Article

No 31

Subject: Transportation of Tomaps by Waler

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TRANSPORTATION OF TROOPS BY WATER.

In 1862 Mc Clellan's army was transported to Fort
Monroe from Washington, Alexandria, and Perryville, 188 miles,
121500 men, 14500 horses or mules, 1150 wagons, 44 Batteries,
74 ambulances, pontoon bridges, telegraph material and the
usual enormous quantity of equipage, in 113 steamers, 188
schooners and 88 barges, in 20 days. It had, previously, taken
20 days to collect the transports.

Schofield's, 23rd Army Corps, after Nashville in Dec. 64, was transferred to the Potomac, 1400 miles, by river and rail in 11 days. After the same battle General A.J. Smith's Corps marched ( in pursuit) to Eastport, Miss., on Tennessee River. From thence it was taken in river steam boats down the Tennessee, Ohio, and Mississippi to New-Orleans: thence, via Lake Pontchartrain and the sound to Mobile Bay: thence up Fish River in steamboats to Blakely(Spanish Fort ), some 1500 miles. Fish river is a very narrow stream, overgrown and almost obstructed by sub-tropical vegetation. If I am not mistaken, no one, up to this time, had thought of its navigation by other than small craft. Yet very large steamboats, crowded with troops and stores, found their way up its course and aroundits many abrupt bends, the men frequently jumping on to opposite shores from bow and sternand pulling the boat around by long hawsers. The western rivers and river boats were peculiarly adapted for rapid and prompt embarkation. Large numbers of steamboats would be moored, one close to the other, by their bows to the river bank, and the

trops take the boats assinged them with no delay to speak of. The fleet would then move in single file, preceded and followed by gunboats, and, if large, with gunboats at interval5 in the column. It was frequently necessary to land and drive away artillery or sharpshooters who menaced it from the banks, and the pilot houses were invariably protected with bullet proof shields. For these landings, light, especially selected tropps were used who were placed in boats with wide gang-planks, the boats being run promptly to shore, the gangplank lowered by special tackle and the troops standing ready to land and deploy at the run. The gunboat of the advance guard usually carried the commandant of the expedition, and he signaled his orders by a preconcerted code of whistle-blasts. These steamboats averaged 500 tons , and one of these would carry supplies for a corps for 3 or 4 days. Compared with a railway one steamboat was considered equal to 40 or 50 trains.

In the transfer of Mc Clellan's army referred to batteries were usually transported by a tug or steamboat with a schooner on each side for the horses, guns and forage,

The movement of troops by sea becomes difficult in proportion to the length of the voyage, and the varying capacity of the vessels make hard and fast rules impossible. In 1854 the English transported about 33000 men,54 guns, and 3350 horses to the Crimea in 88 steamers and sailing vessels:total tonnage,93000. England claims to be able to place on the continent 88000 men,30000 horses, and 4300 vehicles, and it is stated that, short as is the distance,

and great her resources, it would be impossible to collect ships enough to do so in one trip, and that two trips by the same fleet would be necessary. Ships enough are available, but their withdrawal from their usual avocation would seriously imperil the food supply of the islands. A vessel of 5000 tons, such as the English troop ships, will carry a battalion of infantry ( 1000 ),70 horses, and 16 vehicles. The maximum effort that England can make is to transport 55000 men, fully equipped, with horses, guns and baggage, with food and forage for 14 days and for 14 days after landing. This does not include any calculation of finding draft animals in the theatre of operations. This allows about 2 1/2 tons for each man and his food, and 7 for each horse and his forage.

To land French troops in Italy-a 3 to 5 days'voyage 3 tons are allowed for a horse and 2/3 of a ton for each man. An actual example of crowding troops for a short voyage 2 nights and a day-is offered by the Turks in 1878, when each man had considerably less than 1/2 a ton.

The net tonnage of a steamer is usually about 40 % less than her gross tonnage.

An example of something like an invasion of an American State by a European power is offered by the French expedition to Mexico: 38657 men and 5724 animals, with 25948 tons of munitions of war. To do this 60 vessels made 76 voyages and required crews aggregating 17751, and consuming 109964 tons of coal. The vessels were, largely, steam transports and frigates, and a few sailing ships. This was between November 1861 and June 1863.

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Milder & 3  It would seem to be a fair statement that, in round numbers, I00000 men, 7000 horses, 1000 guns, wagons, stores, etc. could be transported for a week, allowing 1 ton per man, 3 tons per horse, and 6 for each vehicle and stores, requiring a net tonnage of about 150000, and a gross tonnage of about 240000 tons, or 80 steamers of 3000 tons each. These would have to be loaded at several ports, where the modern development of commerce has led to the construction of commodious docks and wharves, steam cranes, electric lights, etc. etc., while increased facilities for disembarcation exist also, even for landing on a beach.

But no nation has at its disposal at any given moment sufficient tonnage to transport 50000 men.

General Sheridan said in his report of 1884: "Except ing for our ocean commerce and our sea-board cities, I do no think we should be much alarmed about the probability of wars with foreign powers, since it would require more than a million and a half of men to make a campaign against us. To transport beyond the ocean that number of soldiers, with all their munitions of war, their cavalry, artillery, and infantry, even if not molested by us while in transit, would demand a large part of the shipping of all Europe."

Following is a simple estimate and rule, which includes arms, ammunition, stores, vehicles for regimental and supply trains and supplies of food and forage:

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## Allow in net tons:

	per man	per horse
For a few hours	1	2 1/2
For a week	2	6 #
For a long voyage	2 1/2	7 ##

Ability to protect one's transports is of course indispensable and it would seem easy to interfere with and to molest them, yet descents have been made successfully executed in opposition to naval preponderance. In 1796 the French landed in Ireland in 44 vessels in 8 days through a triple line of English ships without loss. In 1798 Napoleon evaded Nelson's fleet in the Mediterranian etc.

where there is considerable extent of beach there seems to be no reason why the invader should not steer for it and, favored by weather, land without opposition. The guarding of a coast at every point requires a more extensive system of lookouts, signals and coast guards than it is easy to furnish, or that exist, at least in this country.

However, an army debarking beyond the sea, must place itself where it may soon get provisions, place its transports in safety and maintain communication with home; and all this necessitates the speedy occupation of a sea-port. Still it is unwise to say, in military matters, what can or cannot be done, given favorable circumstances and an intrepid and enterprising genius in command.

<sup>#</sup> Includes 30 days' provisions and forage.

<sup>##</sup> Includes 90 days' provisions and forage.

Vera Cruz, partially protected by a little island as break-water, and landed Worth's division of 4500 men in 65 lighters of 100 men each, by 4 oclock P.M. These advanced simultaneously until they grounded, the men landing waist deep, the lighters returning; by 10 oclock the remaining troops were on shore. The landing of equipage, provisions and ammunition consumed several days. There was no confusion or accident.

(From notes dictated to class, Artillery School.)

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