



Task Force Devil, CTF82



The Modern Warrior's Combat Load First U.S.battlefield load study since **USMC Makin Island Raid** Aug 17, 1942. First known U.S. Army battlefield load study in history. Dismounted Combat Operations in Afghanistan



LTC Charles E. Dean Devil CAAT Team Leader







CENTER FOR ARMY

LESSONS LEARNED

Task Force Devil, CTF82

"On the field of battle man is not only a thinking animal, he is a beast of burden. He is given great weights to carry. But unlike the mule, the jeep, or any other carrier, his chief function in war does not begin until the time he delivers that burden to the appointed ground...In fact we have always done better by a mule than by a man. We were careful not to load the mule with more than a third of his weight."









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Devil CAAT Mission

Conduct a battlefield study of the modern Soldier's combat load in order drive Army reductions over this decade to equipment weight and bulk while enhancing Soldier capabilities. Directly support development of the Objective Force Warrior and the Soldier as a System.



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LESSONS LEARNED





Task Force Devil, CTF82 Volunteers Sought, Nov-Dec 2002



*Infantrymen
*Light Infantry experienced
*Airborne and Ranger qualified
*Top physical condition
*Willing to carry equivalent
loads as Soldiers and face
same dangers
*Willing to collect data in combat
*Willing to fight when required
*Willing to take orders from any
small unit leader
*Good listeners and learners
*Parent unit approval for combat
participation







Task Force Devil, CTF82 Devil CAAT Pre-Mission Experience Levels

Name	Qualifications	EIB/CIB	Light Infantry Experience
LTC Dean	MPchtst, AAslt, Ranger	EIB	3-504 PIR; E/504; 2-508 PIR, 1-503 rd (101 st), HQ 504 th PIR
MAJ Glenn	MPchtst, Ranger	EIB	1-501 st PIR
CPT Covert	Pchtst, AAslt, Ranger, Pathfinder	EIB	2-87 th IN, 6 th RTB
MSG Sanchez	MPchtst, Ranger, Pathfinder	CIBs (Just Cause, Desert Storm); EIB	2-508 PIR; 1-504 PIR; 2-504 PIR; 3-504 PIR, 5 th RTB (MSG Sanchez deployed to Iraq on 14 Aug 03 with 173rd Abn)
SFC(P) Donaldson	MPchtst, AAslt, Ranger, Pathfinder	CIB (Desert Storm) EIB	LRSD 101 st (Desert Storm), 1-327 IR, 2-75 th Rangers, 6 th RTB (2 tours)
SFC Dougherty	MPchtst, AAslt, Ranger, Pathfinder	Desert Storm (Arty) EIB	2-320 FA, 4 th RTB, 3-504 PIR, 1-327 IR, 2-502 IR (Kosovo), 6 th RTB
GS-13 DuPont	MPchtst, Ranger	CIB (Just Cause); EIB	2-325 AIR; 3-75 Rangers LRSD 7 th ID; ITB







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Devil CAAT Composition



Team size permitted the simultaneous fielding of 3 separate 2-man teams across a battalion task force during combat operations







Task Force Devil, CTF82 Devil CAAT Collection Areas

•Combat Load Data.

•Biomechanics data for NSC.

•UGR-A data for NSC.



•Spider Boot data for PM Clothing and Individual Equipment.

•Weapon and ammunition data for ARDEC.

•MOLLE frame data for PM Clothing and Individual Equipment.

•Ranger Training Brigade data from recent graduates.









Task Force Devil, CTF82 Combat Load Definitions

Combat Load: The minimum mission-essential equipment, as determined by the commander responsible for carrying out the mission, required for Soldiers to fight and survive immediate combat operations. The combat load is the essential load carried by Soldiers in forward subunits or the load that accompanies Soldiers other than fighting loads. (FM 21-18)

<u>Fighting Load</u>: The fighting load includes bayonet, weapon, clothing, helmet, and LBE, and a reduced amount of ammunition. Keep under 48 pounds when cross-loading small unit equipment. (FM 21-18)

<u>Approach March Load</u>: The approach march load includes clothing, weapon, basic load of ammunition, LBE, small assault pack, or lightly loaded rucksack or poncho roll. A limit of 72 pounds should be enforced. (FM 21-18)

Emergency Approach March Loads: Circumstances could require Soldiers to carry loads heavier than 72 pounds such as approach marches through terrain impassable to vehicles or where ground/air transportation resources are not available. Therefore, larger rucksacks must be carried. These emergency approach march loads can be carried easily by well-conditioned Soldiers. When the mission demands that Soldiers be employed as porters, loads of up to 120 pounds can be carried for several days over distances of 20 km a day. Although loads of up to 150 pounds are feasible, the Soldier could become fatigued or even injured. If possible, contact with the enemy should be avoided since march speeds will be slow. (FM 21-18)

Combat Load definitions are based on United States Army Field Manual 21-18, FOOT MARCHES, 1 June 1990.







