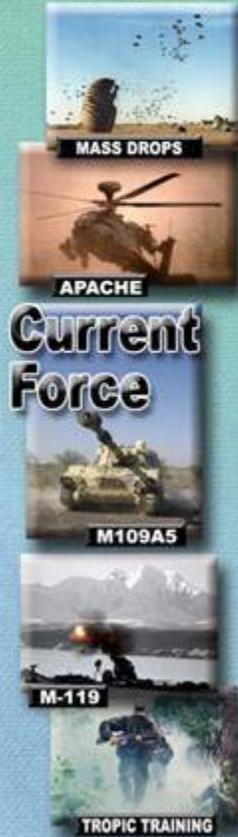
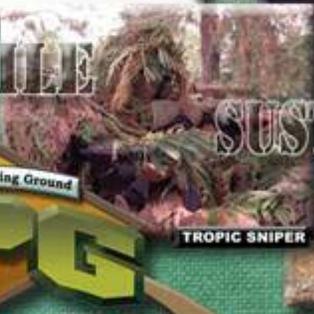




U.S. Army Yuma Proving Ground Supporting Our Army at War



VERSATILE



SUSTAINABLE



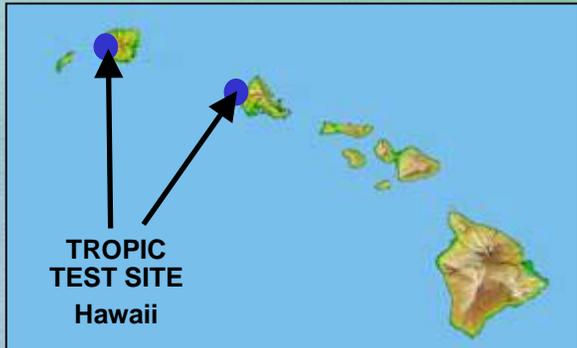


Yuma Proving Ground Satellite Activities



Cold Regions Test Center

- 670,713 acres; 254,000 acres of impact area
- Airspace designated user and range priority
- Tracked and wheeled vehicle mobility courses
- Instrumented ranges
- Assault strips and drop zones
- C5 runway (winter)



Tropic Regions Test Center

- Access to numerous test sites in Panama through Cooperative Research and Development Agreements
- Contractor support HQs in Panama City
- Tropic test sites in Hawaii (Schofield Barracks, Naval Magazine Lualualei and Pacific Missile Range Facility)





Vision and Mission Areas



YPG Vision

Supporting Our Army at War by providing the best flexible, responsive, innovative, and diverse set of capabilities and services across the spectrum of natural environments.

Mission Areas:

- **Support the Army at War**
- **Command Yuma Proving Ground, including Yuma Test Center, Yuma Garrison, Cold Regions Test Center, Tropic Regions Test Center**
- **Manage and coordinate YPG as a Major Range and Test Facility Base (MRTFB)**
- **Support and manage YPG as a Joint Testing and Training Range**
- **Develop and support the Army's Natural Environment Test capabilities**
- **Develop and support Virtual Proving Ground initiatives**



YTC Ground Combat Systems Core Mission Activities



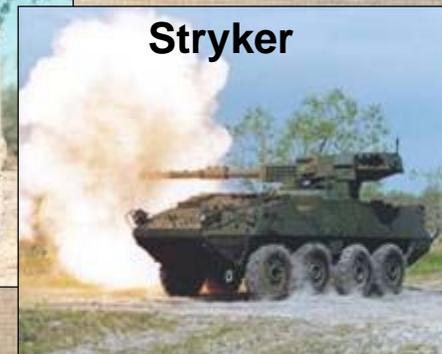
• CURRENT PROGRAMS

- Stryker (IOT&E of Mortar Carrier Vehicle)
- Preceptor – Robotics for FCS
- FCS NLOS Concept Demonstrator
- Anti-Personnel Landmine Alternative (Spider)
- M1114 Up-Armored HMMWV FPT
- M915 Family of Heavy Tactical Vehicles
- M3A3 Bradley Fire Support (BFIST)
- Light Armored Vehicle - 25 (LAV-25) Improved Thermal Sight System (ITSS)
- M1A2 Abrams APIVT XV and SEP Tanks
- Selectable Lightweight Attack Munition
- M777 Lightweight 155 Howitzer

