

other lacustrine deposits attending the high water, rest on the Drift. The entire broad region covered by the high water is overspread by a sheet of lacustrine clays and thin seams of sand. These deposits exhibit a regular horizontal stratification. Occasionally we find a boulder imbedded in them. Excellent material for bricks and pottery is furnished by the clays; and in many situations, as at Milwaukee, the absence of iron prevents the production of a red color in burning. The famous "Milwaukee bricks" are of a pale lemon color, or even, in some cases, as white as chalk. This sort of clay occurs on both sides of Lake Michigan.

These lacustrine deposits rise from the shore with the general slope of the earth's surface, to the upper level reached by them. The lowest beds come to the surface at the highest elevation. Often these are sandy; and, becoming saturated with rain at the surface, they convey a sheet of fresh water under the other deposits to the lower levels. These water-bearing sheets pass under the cities which have been built in modern times on the lacustrine border. In some cases, as at Toledo, and many points on the north shore of Lake Erie, artesian borings have been carried down to the water-bearing strata, and thus artesian wells have been obtained.

We have been considering lake-terraces and high water in the Great Lakes. But every observer has noticed terraces also along the borders of rivers. On the lower Ohio they occur up to 160 feet above low water; at Louisville, 128 feet above low water; near Cincinnati, 120 feet. On the Connecticut, they range from 150 to 240 feet above the modern flood level. On the Missouri we find them up to 335 feet; on the Athabasca and Saskatchewan, up to 370 feet. There is no need of citing further; for these facts show that the rivers in all the northern parts of the country have been enormously flooded, as well as the lakes. These terraces, also, rest on the top of the Drift deposits. The flooded waters, therefore, in general, existed after the events which left the Drift overspreading the northern states.

Now let us reason a moment from the facts which have