

fog-horns, 81; the number of light-keepers and engineers of fog-alarms with masters of lightships, was 710. Appendix No. 16 contains the number of stations, lights, fog-alarms and steamers in each agency in detail.

ONTARIO LIGHTHOUSE DIVISION.

This division includes the lighthouses and other aids to navigation in that part of the province of Quebec lying west of Montreal, all the lights in the province of Ontario, lights above Montreal, embracing the lights on the Ottawa River, the Great Lakes, and some of the smaller inland lakes, as well as the lights on Lake Winnipeg, in the province of Manitoba.

The number of lighthouses, lighted beacons and lightships maintained by the Dominion in the Ontario division, as above described, is 224, located at 182 different stations.

The number of light-keepers in this division paid directly by the government, is 172, but in several cases assistants are employed by keepers, and paid by them out of the allowance made by the government for that purpose.

There are in Ontario, two fog-whistles, eleven steam fog-horns, and three fog-bells, all located at light stations, as well as four bell-buoys.

Besides the lights maintained by this department, as above described, there are in Ontario the following aids to navigation: two lights on swing bridges; a system of lights on the Murray Canal, maintained by the Department of Railways and Canals; four pairs of range lights on the Detroit and St. Clair Rivers, maintained by the American vessel owners principally interested; thirteen wharf lights maintained by the municipalities or corporations to which the wharfs belong, and two range lights established this year at Pine Tree harbour.

Eight of these last described stations are aided by this department to the extent of being furnished with the necessary oil for their maintainance.

The lights in this division, with the exception of those on the Bay of Quinté, the Ottawa River, and the small lakes, were inspected during the months of July and August, by Mr. Patrick Harty, Superintendent of Lights, and supplied with the necessary stores for annual maintenance. It was found impossible, this season, to make a regular inspection of the lights in the Ottawa River.

NEW AIDS TO NAVIGATION.

Toronto East Gap Light.

For some years past, extensive work has been performed by the Department of Public Works in dredging a deep channel through the East Gap or eastern entrance to Toronto harbour, Lake Ontario, and in protecting this channel by breakwater piers of cribwork. This department proposes to mark the new channel, when completed, by a system of leading lights. In consequence of the low water which prevailed in the lake this summer, steamers preferred using this channel, although not completed, to the west entrance, and urged the early establishment of a light. A temporary light was consequently put in operation on the 9th September last; it is a fixed red light, elevated 16 feet above the water, and visible 6 miles from all points of approach. The illuminating apparatus is a dioptric lens of the seventh