50
HHC, STRYKER BRIGADE COMBAT TEAM (SBCT)(47112K000)	75	75	0	65	65	65	65	50
HHT, CAV SQDN (SBCT)(17196K000)	75	75	0	65	65	65	65	50
INFANTRY BATTALION (SBCT)(07195K000)	765	765	0	10	15	10	15	50
RIFLE COMPANY, INFANTRY BATTALION (SBCT)(07197K000)	235	235	0	35	111	155	166	50
STRYKER BRIGADE COMBAT TEAM (SBCT)(47110K000)	720	720	0	10	10	10	10	50
WEAPONS TROOP, CAVALRY SQUADRON (SBCT)(17198K000)	245	245	0	10	195	140	205	50

SECTION VI – MANEUVER SUPPORT CENTER OF EXCELLENCE

4-17. CBRN. Table 4-12 depicts the kilometer square (KM^2) days per year.

Table 4-12. CBRN

CBRN								
Unit	**Yr. KM^2 days**							**Max Area**
	Light Maneuver Land FCC 17710							
	RA Prep	**RA Ready**	**RC Prep 1**	**RC Prep 2**	**RC Prep 3**	**RC Prep 4**	**RC Ready**	
CBRN BATTALION (03396K000)	23	23	10	8	11	11	11	5
CBRN BRIGADE (03492K000)	21	21	8	8	9	9	9	5
CBRN COMPANY (AREA SUPPORT) (03413K000)	0	0	11	15	20	21	15	5
CBRN COMPANY (Biological) (03423K000)	0	0	0	16	16	16	10	5
CBRN COMPANY (Hazard Response) (03313K000)	77	50	17	17	37	35	37	5
CBRN COORDINATION DETACHMENT (CBRN-CD) (03453K000)	0	0	23	23	25	13	23	5
CBRN RECONNAISSANCE DETATCHMENT (SF) (03817K000)	50	42	0	22	22	23	17	10
CBRNE COMPANY (03323K000)	22	25	0	0	0	0	0	5
CBRNE OPERATIONAL HEADQUARTERS (37800K000)	23	25	0	0	0	0	0	5
NUCLEAR DISABLEMENT TEAM (NDT) (37611KA00)	34	32	0	0	0	0	0	5
WMD COORDINATION TEAM (WCT) (37621KA00)	14	14	0	0	0	0	0	5

4-18. Engineers. Table 4-13 depicts the kilometer square (KM^2) days per year.

Table 4-13. Engineers

Engineer								
Unit	**Yr. KM^2 days**							**Max Area**
	Heavy Maneuver Land FCC 17720							
	RA Prep	**RA Ready**	**RC Prep 1**	**RC Prep 2**	**RC Prep 3**	**RC Prep 4**	**RC Ready**	
Asphalt Team (05520RA00)	12	24	16	16	0	0	0	2
CLEARANCE COMPANY (05437R200)	984	984	490	490	490	490	490	96
CMBT ENG CO, BEB, ABCT (05319R500)	1068	1087	539	539	539	539	539	96
CMBT ENG CO, BEB, ABCT (05329R500)	1132	1151	571	571	571	571	571	96
CMBT ENG CO, BEB, IBCT (05319R600)	1068	1087	539	539	539	539	539	96
CMBT ENG CO, BEB, IBCT (05329R600)	1228	1247	619	619	619	619	619	96
CMBT ENG CO, BEB, IBCT (ABN) (05319R800)	1068	1087	539	539	539	539	539	96
CMBT ENG CO, BEB, IBCT (ABN) (05329R800)	1228	1247	619	619	619	619	619	96
COMBAT ENGINEER CO, BEB, SBCT (05329R700)	1228	1247	619	619	619	619	619	96
COMBAT ENGINEER CO, BEB, SBCT (05319R700)	1228	1247	619	619	619	619	619	96
CONSTRUCTION MANAGEMENT TEAM (05601RT00)	50	75	50	50	50	50	50	5
ENG CO, ABCT (05303R200)	1390	1485	691	691	691	691	691	96
ENG CO, BDE SPECIAL TROOPS BN (ABN) (INF BCT) (05453R100)	644	653	417	417	417	417	417	96
ENG CO, BDE SPECIAL TROOPS BN (INF BCT) (05453R000)	644	653	427	427	427	427	427	96
ENG DIVING TEAM (05530RA00)	115	60	50	50	50	50	50	5
ENG PRIME POWER CO (05617R000)	83	100	58	58	0	0	0	25
ENGINEER SUPPORT COMPANY (05419R000)	368	371	225	225	225	225	225	70
ENGINEER SUPPORT COMPANY (ABN) (05419R100)	368	371	225	225	225	225	225	70
ENGR CO, BDE (SBCT) (05063R300)	383	361	289	289	289	289	289	96
FFTG-TM HQ & TRK (05510RA00)	60	60	36	36	36	36	36	10
FORWARD ENGINEER SUPPORT TEAM - ADVANCE (05567RB00)	60	60	40	40	0	0	0	20

Table 4-13. Engineer (cont.)

Engineer								
Unit	**Yr. KM² days**							**Max Area**
	Heavy Maneuver Land FCC 17720							
	RA Prep	**RA Ready**	**RC Prep 1**	**RC Prep 2**	**RC Prep 3**	**RC Prep 4**	**RC Ready**	
FORWARD ENGR SPT TEAM - MAIN (05567RA00)	20	20	20	20	0	0	0	20
GEOSPATIAL PLANNING CELL (05543RH00)	21	21	21	21	21	21	21	20
HHC, BDE ENG BN, ABCT (05316R500)	681	894	312	312	312	312	312	96
HHC, BDE ENG BN, IBCT (05316R600)	681	894	312	312	312	312	312	96
HHC, BDE ENG BN, IBCT (ABN) (05316R800)	681	894	312	312	312	312	312	96
HHC, BRIGADE ENGINEER BN, SBCT (05316R700)	681	894	312	312	312	312	312	96
EN BDE (05402R0FF)	430	450	210	210	210	210	210	25
HHC, ENGR BN (05436R020)	230	225	200	200	200	200	200	48
HHC, ENGR BN (ABN) (05436K000)	339	397	231	231	231	231	231	48
HHC, THEATER ENG CMD (05800R0FF)	0	0	120	120	120	120	120	25
HORIZONTAL CONSTRUCTION CO (05417R000)	867	1062	471	471	471	471	471	96
MOBILITY AUGMENTATION COMPANY (05438R000)	292	327	232	232	232	232	232	48
MULTIROLE BRIDGE COMPANY (05473R000)	159	152	108	108	108	108	108	25
SAPPER CO (ABNE) (05330R100)	1457	1460	601	601	601	601	601	96
SAPPER CO (WHEEL) (05330R200)	1460	1457	601	601	601	601	601	96
SAPPER COMPANY (RECAP) (05439R000)	1457	1460	601	601	601	601	601	96
VERTICAL CONSTRUCTION CO (05418R000)	890	893	376	376	376	376	376	48

4-19. Military Police**.** Table 4-14 depicts the kilometer square (KM^2) days per year.

Table 4-14. Military Police

Military Police								
Unit	**Yr. KM^2 days**							**Max Area**
	Light Maneuver Land FCC 17710							
	RA Prep	**RA Ready**	**RC Prep 1**	**RC Prep 2**	**RC Prep 3**	**RC Prep 4**	**RC Ready**	
CID ELEMENT (19880R000)	12	12	12	12	12	12	12	4
HHC MILITARY POLICE BATTALION DETENTION (19646R000)	12	12	12	12	12	12	12	4
HHC MP BRIGADE(19402R000)	5	5	5	5	5	5	5	8
HHC, HQ, MP CMD (19601R000)	0	0	8	8	8	8	8	12
HHD MP BATTALION (COMBAT SUPPORT) (19476R000)	57	57	57	57	57	57	57	10
HHD MP BN (CID) (19886R000)	27	27	5	5	9	5	5	6
HHD MP GRP (CID) (19882R000)	19	19	0	0	0	0	0	6
LAW & ORDER DET (19717R000)	21	24	15	15	15	15	15	6
MILITARY POLICE COMPANY (19477R000)	227	245	155	155	155	155	155	30
MILITARY POLICE COMPANY (DETENTION) (19653R000)	35	35	25	25	25	25	25	4
MILITARY POLICE GUARD COMPANY (19667R000)	0	0	25	25	25	25	25	4
MP DET CID (19888R000)	13	13	13	13	13	13	13	4
MP GBI SECURITY CO (19913R000)	0	0	7	7	7	7	7	2

4-20. Maneuver Support Center**.** Table 4-15 depicts the kilometer square (KM^2) days per year.

Table 4-15. Maneuver Enhancement Brigade

MEB								
Unit	**Yr. KM^2 days**							**Max Area**
	Heavy Maneuver Land FCC 17720							
	RA Prep	**RA Ready**	**RC Prep 1**	**RC Prep 2**	**RC Prep 3**	**RC Prep 4**	**RC Ready**	
HHC MEB	16	20	8	8	8	8	8	4

SECTION VII – SUSTAINMENT CENTER OF EXCELLENCE

4-21. Adjutant General. Table 4-16 depicts the kilometer square (KM^2) days per year.

