



THE FIRE INSURANCE RATING  
 ORGANIZATION OF N. J.  
 ENGINEERING DEPARTMENT  
 NEWARK 2, N. J.

**Wenonah Borough**  
**Gloucester County, New Jersey**

DECEMBER 30, 1950

**KEY**  
**PROTECTED FIRE ZONE:** Shown in Green.  
 Note.—For description of fire protection, etc., see other side.  
 Elevations range from 0 to 96 feet above mean sea level.  
 Water mains 8 inches and larger in diameter  
 Water mains 6 inches in diameter  
 Water mains 4 inches in diameter  
 Fire hydrants shown thus  
 Gate valves shown thus

Fire house shown thus  
 Fire apparatus designated by symbols thus:  
 (Y) Pumping engine and hose car  
 (A) Ambulance, Squad or Auxiliary car  
 (Q) Booster tank or tanks on above

## WENONAH BOROUGH, GLOUCESTER COUNTY, NEW JERSEY.

Population — Census of 1930 was 1,245.

**IN GENERAL:** Located on the W. J. & S. R. R. about 12 miles southwest of Camden. It is principally a residential community of commuters to Camden and Philadelphia, with a military academy of frame construction. Area about 1 square mile. Elevations range from 0 to 96 feet. Main thoroughfares concrete; other roads are sand or gravel in fair condition. A railroad crossing at grade could delay the response of fire apparatus to the easterly portion of the borough.

**WATER SUPPLY:** The Borough of Wenonah owns and operates the supply works, distribution system and appurtenances supplying water for domestic and fire protection purposes to territory within the municipal limits. **Organization:** The system is in charge of a council committee chairman and is operated by an annually appointed engineer in charge of the pumping station, and the local plumber, who makes all repairs and extensions, is in charge of the distribution system. No local office. Records are incomplete consisting primarily of pumping statistics. The borough plumber is a fireman and responds to alarms and has emergency equipment available. **Supply Works:** Constructed in 1886. Water is obtained by direct suction from 8 wells, 2 of which are 3-inch, 120 to 136 feet deep, 5 are 4½-inch, 184 to 205 feet deep, and one is 6-inch, 225 feet deep. Aggregate yield of wells at time of inspection was 0.374 m.g.d. Pumping equipment discharges to the distribution system with the standpipe acting as an equalizer. **Pumping Station:** Located near Maple Street as shown on map. Building is a 1-story frame structure with composition covered roof, concrete floor, electric lighting and steam heat. No exposure except from woods. No hand protection, but one 2-way hydrant is installed within 60 feet. Housekeeping fair to good. Telephones in station and in home of engineer located nearby. Elevation of pump room floor about 4. Station is located below the dam of Wenonah Lake and would be subject to disruption during flood conditions. **Equipment:** One Gould triplex pump rated at 450 g.p.m. being operated at 300 g.p.m. driven by a 40-h.p. Fairbanks-Morse Diesel engine. One Worthington duplex steam pump 12 x 18½ x 10½ x 10 inch rated at 0.76 m.g.d. at 75 r.p.m. The steam unit is normally operated at reduced speed to conform with the yield of the well field. Steam is furnished during the winter months by a 70-h.p. boiler in same building. **Distribution System:** In one service consisting of 6-inch arteries together with 3-, 4- and 6-inch gridiron and dead ends. See map. **Standpipe:** Located on East Jersey Avenue at Buttonwood Street as shown on map. It is steel, 15 feet in diameter by 100 feet in height with a capacity of 132,000 gallons. Elevation of base about 70 feet. Elevation of overflow 170 feet. **Consumption:** The average and maximum daily pumpage during the twelve month period ending August 31, 1940, was 75,300 and 190,000 gallons. At time of inspection there were 358 services, all of which were metered. **Pipe:** All pipe 3-inch and larger is cast iron, tar coated, bell and spigot joint, laid with about 3½-foot cover. No serious trouble from frozen mains, and electrolysis has not been experienced. Total length, 32,500 feet; 6% 3-inch, 66% 4-inch, 26% 6-inch, 2% 8-inch. **Gate Valves:** There are 41 on the system of R. D. Wood make set with iron boxes at or near grade. With two exceptions the direction of operation is uniform. Inspection is limited to that necessitated by system maintenance. No complete valve records provided. **Hydrants:** There are 51 on the system of Wood and Eddy makes of standard type with two 2½-inch outlets and 4-inch ungated branches. Hydrants are maintained by the borough plumber who inspects them annually and they were found to be in good condition at time of inspection. **Pressures:** No recording gauge on system. A direct reading gauge at the pumping station at about elevation 16 shows 75 pounds when standpipe is full. Readings taken at 7 well distributed hydrants showed pressures ranging from 47 to 70 pounds with an average of 57.3 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on September 27, 1940, by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow and pressure during flow were as follows:

Mantua and W. Jersey Aves., 590—59—20.  
Mantua and Garfield Aves., 365—65—7.  
Princeton Ave. and Cedar St., 530—56—16.  
Maple St., E. of Marion Ave., 380—47—13.  
Maple St. at Woodbury Rd., 225—49—\*.

\* No reading taken.

**FIRE DEPARTMENT:** Volunteer organization of one company under the control of the borough which owns apparatus and equipment and appropriated \$1,300 for the support of the department during 1940. The company owns the quarters. Total active membership 25 including a chief, assistant chief and two foremen, of whom a minimum of 12 members are available at all times. In addition to the active membership there are about 20 active exempt men, some of whom do regular fire duty and are available at all times. Officers are elected annually by the company and confirmed by the mayor and council. **Company:** Located on West Jersey Avenue near Cherry Street as shown on map. Building is a 2-story cement block structure with concrete floor, electric lights, hot air heat and telephone. Siren on tower at rear. **Equipment:** One 1921 Stutz 500-g.p.m. double combination pumping engine carrying 900 feet of 2½-inch hose, 200 feet of 1½-inch hose, 2 short ladders and some minor equipment. One 1928 Seagrave 500-g.p.m. triple combination pumping engine carrying one 100-gallon booster tank, 250 feet of booster hose, 400 feet of 2½-inch hose, 200 feet of 1½-inch hose, one 12-, one 24- and one 45-foot ladder and fairly complete minor equipment. **Hose:** All 2½-inch hose is C.R.L. with Jones snap couplings. Total supply is 1,350 feet, all of which is carried on the apparatus. Of the total supply 350 feet is more than 5 years old. No adequate drying facilities provided. Hose is repacked and tested at 250 pounds pressure about 4 times each year. **Operations:** Department is governed by borough ordinance and company by-laws. The chief officers have full control of apparatus at all times and of men at fires and drills. Motors are started weekly and there are 6 drivers and operators assigned to the apparatus. **Drills and Training:** Company drills are held twice monthly under the direction of the chief officers. They consist of hose laying, pump operation, use of appliances, ladder work, lectures and general inspection during inclement weather. **Fire Methods:** Booster streams and hand extinguishers are used on incipient fires supported by engine streams with shut-off nozzles. Two all-service gas masks are installed. One salvage cover is provided and heavy stream appliances are limited to one distributor. **Response to Alarms:** Company responds to all borough alarms and one engine is assigned to outside calls. Outside aid may be secured from the volunteer departments at Woodbury and Pitman. **Building Inspection:** The chief officers make annual inspections of the schools and public buildings. **Records and Reports:** Records consist chiefly of fire reports including attendance and nature of alarms and monthly reports are made to the County Association. **Fire Alarms:** Telephoned through a local exchange in a frame building in the business district at which location there is a push-button controlling the siren on tower at fire station. Siren may also be operated from building.

**POLICE DEPARTMENT:** Consists of 2 regular officers, one of which is on duty at night. Officers have private cars.

**BUILDING LAWS:** Code adopted October 5, 1920, provides for the appointment of a building inspector and requires that permits be secured before building operations may begin. Code has some fair regulations with regard to the construction of chimneys, but in general does not conform to the Code of Suggested Ordinances as recommended by the National Board of Fire Underwriters. No fire limits are established, but flammable roof coverings are prohibited throughout the borough.

**EXPLOSIVES AND FLAMMABLES:** No municipal regulations. State laws adequately cover the storage and shipment of explosives and flammables and the construction of motion picture booths. They also restrict the discharge of fireworks to responsible bonded parties.