

GROUND OPERATIONS

The Ground Operations function included activities that currently host Naval ground forces. The universe of activities analyzed for this function was comprised of activities that currently support the Naval ground units including U.S. Marine Corps, Naval Construction Battalions, Naval Special Warfare Units, and Explosive Ordnance Disposal Teams. Naval Air Station Fallon, NV was added to the universe because the Army expressed interest in possibly stationing ground forces there. The following Department of the Navy activities were included in the Ground Operations universe:

- Marine Corps Base Camp Pendleton, Oceanside, California
- Marine Corps Air Ground Combat Center-Twenty-nine Palms, California
- Naval Base Coronado, San Diego, California
- Naval Base Ventura County, Point Mugu, California
- Marine Corps Base Camp Hawaii, Kaneohe, Hawaii
- Naval Station Pearl Harbor, Hawaii
- Construction Battalion Center, Gulfport, Mississippi
- Naval Air Station Fallon, Nevada
- Marine Corps Base Camp Lejeune, Jacksonville, North Carolina
- Naval Amphibious Base Little Creek, Norfolk, Virginia
- Naval Base, Guam

Because of their strategic location and potential for operational training of ground forces, the following Army and Air Force activities were included in the Ground Operations analysis:

Army

- National Training Center, Fort Irwin, California
- Fort Benning, Georgia
- Fort Stewart, Georgia
- Fort Polk, Louisiana
- Fort Bragg, North Carolina
- Fort Eustis, Virginia
- Fort Monroe, Virginia
- Fort Lewis, Washington

Air Force

- Vandenberg Air Force Base, California
- Eglin Air Force Base, Florida

Capacity Analysis

As noted above, the capacity analysis measures were administrative space, covered storage space, and maintenance space. A "Battalion Equivalent" metric was developed as the standard measure for comparing the administrative, covered storage, and maintenance spaces at each activity. The Battalion Equivalent metric normalized space requirements based on a

Marine infantry battalion as the standard unit of measure for both Navy and Marine Corps ground forces.

Each activity provided certified responses concerning total square footage, type of space, vacant space, and tenants (occupied space). These reported capacities were reviewed and validated, and where necessary, data call clarifications and corrections were requested and obtained in accordance with the data certification process. Analysis of the certified data resulted in a maximum capacity in Battalion Equivalents of administrative space, covered storage space and maintenance space for each activity and the totals for Navy activities, Marine Corps activities, and the Department of the Navy.

The 20-year Force Structure Plan was used to determine the capacity requirements in the capacity analysis. The force structure plan showed no change in the Department of the Navy ground forces from current levels. Based on input from experts from the Headquarters, Marine Corps and the Chief of Naval Operations, the amount of administrative, covered storage, and maintenance space required for the many types of Department of the Navy ground units was determined. These requirements, converted to Battalion Equivalents, were multiplied by the number of units of each type to determine a total capacity requirement in the three areas of measurement.

The capacity results were compared to the requirement based on the 20-year Force Structure Plan to characterize excess capacity. The capacity analysis results indicated no excess capacity in administrative space, 12 percent excess capacity in covered storage space, and 11 percent excess capacity in maintenance space. Although some activities had excess capacity, the capacity analysis results indicated that no Department of the Navy activity had sufficient excess capacity to host an additional Marine Expeditionary Brigade. A Marine Expeditionary Brigade was determined to be the smallest Marine Air Ground Task Force unit that could be separately moved. However, relocating smaller Navy ground forces was considered where buildable acres vice facilities existed on larger Marine Corps bases.

The Army and Air Force activities noted above also provided capacity data call responses. Department of the Navy examined the results in order to identify potential receiver sites for Naval ground forces and the possible establishment of a joint ground forces training facility. In no case did a non-Department of the Navy activity possess sufficient excess capacity to warrant development of a scenario.



Department of the Navy

DoN Analysis Group

Ground Capacity Data

DCN 564

DoN GROUND BASE	ADMIN SPACE BnE	STORAGE SPACE BnE	MAINT SPACE BnE
USMC GROUND			
Camp Lejeune	38.32	101.60	147.73
Camp Pendleton	24.43	60.81	100.47
MCMAGFTC 29 Palms	6.83	18.66	45.45
MCB Hawaii	10.67	13.47	38.36
USMC Total:	80.24	194.54	332.00
NAVY GROUND			
CBC Gulfpport	3.04	50.03	13.31
NAS North Island (NAB Coronado)	2.70	6.82	14.08
NB Ventura Cty (CBC Port Hueneme)	5.29	16.71	22.28
NSA Marianas (Guam)	1.39	6.82	5.07
NAB Little Creek	1.82	0.70	6.34
NavSta Pearl Harbor	1.58	2.64	11.93
NAS Fallon	1.46	2.98	8.83
Navy Total:	17.28	86.71	81.82
DEPT OF NAVY TOTAL	97.52	281.25	413.82

Current Ground Capacity



Department of the Navy
DoN Analysis Group

Ground Capacity Analysis

- **Maximum Capacity*-- Current Rqmts** = Excess / Shortfall**

USMC Admin BnE: 80.24 – 88.15 = - 7.91 (-10%)
 USMC Storage BnE: 194.54 – 155.99 = 38.55 (19%)
 USMC Maint BnE: 332.00 – 299.36 = 32.64 (10%)

Navy Admin BnE: 17.28 – 24.76 = - 7.48 (-43%)
 Navy Storage BnE: 86.71 – 90.65 = - 3.94 (-5%)
 Navy Maint BnE: 81.82 – 68.43 = 13.39 (16%)

DoN Admin BnE: 97.52 – 112.91 = - 15.39 (-16%)
 DoN Storage BnE: 281.25 – 246.64 = 34.61 (12%)
 DoN Maint BnE: 413.82 – 367.79 = 46.03 (11%)

* From BRAC 2005 Capacity Data Call

** From I&L and N4 (incl USMC Force Structure Increase)

Military Value Analysis

The matrix developed for military value analysis was modeled after the Surface/Subsurface Operations and Aviation Operations functions with modifications for items unique to ground activities after consultation with Marine Corps and Navy ground operations technical experts and leadership. Scaling functions were used to allow partial or relative value for a particular data point. The matrices for the different operational functions (Surface/Subsurface, Aviation, and Ground) were similar in many respects, each having five attributes. However, the specific data and weighting of the attributes reflected the differences between each function. Military value analysis was conducted on Navy, Marine Corps, and the Army and Air Force activities noted above.

Operational Infrastructure questions principally measured the facilities and services, including operational staff buildings, ordnance storage depots, and organic maintenance shops, necessary for home basing naval ground forces. Additional value was given for an activity's receiving, staging, onward movement and integration capabilities. Operational Training questions were designed to capture the proximity of an activity to the necessary ranges, maneuver areas, and training facilities utilized by ground forces. Base Characteristics questions principally measured geographic and physical components of an activity, proximity to aerial and seaports of debarkation, rail and highway throughput capacities, and the ability of the facilities and land to accommodate ground force operations. Environment and Encroachment questions measured an array of constraints, costs, and capabilities associated with balancing an activity's mission and compliance with Federal and State environmental regulations. Personnel Support/Quality of Life questions measured an activity's ability to support ground forces personnel and their families.