Table 4-16. Adjutant General

AG								
Unit	Yr. KM^2 days							Max Area
	Light Maneuver Land FCC 17710							
	RA Prep	RA Ready	RC Prep 1	RC Prep 2	RC Prep 3	RC Prep 4	RC Ready	
HUMAN RESOURCES COMPANY (12410K100)	29	29	20	20	24	24	24	1

4-22. Maintenance (Except Missile). Table 4-17 depicts the kilometer square (KM^2) days per year.

Table 4-17. Maintenance (Except Missile)

MAINTENANCE								
Unit	Yr. KM^2 days							Max Area
	Light Maneuver Land FCC 17710							
	RA Prep	RA Ready	RC Prep 1	RC Prep 2	RC Prep 3	RC Prep 4	RC Ready	
COMPONENT RPR CO (RECAP) (43480F000)	0	0	32	33	44	44	44	1
FIELD MAINTENANCE CO, BSB (MEB) (43457K000)	0	0	26	27	36	35	34	1
FIELD MAINTENANCE COMPANY, BRIGADE SUPPORT BATTALION (INFANTRY BCT) (43337R000)	7	7	6	6	6	6	6	1
FLD MNT CO BSB, MNVR ENHANCEMENT BDE (43357R000)	7	7	6	6	6	6	6	1
FLD MNT CO, BDE SPT BN (ABCT) (43027K000)	71	71	26	27	36	34	34	1
FLD MNT CO, BDE SPT BN (ABNE IBCT) (43047K000)	71	71	0	0	0	0	0	1
FLD MNT CO, BDE SPT BN (IBCT) (43037K000)	71	151	26	27	36	36	36	1
FLD MNT CO, BDE SPT BN (SBCT) (43057K000)	71	71	26	27	36	36	30	1

Table 4-17. Maintenance (Except Missile) (cont.)

MAINTENANCE								
Unit	Yr. KM² days							Max Area
	Light Maneuver Land FCC 17710							
	RA Prep	RA Ready	RC Prep 1	RC Prep 2	RC Prep 3	RC Prep 4	RC Ready	
SPT MAINT CO (43433K000)	77	80	27	30	41	40	29	1
MAINTENANCE COMPANY, ADA BN (IFPC/AVENGER) (43347K000)	62	62	0	0	0	0	0	1
MAINTENANCE DETACHMENT, SHORAD BN (43307K000)	55	49	20	21	26	28	28	1
MNT CO AMD BN (PATRIOT/MEADS) (43607K000)	62	62	0	0	0	0	0	1
MAINT CO AMD COMPOSITE BN (43407K000)	62	62	0	0	0	0	0	1
SPT MAINT CO W/TMDE(43430K000)	80	80	33	30	40	40	40	1
ATS SUPPORT MAINT DETACHMENT (43713K000)	53	53	0	0	0	0	0	1

4-23. Medical. Table 4-18 depicts the kilometer square (KM²) days per year.

Table 4-18. Medical

MEDICAL								
Unit	Yr. KM² days							Max Area
	Light Maneuver Land FCC 17710							
	RA Prep	RA Ready	RC Prep 1	RC Prep 2	RC Prep 3	RC Prep 4	RC Ready	
AREA MEDICAL LABORATORY (08668A000)	13	13	0	0	0	0	0	1
AREA MEDICAL LABORATORY (08668R000)	12	12	0	0	0	0	0	1
CMBT SPT HOSP (248 BED) (08945R000)	7	14	7	7	7	7	8	1
COMBAT SUPPORT HOSPITAL (08945A000)	6	6	5	5	5	5	5	1
HHC MED BDE (08420G000)	11	11	0	0	0	0	0	1

Table 4-18. Medical (cont.)

MEDICAL								
Unit	**Yr. KM² days**							**Max Area**
	Light Maneuver Land FCC 17710							
	RA Prep	**RA Ready**	**RC Prep 1**	**RC Prep 2**	**RC Prep 3**	**RC Prep 4**	**RC Ready**	
MEDCOM (DS) (08640R0FF)	9	11	6	6	6	6	6	1
HHC MEDICAL COMMAND (08640G000)	13	14	10	10	10	10	10	1
LOGISTICS SUPPORT COMPANY (08497R000)	0	0	7	7	7	7	7	1
MED CO (AREA SPT) (08457R000)	9	10	10	10	10	10	10	1
MED CO, BCT (SBCT) (08057R000)	6	9	5	5	5	5	6	1
MED CO, BCT (SBCT) (08017R000)	6	9	5	5	5	5	6	1
MED CO, BDE SPT BN (ABCT) (08027R000)	6	9	5	5	5	5	6	1
MED CO, BSB (ABNE BCT) (08047R000)	6	9	5	5	5	5	6	1
MED CO, BSB (ABNE BCT) (08339R200)	6	9	5	5	5	5	6	1
MED CO, GROUND AMBULANCE (08453A000)	12	12	0	0	0	0	0	1
MED CO, GROUND AMBULANCE (08453R000)	11	11	6	6	6	6	6	1
MED DET COSC (08460R000)	9	9	6	6	6	6	6	1
MED DET, AREA SUPPORT (08753A000)	0	0	5	5	5	5	5	1
MED DET, BLOOD SPT (08430R000)	17	17	7	7	7	7	7	1
MED DET, PREVENTIVE MEDICINE (08429A000)	7	7	5	5	5	5	5	1
MED DET, VET MEDICINE (08423A000)	13	13	0	0	0	0	0	1
MED DET, VETERINARY SRV (08300R000)	9	10	8	8	8	8	8	1
MEDICAL BATTALION (MULTIFUNCTIONAL) (08485G000)	14	14	0	0	0	0	0	1
MEDICAL BATTALION (MULTIFUNCTIONAL) (08485R000)	8	9	6	6	6	6	6	1
MEDICAL CO, BDE SPT BN (HEAVY BCT) (08329R000)	8	9	5	5	5	5	6	1
MEDICAL CO, BDE SPT BN (IBCT) (08339R000)	10	11	7	7	7	7	8	1
MEDICAL CO, BDE SPT BN (SBCT) (08108R000)	8	9	6	6	6	6	6	1
MEDICAL CO (AREA SPT) (08457A000)	9	9	0	0	0	0	0	1

Table 4-18. Medical (cont.)

MEDICAL								
Unit	Yr. KM² days							Max Area
	Light Maneuver Land FCC 17710							
	RA Prep	RA Ready	RC Prep 1	RC Prep 2	RC Prep 3	RC Prep 4	RC Ready	
MEDICAL CO AIR AMBULANCE (15 ACFT) (08317R000)	10	10	9	9	9	9	10	1
MEDICAL DETACHMENT, COMBAT AND OPERATIONAL STRESS CONTROL (08460G000)	14	14	0	0	0	0	0	1
MEDICAL DETACHMENT, VETERNIRARY SERVICES (08440A000)	16	16	0	0	0	0	0	1
MEDICAL LOGISTICS COMPANY (08488R000)	14	19	8	8	8	8	8	1
MEDICAL LOGISTICS MANAGEMENT CENTER (08670G000)	6	6	0	0	0	0	0	1
MEDICAL LOGISTICS MANAGEMENT CENTER (08670R000)	13	15	0	0	0	0	0	1
MEDICAL TEAM, FORWARD SURGICAL (08518RA00)	8	8	6	6	6	6	6	1
MEDICAL TEAM, FORWARD SURGICAL (AIRBORNE)(08518RB00)	8	8	6	6	6	6	6	1
MEDICAL TEAM, OPTOMETRY (08567GA00)	11	12	11	11	11	11	12	1

4-24. Multifunctional Logistics. Tables 4-19, 4-20, 4-21, 4-22 depicts the kilometer square (KM²) days per year.

Table 4-19. BSB

BSB								
Unit	Yr. KM² days							Max Area
	Light Maneuver Land FCC 17710							
	RA Prep	RA Ready	RC Prep 1	RC Prep 2	RC Prep 3	RC Prep 4	RC Ready	
HHC, BDE SPT BN (ABCT) (63026K000)	35	35	6	10	18	18	18	1
BDE SPT BN (ABCT) (63025K000)	39	39	1	11	13	13	8	1

Table 4-19. BSB (cont.)

BSB								
Unit	**Yr. KM² days**							**Max Area**
	Light Maneuver Land FCC 17710							
	RA Prep	**RA Ready**	**RC Prep 1**	**RC Prep 2**	**RC Prep 3**	**RC Prep 4**	**RC Ready**	
HHC, BDE SPT BN (ABNE BCT) (63046R000)	41	41	0	0	0	0	0	1
BDE SPT BN (ABN) (63045K000)	39	39	0	0	0	0	0	1
HHC, BDE SPT BN (IBCT) (63336R000)	0	0	8	20	23	29	29	1
HHC, BDE SPT BN (IBCT) (63036K000)	41	41	8	20	23	29	29	1
BDE SPT BN (SBCT) (63035K000)	40	40	1	10	13	12	13	1
HHC, BDE SPT BN (SBCT) (63056K000)	28	28	2	19	19	19	19	1
BDE SPT BN (SBCT) (63055K000)	26	26	0	16	15	16	10	1
BDE SPT BN (SFAB) (63165K000)	10	10	0	0	0	0	0	1
HHC, BSB MNVR ENHANCEMENT BDE (63356R000)	0	0	2	20	23	28	28	1
HSC, BDE SPT BN (FIRES BDE) (63346R200)	47	47	1	11	15	17	34	1

Table 4-20 Combat Service Sustainment Battalion (CSSB)

CSSB								
Unit	**Yr. KM² days**							**Max Area**
	Light Maneuver Land FCC 17710							
	RA Prep	**RA Ready**	**RC Prep 1**	**RC Prep 2**	**RC Prep 3**	**RC Prep 4**	**RC Ready**	
FWD SPT CO, SUSTAIN BDE (SO) (A) (63868K000)	0	0	0	4	14	14	14	1
SPECIAL TROOPS BATTALION (STB), SUSTAINMENT BRIGADE (63302K000 / 63302K0FF)	84	84	20	39	31	34	48	1
SPECIAL TROOPS BATTALION (STB), THEATER SUSTAINMENT COMMAND (TSC) (63702K000 / 63702K0FF)	87	87	5	12	13	16	15	1

Table 4-20 Combat Service Sustainment Battalion (CSSB)(cont.)