Task Force Devil, CTF82

<u>What We Were ...What We Weren't</u>

The Devil CAAT was:

•There to collect history for the Army that can be used to improve Soldier equipment and capabilities. •There as fully functional members of TF Devil, ready to help in any way.

•Prepared to participate in operations at all levels and perform the combat duties thus assigned.

•Prepared to take orders and directions from our assigned leaders, regardless of level.

•Prepared to shoulder the load.

•Trained and ready to fight as Infantrymen.

The Devil CAAT was not:

•There to critique, judge, or otherwise discredit the small unit, the Task Force, CTF82, or CJTF180.

•There to tell TF Devil units what should be carried and what should not be carried during operations.

•There to interfere with TF operations.

•Expecting any special treatment.







Task Force Devil, CTF82

Pre-Mission Coordinations:

- Sought missions that:
 - Emphasized dismounted operations.
 - Expected long durations to push logistics.
 - Anticipated contact with enemy to push logistics.

Prep for Combat Collection:

- Weighed and Photographed combat loads.
 - Base Soldier weight.
 - Fighting Load weight.
 - Approach March Load weight.
 - Emergency Approach March Load weight (Rare).
- Provided weight data to units.
- Placed on special teams by units.
- Rehearsed with units.
- Packed identical gear as units.

During-Mission Collection:

- Went in on assaults at H-hour.
- Executed all tactical tasks with squad/platoon.
- Studied how the Soldiers performed with their loads.
- Studied problems with load carriage.
- Kept photographic log of missions.

Post-Mission Reviews:

- Attended AARs.
- Discussed with units their lessons learned relating to loads.
- Shared photos with units.



Data Collecting







Task Force Devil, CTF82 Operational Data Collection Events

Operation Name	Dates	Maneuver Unit	Devil CAAT P	articipants				
AO Truman Checkpoint	4 Apr 03	118 th MPs	MAJ Glenn, SFC Dougherty					
Operation Resolute Strike	8-9 Apr 03	C/3-504 PIR	LTC Dean, SFC Donaldson					
Operation Resolute Strike	8-9 Apr 03	C/2-504 PIR	CPT Covert, MSG Sanchez	and the second se				
Firebase Orgun-E	8-10 Apr 03	D/3-504 PIR	MAJ Glenn, SFC Dougherty	the second second				
Operation Crackdown	16-17 Apr 03	A/2-504 PIR	MAJ Glenn, SFC Dougherty					
Operation Vigilant Guardian I	16 Apr 03	HQ/TF 2-504 PIR	LTC Dean					
Operation Vigilant Guardian I	22-26 Apr 03	B/2-504 PIR LTC Dean		REXE				
Operation Vigilant Guardian I	22-26 Apr 03	C/2-504 PIR	CPT Covert, SFC Donaldson					
Operation Vigilant Guardian I	22-26 Apr 03	D/1-504 PIR	MSG Sanchez	E AND				
Operation Vigilant Guardian I	22-26 Apr 03	Combat Trains, TF 2-504 PIR	Mr. DuPont					
Operation Desert Ascent	23-25 Apr 03	C/2-505 PIR	MAJ Glenn, SFC Dougherty	THE STA				
Operation Vigilant Guardian II 3 May 03		HQ/TF 2-504 PIR	LTC Dean	MAJ Eric Glenn Operation Crackdown				
Operation Vigilant Guardian II 3-4 May 03		C/2-504 PIR	CPT Covert, SFC Donaldson	Apr 2003, 2-505 PIR				
Operation Vigilant Guardian II	1-4 May 03	D/1-504 PIR	SFC Dougherty					
Operation Vigilant Guardian II Team Village Operation	5 May 03	118 th MPs, TF2-504	Mr. DuPont					