120mm Mortar



Stryker



Lightweight Howitzer



FCS NLOS-C CD



• CORE COMPETENCIES

- Large Caliber Munitions
- Munitions Production Acceptance
- Mine/Countermines
- Smart Munitions
- Integrated Armored & Artillery Systems
- Direct Fire Weapons
- Weapon Systems Testing
- Vehicle Target Acquisition Systems
- Automotive Systems Performance
- Heavy Equipment Transport Systems
- Desert Environmental Testing
- Robotics



YTC Air Combat & Soldier Systems Core Mission Activities



• CURRENT PROGRAMS

- Improvised Explosive Devices (IEDs)
- Advanced Tactical Parachute System (ATPS)
- C-130J Airdrop Qualification
- Precision Airdrop Technology Development
- Low Cost Aerial Delivery System
- Apache Modernized Target Acquisition Designation Site (MTADS)
- Comanche Mission Equipment/Weapons
- Kiowa Warrior Software Validation
- Expendable UAV Systems
- AC-130 Gunship Sensor Technologies



• CORE COMPETENCIES

- Integrated Aviation Systems
- Aircraft Munitions and Weapons
- Precision Navigation Systems
- Target Acquisition Systems
- Unmanned Aerial Vehicles
- Personnel Parachute Systems
- All Classes of Cargo Air Delivery Systems
- Guided Parachute System Technologies
- Materiel Qualification for Air Drop (including munitions)
- Soldier Systems
- Desert Environmental Testing



YTC Desert & Hot Weather Testing Core Mission Capabilities

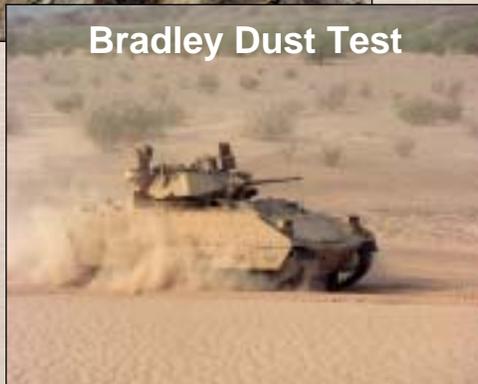


- **CORE COMPETENCIES**

- Automotive Systems Performance
- Durability
- Heavy Equipment Transport
- Tire Testing



Laguna Test Complex



Bradley Dust Test

M978 Heavy Expanded
Mobility Tactical Truck



Slope Test



- **CAPABILITIES**

- 200 miles of Surveyed and Profiled Test Courses; 200 Miles of Surveyed Trails
- Sand and Dust Courses
- Mid-East Test Course
- Dynamometer Test Course
- Paved and Sand Dynamometer Courses
- Imperial Sand Dunes
- Desert Terrain/Durability Test Courses
- Tire Test Courses
- Evasive Maneuver and Brake Test Area
- Specialized Vehicle Instrumentation
- High Temperature Areas



CRTC

Core Mission Activities



• CURRENT PROGRAMS

- Stryker
- M777 Lightweight 155 Howitzer
- High Mobility Artillery Rocket System (HIMARS)
- Guided Multiple Launch Rocket System (GMLRS)
- Mongoose – Mine Clearing
- XM8 Rifle (5.56, 40mm, 12 gauge)
- SOCOM Sympathetic Detonator (SYDET)
- Commercial Vehicle Testing



Stryker

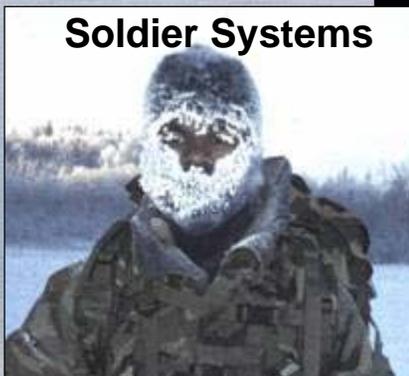


Apache Hellfire

• CORE COMPETENCIES

Cold Regions Testing of

- Individual Soldier Systems
- Armored & Artillery Systems
- Large Caliber Munitions
- Smart Munitions
- Direct Fire Weapons
- Automotive Systems Performance
- Heavy Equipment Transport
- Aircraft Munitions and Weapons
- Sensors/Target Acquisition Systems



