

APPENDIX E

Capacity of One Liberty Ship

Liberty ships, officially EC2, which stood for Emergency Cargo Size 2, were nicknamed "ugly ducklings" by President Franklin Delano Roosevelt. They were also called "workhorses of the deep." A Liberty ship was designed to carry about 10,000 tons of cargo, but in wartime conditions often carried much more.

In 1941 seven Liberty ships were delivered, averaging 21 days for completion. As a publicity stunt, the Kaiser Richmond shipyard completed the SS Robert E. Peary in four and a half days. By January 1943, the average completion time was 50 days.

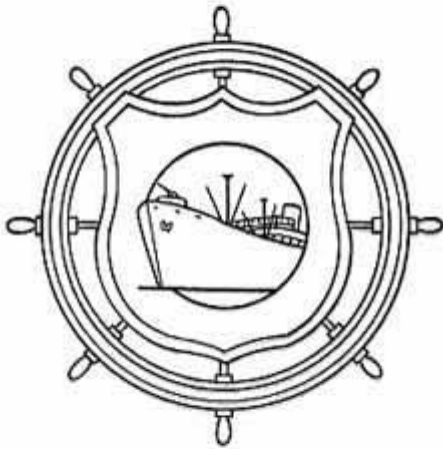
A Liberty's cost was calculated as \$2,000,000, and any group that raised such amount could suggest a name for a Liberty ship. The actual cost at the various shipyards ranged from \$1,543,000 to \$2,099,000 per ship. A Liberty ship "paid for itself" if she completed one half of its maiden voyage -- in other words - a one way trip was considered "successful," to all except her crew.

Ships were loaded to their Plimsoll lines, indicating safe levels, and then deck cargo was added!

Capacity of One Liberty Ship Brochure

Prepared by Control and Reports Division, Boston Port of Embarkation, Army Base 1943.

ONE
LIBERTY SHIP



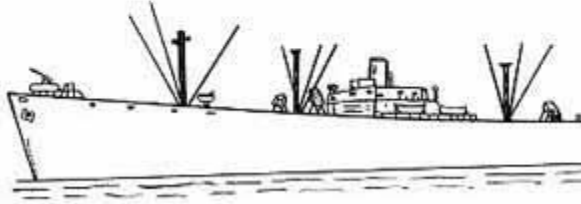
BOSTON PORT OF EMBARKATION
TRANSPORTATION CORPS
U. S. ARMY

ONE
LIBERTY SHIP



PREPARED BY
Ⓢ
CONTROL AND REPORTS DIVISION
BOSTON PORT OF EMBARKATION
ARMY BASE - BOSTON, MASSACHUSETTS
1943

THIS IS A LIBERTY SHIP



440 FEET LONG WITH A 58 FOOT BEAM.
10 TO 12 KNOTS AND A STEAMING RADIUS
OF 21,000 MILES OR 80 DAYS.
5 HOLDS. 5 HATCHES. LARGEST HATCH
35' BY 20'. LARGEST BOOM 50 TONS.
AVERAGE LOAD-10,500 MEAS. TONS
7,800 WEIGHT TONS.

IN TERMS OF COMMON ITEMS
THE CAPACITY OF
ONE

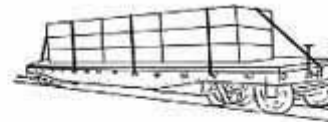
AVERAGE LIBERTY SHIP
IS



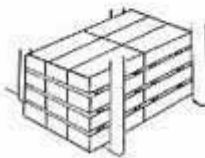
2840
JEEPS



BOXED, LOADED 9 ON A 40' FLAT CAR, A
TRAIN MOVING THEM WOULD STRETCH 2 $\frac{1}{3}$ MILES



STACKED 4 HIGH IN A
WAREHOUSE, THEY WOULD
FILL 115 20' BAYS



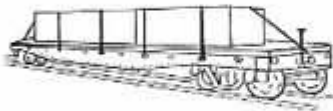
OR ↗



**525
ARMORED M8 CARS**



BOXED, LOADED TWO ON A
40' FLAT CAR THEY WOULD
MAKE UP A TRAIN
2 MILES LONG !

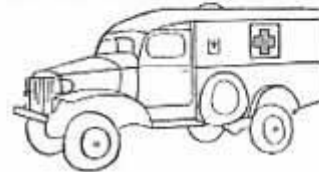


STACKED 2 HIGH IN A WAREHOUSE
THEY WOULD FILL 85 20' BAYS !

OR



**525
3/4 TON AMBULANCES**



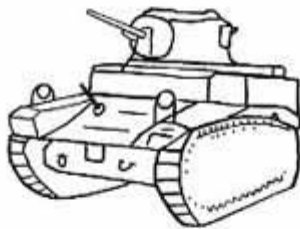
BUMPER TO BUMPER
THEY WOULD FORM A
LINE 1 1/2 MILES LONG !

GROUPED IN A WAREHOUSE
THEY WOULD OCCUPY
140 BAYS 20' X 20' !