CSSB								
Unit	Yr. KM² days							Max Area
	Light Maneuver Land FCC 17710							
	RA Prep	RA Ready	RC Prep 1	RC Prep 2	RC Prep 3	RC Prep 4	RC Ready	
HEADQUARTERS & HEADQUARTERS CO (HHC), EXPEDITIONARY SUSTAINMENT COMMAND (ESC) (63602K000 / 63602K100)	43	43	2	11	11	14	15	1
HHC, Combat Sustainment Support Battalion (63426K000)	62	62	5	18	15	18	27	1
HHC, SUSTAIN BDE (SO) (A) (63862K000)	0	35	0	0	0	0	0	1
HQS ARMY FLD SPT BDE (63472K000)	3	9	2	2	2	2	2	1
SPECIAL TROOPS SPT CO, SUSTAIN BDE (SO) (A) (63867K000)	0	0	15	15	15	16	15	1

Table 4-21 FSC

Forward Support Company								
Unit	Yr. KM² days							Max Area
	Light Maneuver Land FCC 17710							
	RA Prep	RA Ready	RC Prep 1	RC Prep 2	RC Prep 3	RC Prep 4	RC Ready	
FORWARD SPT CO, AH-64 (63217K000)	31	31	0	0	0	0	0	1
FORWARD SPT CO, ASSAULT BN (63217K300)	31	31	6	15	17	17	15	1
FORWARD SPT CO, GSAB (63417K200)	0	0	3	14	14	14	13	1
FORWARD SPT CO, GSAB (63217K400)	25	26	3	16	16	17	18	1

Table 4-21 FSC (cont.)

Forward Support Company								
Unit	**Yr. KM² days**							**Max Area**
	Light Maneuver Land FCC 17710							
	RA Prep	**RA Ready**	**RC Prep 1**	**RC Prep 2**	**RC Prep 3**	**RC Prep 4**	**RC Ready**	
FORWARD SPT CO, GSAB W / ATS (1X15 MED) (63217K600)	28	28	3	12	18	18	18	1
FORWARD SUPPORT CO (COMBINED ARMS) BSB (ABCT) (63027K600)	28	28	4	13	19	19	19	1
FORWARD SUPPORT COMPANY (FA), BSB (ABCT) (63027K400)	28	28	4	13	19	19	19	1
FORWARD SUPPORT COMPANY (RECON SQDN), BSB (ABCT) (63027K000)	28	28	4	13	19	19	19	1
FORWARD SUPPORT COMPANY, 155 TOWED (3X4), (FIRES BDE) (63467K000)	28	28	4	13	19	19	19	1
FSC, EN BN (63357R000)	28	28	4	13	19	19	19	1
FSC, EN BN (63357R100)	28	28	4	13	19	19	19	1
FSC, EN BN (ABN) (63357R200)	28	28	4	13	19	19	19	1
FWD SPT CO (BEB) BSB (ABNE BCT) (63047K200)	27	27	0	0	0	0	0	1
FWD SPT CO (BEB), BSB (ABCT) (63027K200)	28	28	4	13	19	19	19	1
FWD SPT CO (BEB), BSB (SBCT) (63057K200)	28	28	0	13	19	19	19	1
FWD SPT CO (BEB), BSB, (IBCT) (63037K200)	28	28	0	13	19	19	19	1
FWD SPT CO (CAV SQDN), BSB (ABCT) (63027R000)	28	28	4	13	19	19	19	1
FWD SPT CO (CAV SQDN), BSB (SBCT) (63057K000)	28	28	0	13	19	19	19	1
FWD SPT CO (COMBINED ARMS) BSB (ABCT) (63027K800)	28	28	4	13	19	19	19	1
FWD SPT CO (COMBINED ARMS), BSB (ABCT) (63027K600)	18	18	0	10	10	10	10	1
FWD SPT CO (FA) BSB, (ABNE BCT) (63047K400)	20	20	0	0	0	0	0	1
FWD SPT CO (FA) BSB, (INF BCT) (63337R400)	21	21	0	15	15	17	16	1

Table 4-21 FSC (cont.)

Forward Support Company								
Unit	**Yr. KM² days**							**Max Area**
	Light Maneuver Land FCC 17710							
	RA Prep	**RA Ready**	**RC Prep 1**	**RC Prep 2**	**RC Prep 3**	**RC Prep 4**	**RC Ready**	
FWD SPT CO (FA) BSB, (INF BCT) (63037K400)	18	18	0	9	11	10	11	1
FWD SPT CO (FA), BSB (ABCT) (63027K400)	19	19	0	11	11	11	11	1
FWD SPT CO (FA), BSB, (SBCT) (63057K400)	18	18	0	10	10	10	10	1
FWD SPT CO (INF) BSB, (ABNE BCT) (63047K600)	18	18	0	13	13	13	13	1
FWD SPT CO (INF) BSB, (INF BCT) (63037K600)	18	18	0	9	11	10	11	1
FWD SPT CO (RECON) (INF BCT) (63337R200)	0	0	0	10	11	15	14	1
FWD SPT CO (INF), BSB, (SBCT) (63057K600)	18	18	0	10	10	10	10	1
FWD SPT CO (RECON) (ABNE BCT) (63047K000)	18	18	0	0	0	0	0	1
FWD SPT CO (RECON) (INF BCT) (63337R000)	19	19	0	10	11	15	14	1
FWD SPT CO, 155 SP (3X4), (FIRES BDE (63347R100)	0	0	0	14	14	14	15	1
FWD SPT CO, 155 SP (3X4), (FIRES BDE) (63437K000)	19	19	0	11	11	11	14	1
FWD SPT CO, 155 TOWED (3X4), (FIRES BDE) (63347R300)	19	19	0	14	14	14	15	1
FWD SPT CO, HIMARS (2X8), (FIRES BDE) (63347R200)	19	19	0	9	11	11	11	1
FWD SPT CO, MLRS (2X8), (FIRES BDE) (63347R000)	19	19	0	9	11	11	11	1
FWD SPT CO, MLRS (2X8), (FIRES BDE) (63407K000)	19	19	0	9	11	11	11	1
FWD SPT CO, SUSTAIN BDE (SO) (A) (63868R000)	0	0	0	16	17	16	18	1
SPT CO (TASMG) (63637G000)	0	0	0	9	11	11	11	1

Table 4-22 Distribution Company

DISTRIBUTION COMPANY								
Unit	**Yr. KM² days**							**Max Area**
	Light Maneuver Land FCC 17710							
	RA Prep	**RA Ready**	**RC Prep 1**	**RC Prep 2**	**RC Prep 3**	**RC Prep 4**	**RC Ready**	
DIST CO BSB MNVR ENHANCEMENT BDE (BSB MEB) (63358R000)	0	0	0	14	16	16	16	1
DISTRIBUTION CO (ASB) (63318R200)	33	33	2	17	17	17	19	1
DISTRIBUTION CO (ASB) (63318K000)	30	30	0	0	0	0	0	1
DISTRIBUTION CO (ASB) (GS) (63418K100)	0	0	1	17	17	17	17	1
DISTRIBUTION CO, BDE SPT BN (ABNE BCT) (63048K000)	30	30	0	0	0	0	0	1
DISTRIBUTION CO, BDE SPT BN (INF BCT) (63038K000)	28	28	2	14	14	14	17	1
DISTRIBUTION CO, BSB (ABCT) (63028K000)	29	29	0	15	15	15	16	1
DISTRIBUTION CO, BSB (SBCT) (63058K000)	30	30	0	17	17	17	17	1
DISTRIBUTION CO (ASB) (ASLT) (63418K000)	0	0	0	16	18	18	18	1
FORWARD SPT CO, AH-64 (63217K000)	9	9	6	8	8	8	6	1
FORWARD SPT CO, ASSAULT BN (63217K300)	9	9	6	8	8	8	6	1
FORWARD SPT CO, GSAB (63417K200)	0	0	6	6	6	6	6	1
FORWARD SPT CO, GSAB (63217K400)	7	7	6	6	6	6	6	1
FORWARD SPT CO, GSAB W / ATS (1X15 MED) (63217K600)	7	7	6	6	6	6	6	1
FORWARD SUPPORT CO (COMBINED ARMS) BSB (ABCT) (63027K600)	7	7	6	6	6	6	6	1
FORWARD SUPPORT COMPANY (FA), BSB (ABCT) (63027K400)	7	7	6	6	6	6	6	1
FORWARD SUPPORT COMPANY (RECON SQDN), BSB (ABCT) (63027K000)	7	7	6	6	6	6	6	1
FORWARD SUPPORT COMPANY, 155 TOWED (3X4), (FIRES BDE) (63467K000)	7	7	6	6	6	6	6	1
FORWARD SUPPORT TROOP, ATTACK/RECON SQUADRON (OH-58D/RQ-7) (63217K200)	7	7	6	6	6	6	6	1

Table 4-22 Distribution Company (cont.)