Soldier Systems



Lightweight Howitzer



TRTC

Core Mission Activities



• CURRENT PROGRAMS

- XM-8 Rifle
- Joint Services Lightweight Standoff Chemical Agent Detector (JSLSCAD)
- Joint Service General Purpose Mask
- Joint Protective Aircrew Ensemble
- Joint Chemical Agent Detector (JCAD)
- Handheld Standoff Mine Detection System (HSTAMIDS)
- Line-of-Sight Research Project
- Foliage Penetrating Radar
- UAV/Sensor Test



• CORE COMPETENCIES

Tropic Regions Testing of

- Individual Soldier Systems
- Mine Countermine Systems
- Sensors/Target Acquisition Systems
- Chemical/Biological Protective Systems
- Chemical/Biological Detectors
- Automotive Systems Performance
- Communications/Electronics Systems
- Exposure Testing
- Human Factors Engineering





Natural Environment Test Center of Excellence Core Mission Activities



MISSION:

- Champion Army and Joint materiel and equipment testing in the natural desert, tropic, and arctic environments.
- Provide expertise and advice to operational units.
- Develop and maintain capabilities to support natural environment testing and training for future systems.
- Develop a data base of natural environment effect “lessons learned” to aid future testing and training

The Natural Environments:

Cold: Cold Regions Test Center, Ft Wainwright/Bolio Lake, AK

Tropic: Tropic Regions Test Center - Hawaii, Panama

Desert: Yuma Test Center, Yuma, AZ



YPG Contributions to Our Army at War



- **Improvised Explosive Devices (IED) detection and analysis**
- **Apache (A model) & Hellfire model compatibility test**
 - Apaches in Theater uploaded 4 hours after test completion
- **M198 Breech Obturation Study**
 - Problems with split rings on USMC's M198 falling out of spec after a few rounds at high zone (M203A1)
- **MCAS AH-1 Unit Pre-deployment Target Recognition**
- **Shortstop Remote Mine Jamming**
- **Lightweight Counter Mortar Radar Testing (SOCOM)**
- **Vehicle Body Armor Support System (V-BASS) Initial Assessment (Heat Stress Test)**
- **Special operations units (SEALs/SF/others) trained prior to deployment**
- **NAVSEA and NAVAIR Unmanned Aerial Vehicle projects**
 - Test of resupply pods dropped from UAVs to special operators
 - “Lot acceptance” testing of TERN and MAKO model UAVs for immediate deployment
 - Development of vehicle launch techniques for UAVs configured without landing gear (i.e. “Killer Herc”)





Yuma Proving Ground FY03 Test and Training Activity Summary



	Sorties	Air Drops		Rounds Fired	Miles Driven
		Cargo	Personnel		
Ground Systems				438,164	195,808
Air Delivery	546	1,650	167		
Air Armament	1,462			31,867	
Freefall	1,526		28,454		
Golden Knights	493		5,559		
Training	24*	82		44,781	

TOTALS: 4,051 1,732 34,180 512,812 195,808

**A synergy between ground and air testing
and training already in place**

**481
Test
Programs**

*Does not include Army, Navy, Air Force and Marine Corps use of airspace not associated with YPG ground training.



Yuma Training Events



	FY02	FY03	FY04 (to date)
Army	4	8	8
USMC	23	18	13
Air Force	3	4	1
Navy	2	2	1
Joint Services	0	1	1
Guard/Reserves	4	9	2
Special OPS	0	2	1
Homeland Security	1	0	1
Foreign Units	1	2	1
Private Industry	0	1	0
Community Programs	1	1	1
Total	39	48	30



FY02: 5,673 personnel
FY03: 4,787 personnel
FY04: 2,369 (to date)



YPG supports all branches of the US Military Services, Guard and Reserve Components, Allied Foreign Military Services, and Homeland Security



Investment: Instrumentation and Production Base Support Funding



Description

Funding to support testing items in production and future test requirements



Item

Budget (\$K) & Schedule

**Instrumentation:
Telemetry Expansion**

FY04	FY05	FY06
\$1640	\$820	\$820

PBS:

OPA

\$1286

Weapons/Track

\$1735

Ammunition

\$ 734

Weapons /Components

\$ 635



Master Plan Funded & Proposed Construction Projects



- Aircraft Armament Range Improvement (F)
- Power Grid Improvements

- Dynamometer Complex Support Bldg (F)

- Aircraft Armament Engineering Center (F)
- Aircraft Armament Test & Maint Facilities (F)
- Armament Test Ops & Analysis Facilities
- Aviation Munitions & Weapons Support Facilities
- Guided Systems Test Facility
- Vertical Wind Tunnel

- Family Housing Replacement (F)
- AAFES Mini Mall (F)
- Addition to Youth Center
- Renovate Transient Barracks
- Renovate Health Clinic
- Wastewater Treatment Facilities Improvements

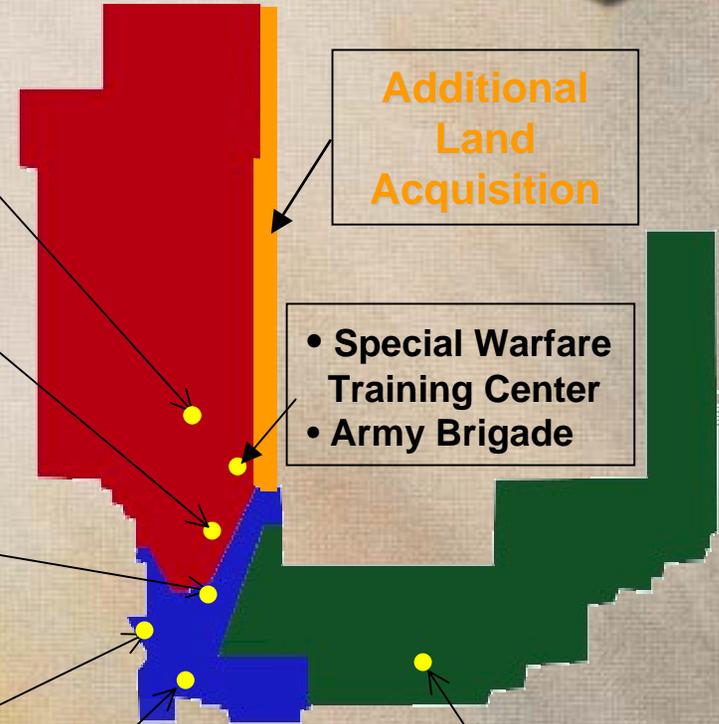
- Boneyard
- Pass & ID Visitor Center

- Improved Range Roads
- Combat Systems Test Range Upgrade

(F) - Funded

Additional
Land
Acquisition

- Special Warfare Training Center
- Army Brigade





U.S. SOCOM Military Free Fall School



- Will conduct more than 30,000 jumps per year (2,500 jumps a month/125 jumps per day)
- Graduates (approx) per year:
 - 650 basic military freefall parachutists
 - 240 military freefall jumpmasters
 - 32 advanced military freefall parachutists
- Permanent presence at YPG since 1994
 - Army & Air Force adding more students in FY04
- MFFS partnering with YPG to build Vertical Wind Tunnel Training Facility
 - Future Vertical Wind Tunnel will support all western SOF unit training requirements
 - Potential users include Army Golden Knights, Navy Leap Frogs & SEALs, and British RAF Falcons
 - Currently developing Cost Benefit Analysis



SOF \$5.2M

Improved quality of training: increased live jump opportunities, increased safety, increased number of classes per year!



Base Housing



- **Current plan -- 114 new houses**
- **FY03- replace 25 units \$6.1M**
- **FY05- replace 55 units \$14.9M**
- **FY07- replace 34 units \$8.5M**
- **Energy Star Compliant, increased living space & storage, modern floor plans, neighborhood upgrades**





Cold Weather Test Track



- \$8.9M in FY04 funding
- 35% design review completed 30 Jan 04
- 95% design completed
- Ground Breaking (site preparation) as soon as ground thaws
- Construction contract
 - Expedited award of fixed price contract to Alaska Native Corporation
 - A & E contractor will remain part of team to complete process



