Eighteenmile, and Twelvemile creeks in New York, of Twelvemile and Twentymile creeks and the Credit and Hamber rivers in Ontario, and of Rocky River, Black River, Vermilion River, Old Womans Creek, Pike Creek, Turtle Creek, and Ottawa River in Ohio. Even the largest rivers of the district, including the Genesee, Niagara, Cuyalloga, and Mannee, have features indicative of the same history.

By reference to the map (fig. 93, p. 692) it will be seen that the outlets of these lakes are at their northernmost points, and this fact is related to the conditions of the stream channels. The water level of a lake is maintained by the balance between inflow and outflow. It is just high enough to enable the outflowing stream to earry off the excess from inflow, and the height of water on all shores is thus determined by the height of the outlet. So if these basins are canted northward the outlets are thus lowered with reference to other parts, and the waters recede on the southern shores. If they are cauted southward, the outlets are raised and the waters are made to advance on the southern shores. Reasoning from effect to cause, the fact that the lake water invades the new-made stream channels on the southern shores is evidence of the southward canting.

It should not be assumed that the "drowning" of stream channels is restricted to the tracts mentioned above. Those tracts are specified because they fall within the range of the writer's personal observation and are known to exhibit the phenomena in a striking way. It is believed that similar features may be found wherever the local conditions are favorable throughout the whole coast lines of Lake Ontario and Lake Eric, about the head of Lake Michigan from Manistee, Michigan, to Kewaunee, Wisconsin, and about the whole of the American shore of Lake Superior.

REASONS FOR REGARDING A PROGRESSIVE MODERN CHANGE AS PROBABLE.

Independent of the phenomena described by Stuntz, there are various considerations tending to direct attention to the question of the stability or instability of the Laurentian area at the present time. The first to be mentioned is purely geologic. The epoch during which the overflow from the upper lakes followed the valleys of the Mattawa and Ottawa is definitely associated with a certain stage of the Niagara River. The entaract of Niagara is at the present time increasing the length of the Niagara gorge at a somewhat rapid rate. The formation from which the water leaps is a firm limestone 60 feet thick, and beneath this are shales which are comparatively soft and weak. The cataract, by eroding the shale, undermines the limestone, which falls awny in blocks, and these blocks are in turn utilized by the water as an instrument with which to grind the shale. Whirled about by the

¹F. H. Taylor mentions a few other localities on the same lakes: Am. Geologist, Vol. XV, 1895, pp. 174-176.