DISTRIBUTION COMPANY								
Unit	**Yr. KM² days**							**Max Area**
	Light Maneuver Land FCC 17710							
	RA Prep	**RA Ready**	**RC Prep 1**	**RC Prep 2**	**RC Prep 3**	**RC Prep 4**	**RC Ready**	
FSC, EN BN (63357R000)	5	5	5	5	5	5	5	1
FSC, EN BN (63357R100)	7	7	6	6	6	6	6	1
FSC, EN BN (ABN) (63357R200)	6	6	6	6	6	6	6	1
FWD SPT CO (BEB) BSB (ABNE BCT) (63047K200)	7	7	0	0	0	0	0	1
FWD SPT CO (BEB), BSB (ABCT) (63027K200)	7	7	6	6	6	6	6	1
FWD SPT CO (BEB), BSB (SBCT) (63057K200)	7	7	6	6	6	6	6	1
FWD SPT CO (BEB), BSB, (IBCT) (63037K200)	7	7	0	2	2	6	4	1
FWD SPT CO (CAV SQDN), BSB (ABCT) (63027R000)	7	7	0	6	6	6	5	1
FWD SPT CO (CAV SQDN), BSB (SBCT) (63057K000)	7	7	0	6	6	6	3	1
FWD SPT CO (COMBINED ARMS) BSB (ABCT) (63027K800)	0	0	0	6	6	6	3	1
FWD SPT CO (COMBINED ARMS), BSB (ABCT) (63027K600)	7	7	0	6	6	6	3	1
FWD SPT CO (FA) BSB, (ABNE BCT) (63047K400)	7	7	0	0	0	0	0	1
FWD SPT CO (FA) BSB, (INF BCT) (63337R400)	6	7	2	4	5	6	4	1
FWD SPT CO (FA) BSB, (INF BCT) (63037K400)	6	6	0	5	5	5	4	1
FWD SPT CO (FA), BSB (ABCT) (63027K400)	7	7	5	5	5	5	5	1
FWD SPT CO (FA), BSB, (SBCT) (63057K400)	7	7	6	6	6	6	6	1
FWD SPT CO (INF) BSB, (ABNE BCT) (63047K600)	7	7	0	0	0	0	0	1
FWD SPT CO (INF) BSB, (INF BCT) (63037R600)	7	7	7	7	7	7	7	1

Table 4-22 Distribution Company (cont.)

DISTRIBUTION COMPANY								
Unit	**Yr. KM² days**							**Max Area**
	Light Maneuver Land FCC 17710							
	RA Prep	**RA Ready**	**RC Prep 1**	**RC Prep 2**	**RC Prep 3**	**RC Prep 4**	**RC Ready**	
FWD SPT CO (RECON) (INF BCT) (63337R200)	7	7	7	7	7	7	7	1
FWD SPT CO (INF), BSB, (SBCT) (63057K600)	7	7	3	6	6	6	4	1
FWD SPT CO (RECON) (ABNE BCT) (63047K000)	7	7	0	0	0	0	0	1
FWD SPT CO (RECON) (INF BCT) (63337R000)	7	7	0	7	7	7	7	1
FWD SPT CO, 155 SP (3X4), (FIRES BDE (63347R100)	0	0	0	6	6	6	6	1
FWD SPT CO, 155 SP (3X4), (FIRES BDE) (63437K000)	0	0	0	6	6	6	4	1
FWD SPT CO, 155 TOWED (3X4), (FIRES BDE) (63347R300)	7	7	0	6	6	6	3	1
FWD SPT CO, HIMARS (2X8), (FIRES BDE) (63347R200)	7	7	0	6	6	6	3	1
FWD SPT CO, MLRS (2X8), (FIRES BDE) (63347R000)	6	6	0	6	6	6	6	1
FWD SPT CO, MLRS (2X8), (FIRES BDE) (63407K000)	6	6	0	6	6	6	6	1
FWD SPT CO, SUSTAIN BDE (SO) (A) (63868R000)	0	0	0	0	0	0	6	1
SUSTAINMENT BRIGADE (63302R0FF)	8	8	0	7	7	7	7	1
HHC, THEATER SUSTAINMENT COMMAND (TSC) (63702R0FF)	8	8	7	7	7	7	7	1
HHC, BDE SPT BN (ABCT) (63026K000)	8	8	0	7	7	7	0	1
HHC, BDE SPT BN (ABCT) (63325R000)	8	8	0	7	7	7	2	1
HHC, BDE SPT BN (ABNE BCT) (63046R000)	8	8	0	0	0	0	0	1
HHC, BDE SPT BN (IBCT) (63336R000)	0	0	0	7	8	10	10	1
HHC, BDE SPT BN (IBCT) (63036K000)	8	8	0	7	7	7	2	1
HHC, BDE SPT BN (IBCT) (63336R000)	8	8	0	7	7	7	2	1
HHC, BDE SPT BN (SBCT) (63056K000)	8	8	0	7	7	7	2	1

Table 4-22 Distribution Company (cont.)

DISTRIBUTION COMPANY								
Unit	**Yr. KM² days**							**Max Area**
	Light Maneuver Land FCC 17710							
	RA Prep	**RA Ready**	**RC Prep 1**	**RC Prep 2**	**RC Prep 3**	**RC Prep 4**	**RC Ready**	
HHC, BSB MNVR ENHANCEMENT BDE (63356R000)	0	0	4	7	7	7	7	1
HHC, BSB MNVR ENHANCEMENT BDE (BSB MEB) (63356R000)	8	8	7	7	7	7	7	1
HHC, Combat Sustainment Support Battalion (63426K000)	8	8	7	7	7	7	7	1
EXPEDITIONARY SUSTAINMENT CMD (63702R1FF)	6	6	5	5	5	5	5	1
HHC, SUSTAIN BDE (SO) (A) (63862R000)	8	0	0	0	0	0	0	1
HQ & SPT CO (63316R200)	18	18	12	12	12	12	12	1
HQS ARMY FLD SPT BDE (90872R000)	8	8	7	7	7	7	7	1
HSC, BDE SPT BN (FIRES BDE) (63346R200)	14	19	13	13	13	13	8	1
SPECIAL TROOPS SPT CO, SUSTAIN BDE (SO) (A) (63867R000)	0	0	7	7	7	7	4	1
SPECIAL TROOPS SPT CO, SUSTAIN BDE (SO) (A) (63867R000)	0	0	8	0	0	0	5	1
SPT CO (TASMG) (63637G000)	0	0	6	6	6	6	5	1

4-25. Music. Table 4-23 depicts the kilometer square (KM^2) days per year.

Table 4-23. Music

MUSIC								
Unit	Yr. KM^2 days							Max Area
	Light Maneuver Land FCC 17710							
	RA Prep	RA Ready	RC Prep 1	RC Prep 2	RC Prep 3	RC Prep 4	RC Ready	
OPERATING FORCE MUSIC PERFORMANCE UNIT (02740K000) (02110G000)	5	3	0	3	3	3	3	1
GENERATING FORCE MUSIC PERFORMANCE UNIT (02750K000) (02110G100) (02110G100) (02703K000) (02713K000) (02723K000)	3	2	1	2	2	2	2	1

4-26. Ordnance. Tables 4-24 and 4-25 depicts the kilometer square (KM^2) days per year.

Table 4-24. Ordnance (Missiles/Munitions)

ORDNANCE (MISSILES AND MUNITIONS)								
Unit	Yr. KM^2 days							Max Area
	Light Maneuver Land FCC 17710							
	RA Prep	RA Ready	RC Prep 1	RC Prep 2	RC Prep 3	RC Prep 4	RC Ready	
HHD, ORDANCE BN (Ammunition) DS/GS (09666R000)	0	0	17	45	54	55	54	1
MODULAR AMMUNITION ORDANCE CO (09410K000)	52	36	21	34	27	35	34	1
ORD CO (AMMO) (WHNS) (09973K000)	38	38	0	0	0	0	0	1
ORD BN (AMMO) (WHNS) (09976K000)	110	110	0	0	0	0	0	1

Table 4-25. Ordnance

ORDNANCE								
Unit	Yr. KM² days							Max Area
	Light Maneuver Land FCC 17710							
	RA Prep	RA Ready	RC Prep 1	RC Prep 2	RC Prep 3	RC Prep 4	RC Ready	
EXPLOSIVE ORDNANCE DISPOSAL, (EOD) COMPANY Weapons of Mass Destruction (WMD) Company (09747R000)	22	14	0	0	0	0	0	1
HHD, ORDANCE BN (EOD) (09446R000/09436K000)	53	53	6	27	27	27	35	1
ORD GRP (EOD) (09627R0FF/09632K0FF)	44	29	0	9	9	9	20	1
ORD CO (EOD) (CONUS SPT) (09647R000/09843K000)	0	24	0	0	0	0	0	1
ORD CO EOD RECAP (09430K000))	37	27	2	26	26	26	28	1
ORD CO(EOD) RECAP (09440K000)	40	31	0	28	28	28	30	1
Ordnance Company, EOD (ABN) (RECAP) (09450K000)	43	28	0	0	0	0	0	1
HHD ORD GRP (EOD) (09627R000/09632K000)	70	68	1	23	23	23	24	1

4-27. Public Affairs. Table 4-26 depicts the kilometer square (KM²) days per year.

