

Tactical Wheeled Vehicle Conference



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MG Joe M. Ernst
Assistant Deputy Commanding General – USAR
U.S. Army Materiel Command





AMERICA'S ARMY RESERVE



- Forward Presence*
- Peace Enforcement*
- Humanitarian Support*
- Domestic Support/Community Assistance*
- Partnership for Peace*
- Overseas Duty Training*



Power projection

- Transportation Terminal Units
- Garrison support
- Installation medical support



Trained and ready

- Combat Support/Combat Service Support
 - 424 Force Support Package units
 - 73% of the forces deployed in Bosnia are RC
- JOINT READINESS UNITS – TROOP PROGRAM UNITS
INDIVIDUAL MOBILIZATION AUGMENTEES - IRR





CS/CSS TRANSFORMATION OBJECTIVES



- Reduce strategic lift requirements
- Reduce logistics footprint in area of operations
- Reduce inventories through management of requirements; reduction in overhead and duplicative operations; and reduction in requisitioning, shipping and receiving errors
- Reduce costs through reduced inventories and force structure





ARMY RESERVE CSS TRANSFORMATION



- **Optimize force structure**
- **Maintain readiness**
- **Single Theater CS/CSS (Theater Support Command)**
- **Split Operations**
- **Enhance science and technology application (strategic storage)**
- **Forward presence**

42% of the Army's CSS structure is in the USAR





ENABLERS AND INITIATIVES



Concept

- Change logistics doctrine
- Optimize Logistics
- Change Business Processes
- Reduce Requirements
- Improve/upgrade/right-size Infrastructure
- Field Improved Logistics Equipment (enablers)
- Exploit Science and Technology

- Intermediate Staging (Support) Base
- Split-Based & Reach Operations
- Leverage Contractor/Host Nation Support

- National Maintenance Program
- Velocity Management
- Dollar Cost Banding
- Single Stock Fund
- Recapitalization
- Enhance Strategic Response
- Meet Deployment Timeline

- Depots
- Containment Projection Platforms

- Diagnostic and Prognostics
- Precision Munitions
- Fuel Efficient Systems
- Common Chassis

Logistic Enablers are the Key to Success

- Common Unit Design
- Reach Operations
- Intermediate Staging (Support) Base
- Distribution Based Logistics
- Standardized Strategic/Mission
- Combat Configured Loads

- Cultural Change
- Update Planning Factor and Allocation Rules
- Identify and Validate ASOS

- Palletized Load System
- Containerized Kitchens
- Laundry Advanced Systems
- Family of Medium Tactical Vehicles
- Tactical Fire Fighting Truck
- All Terrain Lifter Army System
- M878 Yard Tractor
- Heavy Dry Support Bridge
- Rough Terrain Cargo Handler





OBTAINING EQUIPMENT



- **New Procurement**
 - Projected in Procurement-1R submission
 - Funded through Other Procurement, Army appropriation
- **The Redistribution or Cascading of Equipment from the Active Component**
 - The Army Reserve has 42% of the Army's combat service support structure
 - As such, little combat service support equipment is cascaded from the Active Component to the Army Reserve
 - Likewise, little or no funding accompanies the equipment that is cascaded to restore it to the appropriate standards
- **Recapitalization of Old (Legacy) Equipment**
 - The rebuild and selected upgrade of currently fielded systems to a zero mile/zero time system
- **Congressional Adds**
- **National Guard and Reserve Equipment Appropriation (NGREA)**
 - Started in 1981, NGREA is congressional directed program providing funds to the Reserve Components to improve readiness.
 - It enables economical stewardship of resources by providing the Reserve Components with flexibility to acquire new equipment and rebuild/overhaul/refurbish existing systems.