**3.2 mile oval
82 mph
sustained capability**

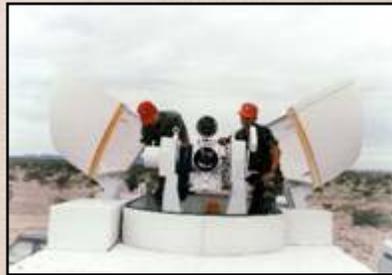
GOAL: Facility Operational by October 2004



YPG Instrumentation and Equipment



**\$520M
Instrumentation
& Equipment**





Investment Programs



• Advanced technologies require

- Extended ranges
- Expanded airspace
- Increased safety fans
- Isolated, secure test area
- Realistic battlefield simulations
- Realistic target arenas
- Encroachment free environment
- Robotics
- Joint System of Systems
- Huge Data Files

• Instrumentation Thrusts

- Network Centric Warfare Test & Training Range
- Maintain long range radar tracking capability
- Improve range communications
- Develop distributed testing capability
- Build modeling & simulation infrastructure
- Sustain existing instrumentation

Instrumentation Development Acquisition Program (\$K)

<u>Fund Type</u>	<u>FY04</u>	<u>FY05</u>	<u>FY06</u>	<u>FY07</u>	<u>FY08</u>	
Production Base Support	3,970	3,496	3,688	4,485	4,796	
SNI		2,500	2,612	3,346	3,747	3,789
Methodology/VPG	2,625	2,226	2,413	2,027	3,626	
Revitalization/Upgrade	1,380	-	-	-	-	
FCS		1,640	1,620			

Customer provided \$3.2M in FY03 for instrumentation and facilities



Existing FY04 YPG Contracts



Mission Overhead Funded

Safety Engineering APT Range Svcs	\$1,367,212
UXO	\$ 280,000
Houston Photo	\$ 75,000
Calibration	\$ 539,587
ECIII Subcontractors	\$ 460,448
ECIII Range Support	\$5,626,862
TSSI Material Sampling	\$ 480,000



Projected Contract Renewals



Contract Title	Objective	Type	Duration	RFP Release Date	Est Award Date	SBSA	Comments
Water Treatment	Operation, Maintenance and Repair of Water Treatment Plant and Repair of Individual Water Treatment Systems Materials	FFP	5 YR	4th Qtr FY04	4th Qtr FY04	100%	FY05 Contract
Range Safety	Design a Safety and Education Program Implement and operate the approved Safety and Education Program. Operate Approved Safety and Education Program.	FFP	5 YR	4th Qtr FY04	4th Qtr FY04	100%	FY05 Contract
Propane	To provide Liquid Propane	FFP	2 YR	4th Qtr FY04	4th Qtr FY04	100%	FY05 Contract
Film Processing	Film formats include 16mm color, 35mm color, 70mm color, 16mm black and white, 35 mm black and white, 70 mm black and white and 5.5 inch black and white film.	IDIQ	2 YR	4th Qtr FY04	4th Qtr FY04	100%	FY05 Contract
Installation Support Services	Provide technical and professional personnel for operations, maintenance, repair and minor construction/alteration of real property facilities to include Family Housing and equipment in place.	CPAF	8 YR	2nd Qtr FY04	4th Qtr FY04	100%	FY05 Contract
Custodial Services	Regularly scheduled custodial services at the US Army Yuma Proving Ground	FFP	8 YR	3rd Qtr FY04	4th Qtr FY04	100%	FY05 Contract - Set-Aside for 8a or NISH
Porta-Potty Services	Furnish all labor, material, equipment, transportation and supervision portable chemical toilets at fixed locations, including weekly cleaning and pumping.	FFP	3 YR	3rd Qtr FY04	4th Qtr FY04	100%	FY05 Contract
Bottled Water Services	Water Supply Delivery to include dispensers, chiller rental, bulk potable water, and bulk purified water	FFP	2 YR	3rd Qtr FY04	4th Qtr FY04	100%	FY05 Contract
Industrial Hygienist	Provide Industrial Hygienist services on an as needed basis	IDIQ	5 YR	3rd Qtr FY04	4th Qtr FY04	100%	FY05 Contract

Further contract information may be found on the World Wide Web at <http://www.yuma.army.mil/contracting/index.html>



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