



# *The manual of American water-works*

Engineering News Publishing Company, Moses Nelson Baker

\$7,970; city, \$1,148; total, \$9,118. **Management.**—Prest., Adolph Mack. Secy., W. H. Taylor. Supt., J. Harper Smith

52. **SOUTH ORANGE, Essex Co.** (Pop., 2,178—3,106.) **History.**—Built in '90-1 by borough; put in operation Jan. 29. Engr., C. P. Bassett, Newark. **Supply.**—Mountain Water Co.'s plant, at Summit, through two sets of meters. **Distribution.**—Mains, 10 to 4-in. c. i. (Mar. 12, '91), 5.83 miles. **Services,** lead and galv. i. **Consumers** (June, '91), about 125. **Hydrants,** Mathews and Beaumont, 45. **Pressure,** av., about 100 lbs. **Financial.**—*Cost* (to Mar. 12, '91), \$24,719, *Debt* (Mar. 12, '91), \$25,000 at 5%. **Management.**—Comrs. Chn., H. H. Hart. Supt., J. B. Maxwell.

53. **SUMMIT, Union Co.** (Pop., 1,910—3,502.) Built in '89 by Summit Water Co. Supplies water through me'ers to South Orange plant. **Supply.**—Wells in Blue Brook Valley, pumping to stand-pipe. **Fiscal year closes** Dec. 31. **Distribution.**—Mains, 10. *Taps,* 201. *Meters,* 10. *Hydrants,* 51. **Consumption,** 75,000 galls. **Financial.**—*Cap. Stock:* authorized, \$100,000; paid up, \$60,000. *Bonded Debt,* \$63,000 at 5%. *Expenses:* int., \$3,000; taxes, \$350. *Revenue,* city, \$2,550. **Management.**—Prest., Franklin Murphy. Secy., Eugene Vanderpool. Treas., Fred. Frelinghuysen. Supt., Fred'k Green. Const. Engr., C. P. Bassett, Newark.

54. **TRENTON, Mercer Co.** (Pop., 29,910—57,458.) Bought and rebuilt by city in '55. Built in 1803 by Co. **Supply.**—Delaware River, pumping to reservoir. **Fiscal year closes** Jan. 31. In '90, high service tank was constructed at cost of \$21,749.

| Yr. | Mains. | Taps. | Meters. | Hyd'ts. | Cons'pt'n. | Cost.     | B'd'd d't. | Int.ch'g's. | Exp.    | Rev.     |
|-----|--------|-------|---------|---------|------------|-----------|------------|-------------|---------|----------|
| '82 | 35     | 5,388 | 38      | 185     | 1,275,126  | \$327,000 | \$265,000  | \$15,900    | \$9,774 | \$47,875 |
| '84 | 35     | 6,046 | 38      | 205     | 1,409,921  | 349,371   | 265,000    | .....       | 9,338   | 55,035   |
| '86 | 37.2   | 6,929 | 46      | 214     | 2,000,000  | 422,951   | 265,000    | 15,850      | 13,373  | 57,324   |
| '87 | 40     | 8,102 | 46      | 242     | 2,256,000  | 447,946   | 265,000    | 15,850      | 14,947  | 74,883   |
| '88 | 60     | ..... | .....   | 266     | 2,533,405  | 530,384   | 310,000    | 18,100      | 16,980  | 74,637   |
| '89 | 66     | 8,692 | .....   | 293     | 2,849,535  | 581,557   | 310,000    | 18,100      | 15,806  | 80,306   |
| '90 | 71     | ..... | .....   | 339     | 3,569,150  | 650,134   | 210,500    | 18,100      | 18,847  | 91,563   |

**Financial.**—*Bonded Debt,* \$210,500 at 5 and 6 per cent. *Sinking Fund,* \$143,534. *Expenses,* total, \$36,947. *Revenue:* consumers, \$91,563; city none. **Management.**—Six comrs., two appointed every year for two years. Prest., Robert Aitken. Sec. and Treas., Chas. A. Reid. Supt., Jacob E. Carter, appointed by comrs.

23. **UNION, Bergen Co.** (Pop., 865—1,560.) Supply from Hoboken.

55. **VINELAND, Cumberland Co.** (Pop., 2,519—3,822.) Built in '86 by Chas. J. Keighley. In '91 Mr. Keighley incorporated Vineland Water-Works Co. to protect his interests; franchise provides that city may purchase works by paying cost of construction and 6% int. from first date of construction; city has no control of rates. **Supply.**—Driven wells, pumping to tank. **Fiscal year closes** Dec. 31. **Distribution.**—Mains, 12 miles. *Taps,* 83. *Meters,* 3. *Hydrants,* 30. **Consumption,** 125,000 galls. **Financial.**—*Capital stock,* authorized, \$75,000. *No debt.* *Revenue,* \$514. **Management.**—Owner, Chas. J. Keighley.

56. **WASHINGTON, Warren Co.** (Pop., 2,142—2,834.) Built in '82 by Washington Water Co. **Supply.**—Stream, by gravity. **Distribution.**—Mains, 5.8 miles. *Taps,* 150. *Hydrants,* 30. **Financial.**—*Cost,* \$35,000. *Cap. stock,* \$35,000. *No debt.* **Management.**—Prest., J. W. Fritts. Treas., P. H. Hann. Supt., J. E. Fulper.

57. **WENONAH, Gloucester Co.** (Pop., 166—est., 500.) Built in '85 by Wenonah Water Co.; city neither controls rates nor has right to purchase works. **Supply.**—Spring, pumping to tank and direct. **Fiscal year closes** Dec. 31. **Distribution.**—Mains (in '88), 2 miles. *Taps* (in '88), 75. *Meters,* 0. *Hydrants,* 12. **Financial.**—*Cap. Stock:* authorized, \$25,000; paid-up, \$12,500; paid 5% dividend in 1890. *No Debt.* **Management.**—Prest., Stephen Greene. Secy., E. L. Farr. Supt., Blair Smith.

23. **WEHAWKEN, Hudson Co.** (Pop., 1,102—1,943.) Supply from Hoboken.

23. **WEST HOBOKEN, Hudson Co.** (Pop., 5,441—11,665.) Supply, from Hoboken.

58. **WOODBURY, Gloucester Co.** (Pop., 2,302—3,911.) Built in '86 by village. **Supply.**—Head of Mantua Creek, pumping from settling to distributing reservoir, with direct pumping in case of fire.

| Year. | Mains. | Taps. | Meters. | Hyd'ts. | Cons'pt'n. | Cost.    | B'd'd d't. | Int.chgs. | Exp.    | Rev.    |
|-------|--------|-------|---------|---------|------------|----------|------------|-----------|---------|---------|
| '88   | 11     | 363   | 2       | 59      | 100,000    | \$72,000 | \$72,000   | \$2,880   | \$1,400 | \$4,000 |
| '89   | 11.85  | 450   | 2       | 69      | 148,000    | 72,060   | 72,000     | 2,880     | 2,153   | 4,535   |
| '90   | 12.05  | 520   | 2       | 70      | 213,000    | 72,894   | 72,000     | 2,880     | 2,537   | 5,683   |