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Soldiers Under Load



































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	DUTY POSITION	Require	ed Data F	Points
	Rifleman	0 - 9%	10-19%	20%
	M203 Grenadier	0 - 9%	10-19%	20%
	Automatic Rifleman (SAW)	0 - 9%	10-19%	20%
3	Anti-Tank Specialist (Javelin)	0 - 19%	20-39%	40%
<u>e Studie</u>	Team Leader	0 - 9%	10-19%	20%
2	Squad Leader	0 - 29%	30-59%	60%
-	M240B Machine Gunner	0 - 29%	30-59%	60%
\sim	M240B Assistant Machine Gunner	0 - 29%	30-59%	60%
2	M240B Ammunition Bearer	0 - 29%	30-59%	60%
	Rifle Platoon Leader	0 – 39%	40 - 79%	80%
3	Rifle Platoon Sergeant	0 – 39%	40 - 79%	80%
2	Radio Telephone Operator (RTO)	0 – 19%	20 - 39%	40%
Ē	Combat Medic	0 – 39%	40 - 79%	80%
.9	FIST Team Leader	0 – 39%	40 - 79%	80%
:	Forward Observer	0 – 29%	30 - 59%	60%
<u>osition</u>	FIST Radio Telephone Operator	0 – 19%	20 - 39%	40%
Ā	Sapper (Engineer)	0 – 39%	40 - 79%	80%
	Mortar Section Sergeant	0 – 39%	40 - 79%	80%
	Mortar Squad Leader	0 – 39%	40 - 79%	80%
	Mortar Gunner	0 – 39%	40 - 79%	80%
	Mortar Assistant Gunner	0 – 39%	40 - 79%	80%
	Mortar Ammunition Bearer	0 – 19%	20 - 39%	40%
	Company Commander	0 – 39%	40 - 79%	80%
	Company Executive Officer	0 – 39%	40 - 79%	60%
	First Sergeant	0 – 39%	40 - 79%	80%
	Other (Unit Request)	0 – 39%	40 - 79%	80%









Task Force Devil, CTF82

Position in Unit	PLT	со	BN	REGT	<u> </u>	DC01	DC02	DC03	DC04	DC05	DC06	DC07	DC07	DC08	DC09	DC10	Total Collected	Total Needed	%Regt	Green % of Regt	Status
Rifleman	6	18	54	162	2	ם 6	3	2	ם 10	9	2	ם 16	4				54	<u>Needed</u> 32	Collected 33%	20%	SIdius
M203 Grenadier	6	18	54 54	162	2	6	3 6	Z	21	9 5	6	16	4				73	32	45%	20%	
Automatic Rifleman	6	18	54	162	2	6	6	2	21	12	6	18	12				85	32	43% 52%	20%	
Antitank Specialist	2	6	54 18	54	2	2	0	Z	21 5		2	10	3			1	15	-	28%	20% 40%	
		ь 18	18 54	54 162	2		6	0		1 12		40	3 12			1		22			
Rifle Team Leader Rifle Squad Leader	6 3	9	54 27	81	2	6 3	ю З	2	20 12	6	6 3	18 10	6	3	3	5	84 56	32 49	52% 69%	20% 60%	
Forw ard Observer	3	9 3		27	1	3	3	1	4	6 2	3	3	6 2	3	3	5 2		-		60%	
			9		1		1			2							21	16	78%		
Forward Observer RTO	1	3	9	27		1	4		4	0	1	2	1	1	1	1	12	11	44%	40%	Javelin
Weapons Squad Leader	1	3	9	27	1	1	1	4	3	2	1	2	2	2	2	2	18	16	67%	60%	Being C
M240B Gunner	2	6	18	54	•	2	2	1	8	4	2	6	5	4	4	4	43	32	80%	60%	in Afgha
V240B Asst Gunner	2	6	18	54	1	2	2	1	8	4	2	6	4	4	4	4	42	32	78%	60%	Due to
M240B Ammo Bearer	2	6	18	54	1	2	2		8	3	2	6	4	3	4	4	39	32	72%	60%	Availa
Rifle Platoon Sergeant	1	3	9	27		1	1	1	5	2	1	3	2	2	2	2	22	22	81%	80%	and La Enemy
Rifle Platoon Leader	1	3	9	27		1	1	1	5	2	1	3	2	2	2	2	22	22	81%	80%	
Platoon Medic	1	3	9	27	1	1	1		3	2	1	3	3	3	3	2	23	22	85%	80%	
Radio/Telephone Operator	1	3	9	27	1	1	1		3	2	1		2	1	1		13	11	48%	40%	
Mortar Section Leader	0	1	3	9		1	1		1	1		1	1	1	1		8	7	89%	80%	
Mortar Squad Leader	0	1	3	9		1	1		1			1	1	1	1		7	7	78%	80%	
60mm Mortar Gunner	0	2	6	18		2	2		3	2		2	2	2	2		17	14	94%	80%	
60mm Mortar Assistant Gunner	0	2	6	18		2	2		1	2		2	2	2	2		15	14	83%	80%	
60mm Mortar Ammo Bearer	0	2	6	18			2					2	1	2	2		9	7	50%	40%	
Rifle Company Commo Chief	0	1	3	9		1							1	1	1		4	4	44%	40%	
Fire Support Officer	0	1	3	9		1	1		1	1		1	1	1	1		8	7	89%	80%	
Fire Support NCO	0	1	3	9			1		1			1	1	1	1		6	7	67%	80%	
Sapper Engineer	0	3	9	27	3	3	3		8	8		8	5				38	22	141%	80%	
Company Executive Officer	0	1	3	9		1	1					1	1	1	1		6	5	67%	60%	
Company First Sergeant	0	1	3	9		1	1		2			1	1	1	1		8	7	89%	80%	
Company RTO	0	2	6	18		2	1		2				1	1			7	7	39%	40%	
RifleCompany Commander	0	1	3	9		1	1		2	1		1	1	1	1	Ì	NA	7	100%	80%	
Total	42	145	435	1305	19	58	53	11	162	83	38	133	94	42	42	29	764 2	533			