Question weights developed by the Infrastructure Executive Group placed high value on operational infrastructure and training. The military value scores for the activities in the Ground Operations function were evenly distributed between 34.0 and 66.0 and for all 11 activities with an average military value for this category of 46.9. Large versatile activities and those in proximity to training areas and facilities scored higher, while smaller activities which were remote from training areas and facilities scored significantly lower.

Naval Ground Operations Military Value Evaluation Questions

Attribute: Operational Infrastructure

Component: *Operational Staff Facilities*

GRD-1: Relative capacity of adequate administrative space.

GRD-1. What is the total square footage of adequate administrative space at your installation?

Source: Data Call II (ref: Capacity Data Call (DoD #11, 1.2.f) not specific to ground units)

Analyst will apply a function to credit from zero to maximum amount of adequate facilities available.

GRD-2a-d: Relative ability of the installation to provide communications, information technology and intelligence facilities to operational ground forces.

GRD-2a. (0.25) What is the total square footage of conditioned space for the following C4I facilities? Conditioned space refers to space that is carefully controlled to sustain comm/IT equipment or services.

Source: Data Call II (ref: Capacity Data Call (DoD 314, 1.3.e))

Analyst will apply a function to credit from zero to maximum size available.

GRD-2b. (0.25) What is the total square footage of adequate facilities that are designated as Special Compartmentalized Intelligence Facilities (SCIFs)? A SCIF refers to a facility where access is restricted due to the classified materials or equipment stored and used within. The space is certified to meet DoD standards for the activities residing within.

Source: Data Call II (ref: Capacity Data Call (DoD 314, 1.3.e))

Analyst will apply a function to credit from zero to maximum size available.

GRD-2c. (0.25) What is the total capacity (terabytes (TBs)) of the data networks available by your installation?

Source: Data Call II (ref: Capacity Data Call (DoD 329, 1.3.1.i))

Analyst will apply a function to credit from zero to maximum amount available.

GRD-2d. (0.25) What specialized communications systems are available at your installation? Specialized communications systems include: MILSTARS, MILSATCOM, and NESP.

Source: Data Call II (ref: Capacity Data Call (DoD 25, 1.3.j))

Analyst will apply a function to credit from zero to maximum number of systems available.

Attribute: Operational Infrastructure

Component: Receiving and Staging Areas

GRD-3a-c: Relative capacity of the installation's receiving and staging areas.

GRD-3a. (0.5) Provide the total acreage available for the receiving and staging of deploying ground forces. Include those areas designated for the staging of unit equipment, storage containers and bulk cargo. Include areas used for both pre-deployment and retrograde operations.

Source: Data Call II

Analyst will apply a function to credit from zero to maximum size available. Question amplification will include DoD references for receiving and staging areas, material handling requirements and approved DoT inspection standards.

GRD-3b. (0.25) What is capacity of the installation's passenger holding facilities? A passenger holding facility is any area or facility specifically designated for the staging of personnel conducting onward movement or retrograde operations. Examples include air terminals, bus terminals, and unit staging areas.

Source: Data Call II (ref: Capacity Data Call (DoD 344, 1.7.1.3.k))

Analyst will apply a function to credit from zero to maximum size available. The Capacity Data Call lists capacity in terms of type of facility/ holding area and square footage. For military value, analysts will utilize square footage.

GRD-3c. (0.25) What is capacity of temporary billeting reserved for deploying units?

Source: Data Call II

Analyst will apply a function to credit from zero to maximum amount of billeting available. Question amplification will include description of temporary billeting in accordance with DoD policy. For military value, capacity will be measured in terms of personnel.

GRD-4a-b: Relative value of the installation's reserve mobilization support.

GRD-4a. (0.5) Does the installation have a pre-designated reserve component service member (RCSM) mobilization requirement? Specifically, a Navy Mobilization Processing Site (NMPS) or a Marine Mobilization Processing Site (MPS).

Source: Data Call II (ref: Capacity Data Call (DoD 336, 1.7.1.3.e))

Binary value (y/n).

GRD-4b. (0.5) What is the installation's capability to receive and process personnel being mobilized and deployed?

Source: Data Call II (ref: Capacity Data Call (DoD 337 and 338, 1.7.1.3.d and 1.7.1.3.a))

Analyst will apply a function to credit from zero to maximum number processed. The Capacity Data Call lists capability in terms of number of personnel and units processed over a 24- hour period. If an installation is a designated mobilization processing site, this data is specified in the mobilization plans.

Attribute: Operational Infrastructure

Component: Intermediate Supply and Maintenance

GRD-5: Relative capacity of supply storage facilities and acreage.

GRD-5. What is the total adequate and substandard square footage and acreage of the storage facilities and areas located on your installation?

Source: Data Call II (ref: Capacity Data Call (DoD 636, 1.2.4.2.a))

Analyst will apply a function to credit from zero to maximum size available. The Capacity Data Call lists capacity in terms of gross square footage (GSF) and condition for each individual facility (warehouse). For military value, analysts will total GSF, giving more credit to adequate space vice substandard space.

GRD-6a-c: Relative capability of the maintenance facilities.

GRD-6a. (0.25) What is the total adequate square footage of the maintenance facilities located on your installation?

Source: Data Call II (ref: Capacity Data Call (DoD 11, 1.2.f))

Analyst will apply a function to credit from zero to maximum size available.

GRD-6b. (0.5) What types of intermediate maintenance facilities are currently located on your installation for use by operational ground forces?

<u>Commodity</u>	<u># of Maint Facilities</u>	<u>Description of facilities (sqft, EOM, heavy vs light, etc)</u>
Comm / Elec		
Engineering		
General Supply		
Motor Transport		
Ordnance		

Source: Data Call II

Based on responses from the field for 'description of facility,' IEG will evaluate and assign credit. Analyst will then apply a function to credit from zero to maximum number available.

GRD-6c. (0.25) List any plant property or specialized equipment that is available for use by ground forces when conducting intermediate maintenance. Examples include test cells, calibration labs, permanently installed cranes and lifts, etc.

Source: Data Call II table

Based on responses, IEG to determine inclusion. Analyst will apply a function to credit from zero to maximum number available.

Attribute: *Operational Infrastructure*

Component: *Munitions Handling and Storage*

GRD-7: Relative ability of the installation to store and handle Class V(W) ground ordnance.

GRD-7. List the maximum capacity for the installation's ground ordnance (Class V(W)) storage facilities by hazard classification.

<u>Maximum Capacity of CL V(W) Storage Facilities</u>	<u>Class 1.1 (mass detonation)</u>	<u>Class 1.3 (mass fire)</u>

Source: Data Call II

Analyst will apply a function to credit from zero to maximum number available. Installations with a class 1.1 hazard rating will receive more credit than installations with hazard class 1.3 facilities. Question amplification will include appropriate DoD regulations and specifications of ammunition storage facilities (ASPs) and explosive hazard ratings.