Table 4-26. Public Affairs

PUBLIC AFFAIRS								
Unit	Yr. KM² days							Max Area
	Light Maneuver Land FCC 17710							
	RA Prep	RA Ready	RC Prep 1	RC Prep 2	RC Prep 3	RC Prep 4	RC Ready	
BROADCAST PUBLIC AFF DET (45607L000)	4	6	4	4	4	4	4	1
MOBILE PUBLIC AFF DET (45413L000)	4	5	3	3	3	3	3	1
PRESS CAMP HQ (45423L100)	4	6	4	4	4	4	4	1
PRESS CAMP HQ (45423L000)	7	9	7	7	7	7	7	1

4-28. Quartermaster. Table 4-27 depicts the kilometer square (KM^2) days per year.

Table 4-27. Quartermaster

Quartermaster								
Unit	Yr. KM^2 days							Max Area
	Light Maneuver Land FCC 17710							
	RA Prep	RA Ready	RC Prep 1	RC Prep 2	RC Prep 3	RC Prep 4	RC Ready	
QUARTERMASTER BRIGADE AERIAL DELIVERY SUPPORT COMPANY (10233K000)	156	156	48	61	113	127	127	6
QUARTERMASTER DIVISIONAL AERIAL DELIVERY COMPANY (10283K000)	145	145	0	0	0	0	0	6
QUARTERMASTER DIVISION PERSONNEL PACK COMPANY (10333K000)	142	142	0	0	0	0	0	6
QUARTERMASTER FORCE PROVIDER COMPANY (10400K000)	0	0	54	68	127	141	141	7
QUARTERMASTER PETROLEUM PIPEPINE & TERMINAL OPERATING COMPANY (10417K000)	0	0	26	26	26	26	26	8
QUARTERMASTER PETROLEUM SUPPORT COMPANY (10420K000)	102	102	35	41	73	73	73	6
QUARTERMASTER PETROLEUM SUPPORT COMPANY W/ASSAULT HOSELINE TEAM (10420K100)	160	160	67	70	137	134	137	10
QUARTERMASTER CORPS AERIAL DELIVERY COMPANY (10433K000)	144	144	55	61	113	113	113	6
QUARTERMASTER FIELD SERVICES COMPANY (10447K000)	104	104	38	38	81	73	81	9
QUARTERMASTER FIELD FEEDING COMPANY (10450K000)	104	104	0	0	0	0	0	9
QUARTERMASTER WATER SUPPORT COMPANY (10460K000)	87	87	32	32	70	61	70	6
QUARTERMASTER SUPPLY COMPANY (10470K000)	157	157	0	0	0	0	0	7
QUARTERMASTER SUPPLY COMPANY (10470K100)	0	0	60	60	129	117	129	7
QUARTERMASTER COMPOSITE SUPPLY COMPANY (10473K000)	160	160	62	62	133	121	133	7
QUARTERMASTER MORTUARY AFFAIRS COMPANY (10490K000)	78	78	30	30	63	57	63	3

Table 4-27. Quartermaster (cont.)

Quartermaster								
Unit	Yr. KM² days							Max Area
	Light Maneuver Land FCC 17710							
	RA Prep	RA Ready	RC Prep 1	RC Prep 2	RC Prep 3	RC Prep 4	RC Ready	
QUARTERMASTER THEATER PETROLEUM LABORATORY TEAM (10527KB00)	18	18	7	7	14	13	14	0.5
QUARTERMASTER PETROLEUM LIAISON TEAM (10527KM00)	18	18	7	8	13	13	13	0.5
QUARTERMASTER THEATER PETROLEUM CENTER (10527KN00)	18	18	0	0	0	0	0	0.5
QUARTERMASTER WATER DISTRIBUTION TEAM (10567KG00)	0	0	48	48	102	93	102	6
QUARTERMASTER RIGGER SUPPORT TEAM (10587KA00)	0	0	7	8	13	13	13	0.5
QUARTERMASTER PETROLEUM GROUP HHC (10622K000)	0	0	6	27	48	71	74	6
QUARTERMASTER PETROLEUM GROUP (10622K000)	0	0	3	14	21	21	21	1
QUARTERMASTER CLASSIFICATION AND INSPECTION COMPANY (10773K000)	0	0	72	79	148	148	148	8
QUARTERMASTER PETROLEUM SUPPORT BATTALION HHC (10926K000)	94	94	3	27	48	71	74	6
QUARTERMASTER PETROLEUM SUPPORT BATTALION (10926K000)	94	94	1	31	59	55	59	5

4-29. Transportation. Table 4-28 depicts the kilometer square (KM²) days per year.

Table 4-28. Transportation

Transportation								
Unit	Yr. KM² days							Max Area
	Light Maneuver Land FCC 17710							
	RA Prep	RA Ready	RC Prep 1	RC Prep 2	RC Prep 3	RC Prep 4	RC Ready	
HARBORMASTER DET (55763K000)	29	29	8	17	17	20	19	1

Table 4-28. Transportation (cont.)

Transportation								
Unit	**Yr. KM² days**							**Max Area**
	Light Maneuver Land FCC 17710							
	RA Prep	**RA Ready**	**RC Prep 1**	**RC Prep 2**	**RC Prep 3**	**RC Prep 4**	**RC Ready**	
EXPEDITIONARY RAILWAY CENTER (55609K000)	0	0	3	18	18	21	20	1
HHD, TRANS TERMINAL BN (55816K000)	56	76	1	35	35	42	34	1
TRAN BDE (EXPEDITIONARY) (55812K100)	39	39	2	17	17	21	19	1
SEAPORT OPERATIONS COMPANY (55733K000)	36	36	6	17	20	26	26	1
WATERCRAFT FIELD MAINTENANCE COMPANY (55820K000)	29	29	6	12	15	21	21	1
TRANSPORTATION COMPOSITE TRUCK COMPANY (LIGHT) (55423K000)	53	53	2	25	29	35	35	1
RAPID PORT OPENING ELEMENT (55507K000)	38	38	0	0	0	0	0	1
THEATER MOVEMENT CONTROL ELEMENT (TMCE) (55509K000)	0	0	4	20	22	26	26	1
HHD TRANSPORTATION TERMINAL BN (55706K000)	57	67	4	34	36	44	37	1
TRANSPORTATION COMPOSITE TRUCK COMPANY (HEAVY) (55433K000)	28	28	0	0	0	0	0	1
MOVEMENT CONTROL TEAM (55508KA00)	38	38	10	21	22	21	22	1
TRAILER TRANSFER POINT TEAM (55559KA00)	0	0	10	22	22	23	23	1

SECTION VIII – U.S. ARMY SPECIAL OPERATIONS COMMAND

4-30. Civil Affairs. Table 4-29 depicts the kilometer square (KM^2) days per year.

Table 4-29. Civil Affairs

Civil Affairs								
Unit	Yr. KM^2 days							Max Area
	Light Maneuver Land FCC 17710							
	RA Prep	RA Ready	RC Prep 1	RC Prep 2	RC Prep 3	RC Prep 4	RC Ready	
CA CO (CA BN) (ABN) (USAR) (41737G600)	0	0	350	350	350	350	415	10
CIVIL AFFAIRS BRIGADE (CF) (41730G1FF)	64	64	0	0	0	0	0	20
CIVIL AFFAIRS CO (USAR) (41750G000)	0	0	350	350	350	350	415	10
CIVIL AFFAIRS COMMAND (USAR) (41710G0FF)	0	0	100	100	100	100	100	30
CIVIL AFFAIRS COMPANY (CF) (41750G100)	324	389	0	0	0	0	0	10
HHC, CA Bn (USAR) (41740G000)	0	0	34	34	34	34	34	10
HHC, CIVIL AFFAIRS BATTALION (CF) (41740G100)	55	55	0	0	0	0	0	15
HHC, CIVIL AFFAIRS BDE (ABN) (41702G600)	90	90	0	0	0	0	0	20
HHC, CIVIL AFFAIRS BN (ABN) (41736G600)	45	45	0	0	0	0	0	15

4-31. Military Information Support Operations. Table 4-30 depicts the kilometer square (KM^2) days per year.

Table 4-30. Military Information Support Operations

Psy Ops								
Unit	Yr. KM^2 days							Max Area
	Light Maneuver Land FCC 17710							
	RA Prep	RA Ready	RC Prep 1	RC Prep 2	RC Prep 3	RC Prep 4	RC Ready	
H&S CO, MIS BN (33726G000)	37	37	0	0	0	0	0	2

Table 4-30. Military Information Support Operations (cont.)

