

BERTIE COUNTY.

The only water tested from Bertie County was from the flowing well at Windsor. From the analysis, which appears in Table 2, this water may be classed as sodic alkaline saline.

BLADEN COUNTY.

The only analysis that was made of Bladen County water is presented in Table 2; it shows a very soft water.

The results of the assays of water from this county appear in Table 1. Assays 10, 12, 16, 17, 19, 21, and 22 show remarkably soft water. Assays 13, 14, 15, and 16 denote waters moderately high in carbonates. Assay 20 is a test of a water of somewhat high carbonates and chlorides. None of the waters of this county have more than a trace of sulphates.

BRUNSWICK COUNTY.

The results of the chemical analyses of the water of Brunswick County appear in Table 2. Analyses 8 and 9 record tests of salty waters at Fort Caswell that are unlike. Analysis 8 shows a highly mineralized sodic chloride water, and analysis 9 shows an even more highly mineralized water that may be classed as sodic calcic alkaline saline. Analyses 10 to 23 are tests of samples of water that were collected at intervals from a deep well at the Quarantine Station during 66 minutes' pumping. Analysis 10 shows the composition of water that probably had been standing in the well since it was last pumped. This water is soft and not high in chlorides. The samples taken 3 and 6 minutes later are very high in chlorides and show, also, an increase in carbonates. Samples taken thereafter for 35 minutes at 5-minute intervals show steady diminution in carbonates and chlorides. Samples taken in the succeeding half hour were fairly constant in composition, for the carbonates and chlorides fluctuate but little. These tests may be compared with assays 26 and 27, Table 2.

The assays of Brunswick County waters appear in Table 1. Assays 23 and 24 are tests of two saline waters, one of which comes from a deep and the other from a shallow well. The two waters are highly mineralized, large quantities of carbonates, sulphates, and chlorides being present. Assays 25 and 28 indicate waters moderately high in carbonates and low in chlorides.

CARTERET COUNTY.

No mineral analyses were made of the waters of Carteret County, but seven assays are recorded in Table 1. Assays 30, 31, and 32 indi-