Task Force Devil CTE82



	Task Force Devil, CTF82											
	Position in Unit	Average Fighting Load	Average FL% Body Weight	Average Approach March Load	Average AML % Body Weight	Avg Emergency Approach March Load*	Average EAML % Body Weight	Brit Army Hygiene Advisory Committee				
EM 01 10	Rifleman	63.00	35.90%	95.67	54.72%	127.34		1920s				
FM 21-18	M203 Grenadier	71.44	40.95%	104.88	54.72% 60.25%	127.34	71.41% 77.25%	17205				
1990								Soldiers				
	Automatic Rifleman	79.08	44.74%	110.75	62.71%	140.36	79.56%	Should				
Fighting	Antitank Specialist	67.66	37.57%	99.04	55.02%	130.20	79.65%	Carry				
Loads	Rifle Team Leader	63.32	35.61%	93.78	52.43%	130.27	80.65%	<40-45 lbs				
Should be	Rifle Squad Leader	62.43	34.90%	94.98	52.59%	128.35	73.62%					
Kept < 48	Forward Observer	57.94	33.00%	91.40	52.12%	128.56	76.59%					
lbs	Forward Observer RTO	60.13	35.37%	87.07	51.42%	119.13	74.94%	"The				
	Weapons Squad Leader	62.66	34.02%	99.58	54.37%	132.15	69.19%	Soldier's				
	M240B Gunner	81.38	44.46%	113.36	62.21%	132.96	68.92%	Load and				
	M240B Asst Gunner	69.94	38.21%	120.96	66.11%	147.82	80.08%	the Mobility				
	M240B Ammo Bearer	68.76	36.59%	117.06	62.19%	144.03	78.46%	of a Nation"				
	Rifle Platoon Sergeant	60.66	31.53%	89.96	46.35%	119.16	62.67%	1950				
,	Rifle Platoon Leader	62.36	34.02%	93.04	50.33%	117.62	65.44%					
FM 21-18	Platoon Medic	54.53	31.08%	91.72	51.58%	117.95	69.88%	Optimum				
1990	Radio/Telephone Operator	64.98	35.60%	98.38	54.08%	no data avail	no data avail	Load is				
1,,,0	Mortar Section Leader	58.31	30.59%	109.99	57.34%	149.30	90.49%	40-41 lbs				
Annroach	Mortar Squad Leader	60.98	37.89%	127.24	78.26%	142.30	96.80%					
Approach	60mm Mortar Gunner	63.79	38.06%	108.76	64.22%	143.20	88.14%	JRTC				
March	60mm Mortar Assistant Gunner	55.34	31.93%	122.16	70.28%	no data avail	no data avail					
Loads	60mm Mortar Ammo Bearer	53.13	30.14%	101.13	60.59%	no data avail	no data avail	Soldier Load				
Should be	Rifle Company Commo Chief	68.13	38.16%	109.69	61.67%	no data avail	no data avail	Study 1998				
Kept < 72	Fire Support Officer	54.11	27.32%	93.08	46.81%	no data avail	no data avail	1330				
lbs	Fire Support NCO	52.10	31.92%	90.08	55.22%	143.30	98.83%	Approach				
	Sapper Engineer	59.02	33.05%	95.70	53.50%	132.08	77.92%	March				
	Company Executive Officer	60.50	34.03%	93.65	52.81%	no data avail	no data avail	Loads				
	Company First Sergeant	62.88	33.69%	90.42	48.11%	126.00	86.30%	Should be				
	Company RTO	64.70	35.65%	98.09	54.27%	130.00	72.13%	Kept < 30%				
,	RifleCompany Commander	66.10	37.08%	96.41	53.77%	111.20	70.83%	Body Weight				
	TOTAL AVERAGE	63.08	35.27%	101.31	56.74%	131.74	77.82%	7/				
								V				