Attribute: Operational Infrastructure

Component: Unique Capabilities / Missions

GRD-8: Relative value of unique capabilities or missions.

GRD-8. List and describe any unique capabilities or missions performed by your activity. Unique is defined as a capability or mission performed at no other location. Deleted by 7 Sep 04 DAG.

<u>Unique Capability / Mission</u>	<u>Description</u>

Source: Data Call II.

Based upon responses received, IEG will evaluate and assign credit.

GRD-9: Relative value of specialized capabilities or missions.

GRD-9. List and describe any specialized capabilities or missions performed by your activity. Examples of specialized capabilities and missions include: Anti terrorism/Force Protection (AT/FP); Consequence Management (CM); Explosive Ordnance Disposal (EOD); Homeland Defense / Interagency; Naval Mobile Construction (Seabee); Signal Intelligence/Electronic Warfare (SigInt/EW); Special Warfare (SEAL). Deleted by 7 Sep 04 DAG.

<u>Specialized Capability / Mission</u>	<u>Description</u>

Source: Data Call II.

Based upon responses received, IEG will evaluate and assign credit.

Attribute: Operational Training

Component: Training Facilities

GRD-10: Relative capability of simulation facilities.

GRD-10. What is the maximum capacity (events/year x players) of ground training simulation facilities managed or controlled by your installation? Types of simulators include small arms trainers, forward observer simulation facilities, vehicle operator simulators, night labs, etc.

Source: Data Call II (ref: Capacity Data Call (DoD 146, 3.2.3.f))

Analyst will apply a function to credit from zero to maximum capacity. The Capacity Data Call lists capacity in terms of average number of events and personnel trained per year with each system type. For military value, analysts will utilize number of personnel trained per year per simulator type.

GRD-11: Installation manages or controls operational staff training facilities.

GRD-11. Does the installation manage or control training simulation facilities that are Combined/Joint/Coalition command and staff event capable?

Source: Data Call II (ref: Capacity Data Call (DoD 149, 3.2.3.i))

Binary response (y/n).

GRD-12: Relative ability to support mobilization training.

GRD-12. What training facilities are available for use by mobilized reserve forces?

<u>Training Facility</u>	<u>Largest unit / maximum number of personnel that the training facility can accommodate daily</u>

Source: Capacity Data Call (DoD 625, 3.2.2.a / DoD 143, 3.2.2.2.a / DoD 144, 3.2.2.2.b / DoD 153, 3.2.3.0.m)

Analyst will apply a function to credit from zero to a maximum number accommodated.

Attribute: Operational Training

Component: Training Facilities (con't)

~~GRD-13: Relative value of unique training facilities.~~

~~GRD-13. List and describe any unique training facilities managed or controlled by your installation. Unique is defined as a capability or mission performed at no other location. Deleted by 7 Sep 04 DAG.~~

<u>Training Facility</u>	<u>Description of unique training</u>

Source: Data Call II.

Based upon responses received, IEG will evaluate and assign credit.

~~GRD-14: Relative value of specialized training facilities.~~

~~GRD-14. List and describe any specialized training facilities managed or controlled by your installation. Deleted by 7 Sep 04 DAG.~~

<u>Training Facility</u>	<u>Description of specialized training</u>

Source: Data Call II.

Based upon responses received, IEG will evaluate and assign credit.

Attribute: Operational Training

Component: *Ground and Littoral Maneuver Areas / Ranges*

GRD-15a-c: Relative capability of indirect fire ranges.

GRD-15a. (0.4) What is the capacity (number of firing points x number of days available) of the indirect fire ranges (mortars and field artillery) managed or controlled by your installation?

Source: Data Call II

Analyst will apply a function to credit from zero to a maximum capacity.

GRD-15b. (0.5) What is the largest unit that can train on the indirect fire ranges (mortars and field artillery) managed or controlled by your installation? Largest unit should be in terms of section, battery, battalion, or larger sized unit.

Source: Data Call II

Analyst will apply a function to credit from zero to a maximum number accommodated.

GRD-15c. (0.1) What is the distance (miles) of your installation to the nearest alternative installation with indirect fire training areas (mortars and indirect artillery)?

Source: Data Call II

Analyst will apply a function to credit from zero to a maximum distance.

GRD-16a-c: Relative capability of small arms ranges.

GRD-16a. (0.5) What is the capacity (number of firing points x number of days available) of the small arms ranges managed or controlled by your installation?

Source: Data Call II (ref: Capacity Data Call (DoD 157, 3.2.3.d and DoD 153, 3.2.3.m))

Analyst will apply a function to credit from zero to a maximum capacity.

GRD-16b. (0.4) What is the largest unit that can train on the small arms ranges managed or controlled by your installation? Largest unit should be in terms of platoon, company, battalion or larger sized unit.

Source: Data Call II (ref: Capacity Data Call (DoD 153, 3.2.3.m))

Analyst will apply a function to credit from zero to a maximum number accommodated.

GRD-16c. (0.1) What is the distance (miles) of your installation to the nearest alternative installation with small arms ranges?

Source: Data Call II

Analyst will apply a function to credit from zero to a maximum distance.

Attribute: Operational Training

Component: Ground and Littoral Maneuver Areas / Ranges (con't)

GRD-17a-c: Relative capability of heavy machinegun (.50 and above) ranges.

GRD-17a. (0.4) What is the capacity (number of firing points x number of days available) of the heavy machinegun (.50 cal and above) ranges managed or controlled by your installation?

Source: Data Call II (ref: Capacity Data Call (DoD 157, 3.2.3.d and DoD 153, 3.2.3.m))

Analyst will apply a function to credit from zero to a maximum capacity.

GRD-17b. (0.5) What is the largest unit that can train on the heavy machinegun (.50 cal and above) ranges managed or controlled by your installation? Largest unit should be in terms of platoon, company, battalion or larger sized unit.

Source: Data Call II (ref: Capacity Data Call (DoD 153, 3.2.3.m))

Analyst will apply a function to credit from zero to a maximum number accommodated.

GRD-17c. (0.1) What is the distance (miles) of your installation to the nearest alternative installation with heavy machinegun (.50 cal and above) ranges?

Source: Data Call II

Analyst will apply a function to credit from zero to a maximum distance.

GRD-18a-c: Relative capability of stationary tank ranges.

GRD-18a. (0.4) What is the capacity (number of firing points x number of days available) the stationary tank ranges managed or controlled by your installation?

Source: Data Call II (ref: Capacity Data Call (DoD 157, 3.2.3.d and DoD 153, 3.2.3.m))

Analyst will apply a function to credit from zero to a maximum capacity.

GRD-18b. (0.5) What is the largest unit that can train on the stationary tank ranges managed or controlled by your installation? Largest unit should be in terms of platoon, company, battalion or larger sized unit.