Psy Ops								
Unit	Yr. KM² days							Max Area
	Light Maneuver Land FCC 17710							
	RA Prep	RA Ready	RC Prep 1	RC Prep 2	RC Prep 3	RC Prep 4	RC Ready	
H&S CO, PSYOP BN (USAR)(33736G100)	0	0	428	428	428	428	428	8
HHC, MIS GROUP (33712G200)	9	9	0	0	0	0	0	1
HHC, MIS GROUP (USAR) (33712G100)	0	0	120	120	120	120	120	12
HSC, TACTICAL MIS BN (33716G000)	0	0	0	0	0	0	0	0
REGIONAL MIS COMPANY	74	74	0	0	0	0	0	1
TAC MIS COMPANY (33737G000)	122	122	0	0	0	0	0	12
TAC MIS COMPANY USAR (33737G100)	0	0	1683	1683	1683	1683	1683	1

4-32. Ranger. Table 4-31 depicts the kilometer square (KM^2) days per year.

Table 4-31. Ranger

Ranger								
Unit	Yr. KM² days							Max Area
	Light Maneuver Land FCC 17710							
	RA Prep	RA Ready	RC Prep 1	RC Prep 2	RC Prep 3	RC Prep 4	RC Ready	
HHC, RANGER BATTALION (07816G100)	153	641	0	0	0	0	0	61
HHC, RANGER REGIMENT (07802G100)	7	79	0	0	0	0	0	61
HHC, REGIMENT SPECIAL TROOPS BATTALION (07806G100)	0	169	0	0	0	0	0	64
Ranger Support Company (07818G100)	2	30	0	0	0	0	0	22
RGMTAL RECONNAISSANCE CO (07807G100)	168	1437	3	3	3	3	3	160
RIFLE CO, RANGER BN (07817G100)	140	541	20	20	20	20	20	61

4-33. Special Forces. Table 4-32 depicts the kilometer square (KM^2) days per year.

Table 4-32. Special Forces

Special Forces								
Unit	Yr. KM^2 days							Max Area
	Light Maneuver Land FCC 17710							
	RA Prep	RA Ready	RC Prep 1	RC Prep 2	RC Prep 3	RC Prep 4	RC Ready	
GP SPT CO, SF GP SPT BN (31827G000)	0	464	0	0	0	0	0	60
Gp Spt Co, SF Gp Spt Bn (31827G100)	0	464	0	0	0	0	0	60
GP SVC SPT CO, SF GP SPT BN (31828G000)	50	55	0	0	0	0	0	24
GP SVC SPT CO, SF GP SPT BN (31828G100)	50	55	0	0	0	0	0	24
HHC, SF GPS (ABN) (AC ONLY) (31812G000)	0	10	0	0	0	0	0	4
HHC, SF GPS (ABN)(AC ONLY) (31812G200)	10	17	0	0	0	0	0	11
HHC, SF GPS (ABN)(NG ONLY) (31812G300)	10	17	0	0	0	0	0	11
HQ DET, SF BN (C DET) (31816G000)	0	12	0	0	0	0	5	4
HQ DET, SF BN (C DET) (31816G100)	3	4	2	2	2	2	2	4
HQ DET, SF GP SPT BN (31826G000)	0	9	0	0	0	0	0	4
HQ DET, SF GP SPT BN (31826G100)	0	9	0	0	0	0	0	4
SF CO (EXP), SF BN (EXP) (ABN) (31817G500)	1005	1627	0	0	0	0	0	150
SF CO (EXPANDED), SF BN (EXPANDED) (ABN) (31817G100)	0	1130	0	0	0	0	0	150
SF Co (MOB)(EXP), SF BN (MOB)(EXP)(ABN) (31817G700)	1215	1990	0	0	0	0	0	150
SF Co (MOB), SF BN (MOB) (ABN) (31817G600)	1215	1990	0	0	0	0	0	150
SF CO (MOBILE)(EXPANDED), SF BN (MOBILE)(EXPANDED)(ABN) (31817G300)	0	2537	0	0	0	0	0	150
SF CO (MOBILE), SF BN (MOBILE) (ABN) (31817G200)	0	2584	0	0	0	0	0	150
SF CO, SF BN (ABN) (31817G000)	0	2584	0	0	0	0	0	150
SF CO, SF BN (ABN) (31817G400)	1030	1692	94	94	94	94	94	150
SPT CO, SF BN (ABN) (31818G200)	12	14	6	6	6	6	6	4

Table 4-32. Special Forces (cont.)

Special Forces								
Unit	Yr. KM² days							Max Area
	Light Maneuver Land FCC 17710							
	RA Prep	RA Ready	RC Prep 1	RC Prep 2	RC Prep 3	RC Prep 4	RC Ready	
SPT CO, SF GP (ABN) (31813G100)	3	3	19	19	19	19	19	4
SUPPORT CO (MOBILE), SF BN (MOBILE) (ABN) (31818G100)	8	32	4	4	4	4	10	4
SUPPORT CO, SF BN (ABN) (31818G000)	8	32	4	4	4	4	10	4

SECTION IX – Combat Training Centers

4-34. Combat Training Center (CTC). Table 4-33 depicts the kilometer square (KM²) days per brigade size unit training event.

Table 4-33. Combat Training Centers

Location	Training Days per unit	Acres per unit rotation	KM² per unit rotation
Joint Readiness Training Center	25	**100587 (FCC 17710)** **40388 (FCC 17720)**	**407 (FCC 17710)** **164 (FCC 17720)**
Joint Multinational Training Center	**21**	**34945 (FCC 17720)**	**141 (FC 17720)**
National Training Center	**17**	**449014(FCC 17720)**	**1817 (FCC 17720)**

Appendix A

Acceptable Landscape Conditions: Maneuver Training Areas and Associated Training Features

A-1. Appendix A details acceptable land conditions for dismounted, wheeled, tracked, and aviation training on maneuver areas and associated maneuver area training features. (Acceptable landscape conditions for airborne operations conducted on drop zones are also included.) Land condition criterion were derived through collaboration with the Centers of Excellence, Master Gunners, (ground and aviation), as well as the Land Rehabilitation and Maintenance (LRAM) and Range and Training Land Assessment (RTLA) Working Group.

A-2. Below are descriptions of each land condition column in Table A-1 (Page A-2).

- Slope - Describe acceptable slope conditions. Where possible, use quantifiable data (% slope, degrees slope, etc.).
- Ground Cover/Grasses (Height or Percent Cover) - Describe acceptable ground cover/grass coverage in height or percentage.
- Understory Thickness - Describe acceptable line of sight thresholds in meters.
- Tree Spacing - Describe acceptable tree spacing thresholds in meters.
- Surface Water - Describe acceptable percentage of surface water conditions. Water is defined as lakes, rivers, creeks, ponds. (For tactical use and movement trails, condition standards are factored to allow for Low Water Crossings (LWCs)).
- Swamps/Marshland - Describe acceptable percentage of marshland and swamp conditions.
- Surface Conditions - Describe acceptable percentage of uneven/rough terrain features. Uneven/rough terrain features are classified as: safely traversable naturally occurring obstacles such as ditches, rills, ruts, stumps, logs, gravel beds, and mud holes. Large, deep gullies and ravines are excluded due to safety hazards.
- Degraded visibility - Describe acceptable sand/dust conditions. Snow conditions must also be considered when appropriate.

Table A-1. Acceptable Landscape Conditions

Go / No Go >	Slope	Ground Cover/Grasses (Height or Percent Cover)	Understory Thickness	Tree Spacing	Surface Water	Swamps/ Marshland	Surface Conditions	Degraded visibility
Maneuver Area								
Dismounted	NA	3 Feet Maximum Height	50 Meter Minimum	3 Meter Spacing Minimum	< 25%	< 15%	50% Maximum	NA/Only Mitigate for Safety
Wheeled Vehicle	< 40% Climb < 30% Side Slope	4 Feet Maximum Height	50 Meter Minimum	15 Meter Spacing Minimum	< 10%	< 10%	25% Maximum	NA/Only Mitigate for Safety
Tracked Vehicle	< 60% Climb < 30% Side Slope	5 Feet Maximum Height	50 Meter Minimum	20 Meter Spacing Minimum	< 10%	< 10%	25% Maximum	NA/Only Mitigate for Safety
Aviation	NA	NA	NA	NA	NA	NA	NA	Dust Required Only for Brown Out Conditions.

Go / No Go >	Slope	Ground Cover/Grasses (Height or Percent Cover)	Understory Thickness	Tree Spacing	Surface Water	Swamps/ Marshland	Surface Conditions	Degraded visibility
Tactical Assembly/ Bivouac								
Dismounted	NA	3 Feet Maximum Height	50 Meter Minimum	3 Meter Spacing Minimum	0%	0%	30% Maximum	NA/Only Mitigate for Safety
Wheeled Vehicle	< 40% Climb < 30% Side Slope	4 Feet Maximum Height	50 Meter Minimum	20 Meter Spacing Minimum	0%	0%	15% Maximum	NA/Only Mitigate for Safety
Tracked Vehicle	< 60% Climb < 30% Side Slope	5 Feet Maximum Height	50 Meter Minimum	25 Meter Spacing Minimum	0%	0%	15% Maximum	NA/Only Mitigate for Safety
Aviation	< 5 Degrees or < 8.75 % Slope	2 Feet Maximum Height	100 Meter Minimum	150 Meter Spacing Minimum	0%	0%	10% Maximum	NA/Only Mitigate for Safety

Table A-1. Acceptable Landscape Conditions (cont.)