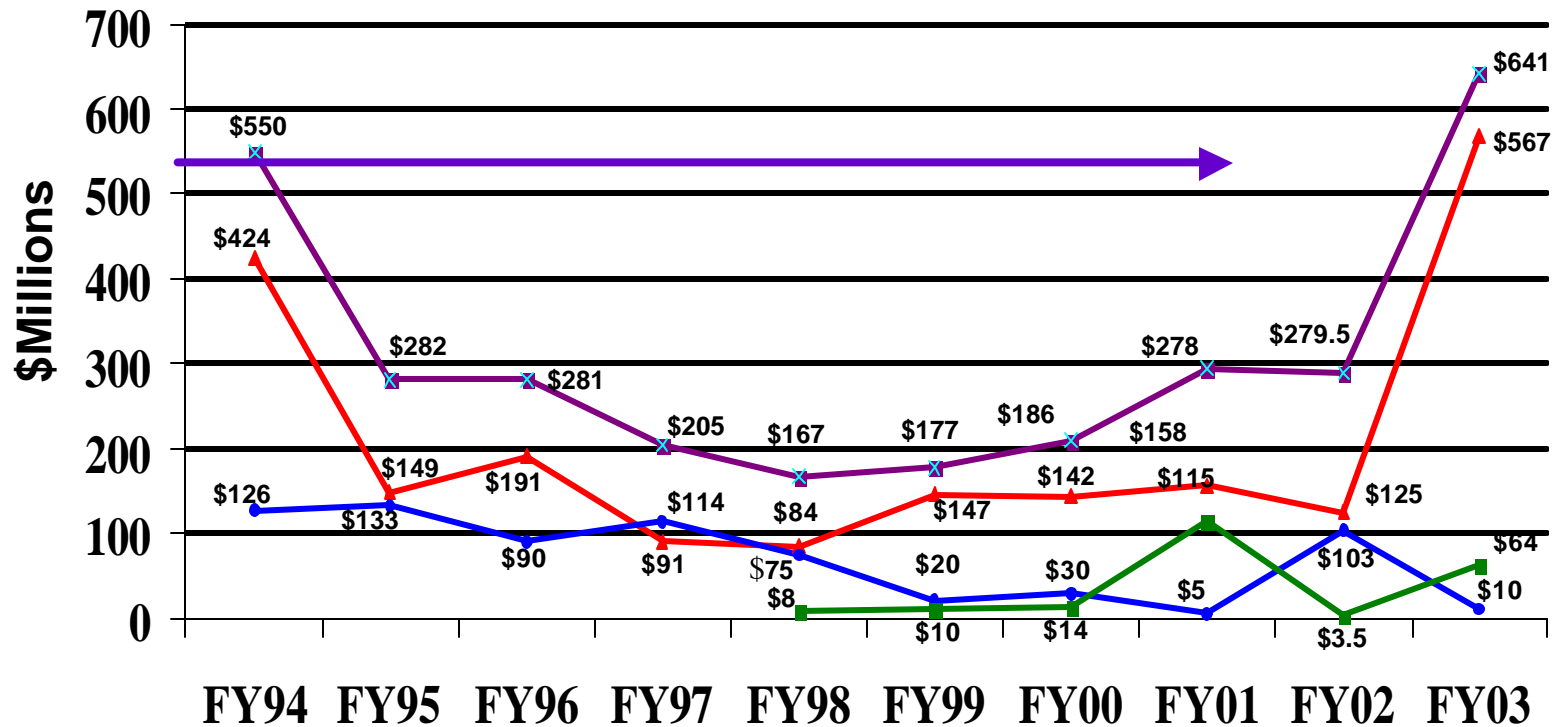




ARMY RESERVE MODERNIZATION CHALLENGE



ARMY RESERVE PROCUREMENT



▲ P-1R
 ● NGREA
 ■ Cong Adds
 ✕ Total

Army Reserve
 POM Target
 \$400 Million
 Annually

SOURCE: FY04 BES P-1R, dtd NOV 02





ARMY RESERVE TOP TEN UNFUNDED MODERNIZATION REQUIREMENTS



EQUIPMENT ITEM	TOTAL REQ.	OH HAND	*ALL SOURCES FY2000-2009	SHORT	ITEM COST	TOTAL COST
FAMILY MEDIUM TACTICAL VEHICLE (FMTV) 2.5 & 5 -TON TRUCKS	13296	392	1738	11166	167,967	\$1,875,519,522.00
HIGH MOBILITY MULTI-PURPOSE WHEELED VEHICLE (HMMWV)	17533	10795	1483	5275	127,000	\$669,925,000.00
HIGH FREQUENCY (HF) RADIO	1750	218	188	1344	42,514	\$57,138,816.00
ALL TERRAIN LIFTING ARMY SYSTEM (ATLAS) 10K	946	415	470	61	100,199	\$6,112,139.00
CONTAINER ASSEMBLY REFRIGERATION 9K BTU	312	108	56	148	58,326	\$8,632,248.00
DEPLOYABLE MEDICAL SYSTEMS	361	240	8	113	3,000,000	\$339,000,000.00
M871A3 22.5 TON SEMI-TRAILER	1707	1266	420	21	35,000	\$735,000.00
MOVEMENT TRACKING SYSTEM	10573	0	708	9865	12,000	\$118,380,000.00
TRUCK ROUGH TERRAIN CARGO HANDLER (RTCH)	275	32	122	121	525,000	\$63,525,000.00
ALL TERRAIN CRANE (ATEC) 25 TON	164	127	0	37	250,000	\$9,250,000.00
TOTAL:						\$3,148,217,725.00