Source: Data Call II (ref: Capacity Data Call (DoD 153, 3.2.3.m))

Analyst will apply a function to credit from zero to a maximum number accommodated.

GRD-18c. (0.1) What is the distance (miles) of your installation to the nearest alternative installation with stationary tank ranges?

Source: Data Call II

Analyst will apply a function to credit from zero to a maximum distance.

Attribute: Operational Training

Component: Ground and Littoral Maneuver Areas / Ranges (con't)

GRD-19a-c: Relative capability of explosive / demolition training ranges.

GRD-19a. (0.5) What is the capacity (number of lanes x number of days available) of the explosive / demolition ranges managed or controlled by your installation?

Source: Data Call II (ref: Capacity Data Call (DoD 157, 3.2.3.d and DoD 153, 3.2.3.m))

Analyst will apply a function to credit from zero to a maximum capacity.

GRD-19b. (0.4) What is the largest unit that can train on the explosive / demolition ranges managed or controlled by your installation? Largest unit should be in terms of section, detachment, platoon, company, or battalion.

Source: Data Call II (ref: Capacity Data Call (DoD 153, 3.2.3.m))

GRD-19c. (0.1) What is the distance (miles) of your installation to the nearest alternative installation with explosive / demolition ranges?

Source: Data Call II

Analyst will apply a function to credit from zero to a maximum distance.

GRD-20: Relative capability to accommodate laser training.

GRD-20. Identify the number of authorized laser ranges and facilities aboard your installation in the table.

	Number of Ranges and/or Facilities
Category Laser Cat I	
Category Laser Cat II	
Category Laser Cat III	
Category Laser Cat IV	

Source: Data Call II

Analyst will apply a function to credit from zero to a maximum number available. Credit will be given based upon the type of laser category available.

Attribute: Operational Training

Component: Ground and Littoral Maneuver Areas / Ranges (con't)

GRD-21a-b: Relative capability of close air support (CAS) training areas.

GRD-21a. (0.8) Does your activities range(s) schedule and support close air support (CAS) training?

Source: Data Call II

Binary response (y/n).

GRD-21b. (0.2) What is the distance (miles) of your installation to the nearest alternative installation with close air support (CAS) training areas?

Source: Data Call II

Analyst will apply a function to credit from zero to a maximum distance.

GRD-22a-d. Relative capability of operational maneuver training areas.

GRD-22a. (0.4) What is the total acreage of the OPAREAS managed or controlled by your installation available for use by ground maneuver units? Net acreage available is specially designated for ground maneuver training.

Source: Data Call II (ref: Capacity Data Call (DoD 150, 3.2.3.j and DoD 152, 3.2.3.l))

Based on largest value received from field, analyst will apply a function for zero credit to a maximum credit corresponding to this value.

GRD-22b. (0.4) What is the yearly average number of scheduled days the maneuver areas are available for use?

Source: Data Call II (ref: Capacity Data Call (DoD 152, 3.2.3.l))

Based on largest value received from field, analyst will apply a function for zero credit to a maximum credit. The Capacity Data Call lists historical data for FY00 through FY03.

GRD-22c. (0.1) What is the distance (miles) to the nearest alternative installation that accommodates major maneuver units?

Source: Data Call II

Analyst will apply a function to credit from zero to a maximum distance.

GRD-22d. (0.1) Did your maneuver area support joint cross-service training in FY1999-2003?

Source: Data Call II

Binary response (y/n).

Attribute: Operational Training

Component: Ground and Littoral Maneuver Areas / Ranges (con't)

GRD-23a-c. Relative capability of littoral/amphibious training areas.

GRD-23a. (0.3) How many miles of beach are available at the base for operational training?

Source: Capacity Data Call (DoD 191, 3.2.3.5.b)

Based on largest value received from field, analyst will apply a function for zero credit to a maximum credit corresponding to this value.

GRD-23b. (0.3) How large in square miles is the sea echelon area for the maneuver of assault shipping and naval sea-control forces?

Source: Capacity Data Call DoD 192, 3.2.3.5.c does not specify size)

Based on largest value received from field, analyst will apply a function for zero credit to a maximum credit corresponding to this value.

GRD-23c. (0.4) How large (acres) is the contiguous maneuver area beyond the beach high water mark?

Source: Data Call II

Based on largest value received from field, analyst will apply a function for zero credit to a maximum credit corresponding to this value.

GRD-24: Relative value of specialized training areas.

~~GRD-24. List and describe any specialized training areas managed or controlled by your installation. Specialized training areas may include: MOUT areas, drop zones, landing zones, assault strips, engineer river crossing sites, naval mobile construction, special warfare, specialized climate or geographical training, etc. Deleted by 7 Sep 04 DAG.~~

<u>Training Area</u>	<u>Description of specialized training area (Acreage, scheduled days available, largest unit trained, etc)</u>

Source: Data Call II

Based upon responses received, IEG will evaluate and assign credit.

Attribute: Base Characteristics

Component: Operational Location

GRD-30: Relative ability of land to support ground force operations.

GRD-30. What are the total buildable acres of land available at your installation (including main installation, ranges, and all outlying sites)?

Source: Capacity Data Call (DoD 30, 1.4.a))

Based on maximum buildable acres, analyst will apply function for zero credit to a maximum credit corresponding to this value.

GRD-31a-b: Relative ability of facilities to support ground force operations.

GRD-31a. (0.7) What is the Current Plant Value of Class 2 real property at your installation? For FY01 to FY03, what was your installation’s average annual real property maintenance (RPM) expenditure? What is the total backlog of maintenance and repair cost reported on your installation’s most recent Annual Inspection Summary (AIS) or Backlog of Maintenance and Repair (BMAR) report?

Source: Data Call II

RPM costs and facility deficiency costs will be normalized by CPV and a function will be applied to give zero credit to maximum credit corresponding to this value.

GRD-31b. (0.3) For FY00-FY-03, provide the number of days that controls/restrictions were implemented for electricity on your installation. “Controls/restrictions” include those items requested or imposed upon your installation such as regulatory stipulations, air quality restrictions, plant production capability, capacity of the primary substation(s), contract limitations, etc.

	Number of Days Controls/Restrictions Were Implemented
FY00	
FY01	
FY02	
FY03	

Source: Data Call II.

Based on number of days controls/restrictions were implemented, analyst will apply function for zero credit to a maximum credit corresponding to this value.

GRD-32: Relative value of location to support ground force operations.

GRD-32. Without consideration to cost, does your activity perform any ground operations functions that would be extremely difficult or impossible to relocate? If yes, explain. Climate conditions, terrain features and homeland defense missions should be considered in your response.

Source: Data Call II

Based upon responses received, IEG will evaluate and assign credit.

Attribute: *Base Characteristics*

Component: *Strategic Location*

GRD-33: Base location is of strategic military value.

GRD-33. What is the geographic location of the installation?

Source: Geographic location is know

IEG determines which locations are of strategic military value.

