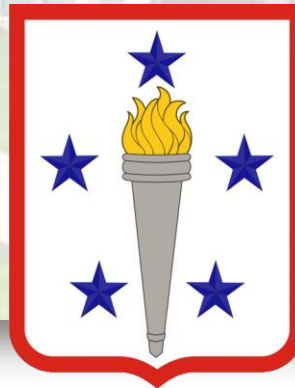




TRADOC Capability Manager-Transportation Army Watercraft Systems





Transportation Corps



What We Are For: Provide our Army and the Joint Force trained and ready Transporters / Logisticians and synchronize deployment and distribution to enable Unified Land Operations.



Strategic Deployment/
Distribution Operations



Movement Control
Operations



Terminal Operations
at Air/Seaports



Motor Transport
Operations



Watercraft Transport
Operations



Rail Transport
Operations

Mission: Train, educate, and deliver professional transporters and sustainers; develop doctrine, concepts, capabilities and force structure to deploy expeditionary forces and distribute materiel to Army and Joint organizations conducting Unified Land Operations in a JIIM environment.

TC Vision: Our Army's deployment and distribution experts, effectively supporting expeditionary forces; The Spearhead of Logistics!

Support Starts Here!



Fleet Overview



1988 – First Fielding

21
Years



Logistic Support Vessel (LSV)

AAO (8): 5 AC/3 RC/0 APS

1994 – First Fielding

21
Years



Large Tug (LT)

AAO (8)*: 1 AC/2 RC/3 APS

1990 – First Fielding

24
Years



Landing Craft Utility (LCU) 2000

AAO (34): 7 AC/7 RC/20 APS

1998 – First Fielding

14
Years



Small Tug (ST)

AAO (16): 2 AC/6 RC/8 APS

1967 – First Fielding

43
Years



(To be displaced by the MSV(L))

Landing Craft Mechanized (LCM-8)

AAO (36): 9 AC/9 RC/18 APS

1999 – First Fielding

15
Years



Barge Derrick (BD)

AAO (6)*: 0 AC/2 RC/2 APS



14
Years

Roll-On/Roll-Off Discharge Facility (RRDF)

AAO (6): 2 AC/0 RC/4 APS



12
Years

Modular Warping Tug (MWT)

AAO (18)*: 5 AC/0 RC/11 APS



20
Years

Causeway Ferry (CF)

AAO (3): 1 AC/0 RC/2 APS



18
Years

Floating Causeway (FC)

AAO (3): 1 AC/0 RC/2 APS

Modular Causeway System (MCS)

1996 – First Fielding

- Small density fleet
- No single OEM or Depot
- Many different configurations
- Several platforms at or past EUL
- 46% in APS (4 and 5)

* Currently short of the AAO.



Army Watercraft Roles & Missions



Warfighting Functions

Mission Command

Movement and Maneuver

Sustainment

System/QTY	Mission/Role(s)	AC	USAR	APS
Harbormaster Command Control & Communications (HCCC) 7ea	<ul style="list-style-type: none"> • C2 of harbor activity and surrounding area from shore • Communication with harbor traffic and commercial vessels • Distributed operations 	3	4	
Landing Craft Mechanized (LCM-8) Mod 2 6ea	<ul style="list-style-type: none"> • C2 platform for logistics-over-the-shore (LOTS) operations 	1	1	4
Logistics Support Vessel (LSV) 8ea	<ul style="list-style-type: none"> • Intratheater movement of equipment and supplies • Coastal and inland waterway distribution 	5	3	
Landing Craft Utility (LCU-2000) 34ea	<ul style="list-style-type: none"> • Intratheater movement of equipment and supplies • Logistics over-the-shore • Coastal and inland waterway distribution 	7	7	20
Landing Craft Mechanized (LCM-8) Mod 1 34ea	<ul style="list-style-type: none"> • Intratheater movement • Logistics over-the-shore 	10	14	14
Small Tug (ST) 16ea	<ul style="list-style-type: none"> • Movement of cargo barges and floating craft within a harbor, port or LOTS anchorage 	2	6	8
Large Tug (LT) 8ea	<ul style="list-style-type: none"> • Berthing large oceangoing vessels • Coastal towing and positioning floating cranes • Fire fighting and salvage operations 	1	3	4
Modular Causeway Systems (MCS) 3 systems	<ul style="list-style-type: none"> • Roll-on Roll-off Discharge Facility (RRDF) provides floating platform for in-stream discharge of vessels • Causeway ferry provides vessel to shore transport • Floating causeway provides shore based platform to discharge vehicles and equipment from other watercraft • Warring tug is used to assemble and maneuver the RRDF/causeway ferry 	1		2
Barge Derrick (BD) 4ea	<ul style="list-style-type: none"> • Heavy lift crane (up to 115 tons) to support port clearance and salvage, load watercraft to ocean going vessels, watercraft maintenance and repair 		2	2
Containerized Maintenance Facility (CMF) 2ea	<ul style="list-style-type: none"> • Fully equipped watercraft field maintenance shop • Configured in five expandable containers and two ISO containers 	1	1	