* Emergency Approach March Loads rarely carried during study, hence missing data.



All data is averaged across same positions in the regiment











Worn on Body/Uniform:

Task Force Devil, CTF82

The Rifleman

- M4 Carbine with PEQ-2 Laser/PAQ-4 Laser, • ACOG/CCO, and 30 rounds of 5.56mm ball ammunition.
- **Desert Camouflage Uniform with** • Infrared Tape on left sleeve (1"x 1").
- **Desert Combat Boots.** .
- Dog Tags.
- **ID** Card.
- Undershirt.
- Socks. .
- Tactical gloves. .
- **Interceptor Body Armor with two** . **Small Arms Protective Inserts.**
- **Advanced Combat Helmet with** • night vision mounting plate.
- **Rigger belt.** .
- Notebook and pen.
- Watch. •
- Knee and elbow pads.
- Sun, Sand, and Dust type Goggles or . Wiley-X Goggles.
- Folding Knife/Multi-tool.



Worn on Fighting Load Carrier/ **Interceptor Body Armor:**

- **MOLLE Fighting Load Carrier with modular MOLLE** pouches.
- 180 rounds of 5.56mm ball ammunition.
- **Bayonet.**
- Fragmentation grenade.
- 64 ounces of water in two 1 quart canteens.
- Casualty and witness cards.
- 100 ounces of water in hydration system.
- Flex cuffs for personnel under custody.
- Night vision equipment (PVS-14/PVS-7).
- **Iodine tablets.**
- Lensatic compass.
- Flashlight.
- Chemlight.
- First Aid dressing and pouch.
- Canteen Cup.
- Ear plugs.

The combination of these two lists makes up the Fighting Load (Avg=63 lbs)







Task Force Devil, CTF82 The Rifleman

Carried in Assault Rucksack:

- MOLLE Assault Rucksack or commercial assault rucksack, with MOLLE attachments.
- 500ml intravenous fluids bag with starter kit.
- 70 ounces of water in hydration system. ٠
- Two Meals, Ready to Eat (MREs). •
- Poncho and/or Bivy Sack. ٠
- Poncho liner. •
- **Undershirt.** •
- Spare batteries. ٠
- Two pair of socks. ٠
- Polypropylene or silk long sleeve undershirt. ٠
- M4/M16 Rifle Cleaning Kit. ۲
- Personal hygiene kit.
- **Rubber gloves.** ٠
- Sling rope with two snap links.

Main Rucksack + Fighting Load +

Assault Rucksack (sometimes) =

Emergency Approach March Load

(Avg=127 lbs)



Assault Rucksack + Fighting Load= Approach March Load (Avg=96 lbs)

- **Carried in Main Rucksack:** (Main rucksacks were rarely taken on operations during study)
- MOLLE main rucksack with Sleeping Bag Carrier or Large ALICE rucksa
- Improved Sleeping Bag (usually Green bag carried one per two men).
- Long Underwear or Polypropylene Jacket and Coveralls.
- **Two Undershirts.** •
- Two pairs of socks.
- **Cold Weather Gloves.** •
- Knit/Fleece Cap.
- Additional ammunition.
- Two Meals, Ready to Eat (MREs).
- Sleeping pad.