Attribute: Base Characteristics

Component: Throughput

GRD-34a-b: Relative value of Aerial Port of Embarkation (APOE) that supports ground forces.

GRD-34a. (0.5) What is the distance (miles) to the primary Aerial Port of Embarkation (APOE) used for loadout of cargo (0.3)? Who manages it? (0.2 if Federally managed) If not federally managed, is a user agreement in place? (0.1)

Source: Data Call II (ref: Capacity Data Call (DoD 594, 1.7.1.2.b) wasn't for cargo)

Based on responses to three questions, analyst will apply a function for zero credit to a maximum credit corresponding to this value. Question amplification will include DoD references for transportation and material handling.

GRD-34b. (0.5) For your primary APOE, what is the maximum throughput in terms of short tons of cargo that can be staged and loaded per day?

Source: Data Call II

Based on maximum number provided, analyst will apply a function for zero credit to a maximum credit corresponding to this value.

GRD-35a-b: Relative value of Sea Port of Embarkation (SPOE) that supports ground forces.

GRD-35a. (0.5) What is the distance (miles) to the primary Sea Port of Embarkation (SPOE) used for loadout of cargo (0.3)? Who manages it? (0.2 if Federally managed) If not federally managed, is a user agreement in place? (0.1)

Source: Data Call II (ref: Capacity Data Call (DoD 594, 1.7.1.2.b))

Based on responses to three questions, analyst will apply a function for zero credit to a maximum credit corresponding to this value.

GRD-35b. (0.5) For your primary SPOE, what is the maximum throughput in terms of short tons of cargo that can be staged and loaded per day?

Source: Data Call II

Based on responses to the two questions, analyst will apply a function for zero credit to a maximum credit corresponding to this value. Question amplification will include DoD references for transportation and material handling.

Attribute: Base Characteristics

Component: Throughput (con't)

GRD-36a-c: Relative value of rail and highway that support ground forces.

GRD-36a. (0.4) What is the distance (miles) to the primary railhead used for loadout of cargo (0.2)? Who manages it (0.2 if Federally managed)? If not federally managed, is a user agreement in place (0.1)?

Source: Data Call II (ref: Capacity Data Call (DoD 594, 1.7.1.2.b))

Based on responses to three questions, analyst will apply function for zero credit to a maximum credit corresponding to this value.

GRD-36b. (0.2) For your primary railhead, what is rail capability (Category A (0.2), B (0.1) and/or C (0))?

Source: Data Call II (ref: Capacity Data Call (DoD 333, 1.7.1.2.e) was on base railheads)

Based on responses, analyst will apply function for zero credit to a maximum credit corresponding to this value.

GRD-36c. (0.4) What is the distance (miles) to the nearest major highway (interstate and/or paved multi-lane road) used for loadout of cargo?

Source: Data Call II (ref: Capacity Data Call (DoD 594, 1.7.1.2.b))

Based on responses to three questions, analyst will apply function for zero credit to a maximum credit corresponding to this value.

GRD-37: Relative value of lack of restrictions/limitations on APOE/SPOE access.

GRD-37. For your primary APOE and SPOE, how many days was access restricted or limited?

<u>Calendar Year</u>	<u># of Days Access Restricted/Limited</u>	
	<u>APOE</u>	<u>SPOE</u>
FY-00		
FY-01		
FY-02		
FY-03		

Source: Data Call II

Analyst will apply function for zero credit to a maximum credit corresponding to this value.

Attribute: Ground Base Characteristics

Component: *Anti-Terrorism / Force Protection*

GRD-38a-b. Relative value of buildings which meet structural criteria and/or perimeter standoff criteria.

GRD-38a. (0.5) What total square footage of your buildings comply with structural criteria (frame, walls, glazing, etc.) contained in DoD Minimum Antiterrorism Standards for Buildings (UFC 4-010-01)?

Source: Data Call II

Based on largest value received from field, analyst will a function for zero credit to a maximum credit corresponding to this value.

GRD-38b. (0.5) What total square footage of your buildings meet the minimum perimeter standoff distance distances as specified in DoD Minimum Antiterrorism Standards for Buildings (UFC 4-010-01)?

Source: Data Call II

Based on largest value received from field, analyst will a function for zero credit to a maximum credit corresponding to this value.

GRD-39. Relative value of space available for Entry Control Points to have vehicle search, holding areas, and rejection lanes.

GRD-39. Is adequate space available for all Entry Control Points (ECPs) to have vehicle search, holding areas, and rejection lanes as specified in UFC 4-010-01?

Source: Data Call II

Binary value.

GRD-40. Relative value of utility (government or commercial; electric or water) redundancy.

GRD-40. Is the installation supported by an electric or water utility (government or commercial) that is a single point source (no redundant capability)?

Source: Data Call II

Binary value.

Attribute: Base Characteristics

Component: Locality Costs

GRD-41a-b. Relative value of the locality cost.

GRD-41a. (0.5) What is the GS Locality Pay percentage for your installation's geographical area? (%)

Source: Data Call II (Criterion 7)

Based on maximum value, analyst will apply function for zero credit to a maximum credit corresponding to this value.

GRD-41b. (0.5) What is your installation's Area Cost Factor (ACF) as described in the DoD Facilities Pricing Guide? (Number)

Source: Data Call II

Based on maximum value, analyst will apply function for zero credit to a maximum credit corresponding to this value.

Attribute: Environmental and Encroachment

Component: Land Constraints

ENV-2a-g. Relative value of land constraints at the installation and its outlying real property which restrict current operations.

ENV-2a. (0.2) Do electromagnetic radiation and/or emissions constrain operations?

Source: Capacity Data Call

Binary value. Credit is applied for a “no” response.

ENV-2b. (0.2) Are explosive safety waivers or exemptions in effect?

Source: Capacity Data Call

Binary value. Credit is applied for a “no” response.

ENV-2c. (0.2) Can existing Explosive Safety Quantity Distance (ESQD) arcs be expanded by 100 feet or more without encroaching on non-compatible areas and without requiring a special waiver?

Source: Capacity Data Call

Binary value.

ENV-2d. (0.1) Do any sites with high archeological potential, including sacred, Traditional Cultural Properties, or burial sites used by Native People, constrain current or future construction?

Source: Capacity Data Call

Binary value. Credit is applied for a “no” response.

ENV-2e. (0.1) Has the accommodation of the installation’s missions been limited by existing or proposed activities of other military departments or other federal tribal state or local agencies being located on the installation, range or auxiliary field?

Source: Capacity Data Call

Binary value. Credit is applied for a “no” response.

ENV-2f. (0.1) Do wetlands result in restrictions on operations?

Source: Capacity Data Call

Binary value. Credit is applied for a “no” response.

Attribute: Environment and Encroachment

Component: Land Constraints

ENV-2g. (0.1) Are there operational testing/training restrictions as a result of the presence of Threatened and Endangered Species (TES), candidate species, biological opinions or sensitive resource areas?

Source: Capacity Data Call

Binary credit. Credit is applied for a "no" response.