Go / No Go >	Slope	Ground Cover/Grasses (Height or Percent Cover)	Understory Thickness	Tree Spacing	Surface Water	Swamps/ Marshland	Surface Conditions	Degraded visibility
Landing Zones/ Pickup Zones								
Dismounted	NA	3 Feet Maximum Height	50 Meter Minimum	25 Meter Spacing Minimum	< 25%	< 10%	30% Maximum	NA/Only Mitigate for Safety
Wheeled Vehicle	NA	4 Feet Maximum Height	50 Meter Minimum	50 Meter Spacing Minimum	< 10%	< 5%	15 Maximum	NA/Only Mitigate for Safety
Tracked Vehicle	NA	5 Feet Maximum Height	50 Meter Minimum	50 Meter Spacing Minimum	NA	NA	15% Maximum	NA/Only Mitigate for Safety
Aviation	< 5 Degrees or < 8.75% Slope	2 Feet Maximum Height	100 Meter Minimum	200 Meter Spacing Minimum	< 10%	< 5%	10% Maximum	Dust Required Only for Brown Out Conditions.

Go / No Go >	Slope	Ground Cover/Grasses (Height or Percent Cover)	Understory Thickness	Tree Spacing	Surface Water	Swamps/ Marshland	Surface Conditions	Degraded visibility
Artillery Firing Points								
Dismounted	NA	2 Feet Maximum Height	50 Meter Minimum	200 Meter Spacing Minimum	0%	0%	10% Maximum	NA/Only Mitigate for Safety
Wheeled Vehicle (Towed)	< 40% Climb < 30% Side Slope	2 Feet Maximum Height	50 Meter Minimum	200 Meter Spacing Minimum	0%	0%	10% Maximum	NA/Only Mitigate for Safety
Tracked Vehicle (Self Propelled)	< 60% Climb < 30% Side Slope	2 Feet Maximum Height	50 Meter Minimum	200 Meter Spacing Minimum	0%	0%	10% Maximum	NA/Only Mitigate for Safety
Aviation	NA	NA	NA	NA	NA	NA	NA	NA/Only Mitigate for Safety

Table A-1. Acceptable Landscape Conditions (cont.)

Go / No Go >	Slope	Ground Cover/Grasses (Height or Percent Cover)	Understory Thickness	Tree Spacing	Surface Water	Swamps/ Marshland	Surface Conditions	Degraded visibility
Mortar Firing Points								
Dismounted	NA	1 Foot Maximum Height	50 Meter Minimum	200 Meter Spacing Minimum	0%	0%	10% Maximum	NA/Only Mitigate for Safety
Wheeled Vehicle	< 40% Climb < 30% Side Slope	2 Feet Maximum Height	50 Meter Minimum	200 Meter Spacing Minimum	0%	0%	10% Maximum	NA/Only Mitigate for Safety
Tracked Vehicle	< 60% Climb < 30% Side Slope	2 Feet Maximum Height	50 Meter Minimum	200 Meter Spacing Minimum	0%	0%	10% Maximum	NA/Only Mitigate for Safety
Aviation	NA	NA	NA	NA	NA	NA	NA	NA/Only Mitigate for Safety

Go / No Go >	Slope	Ground Cover/Grasses (Height or Percent Cover)	Understory Thickness	Tree Spacing	Surface Water	Swamps/ Marshland	Surface Conditions	Degraded visibility
Observation Points								
Dismounted	NA	1.5 Feet Maximum Height	Minimum of 800 Meters in the Direction of Observation	3 Meters Spacing Minimum	0%	0%	30% Maximum	NA/Only Mitigate for Safety
Wheeled Vehicle	< 40% Climb < 30% Side Slope	4 Feet Maximum Height	Minimum of 1400 Meters in the Direction of Observation	15 Meters Spacing Minimum	0%	0%	15% Maximum	NA/Only Mitigate for Safety
Tracked Vehicle	< 60% Climb < 30% Side Slope	5 Feet Maximum Height	Minimum of 2000 Meters in the Direction of Observation	20 Meters Spacing Minimum	0%	0%	15% Maximum	NA/Only Mitigate for Safety
Aviation	NA	NA	NA	NA	NA	NA	10% Maximum	NA/Only Mitigate for Safety

Table A-1. Acceptable Landscape Conditions (cont.)

Go / No Go >	Slope	Ground Cover/Grasses (Height or Percent Cover)	Understory Thickness	Tree Spacing	Surface Water	Swamps/ Marshland	Surface Conditions	Degraded visibility
Forward Arming and Refueling Point								
Dismounted	NA	1 Foot Maximum Height	200 Meter Minimum	200 Meter Spacing Minimum	< 10%	0%	10% Maximum	NA/Only Mitigate for Safety
Wheeled Vehicle	< 40% Climb <30% Side Slope	1 Foot Maximum Height	200 Meter Minimum	200 Meter Spacing Minimum	< 10%	0%	10% Maximum	NA/Only Mitigate for Safety
Tracked Vehicle	< 60% Climb < 30% Side Slope	1 Foot Maximum Height	200 Meter Minimum	200 Meter Spacing Minimum	< 10%	0%	10% Maximum	NA/Only Mitigate for Safety
Aviation	<.51 degrees or < 1% Slope	1 Foot Maximum Height/No Scrub Brush	200 Meter Minimum	200 Meter Spacing Minimum	0%	0%	10% Maximum	NA/Only Mitigate for Safety

Go / No Go >	Slope	Ground Cover/Grasses (Height or Percent Cover)	Understory Thickness	Tree Spacing	Surface Water	Swamps/ Marshland	Surface Conditions	Degraded visibility
Land Navigation Courses								
Dismounted	NA	3 Foot Maximum Height	25 Meter Minimum	3 Meter Spacing Minimum	< 25%	< 15%	40% Maximum	NA/Only Mitigate for Safety
Wheeled Vehicle	NA	NA	NA	NA	NA	NA	NA	NA/Only Mitigate for Safety
Tracked Vehicle	NA	NA	NA	NA	NA	NA	NA	NA/Only Mitigate for Safety
Aviation	NA	NA	NA	NA	NA	NA	NA	NA/Only Mitigate for Safety

Table A-1. Acceptable Landscape Conditions (cont.)

Go / No Go >	Slope	Ground Cover/Grasses (Height or Percent Cover)	Understory Thickness	Tree Spacing	Surface Water	Swamps/ Marshland	Surface Conditions	Degraded visibility
Amphibious Launch Sites								
Dismounted	NA	1 Foot Maximum Height	25 Meter Minimum	10 Meter Spacing Minimum	> 50%	0%	10% Maximum	NA/Only Mitigate for Safety
Wheeled Vehicle	< 40% Climb < 30% Side Slope	2 Feet Maximum Height	50 Meter Minimum	15 Meter Spacing Minimum	> 50%	0%	10% Maximum	NA/Only Mitigate for Safety
Tracked Vehicle	< 60% Climb < 30% Side Slope	3 Feet Maximum Height	50 Meter Minimum	20 Meter Spacing Minimum	NA	NA	10% Maximum	NA/Only Mitigate for Safety
Aviation	NA	NA	NA	NA	> 50%	0%	NA	NA/Only Mitigate for Safety

Go / No Go >	Slope	Ground Cover/Grasses (Height or Percent Cover)	Understory Thickness	Tree Spacing	Surface Water	Swamps/ Marshland	Surface Conditions	Degraded Visibility
Tactical Use Trail/Movement Trail (Not to be confused with Training Area Tank Trails CATCDs 85720 and 85725 or Training Area Roads CATCDs 85710 and 85715)								
Dismounted	NA	NA	NA	NA	NA	NA	NA	NA/Only Mitigate for Safety
Wheeled Vehicle	< 40% Climb < 30% Side Slope	NA	50 Meter Minimum	Trails Traverse through Tree Spacing Conditions Described for Maneuver Area	2 Feet Maximum Water Depth/Less Than 15% of Trail Surface	0%	25% Maximum	NA/Only Mitigate for Safety

Table A-1. Acceptable Landscape Conditions (cont.)

GO / No Go >	Slope	Ground Cover/Grasses (Height or Percent Cover)	Understory Thickness	Tree Spacing	Surface Water	Swamps/ Marshland	Surface Conditions	Degraded Visibility
Tracked Vehicle	< 60% Climb < 30% Side Slope	NA	50 Meter Minimum	Trails Traverse through Tree Spacing Conditions Described for Maneuver Area	4 Feet Maximum Water Depth/Less Than 15% of Trail Surface	0%	25% Maximum	NA/Only Mitigate for Safety
Aviation	NA	NA	NA	NA	NA	NA	NA	NA

Go / No Go >	Slope	Ground Cover/Grasses (Height or Percent Cover)	Understory Thickness	Tree Spacing	Surface Water	Swamps/ Marshland	Surface Conditions	Degraded Visibility
Drop Zones								
Airborne Operations	15 Degrees or Less	2 Feet Maximum Height	Shrubs Should be Less than 18 Inches Tall	No Trees	Less than 4 Feet Deep and 40 Feet Wide.	0%	Generally free of obstacles (wire, barbed wire, rocks, ditches, and steep inclines. Powerlines should be 1,000 meters away from Drop Zones.	NA, Aircraft may have additional requirements.

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Glossary

The glossary lists acronyms and terms with Army or joint definitions. Where Army and joint definitions differ, (Army) precedes the definition.