OR ↗



**440
LIGHT TANKS**



LOADED 2 ON 40' FLAT CARS,
THE TRAIN REQUIRED WOULD BE
1 1/2 MILES LONG

THEY WOULD COVER
MORE THAN AN ACRE, THE
WAREHOUSE FLOORSPACE
OF 130 20' BAYS

OR



**260
MEDIUM TANKS**



LOADED SINGLY ON 40' FLAT CARS,
THE TRAIN REQUIRED WOULD BE
2 MILES LONG

GROUPED, THEY WOULD COVER
AN ACRE, THE FLOORSPACE OF
110 20' WAREHOUSE BAYS

OR



390

PERSONNEL CARRIER

HALF TRACK
M3



BUMPER TO BUMPER, THEY
THEY WOULD FORM A L
1 1/2 MILES LONG!

GROUPED ON THE FLOOR OF
A WAREHOUSE THEY WOULD
COVER 125 WAREHOUSE BAYS
20' BY 20'!

OR →



425

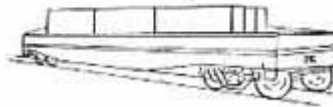
2 1/2 TON CARGO TRUCKS



KNOCKED DOWN AND
BOXED THEY WOULD
FILL 100 20'
WAREHOUSE BAYS!



IT WOULD TAKE A MILE OF
GONDOLA CARS TO TRANSPORT
THEM!



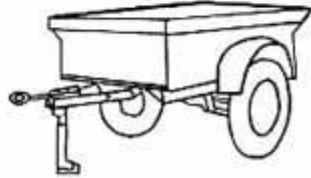
OR ↗



7200

1/4 TON CARGO TRAILERS!

TOTAL CARRYING
CAPACITY:
1800 TONS CARGO



BOXED,
THEY WOULD REQUIRE A TRAIN OF FLAT
OR GONDOLA CARS 1 1/2 MILES LONG!

BOXED,
THEY WOULD FILL 100
WAREHOUSE BAYS
20' X 20'

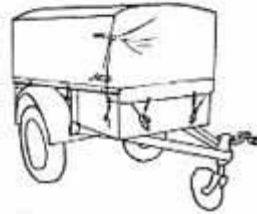
OR



3600

ONE TON CARGO TRAILERS

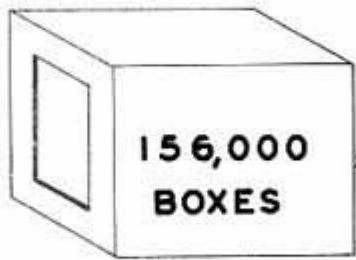
TOTAL CARRYING
CAPACITY:
3600 TONS CARGO



BOXED,
THEY WOULD REQUIRE A TRAIN OF FLAT
OR GONDOLA CARS 1 1/2 MILES LONG!

**115 WAREHOUSE BAYS
20' X 20' WOULD BE FILLED
BY THESE BOXED VEHICLES!**

OR →

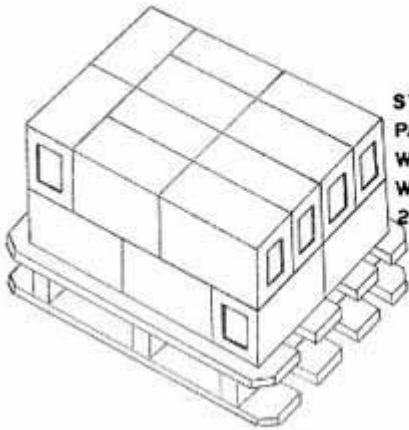


**156,000
BOXES**

234,000
ROUNDS

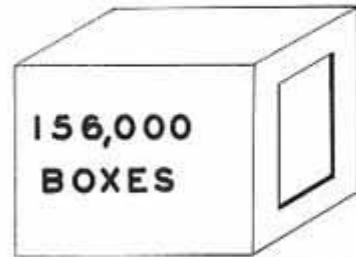
30 CALIBER AMMUNITION

1 1/4 MILES OF BOX CARS WOULD
BE REQUIRED TO MOVE THIS CARGO !



STACKED ON
PALLET THE
WOULD FILL 1
WAREHOUSE BAY
20' X 20' !

OR

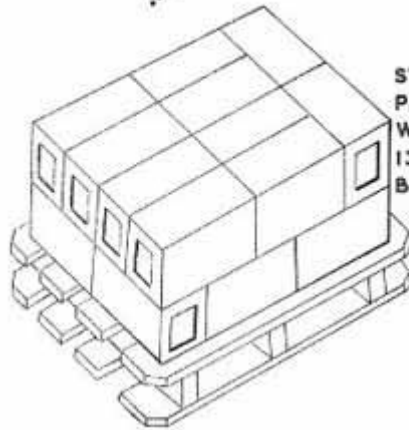


**156,000
BOXES**

4,340,000
ROUNDS

50 CALIBER AMMUNITION

A TRAIN OF BOX CARS 1 1/4 MILES
LONG WOULD BE REQUIRED TO MOVE
THIS CARGO !

