

Flowing wells from the Patuxent formation need only be expected on land less than 50 feet above sea level in the central and eastern parts of the county at depths ranging from 50 to 300 feet. On higher land, in the central and eastern parts of the county, artesian water of the same character is available at a correspondingly greater depth. While overflows are not possible on land the elevation of which is greater than 50

## EDGECOMBE

| Number. | Location.                                  | Owner.                                            | Date completed. | Elevation of surface above datum—feet. | Datum.     | Depth—feet. | Diameter—inches. | Depth to principal water supply—feet. | Height of water, $\pm$ surface—feet. |
|---------|--------------------------------------------|---------------------------------------------------|-----------------|----------------------------------------|------------|-------------|------------------|---------------------------------------|--------------------------------------|
| 1       | South Rocky Mount.....                     | Rocky Mount Ice and Fuel Co.                      | 1899            | 120                                    | sea level. | 754         | 6                | -----                                 | -----                                |
| 2       | do.....                                    | Southern Ice Co.....                              | about 1899.     | 120                                    | sea level. | 280 $\pm$   | 6                | -----                                 | -----                                |
| 3       | Tarboro.....                               | City.....                                         | 1899            | 50                                     | sea level. | 349         | 8                | -----                                 | -----                                |
| 4       | Tarboro, at waterworks plant.              | City.....                                         | 1906            | 50 $\pm$                               | sea level. | 73          | 6                | 63-64                                 | + 2                                  |
| 5       | Conetoe.....                               | C. W. Wilson.....                                 | 1905            | 50                                     | sea level. | 24          | 1 $\frac{1}{2}$  | 24                                    | -2 $\frac{1}{2}$                     |
| 6       | Conetoe, 3 $\frac{1}{2}$ miles W. of...    | R. C. Warren.....                                 | about 1906.     | 41                                     | sea level. | 75          | 1 $\frac{1}{4}$  | 70                                    | -6                                   |
| 7       | Old Sparta, 2 miles S. E. of               | Mrs. W. O. Warren.....                            | about 1901.     | 30                                     | sea level. | 84          | 1 $\frac{1}{4}$  | 84                                    | 2                                    |
| 8       | Old Sparta.....                            | L. H. Wells.....                                  | -----           | 43                                     | sea level. | 108         | 1 $\frac{1}{4}$  | 100                                   | 2                                    |
| 9       | Kingsboro, 2 $\frac{1}{2}$ miles S. W. of. | N. C. Dept. of Agriculture (Edgecombe Test Farm). | 1906            | 100                                    | sea level. | 169         | -----            | -----                                 | -----                                |

## GATES COUNTY.

*Topography.*—The surface of Gates County is formed of parts of three Pleistocene terrace plains. The lowest or Pamlico plain covers a strip a few miles wide in the extreme east, with elevations not exceeding 25 feet. This area forms a part of the Great Dismal Swamp. Limited areas of this plain occur, also, along Chowan River. The second or Chowan plain, at elevations of 30 to 40 feet, covers more than half of the remainder of the county's area. It is separated from the Pamlico plain on the east by a well-defined sea-facing scarp, along whose crest is a ridge of sandhills rising about 10 feet above the level of the Chowan plain. This probably constitutes an old beach line of wind-blown sand dunes. The third or Wicomico plain, at elevations of 60 to 80 feet, is present in the northwestern part of the county. It is separated from the Chowan plain by a well-defined scarp 20 to 40 feet in height.

*Geology.*—Sands, sandy loams, and clays of Pleistocene age, belonging to the Wicomico, Chowan, and Pamlico formations, form the sur-