☐ = Non-Watercraft Program Assets associated with Terminal Ops



Logistics Support Vessel (LSV)



Purpose: Provide intra-theater movement of containerized, break-bulk, and RO/RO cargo to improved / degraded ports, bare beach, and inland water terminals.

Characteristics:

- Crew - 32 (8 WO/24 ENL /24hr)
- Full load speed - 11.5 Knots
- Range - 6,500 Nautical Miles
- Length - 275.75 Feet
- Draft - 12 Feet

Cargo capacity:

- 37 x Strykers
- 24 x M1A2
- 30 x M2A2
- 50 x 20' Containers

** 1 LSV load = 24 C17s

**LSV 1-6
Delivered
1988-1994**



**LSV 7-8
(USAR)
Delivered
2003**



- 1 x LSV Per Detachment
- 8 Total LSVs (5 AC / 3 USAR)

Support Starts Here!



Landing Craft Utility 2000 (Heavy Boat CO)



Purpose: Provide intra-theater movement of containerized, break-bulk, and RO/RO cargo to improved / degraded ports, bare beach, and inland water terminals.

Characteristics:

- Crew - 12 (2 WO/10 ENL-24hr)
- Operating speed - 10 Knots
- Range - 6500 Nautical Miles
- Length - 174 Feet
- Draft - 9 Feet

Cargo Capacity:

- 7 x Strykers
- 5 x M1A2
- 6 x M2A2
- 24 x 20' Containers

** 1 LCU load = 4 C17's



- ❑ 10 x LCUs Per Company (1 AC/ 1 USAR)
- ❑ 34 x Total LCUs (7 AC / 7 USAR / 20 APS)
- ❑ 1 x AC & 1 USAR CO (O/H 7 LCU's per CO)



Tugs & Cranes (Floating Craft Company)



Purpose: To provide ocean and coastal towing, docking/undocking vessels, salvage and rescue, general harbor support including heavy lift services.

Crew - 22 (6 WO AND 16 ENL)
Length - 128 Feet
Draft - 17 Feet
Range - 4000 Nautical Miles
Operating speed - 13.5 KTS

Large Tug (6)
1 AC / 2 USAR / 3 APS



Crew Size -12 (2 WO / 10 Enl)
Length - 60 feet / Beam: 22 feet
Draft - 6 feet loaded
Range - 720 Nautical Miles at 6 knots

Small Tug (16)
2 AC / 6 USAR / 8 APS



Crew Size -15 (2 WO / 13 Enl)
Length - 200 feet / Beam: 80 feet
Draft - 7+ when fully loaded
Lifting capacity - 115 long tons

Barge Derrick Crane (4)
0 AC / 2 USAR / 2 APS



- 4 x Companies (1 AC / 3 USAR)
- Equipment in CONUS / APS

Support Starts Here!