Special Equipment can be carried on the Fighting Load Carrier/IBA (B), in or attached to the Assault Rucksack (C), or in or attached to the Main Rucksack (D)







Task Force Devil, CTF82 M203 Grenadier



Rifleman Equipment Plus:

•M203 Grenade Launcher•26 40mm Grenades



Fighting Load Avg: 71 lbs Approach March Load Avg: 105 lbs Emergency Approach March Load Avg: 137 lbs







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M249 SAW Gunner



- •M249 Squad Auto Weapon
- •100 rds 5.56mm linked (FL)
- •700 rds 5.56mm linked (AML)
- •M249 Spare Barrel (AML)
- •M249 Cleaning Kit



Fighting Load Avg: 79 lbs Approach March Load Avg: 111 lbs Emergency Approach March Load Avg: 140 lbs







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M240B Machine Gunner



•M240B Machine Gun

- •M9 Pistol w/45 x 9mm rounds
- •100 rds 7.62mm linked (FL)
- •200 rds 7.62mm linked (AML)
- •M249 Spare Barrel (AML)
- •M240B Cleaning Kit



Fighting Load Avg: 81 lbs Approach March Load Avg: 113 lbs Emergency Approach March Load Avg: 133 lbs





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M240B Assistant Machine Gunner



Rifleman Equipment Plus:

•400 rds 7.62mm linked (AML)
•M240B Tripod
•T&E Mechanism



Fighting Load Avg: 70 lbs Approach March Load Avg: 121 lbs Emergency Approach March Load Avg: 148 lbs







Task Force Devil, CTF82 Combat Engineer Sapper



Rifleman Equipment Plus:

Internal Communications Radio (FL)
4 x 1.25lb blocks C4 (AML)
50' Detonation Cord (AML)
30' Engineer Tape (AML)
3 x Time Initiating Systems (AML)
Mine Probe (1/team)
Mine Detector (1/team)
Grapnel Hook (1/team)
GPS (1/team)



Fighting Load Avg: 59 lbs Approach March Load Avg: 96 lbs Emergency Approach March Load Avg: 132 lbs







Major Findings



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- Increased capabilities continue to increase physical burdens.
- Fit Soldiers are easily exhausted by their modern loads while operating in extreme environments.
- Body armor needs to continue to be lightened and made much more flexible.
- More emphasis and study needed on modern load carriage.
- Unit transportation assets need to carry the bulk of the Soldier's load.
- Units need more small unit ground vehicles.
- Small unit robot development needs to be accelerated.
- Army level effort needs to go into reducing the Combat Load through doctrine and equipment changes. Needs unified action.











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Reduce the Weight of Soldier Worn Technologies

- Recognize that all Soldiers have different jobs and carry different loads.
- Recognize that the need for most gear will not go away. Soldiers have basic needs that will remain over time.
- Make all attempts to create lightweight Soldier carried gear.
- Look to lighten ALL the gear that Soldiers carry, not just an item here or there.
- Make attempts to develop multi-functional gear to replace current onetask items.
- Follow industry and buy off the shelf, state-of-the art gear to replace Army clunkers (GPS as example). Throw it away when it dies.
- Reinvent many staple items to shed weight (machine gun tripods, ammunition (all types), batteries, body armor, and more).
- Re-design or purchase commercial load carriage systems that support all job specialties (example = Radio Telephone Operator no load carriage system that meets his needs).







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And Take the Weight <u>OFF</u> the Soldier's Back!

- Re-think the logistical practices that the Army has been using since WWII and consider novel ways to resupply the dismounted Soldier, to include possible daytime LOGPACs and even multiple LOGPACs each day.
- Provide the platoon and squad with small unit logistics vehicles (SULVs) that can follow closely behind the unit during combat operations. Place most of the contents of the Soldier's Assault Rucksack on these vehicles. Place some of the Soldier's basic load of ammunition on these vehicles as well as specialty items (AT-4s, SMAW-Ds, etc.).
- Consider using available HMMWVs, Gators, and other vehicles currently within Task Forces as surrogate SULVs.
- Develop robotic vehicles to replace manned SULVs.









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Questions?

POC Information:

LTC Charles E. Dean charles.dean@natick.army.mil 617-253-5333 Mr. Fred DuPont fred.dupont@benning.army.mil 706-545-4796