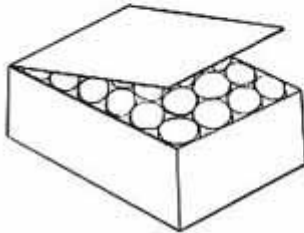


STACKED ON
PALLET THEY
WOULD FILL
130 WAREHOUSE
BAYS 20' X 20' !

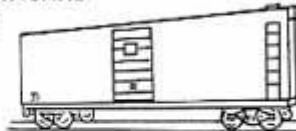
OR →



**430,000
CASES
'C'
RATIONS**



**A TRAIN OF 40' BOX CARS
1 1/2 MILES LONG
WOULD BE
REQUIRED!**

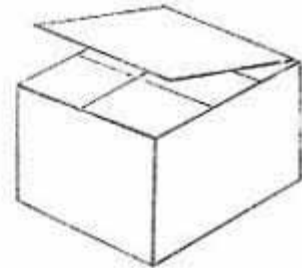


**THERE WOULD BE RATIONS FOR
3,440,000 MEN
FOR
ONE DAY!**

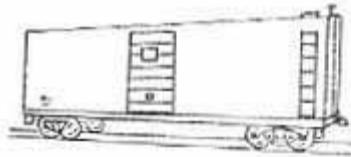
OR



**343,000
CASES
'D'
RATIONS**



**1 1/4 MILES OF 40' BOX CARS
WOULD TRANSPORT THESE CASES!**



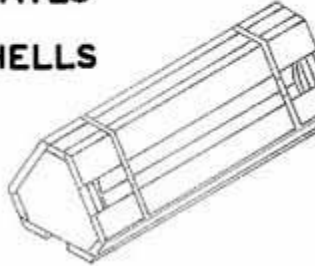
**18,484,000 MEN COULD BE FED
FOR ONE DAY
ON THESE RATIONS!**

OR



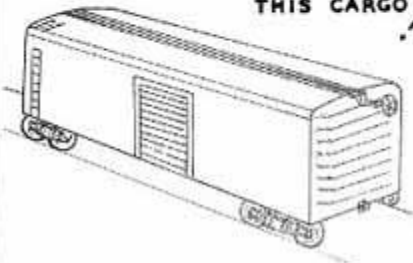
217,000 CRATES
75MM GUN SHELLS

651,000
 ROUNDS



STACKED ON PALLETS THEY WOULD FILL
 100 WAREHOUSE BAYS 20' X 20'

A TRAIN OF BOX CARS
 1 1/4 MILES LONG WOULD
 BE REQUIRED TO MOVE
 THIS CARGO

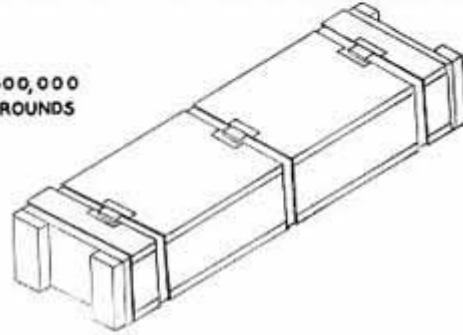


OR



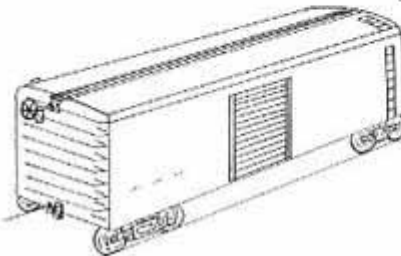
150,000 BOXES
105MM HOWITZER SHELLS M2

300,000
 ROUNDS



STACKED ON PALLETS THEY WOULD FILL
 120 WAREHOUSE BAYS 20' X 20'

1 1/3 MILES OF
 BOX CARS
 REQUIRED TO MOVE THIS
 CARGO





INSTEAD OF A SINGLE ITEM, HOWEVER, A
MANIFEST OF ONE AVERAGE LIBERTY SHIP
WOULD SHOW 500 TO 1000 DIFFERENT
ITEMS SUCH AS:

S. S. LIBERTY			
22	BXS	JEEPS	5LH
110	CSS	2 1/2 TON GMC TRUCKS	4TD
67	EA	3/4 TON AMBULANCES	2LH
12	EA	MEDIUM TANKS M4	1LH
8	EA	STEEL PONTOONS	1TD
473	CSS	SMOKING TOBACCO	3TD
3020	CSS	TYPE C RATIONS	5TD
1000	CSS	TYPE D RATIONS	4LH
5670	CSS	TOMATO JUICE	1-4LH
6200	BXS	30 CAL AMM	2-3LH
2400	BXS	50 CAL AMM	4LH
325	BXS	TOOL SETS	1LH
600	BXS	CANTEENS	2TD
400	BXS	CANTEEN COVERS	5LH
		ETC.	

BUT



EVERY LIBERTY SHIP
CARRIES
ONE IDENTICAL ITEM

