

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







Mendham Borough
Morris County, New Jersey

JUNE 30, 1949

KEY

PROTECTED FIRE ZONE: Shown in Green.
 Note.— For description of fire protection, etc., see other side.
 Elevations range from 380 to 800 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:
 Pumping engine and hose car  Ladder truck 
 Booster tank or tanks on above 

MENDHAM BOROUGH, MORRIS COUNTY, NEW JERSEY.

Population — 1940 Census — 1,343.

IN GENERAL: Located in the southern part of the county about 7 miles west of Morristown. It is mainly a farming and residential community with several large country estates. Total area is 6.7 square miles. Elevations range from 380 to 800 feet. Roads are macadam or gravel in fair condition. There are no railroad crossings or steep grades which might interfere with the response of fire apparatus.

WATER SUPPLY: The borough owns and maintains the supply works, transmission mains, and distribution system and supplies water to the borough and a few bordering estates in Mendham Township. **Organization:** The system is under the supervision of a superintendent who is appointed annually and is in charge of an annually appointed water operator who has held office for the past six years. Water operator maintains filters and hydrants and makes minor repairs and taps. Extensions are made under contract. A small amount of spare parts are kept in the rear of the borough hall. A borough truck is available. Records are poor and consist chiefly of consumption data and a catalog of valve locations. **Supply Works:** This is a gravity system and was built in 1908. Water is obtained from springs and the India Brook about 3.5 miles north of the borough in Randolph Township. Water from the springs is piped to a nearby 50,000-gallon settling basin, chlorinated, and run into a storage reservoir of 600,000 gallons capacity. Water from the brook is impounded in a 3 million gallon reservoir, filtered near the intake, and piped to the settling basin. **Equipment:** There are 3 sand filters of concrete, each 50 x 30 x 10 feet, of 75,000-g.p.d. capacity each and capable of 25% overload; two were constructed in 1926 and one in 1938. They are equipped with bypasses and may be eliminated in an emergency. **Distribution System:** In one service. It is supplied by an 8-inch transmission main from the storage reservoir and consists of 4-inch and 6-inch lines with little or no gridiron. **Reservoir:** Located in Randolph Township about 1.5 miles north of the borough limits. It is open, of riprap construction with a capacity of 600,000 gallons. Elevation of overflow is about 790 feet. **Consumption:** The average and maximum daily consumption during 1948 were about 0.13 and 0.264 million gallons respectively. On December 31, 1948 there were 375 live services, all of which were metered. **Pipe:** All pipe is cast iron, tar coated, bell and spigot joint, laid with from 4½-foot to 5-foot cover. Total length, 59,650 feet; 12.2% 8-inch, 61.2% 6-inch, and 26.6% 4-inch. There has been no trouble from frozen mains or electrolysis. **Gate Valves:** There are 41 in the borough of Darling, Kennedy, and Smith makes set with valve boxes at or near grade. All turn left to open and all are inspected about every two years. **Hydrants:** There are 89 in the borough, 13 of which are private. All are of R. D. Wood make, of standard type with 4-inch branches, a few of which are gated. All have two 2½-inch outlets which have National Standard threads. They are inspected about twice a year and at time of operation were found to be in good condition. **Pressures:** There is no pressure recording gauge on the system. Readings taken at 9 widely distributed hydrants showed pressures ranging from 33 to 133 pounds with an average of 76 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on October 3, 1940 by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow, and pressure during flow were as follows:

E. Main St and Mountain Ave, 390—70—15
 Pitney Rd 1,360 ft. N. of E. Main St, 140—80—0
 Pitney Rd. 330 ft N. of E. Main St, 210—94—*
 Talmadge Rd. and Talmadge Back Rd, 230—94—*
 S. of Talmadge Back Rd. at F. M. Mosser Property,
 120—73—*
 Bernardsville Rd. opposite Talmadge Private Rd, 80—
 33—0.
 Bernardsville Rd. 700 ft. W. of Talmadge Private Rd,
 120—40—*.
 Bernardsville Rd 1,550 ft W. of Talmadge Private Rd,
 340—66—*.

S. of W. Main St. 1,500 ft. W. of Borough Limits, 250—
 133—*.

*No reading taken.

FIRE DEPARTMENT: It is a volunteer organization of two companies, operating as one company, under partial control of the borough. The borough owns the pumping engine, and the Hook and Ladder Company owns the ladder truck. The borough owns the house and appropriates \$2,000 annually for the department support. There are 40 active members, of whom a minimum of about 20 are available at all times. Officers are elected biennially by the company with the approval of the borough and consist of a chief, foreman, and first and second assistant foremen. **Companies — Mendham Hose Company:** Located on East Main Street near Orchard Street as shown on map. Building is a 2-story frame structure with composition roof, concrete apparatus floor, steam heat, electric lights, telephone, and a siren on roof. **Equipment:** A 1930 Mack 750-g.p.m. triple combination pumping engine carrying an 80-gallon booster tank, 150 feet of booster hose, 1,300 feet of 2½-inch hose, 2 short ladders, and fair minor equipment. **Mendham Independent Hook and Ladder Company:** Located with Mendham Hose Company on East Main Street. **Equipment:** One 1930 G M C. ladder truck carrying 3 ladders ranging from 12 to 40 feet and totaling 76 feet, 350 feet of 2½-inch hose, 2 all-purpose gas masks, 1 salvage cover, and fair minor equipment. **Hose:** All 2½-inch hose is C.R.L. with National Standard screw couplings. All hose is shifted and tested annually at about 190 pounds pressure and dried on apparatus room floor. About 500 feet is over five years old, and there is no reserve hose. **Operations:** Department is governed by borough ordinance and company by-laws. Chief has full control of apparatus at all times and of men at fires and drills and may suspend members pending a hearing before the borough council. Motors are started semi-weekly and 14 members are appointed as drivers and pump operators. **Drills and Training:** Drills are irregular and average about 8 or 10 a year. They consist of pump operation and some hose and ladder work, and are held under the supervision of the chief officers. **Fire Methods:** Booster lines are used on incipient fires reinforced by hydrant and engine lines with shut-off nozzles. Two gas masks and one salvage cover are provided, but there are no heavy stream appliances or other salvage equipment. **Response to Alarms:** Both pieces of apparatus respond to all alarms within the borough. Outside aid may be obtained from Mendham Township, Bernardsville, and Morristown. **Building Inspection:** Chief is said to make an annual inspection of all stores, schools, and taverns, but no records are kept of these inspections. **Records and Reports:** Fairly complete records are kept of all fires and drills, and the chief makes monthly and annual reports to the borough council. **Fire Alarms:** Alarms of fire are telephoned through the manually operated Mendham Telephone Exchange to the apartment above the former fire house where there is someone present at all times. Alarms are sounded on the siren at the present fire house by means of a switch located in the above mentioned apartment. Switches controlling the siren are also located in a drug store in the center of the borough and at the post office.

POLICE DEPARTMENT: A call department consisting of 1 marshal and 2 assistant marshals; all have uniforms and use their own vehicles.

BUILDING LAWS: "The New Jersey Code of Minimum Construction Requirements for One and Two Family Dwellings" was adopted by reference on August 4, 1947. Code has few structural requirements and is of little value from a fire protection standpoint.

FIRE PREVENTION LAWS: No municipal regulations. State laws adequately cover the storage and shipment of explosives, the transportation of flammable liquids, and the construction of motion picture booths. They also restrict the discharge of fireworks to responsible bonded parties.

ZONING ORDINANCE: Adopted August 14, 1933