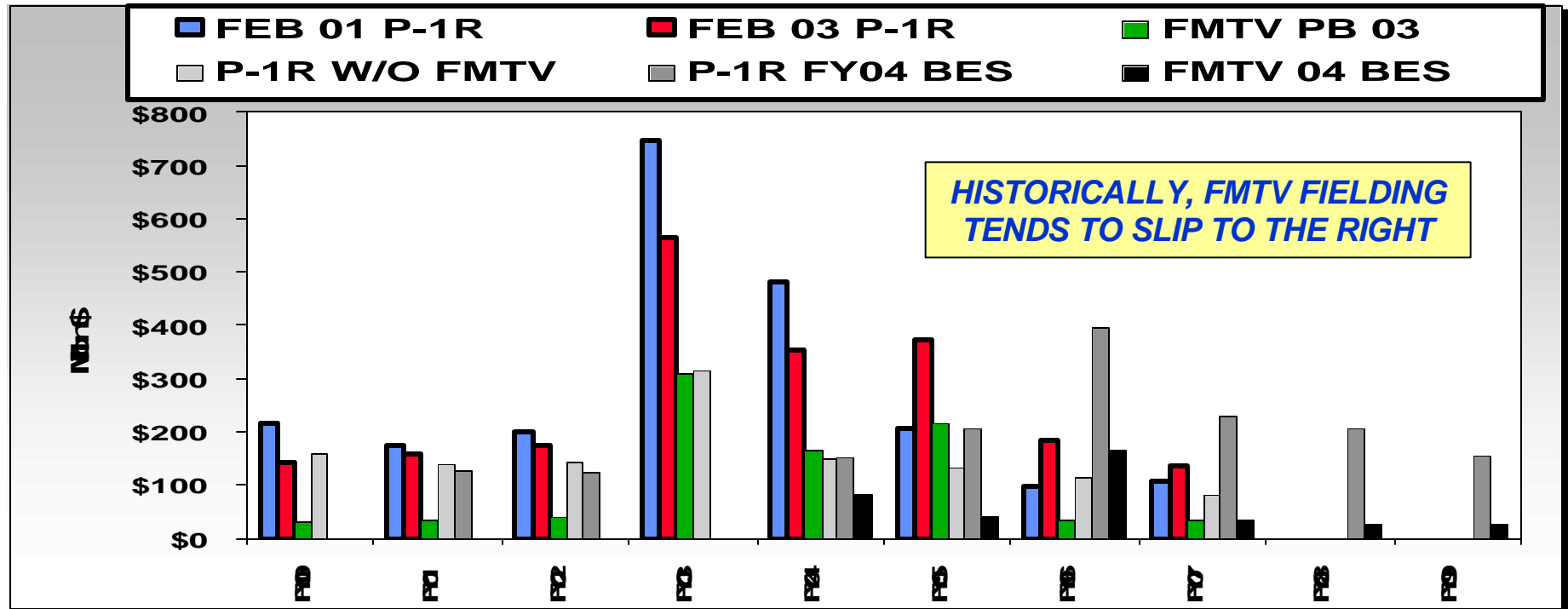
*ALL SOURCES = P1-R, NAREA, CONG ADDS

Total UFR = \$3.1B





ARMY RESERVE P-1R PROJECTIONS (EXCLUDES AMMUNITION)



	FY00	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09
FY01 PB P-1R	\$214	\$174	\$200	\$747	\$481	\$206	N/A	N/A	N/A	N/A
FY03 PB P-1R	\$142	\$158	\$173	\$567	\$353	\$374	\$182	\$137	N/A	N/A
FY03 PB FMTV	\$32	\$34	\$38	\$309	\$165	\$214	\$34	\$33	N/A	N/A
P-1R W/O FMTV	\$110	\$124	\$135	\$258	\$188	\$160	\$148	\$104	N/A	N/A
P-1R FY 04 BES	N/A	\$127	\$125	N/A	\$151	\$206	\$395	\$230	\$204	\$153
FY04 BES FMTV	N/A	N/A	N/A	N/A	\$82	\$42	\$167	\$35	\$26	\$26





ARMY RESERVE EQUIPMENT



ITEM	*EUL	HALF LIFE	AVG AGE	MOD ITEM	STATUS
2.5 Ton Truck	20	10	31	LMTV	RED
5 Ton Truck	22	11	24	MTV	AMB
M915 Line Haul Tractor	20	10	16	M915A3	AMB
20 Ton & 5 Ton Dump Truck	15/22	11	24	M917A1	RED
40 Ton Crawler Crane	15	10	42	ENGR CRANE	RED
CUCV	12	6	16	HMMWV	RED
5 Ton Yard Tractor Truck	10	5	21	M878A2	RED
HMMWV	15	8	10	HMMWV	AMB

