

about four miles distance through a shallow, crooked channel, and when the range lights are fixed there will be no difficulty in entering this channel in the night. Another great improvement, when completed, will be Sturgeon Bay Canal, a cut about two miles long from the Bay to the Lake. It will not only save a distance of over eighty miles run to Green Bay City, but would make a good harbor of refuge for vessels, and it is hoped that this improvement will be carried out to completion. Large can buoys will be placed on the Whale's Back Shoal, in Green Bay. A new Lighthouse will be built this season on Cana Island, between Mud Bay and North Bay. This light will make a good coast light, and will be of great benefit to those bound through Death's Door to Green Bay. Ranges will be placed in North Bay and Bayley's Harbor, and the old light discontinued. A Lighthouse is to be erected at South Haven, and another at Manistee, on the east shore of Lake Michigan. It is proposed to erect a Lighthouse or a beacon on the middle ground off Racine. These improvements will add materially to the safety of vessels cruising on this Lake and Green Bay. The pier at Devil River will be extended into 12 feet water, so that vessels can load alongside.

Lake Superior.—The new lights and improvements on Lake Superior are a prominent feature. A new Lighthouse will be built on Grand Point au Sauble. This will be a good leading light for Grand Island Harbor, and also as a coast light. The new light at the east entrance to Grand Island Harbor is finished and in good running order, which, together with this light, and the ranges, make this harbor easy of access. Granite Island light, 12 miles from Marquette. The West Huron Island light, and the ranges for entering Portage River and Lake, are alike of importance. A Lighthouse is to be built at Lac La Belle; they are cutting a channel through a narrow neck of land, and making piers, which will form a good harbor for vessels loading copper, or for a harbor of refuge. Gull Island, between Manitou Island and Point Keweenaw, has a Lighthouse erected thereon, and is of great assistance in passing through this channel. The beacon on Stanard's Rock will be another great satisfaction to the weary mariner.

The new cut through Portage River, into Lake Superior, when completed, will eclipse all other improvements on this lake or on any other, of the kind. It will save over one hundred miles in distance to vessels and steamers bound to Ontonagon and Superior City, and will make a good harbor in bad weather. The harbor of Ontonagon is under improvement, and it is hoped that steamers will be able to reach the docks inside the river this season. Passage Island light is to be re-lighted this year. This passage, and also all the passages through the Apostle Islands, are of the most picturesque appearance. At Superior Harbor (River St. Louis), they are building a pier of protection and other improvements, with deep water through the passage. Great benefits will be derived from all the improve-