SECTION I – ACRONYMS AND ABBREVIATIONS

ABCT	Armored Brigade Combat Team
ABN	Airborne
AC	Active Component
ADA	Air Defense Artillery
ADP	Army Doctrine Publications
AIT	Advanced Individual Training
AMEDDC&S	Army Medical Department Center and School
AMMO	Ammunition
AO	Area of Operation
AR	Army Regulation
ARRM	Army Range Requirements Model
ARTEP	Army Training and Evaluation Program
ATLS	Army Training Land Strategy
ATS	Air Traffic Service
ATRRS	Army Training Requirements and Resources System
BCT	Brigade combat team
BDE	Brigade
BEB	Brigade Engineering Battalion
BFV	Bradley Fighting Vehicle
BN	Battalion
BSB	Brigade Support Battalion
BTRY	Battery
CALFEX	Combined Arms Live-fire Exercise
CATS	Combined Arms Training Strategy
CAV	Calvary
CBRNE	Chemical, Biological, Radiological, Nuclear and Explosives
CI	Counter Intelligence
CMD	Command
CO	Company
COE	Center of Excellence
CONUS	Continental United States
CTC	Combat Training Center
DA	Department of the Army
DET	Detachment
DIV	Division
DPW	Department of Public Works
DS	Direct Support
EMM	Event Menu Matrix
EOD	Explosive Ordnance Disposal
EQUIP	Equipment
ESA	Eagle Skills Assessment
EW	Electronic Warfare

FA	Field Artillery
FCC	Facility Category Codes
FARP	Forward Arming and Refueling Point
FI	Finance
FLD	Field
FM	Field Manual
FORSCOM	United States Army Forces Command
FSC	Forward Support Company
FTX	Field Training Exercise
G3	Operations and Plans
G9	Office of Deputy Chief of Staff
GFEBS	General Fund Enterprise Business System
GIS	Geographic Information System
GPS	Groups
GS	General Support
HHB	Headquarters and Headquarters Battalion
HHT	Headquarters and Headquarters Troop
HQ	Headquarters
HUMINT	Human Intelligence
HVY	Heavy
IBCT	Infantry Brigade Combat Team
INF	Infantry
INTEL	Intelligence
IRR	Individual Ready Reserve
ISR	Intelligence, Surveillance, and Reconnaissance
ITAM	Integrated Training Area Management
KM	Kilometer
MA	Mortuary Affairs
MAINT	Maintenance
MECH	Mechanized
MED BDE	Medical Brigade
MED CMD	Medical Command
MEDV EVAC BN	Medical Evacuation Battalion
METL	Mission Essential Task List
METT-TC	Mission, Enemy, Terrain and Weather, Troops And Support Available, Time Available, Civil Consideration
MI	Military Intelligence
MLRS	Multiple Launch Rocket System
MOD	Modified
MOI	Method of Instruction
MOS	Military Occupation Specialty
MOU	Memorandum of Understanding
MOUT	Military Operations in Urban Terrain
MP	Military Police
NBC	Nuclear Biological Chemical
NGB	National Guard Bureau
OPFOR	Opposing Forces
OPR	Operator
OSUT	One-Station Unit Training
PAM	Pamphlet
PE	Practical Exercise

PETRL	Petroleum
PFN	Problem File Number
PLT	Platoon
POI	Programs of Instruction
POL	Petroleum, Oils, and Lubricants
PZ/LZ	Pickup Zone/ Landing Zone
QM	Quartermaster
RA	Regular Army
RC	Reserve Component
Recon	Reconnaissance
RFMSS	Range Facility Management Support System
RP	Range Program
RPAD	Real Property Assets Database
RPAO	Real Property Accountability Officer
RPLANS	Real Property Planning and Analysis System
RTLP	Range and Training Land Program
SBCT	Stryker Brigade Combat Team
Sep	Separate
SF	Special Forces
Sig	Signal
SP	Self Propelled
SQDN	Squadron
SR	Sustainable Readiness
SRC	Standard Requirements Code
SRP	Sustainable Range Program
STRAC	Standards in Training Commission
STX	Situational Training Exercise
SYS	System
TA	Training Area
TAC	Tactical
TATS	Total Army Training System
TC	Training Circular
Tech	Technology, Technician
TEWT	Tactical Exercise Without Troops
Tm	Team
TRADOC	Training and Doctrine Command
UAS	Unmanned Aerial System
USMC	United States Marine Corps
VEH	Vehicle
Vet	Veterinary
WMD	Weapons of Mass Destruction
WO	Warrant Officer
WOBC	Warrant Officer Basic Course
WTR	Water

SECTION II – TERMS

Active Army

The active Army consists of (1) members of the Regular Army on active duty; (2) members of the Army National Guard of the United States and Army Reserves on active duty (other than for training); (3) members of the Army National Guard in the service of the United States pursuant to a call; and (4) persons appointed, enlisted, or inducted into the Army without component.

After-Action Review (AAR)

A professional discussion that focuses on the objectives of ongoing or completed training. It reviews a training activity to permit participants to discover for themselves what happened and why.

Army National Guard

The Army portion of the organized militia of the states, Commonwealth of Puerto Rico, the District of Columbia whose units and members are federally recognized the territories of Guam and the Virgin Islands.

Army Training Land Strategy

The Army Training Land Strategy outlines how the Army prioritizes training land requirements and describes Army responsibilities for ensuring capability, accessibility, and availability of existing training lands.

Category Code

A numerical code used to classify and categorize Army real property. The Army generally uses a five-digit code to plan, program, budget, design, construct, inventory, and maintain its facilities.

Collective Training

Training either in institutions or units that prepares cohesive teams and units to accomplish their missions on the battlefield and in operations other than war.

Combined Arms Live-fire Exercise (CALFEX)

A combat exercise in which a combined-arms team, in combat formation, conducts a coordinated combat firing and maneuver practice to assault, seize, and defend appropriate objectives. The CALFEX may include tactical air support.

Impact Area

The area within and above an operational range used to contain fired or launched military munitions. Impact areas may be delineated by operational range use. For examples of operational range uses refer to AR 385-63 (Range Safety).

Installation

An aggregation of contiguous or near contiguous, common mission-supporting real property holdings under the jurisdiction of the Department of Defense or a state, the District of Columbia, territory, commonwealth, or possession, controlled by and at which a Department of Defense unit or activity (active or Reserve Component) is permanently assigned. A fixed location together with its land, buildings, structures, utilities, and improvements.

Reserve Components (RC)

The US Army Reserve (USAR) and the US Army National Guard (ARNG).

Stryker Brigade Combat Team (SBCT)

The Stryker brigade combat team (SBCT) is a full-spectrum combat force that provides division, corps, or joint task force commanders with a unique capability across the spectrum of conflict. The SBCT balances lethality, mobility, and survivability against the requirements for rapid strategic deployability. The SBCT's cavalry squadron (reconnaissance, surveillance, and target acquisition [RSTA]); robust intelligence, surveillance, and reconnaissance (ISR) integration capability; and combined arms infantry battalions ensure its versatility across the full range of operations (offense, defense, stability, and support).

Throughput

The number of individuals, crews, or units required to train is the throughput requirement. The number of individuals, crews, or units that can accomplish all required iterations of training on a given range during a single year is the annual throughput capacity of the range. When comparing the annual throughput requirement and capacity, if the throughput capacity exceeds the throughput requirement of a given range, there exists excess capacity. If the throughput requirement exceeds the throughput capacity, a need exists for additional training capability.

Training Aids, Devices, Simulators, and Simulations (TADSS)

A term that includes training range and combat training center (CTC) instrumentation, tactical engagement simulation (TES), battle simulation, targets, training-unique ammunition, and dummy, drill, and inert munitions. TADSS are subject to the public laws and regulatory guidance governing the acquisition of materiel.

Training Land

The term “training land” encompasses facilities (for example, ranges, maneuver land, proficiency courses, and direct-support facilities) dedicated to preparing and sustaining personnel and units to meet mission roles and standards. Examples include facilities to support training personnel in weapon systems use and proficiency, occupational skills, and standards developed.

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REFERENCES

All websites accessed on 1 July 2020.

REQUIRED PUBLICATIONS

Required publications are sources that users must read in order to understand or to comply with this publication.

Most Army doctrinal publications are available online at https://armypubs.army.mil/. Department of Defense publications are available online at https://www.esd.whs.mil/dd/. Joint publications are available online at https://www.jcs.mil/doctrine.

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DA Form 2028. *Recommended Changes to Publications and Blank Forms.*
DA Form 4283. *Facilities Engineering Work Request*.

WEBSITES

Army Range Requirements Model (ARRM):https://srp.army.mil/ARRM/Default.aspx
Army Training Requirements and Resource System (ATRRS):
https://faitas.army.mil/portals/school/atrwra.aspx
Combined Arms Training Strategy (CATS): https://atn.army.mil/ATNPortalUI/CATS/
Office of the Assistant Chief of Staff for Installation Management: https://dcsg9.army.mil/
Real Property Planning Analysis System (RPLANS): https://dcsg9.army.mil/operations/od.html
Sustainable Range Program (SRP) web: https://srp2.army.mil
Sustainable Range Program (SRP) Charts and Forms:
https://srp2.army.mil/rangedevelopment/TC 251 Data/Forms/AllItems.aspx

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TC 25-1
31 July 2020

By Order of the Secretary of the Army:

JAMES C. MCCONVILLE
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