*EUL = Economic Useful Life

RED = Inadequate

GRN = Adequate

AMB = Border Line





READINESS CAPABILITIES



SUBSTITUTIONS EXAMPLES

Technology: 1990s



LMTV
REQ
4512

Technology: 1960s



2.5T
SUBS/ILO
4270

Current Inventory: 242 LMTVs

SUBS/ILO
95%

Lack of common chassis and spares delays Transformation Goals (Reduced Log footprint)

IN-LIEU-OF EXAMPLES



HDSB (2000)
REQ
28



MGB (1972)
SUBS
12



Bailey (1942)
ILO
5

\$28 million Eliminates ILO Bridges in 35% of Army Bridge Units

SUBS/ILO
60%

In-lieu-of items indicate A skipped generation of equipment

Technology: 1990s

Technology: 1960s

Technology: 1940s

Counterattack Corps is supported with 30-50 year old bridges

If an authorized substitute is not fielded, the older item will be designated as in-lieu-of the new item for USR purposes. (AR 220-1)





TACTICAL WHEELED VEHICLE CONCERNS



FAMILY OF MEDIUM TACTICAL VEHICLES



REQ: 13,296, ON-HAND: 392, SUB/ILO: 12,904

- 2 ½ Ton ESP Program terminated to fund FMTV
- Only 414 FMTV received to date
- Older vehicles = Increased Operational & Sustainment cost

HIGH MOBILITY MULTI-PURPOSE WHEELED VEHICLE



REQ: 17,533, ON-HAND: 10,795, SUB/ILO: 3,494

- CUCV exceeds Economic Useful Life (EUL)
- Any reduction will impact systems interchange requirements (i.e., other weapons platforms)





RECAPITALIZATION



Systems on current recap plan

- | | |
|-------------------------|----------------|
| 1. M1 Abrams Tank | 9. MLRS |
| 2. AH-64 Apache | 10. Patriot |
| 3. UH-60 Blackhawk | 11. M113 FOV |
| 4. CH-47 Chinook | 12. HEMTT |
| 5. AVLB (35 Yrs Old) | 13. SEE/HMEE |
| 6. M9 ACE | 14. ESV |
| 7. M88 Recovery Vehicle | 15. Firefinder |
| 8. M2/M3 Bradley | 16. M992 FAASV |
| | 17. HMMWV |

Goal is to maintain average fleet age at half of a system's expected service life.

**OLDEST IN THE FLEET
IN FIRST**



COULD BE USAR ASSET

RECAP PROGRAM



EXTEND SERVICE LIFE

IMPROVES RELIABILITY

REDUCES O&S COST



**RECAPPED ASSET
REISSUED TO HIGHEST PRIORITY UNIT**

**NOT NECESSARILY ORIGINAL
OWNING UNIT**

The Army Reserve





DEPOT REBUILD PROGRAM



FY 2002 Rebuild Programs

HMMWV - 528
5-Ton Cargo - 131
34-Ton Trailer - 122
5-Ton Tractor - 71
5-Ton Dump Truck - 32
Lube & Service Unit - 61
HEMTT Fuel Tanker - 6
HEMTT Cargo - 4

Tactical Fire truck - 19
Yard Dog - 18
4K Forklift - 250
10K Forklift - 47
25-Ton Crane - 25
Chemical Alarms - 855
Watercraft - \$10.3M
Commo - \$3.3M





UNIT DEPOT LEVEL MAINTENANCE ISSUES



- **Unit Readiness Reporting only reports 9% of total equipment. OR rates for non-reportable equipment is a challenge for the USAR because of the age of the non-reportable fleet.**
- **The USAR Depot Maintenance Program is funded at \$48mil in FY03, this is 71% funded of a \$68mil total requirement. The funding for FY04 is at 73% and 85% for FY05. Additional funds are needed to support aging USAR equipment.**
- **The MDEP AMTV exist to bring cascading equipment from FORSCOM to 10/20. The USAR funded for FY03 at \$4.8 mil, this is 28% of a \$17mil requirement. Additional funds are needed to support the maintenance of cascading equipment.**





SUMMARY



- Lack of acquisition funding stream to purchase or upgrade equipment
 - Reduced system quantities and delayed fieldings impacts the ability of the Army Reserve to meet Transformation goals.
 - Aging equipment is expensive and labor-intensive to maintain and sustainment dollars are declining/decremented
 - Substitute or in-lieu-of items perpetuate incompatibility and interoperability issues. These incompatibility issues create impediments to supporting the digitized force
 - Limited benefit from Recap program for Army Reserve
 - USAR is trying to help itself (strategic storage) but danger is “real good, real old” equipment
- BOTTOMLINE:**
- Shortage of new procurement (P-1R) makes funding provided through NGREA and support of Depot Maintenance Programs vital to the readiness of the Army Reserve

