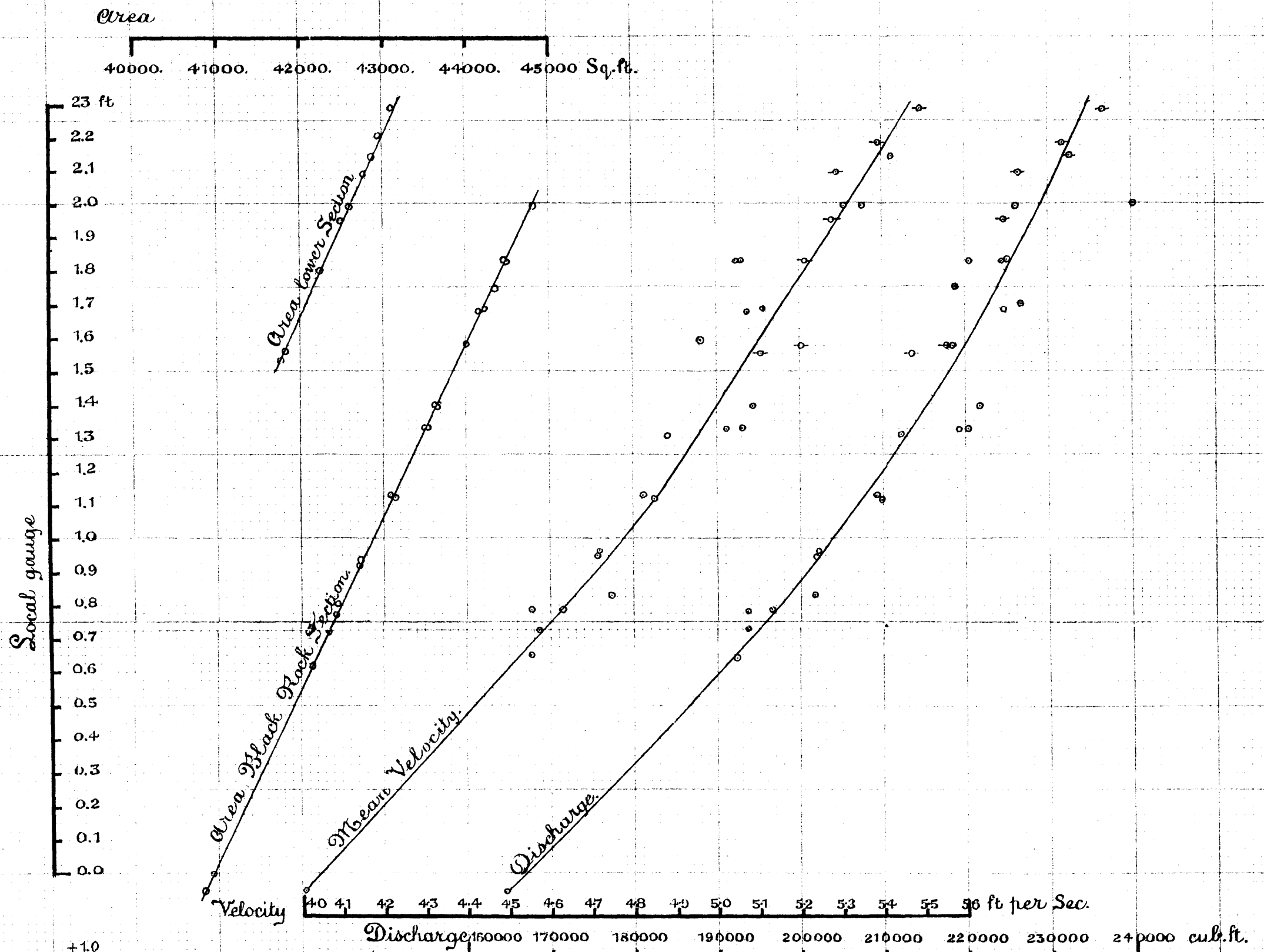
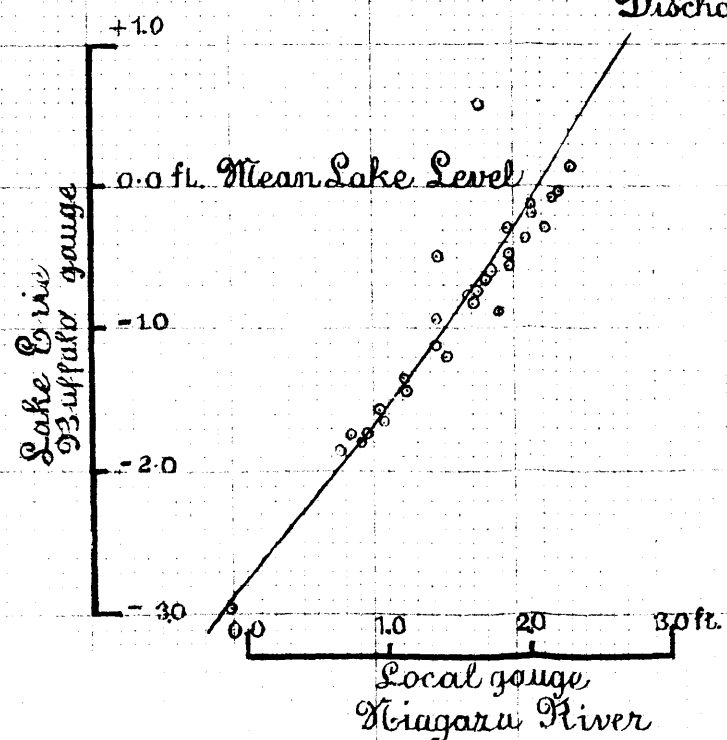


To accompany report on "Effect of Chicago Drainage Canal on levels of Great Lakes and connecting Rivers" by order of
HONORABLE JOHN COSTIGAN.
 Minister of Marine and Fisheries,
 Canada.



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Equation of smooth curve of Discharge.
 $Discharge = 160000 + 43702 x - 6182 x^2 \dots etc.$
 $x =$ local gauge height
 \circ - on lower section.
 Results of series of obs. taken Dec. 1891. are included in plate.

Equation of smooth curve of gauge relation
 $Local\ gauge\ height = 2087 + 6.2x - 0.46x^2 \dots etc.$
 $x =$ Buffalo gauge height.
 \circ - Mean gauge heights Buffalo and Local gauges during time of discharge measurements.

Ottawa, Ont., Canada, April 1896.
J. L. P. O'HANLY, C.E.