Attribute: Environment and Encroachment

Component: Encroachment

ENV-3a-c. Relative value of external encroachments which restrict operations.

ENV-3a. (0.4) Have non-DoD parties (through developers, community organizations, etc.) formally requested transfer of DoD real property or proposed restrictions to operational procedures?

Source: Data Call II

Binary value. Credit is applied for a "no" response.

ENV-3b. (0.4) Are there hazardous waste contamination sites located off the installation that restrict or could restrict operations?

Source: Capacity Data Call

Binary value. Credit is applied for a "no" response.

ENV-3c. (0.2) Have noise abatement procedures been published for the installation, range or auxiliary field?

Source: Capacity Data Call

Binary value. Credit is applied for a "no" response.

Attribute: *Environment and Encroachment*

Component: *Environmental Costs*

ENV-4. Relative value of the costs associated with conducting the installation's environmental program.

ENV-4. Excluding DERA funds, provide the average annual total cost of environmental fees, studies, permits, licenses, projects, etc. over the last 3 fiscal years (FY01-03). Provide the annual installation budget over this same period. Divide the environmental costs by the installation budget.

Source: Data Call II

Based on response received, analyst will apply a function for zero credit to a maximum credit.

Attribute: Environment and Encroachment

Component: Waste Disposal

ENV-5a-c. Relative value of the capacity to dispose of solid or hazardous waste.

ENV-5a. (0.4) Does the installation have a permitted hazardous waste Resource Conservation and Recovery (RCRA) Treatment, Storage or Disposal (TSD) facility? (0.2) If so, does the hazardous waste TSD facility permit allow acceptance of off-site waste? (0.2)

Source: Capacity Data Call

Two binary values.

ENV-5b. (0.4) If the installation has a permitted solid waste disposal facility, what is the remaining capacity?

Source: Capacity Data Call

Based upon maximum capacity remaining, analyst will apply a function for zero credit to a maximum credit corresponding to this value.

ENV-5c. (0.2) Does the installation have an interim or final RCRA Subpart X permit for operation of an open burning/open detonation facility? (0.1) If so, does the RCRA Subpart X permit allow acceptance of off-site waste (e.g. from other DoD facilities)? (0.1)

Source: Capacity Data Call

Two binary values.

Attribute: *Environment and Encroachment*

Component: *Potable Water*

ENV-6a-b. Relative value of potable water resource constraints.

ENV-6a. (0.25) Can the existing water system/treatment facility provide 50% more water than current demand?

Source: Capacity Data Call

Binary value.

ENV-6b. (0.75) How many days during FY 1999-2003 were restrictions implemented that limited production or distribution?

Source: Capacity Data Call

Based on responses received, analyst will apply a function for zero credit to a maximum credit.

Attribute: Environment and Encroachment

Component: *Natural Resource Considerations*

ENV-7a-c. Relative value of restrictions to in-water operations conducted at the installation or at ranges that the installation manages due to environmental laws/regulations.

ENV-7a. (0.4) Do current Endangered Species/Marine Mammal Protection Act restrictions affect shore or in-water operations or testing/training activities conducted at the installation or at a range that the installation manages?

Source: Capacity Data Call

Binary value. Credit is applied for a "no" response.

ENV-7b. (0.4) Does the existence of marine sanctuaries restrict operations, testing or training activities conducted on the installation or on ranges the installation manages?

Source: Capacity Data Call

Binary value. Credit is applied for a "no" response.

ENV-7c. (0.2) Has the presence of coral reefs, marine mammals, Essential Fish Habitat, Marine Protected Areas or other sensitive marine zones resulted in restrictions on operations, testing or training activities?

Source: Capacity Data Call

Binary value. Credit is applied for a "no" response.

Attribute: Environment and Encroachment

Component: Air Quality

ENV-8a-g. Relative value of air quality control issues due to current or proposed regulations.

ENV-8a. (0.2) Have operations, testing or training been restricted as a result of air quality requirements?

Source: Capacity Data Call

Binary value. Credit is applied for a “no” response.

ENV-8b. (0.2) Has the installation been required to implement emission reduction procedures through special actions?

Source: Capacity Data Call

Binary value. Credit is applied for a “no” response.

ENV-8c. (0.1) Are there critical air quality regions within 100 statute miles of the installation that restrict operations?

Source: Capacity Data Call

Binary value. Credit is applied for a “no” response.

ENV-8d. (0.2) Is the installation, range, or auxiliary field located in an area currently designated non-attainment or maintenance for any criteria pollutant?

Source: Capacity Data Call

Binary value. Credit is applied for a “no” response.

ENV-8e. (0.1) Is the installation, range, or auxiliary field located in an area proposed to be designated non-attainment for the new 8-Hour ozone or the PM2.5 standard?

Source: Capacity Data Call

Binary value. Credit is applied for a “no” response.

ENV-8f. (0.1) Are emission credits owned by the installation or available for purchase in the area?

Source: Capacity Data Call

Binary value.

ENV-8g. (0.1) Do the Clean Air Act (CAA) operating permits have any unused capacity?

Source: Capacity Data Call

Binary value.

Attribute: *Personnel Support*

Component: *Medical*

PS-1. Located within the medical catchment area of an in-patient military medical treatment facility.

PS-1. Is your activity within the medical catchment area of an in-patient military medical treatment facility?
(yes/no)

Source: Data Call II

Binary.

Attribute: Personnel Support

Component: Housing

PS-2a-c. Relative value of government housing and PPV availability.

PS-2a. (0.5) What was the average wait time (in months) for family housing, including Public Private Venture (PPV) units, at your installation as of 30 September 2003?

$$\text{Avg Wait Time} = \frac{(\text{List}_1 \text{ Wait Time} \times \text{List}_1 \text{ Units}) + (\text{List}_2 \text{ Wait Time} \times \text{List}_2 \text{ Units}) + \dots}{\text{Total Housing Units}}$$

Source: Data Call II

Based on responses received, analyst will apply a function for zero to maximum credit.

PS-2b. (0.25) What is the total number of adequate Bachelor Quarters (combined officer and enlisted; both current and budgeted) at your installation divided by the total military population as of 30 Sep 2003?

Source: Capacity Data Call (DoD 16, 1.2.6.2.a)

Ratio of number of rooms per active duty population. Based on responses received, analyst will apply a function for zero to maximum credit.

PS-2c. (0.25) What was the total number of non availabilities issued over the past five years (1999-2003) divided by the total number of transient rooms as of 30 Sept. 2003 at your installation?

Source: Capacity Data Call (DoD 306, 1.2.6.3.b)

Ratio of number of non-availabilities per total number of transient rooms. Based on responses received, analyst will apply a function for zero to maximum credit.

PS-3a-d. Relative value of community housing availability, affordability and proximity.

PS-3a (0.25) What is the community rental vacancy rate?

Source: Data Call II (Criteria 7 question)

Based on responses received, analyst will apply a function for zero to maximum credit.