Modular Causeway System (MCS)



Purpose: To provide floating platforms for the loading, discharge and transport of cargo to/from improved or austere ports, inland water terminals and during bare beach operations

Characteristics:

Soldiers: 200 (4/0/196)

Equipment:

- 10 x Modular Warring Tugs
- 4 x Powered Sections
- 111 x Causeway Sections

Configurations:

- 2 x Causeway Piers
- 4 x Causeway Ferries
- 3 x RO/RO Discharge Facilities



- 1 x Company (AC)
- 2 x Additional Company Sets (APS)



Harbor Master Command and Control Center (HCCC)



Purpose: Facilitate operational control for Army vessels conducting intra-theater lift, water terminal, inland waterway, joint amphibious, and logistics over the shore operations.

Unit Characteristics

Soldiers: 0/2/19

Equipment:

- Mix of standard and COTS

Capabilities:

- Lighterage Control Center
- Beach Lighterage Control point
- Ship Lighterage Control point



- ❑ 8 HMOD (4 ea AC/USAR)
- ❑ No standard Communications between units



Landing Craft Mechanized (LCM-8)



Purpose: To transport personnel and cargo, medical evacuation, C2 afloat, and light harbor salvage, from ship to shore and or within coastal areas including inland waterways.

Characteristics:

- Crew - 3 ENL /12 hrs OPS
- Operating speed - 9 Knots
- Range - 270 Nautical Miles
- Length - 73 Feet
- Draft - 5 Feet

Cargo Capacity:

- 1 x Stryker
- 1 x M2A2
- 1 x 20' Container
- 60 x Short Tons

MOD 1
(42)



MOD 2
(6)



- 11 x LCMs Per Detachment (10x MOD 1,1x MOD2)
- 4 x DETs (1AC /1 USAR / 2 APS)
- 48 Total LCMs (11 AC / 19 USAR/ 18 APS)

* 4 x LCMs Assigned to Floating Craft MNT CO

Support Starts Here!



Landing Craft Modernization



This is where we are.....and this is where we're going.

Vietnam Era...

...to 2025 and Beyond



Landing Craft Mechanized (LCM-8)

Configuration: Single ramp
 Length: 74 feet
 Beam: 21 feet
 Draft: 5 feet
 Speed: 9 knots
 Range: 271 miles
 Payload: 53 tons

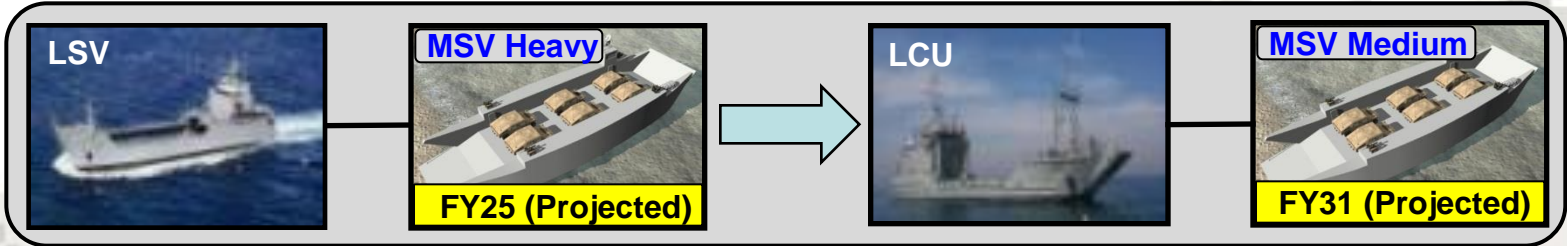


Maneuver Support Vessel (Light)

Configuration: Roll through
 Length: ~100 feet
 Beam: ~30 feet
 Draft: less than 4 feet
 Speed: 18 knots
 Range: 360 miles
 Payload: M1A2 Abrams Tank

No _____ M1A2 SEPv3 Abrams MBT _____ Yes
 No _____ 2 Stryker with Slat Armor _____ Yes
 No _____ 4 JLTV with trailers _____ Yes

Modernization and transformation of Landing Craft Fleet



Support Starts Here!



Questions?