PS-3b. (0.25) What is the BAH (E-5 without dependents) for the locality as of 1 Jan 2004?

Source: Data Call II (Criteria 7 question)

Based on responses received, analyst will apply a function for zero to maximum credit

PS-3c. (0.25) What is the BAH (E-5 with dependents) for the locality as of 1 Jan 2004?

Source: Data Call II (Criteria 7 question)

Based on responses received, analyst will apply a function for zero to maximum credit

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PS-3d. (0.25) What is the average commute time for those living off base (source: Census Bureau)? (Time: minutes)

Source: Data Call II

Based on responses received, analyst will apply a function for zero to maximum credit.

Attribute: Personnel Support

Component: Non-Military Education

PS-4a-c. Relative value of dependent primary and secondary education quality in the local community. (Amplification: Local Community is defined as the Military Housing Area (MHA)).

PS-4a. (0.4) What is the total average composite SAT score in the local school districts in the 2002-2003 school year?

Source: Data Call II (Criterion 7)

Based on responses received, analyst will apply a function for zero credit to a maximum credit.

PS-4b. (0.3) What was the pupil/teacher ratio in the local school districts in the 2002-2003 school year?

Source: Data Call II (Criterion 7)

Based on responses received, analyst will apply a function for zero credit to a maximum credit.

~~PS-4c. (0.3) What percent of high school classroom teachers were certified in their subject/core area in the local school districts in the 2002-2003 school year? (%)~~ **JPAT Deleted question due to non-uniformity of answers among states. Re-apportioned a and b to 0.5 each.**

~~*Source: Military Value Data Call (Criterion 7)*~~

~~*Analyst will apply a function to answers from zero to 100 percent.*~~

PS-5a-d. Relative availability of dependent and member post-secondary education in the local community.

PS-5a. (0.4) Does your installation's state charge military family members the in-state tuition rate for higher education? (yes/no)

Source: Data Call II (Criterion 7)

Binary value.

PS-5b. (0.2) How many vocational/technical schools are available in your community? (count)

Source: Data Call II (Criterion 7)

Based on responses received, analyst will apply a function for zero credit to a maximum credit.

PS-5c. (0.3) How many undergraduate colleges/universities are available in the local community? (count)

Source: Data Call II (Criterion 7)

Based on responses received, analyst will apply a function for zero credit to a maximum credit.

PS-5d. (0.1) How many colleges/universities with graduate programs are available in the local community? (count)

Source: Data Call II (Criterion 7)

Based on responses received, analyst will apply a function for zero credit to a maximum credit.

Attribute: Personnel Support

Component: Employment

PS-6a-b. Relative opportunity for dependent/off-duty employment.

PS-6a. (0.5) What were the annual unemployment rates for the 5-year period of 1999-2003? (%)

Source: Data Call II (Criterion 7)

Based on responses received, analyst will apply a function for zero credit to a maximum credit.

PS-6b. (0.5) What was the annual covered employment (job growth) for periods 1998-2003? (%).

Source: Data Call II (Criterion 7)

Based on responses received, analyst will apply a function for zero credit to a maximum credit.

Attribute: Personnel Support

Component: MWR / MCCS / Family Services

PS-7. Relative availability of base services.

PS-7. Which Support Services facilities are located at your installation?

<u>FACILITY</u>	<u>Available (yes/no)</u>	<u>Value</u>
Commissary		0.4
Exchange		0.2
Family Service Center		0.2
Convenience Store		0.1
Religious Support Services		0.1
TOTAL		1.00

Source: Data Call II

Binary values.

PS-8a-b. Relative availability of child development services.

PS-8a. (0.5) What is the average wait to enroll (in days) for on-base child care? (Count: days)

Source: Data Call II

Based on responses received, analyst will apply a function for zero credit to a maximum credit.

PS-8b. (0.5) How many licensed and/or accredited child care centers do you have in your community (MHA)?

Source: Data Call II (Criterion 7)

Based on responses received, analyst will apply a function for zero credit to a maximum credit. Normalize total population.

Attribute: *Personnel Support***Component: *MWR / MCCS / Family Services (con't)***

PS-9. Relative availability of MWR/MCCS facilities.

PS-9. Which MWR facilities are located at your installation? (y/n)

<u>FACILITY</u>	<u>Available (yes/no)</u>	<u>Value</u>
Gymnasium/Fitness Center		0.3
Swimming Facilities		0.2
Golf Course		0.1
Youth Center		0.1
Officer/Enlisted Club		0.1
Bowling		0.03
Softball Field		0.02
Library		0.01
Theater		0.01
ITT		0.01
Museum/Memo rial		0.01
Wood Hobby		0.01
Beach		0.01
Tennis CT		0.01
Volleyball CT (outdoor)		0.01
Basketball CT (outdoor)		0.01
Racquetball CT		0.01
Driving Range		0.01
Marina		0.01
Stables		0.01
Football Field		0.01
Soccer Field		0.01
TOTAL		1.00

*Source: Data Call II**Binary value.*

Attribute: Personnel Support

Component: Follow-on Tour Opportunities

PS-10. Relative opportunity for follow-on tour in same geographic region.

PS-10. For the top five ratings / occupational fields at your installation, provide the following: (Text: Counts)

Rating / Occ Fld	# of Sea/FMF Billets in Local Area	#of Shore/SE Billets in Local Area

Source: Data Call II

Based on responses received, analyst will apply a function for zero credit to a maximum credit.

Attribute: *Personnel Support*

Component: *Metropolitan Area Characteristics*

PS-11. Relative proximity to a population center/city that has a population greater than 100,000.

PS-11. What is the distance in miles to the nearest population center/city that has a population greater than 100,000?

Source: Data Call II (Criterion 7)

Based on responses received, analyst will apply a function for zero credit to a maximum credit.

PS-12. Relative proximity to the nearest commercial airport that offers regularly scheduled service by a major airline carrier.

PS-12. What is the distance in miles to the nearest commercial airport that offers regularly scheduled service by a major airline carrier?

Source: Data Call II (Criterion 7)

Based on responses received, analyst will apply a function for zero credit to a maximum credit.

PS-13. Relative local crime rate.

PS-13. What is the FBI Crime Index for your activity's location (MHA)? (source: FBI Crime Index 2002; <http://www.fbi.gov/ucr/ucr.htm>) (Numeric)

Source: Data Call II

Based on responses received, analyst will apply a function for zero credit to a maximum credit.

GROUND OPERATIONS FUNCTION MILITARY VALUE MATRIX

MV Matrix #	Supporting Data	DC	IAT	Question(s)	Call	Band	Attribute Weight	SC	Readiness						Facilities						Surge Capabilities						Cost/MP Impl						Weight	
									OT	BC	EE	PS	OI	OT	BC	EE	PS	OI	OT	BC	EE	PS	OI	OT	BC	EE	PS	OI	OT	BC	EE	PS		
Matrix Scoring Statement								IEG Score	13	18	10	5	5	5	5	6	5	2	2	3.8	4.5	3	3	0.8	3.8	3	2.3	3	3	15				
OPERATIONAL INFRASTRUCTURE																																		
Operational Staff Facilities																																		
1	GRD-1						25	5	1																								6.8279	
2	GRD-2a-d						2	6	1																								3.1036	
3	GRD-3a-c						1	10	1																								3.7243	
4	GRD-4a-b						2	7	1																								7.4565	
Receiving and Staging Areas																																		
5	GRD-5						2	6	1																								4.9141	
6	GRD-6a-c						2	7	1																								2.5424	
Intermediate Supply and Maintenance																																		
7	GRD-7						2	5	1																								8.0693	
Munitions Handling and Storage																																		
8	GRD-8						2	6	1																								3.7243	
9	GRD-9						2	7	1																								4.345	
Unique / Specialized Capabilities & Missions																																		
10	GRD-10						2	5	1																								2.6463	
Relative value of the installation to store and handle Class V(W) ground ordnance.																																		
11	GRD-11						2	6	1																								0	
Relative value of unique capabilities or missions.																																		
12	GRD-12						2	7	1																									2.6463
Relative value of specialized capabilities or missions.																																		
Question Total																																	25.0	

Preliminary Military Value Analysis - Naval Ground
DCN 564

5/20/2005

Naval Ground Operations Military Value Analysis															
			Overall Weight (%)	CBC GULFPORT MS	CG MAGTF TRINGCOM	CG MCB CAMP LEJEUNE NC	CG MCB CAMPEN	CG MCB HAWAII	NAS FALLON NV	NAS NORTH ISLAND (NB CORONADO)	NAVBASE VENTURA CTY	NAV MARIANAS UPPACT GU	NAVPHIBASE LITTLE CREEK VA	NAVSTA PEARL HARBOR HI	
Operational Infrastructure (25)															
1	GRD-1	admin	3.10	0.57	0.39	3.10	2.40	0.37	0.00	0.96	1.26	1.98	0.14	0.15	
2	GRD-2	C4I	3.72	0.12	0.05	2.20	1.77	1.83	1.04	0.71	0.61	0.09	1.34	1.51	
3	GRD-3	rsoi	4.91	0.90	0.32	1.23	1.46	0.83	1.57	1.96	2.69	2.46	0.00	2.91	
4	GRD-4	res mob	2.54	2.33	0.00	2.44	2.03	0.00	0.00	0.00	1.67	2.54	0.00	0.00	
5	GRD-5	storage	3.72	2.15	0.07	2.43	2.23	0.09	0.09	0.07	3.72	1.79	0.00	0.00	
6	GRD-6	maint	4.34	2.17	3.26	4.35	4.35	4.35	1.09	3.26	3.26	2.17	3.26	0.00	
7	GRD-7	ord	2.64	0.00	0.00	1.97	1.94	0.11	1.32	1.15	0.00	0.02	0.05	0.00	
Operational Infrastructure TOTAL			25.00	8.24	4.10	17.71	16.17	7.58	5.10	8.12	13.21	11.05	4.79	4.58	
Operational Training (31)															
10	GRD-10	sims	2.12	0.16	0.05	1.12	2.13	0.09	0.01	0.00	0.01	0.00	0.02	0.02	
11	GRD-11	staff trng	1.82	0.00	1.82	1.82	1.82	1.82	1.82	1.82	1.82	0.00	1.82	0.00	
12	GRD-12	mob trng	1.21	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	0.00	
15	GRD-15	ind fire	3.03	0.30	2.56	2.49	2.94	0.69	0.42	0.69	0.16	0.00	0.24	0.30	
16	GRD-16	sm arms	2.73	0.96	1.95	1.72	1.85	1.00	0.96	0.63	0.55	0.34	0.96	0.96	
17	GRD-17	hv guns	2.73	0.27	1.83	1.89	1.96	0.99	0.70	0.27	0.14	0.00	0.21	0.27	
18	GRD-18	tank	2.73	0.27	2.04	1.83	2.64	0.27	0.00	0.17	0.20	0.00	0.21	0.00	
19	GRD-19	eod	2.73	0.27	1.83	2.35	2.20	1.10	0.72	0.27	0.27	1.17	1.44	0.27	
20	GRD-20	laser	2.73	0.00	1.05	2.23	1.41	0.00	0.17	0.24	0.00	0.08	0.01	0.02	
21	GRD-21	cas	3.03	0.61	2.81	2.93	2.83	0.26	2.43	2.78	0.61	2.43	0.48	0.61	
22	GRD-22	maneuver	3.03	1.52	2.92	1.98	1.86	1.51	1.78	1.87	1.74	1.56	1.82	0.30	
23	GRD-23	amphib	3.03	0.00	0.00	1.00	1.72	0.05	0.00	1.36	1.82	0.54	0.97	0.91	
Operational Training TOTAL			31.00	5.59	20.09	22.59	24.57	9.00	10.22	11.33	8.54	7.33	9.41	3.67	
Base Characteristics (20.25)															
25	GRD-30	land	3.71	0.13	3.39	3.72	1.69	1.60	3.72	0.61	0.39	2.51	0.21	0.00	
26	GRD-31a-b	facilities	2.29	1.80	2.30	1.31	0.69	1.37	1.56	2.18	2.17	0.65	2.29	2.22	
27	GRD-32	location	1.35	0.00	1.02	1.02	1.02	0.00	1.02	1.02	0.00	1.02	1.02	0.00	
28	GRD-33	strategic	3.21	0.00	0.00	0.00	0.00	3.21	0.00	0.00	0.00	3.21	0.00	3.21	
29	GRD-34a-b	apoe	2.41	2.38	0.58	1.12	0.68	1.33	1.25	2.42	1.23	0.98	1.28	1.33	
30	GRD-35a-b	spoe	2.41	1.93	0.57	0.99	0.83	1.25	0.17	1.17	2.42	1.11	2.15	1.31	
31	GRD-36a-c	rail/hwy	2.75	2.14	1.10	2.75	2.43	1.10	1.71	2.13	2.75	1.10	1.74	1.10	
32	GRD-37	restrict	0.50	0.51	0.51	0.51	0.00	0.51	0.51	0.00	0.51	0.20	0.00	0.46	
33	GRD-38a-b	at/tp	0.47	0.11	0.05	0.01	0.02	0.00	0.04	0.24	0.22	0.00	0.05	0.24	
34	GRD-39	ecps	0.47	0.48	0.00	0.48	0.48	0.00	0.00	0.00	0.48	0.00	0.00	0.00	
35	GRD-40	utilities	0.47	0.48	0.24	0.48	0.24	0.00	0.00	0.48	0.48	0.24	0.00	0.00	
36	GRD-41a-b	loc costs	0.13	0.14	0.05	0.10	0.07	0.01	0.10	0.07	0.05	0.00	0.10	0.01	
Total Base Characteristics			20.25	10.09	9.79	12.48	8.14	10.38	10.06	10.30	10.70	11.02	8.84	9.88	

