

Superseding Map No. 135 of March 31, 1941. Please destroy old issue.



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

## Piscataway Township

Including Fire District No. 1, New Market,  
Lake Nelson, and North Stelton; Fire  
District No. 2, Bound Brook Heights,  
and Possumtown; Fire District  
No. 3, Arbor.

### Middlesex County, New Jersey

FEBRUARY 15, 1951

## KEY

**PROTECTED FIRE ZONE:** Shown in Green.

**NOTE:**—Fire protection report on file in Engineering Department of F. I. R. O. of N. J.

*Elevations range from 10 to 187 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 hose shown thus*

*Fire apparatus designated by symbols thus:*

(Y) Pumping engine and hose car

(H) Hose car

(B) Booster car

(A) Ambulance, Squad or Auxiliary car

(E) Booster tank or tanks on above

(L) Ladders on above

March 10, 1941.

# PISCATAWAY TOWNSHIP, MIDDLESEX COUNTY, NEW JERSEY.

Including Fire District No. 1, New Market, Lake Nelson, and North Stelton; Fire District No. 2, Bound Brook Heights; Fire District No. 3, Arbor.

Population—Census of 1940 was 7,179.

**IN GENERAL:** Located on the Lehigh Valley Railroad, the Port Reading Railroad and the Raritan River southwest of the City of Plainfield. A residential and farming community with about 8 industries employing around 1,200. Area 18.9 square miles. Elevations range from 10 to 132 feet. Main roads concrete, others gravel and macadam in fair to poor condition. Railroad crossings at grade are said never to have interfered with the response of fire apparatus.

**WATER SUPPLY:** Water for domestic and fire protection purposes is furnished to the major portion of the township by the Watchung Division of the Elizabethtown Water Company Consolidated, and to a small portion of the township adjacent to the City of Plainfield by the Plainfield-Union Water Company. For a detailed description of the Elizabethtown Water Company Consolidated see report and map No. 343. For a detailed description of the Plainfield-Union Water Company see report and map No. 124. The Elizabethtown Water Company supplies the township primarily through a 36-inch transmission main from the Raritan-Millstone Pumping Station, with the Piscataway Pumping Station and the Watchung Pumping Station held in reserve. The Plainfield-Union Water Company supplies the township as an extension of the Plainfield distribution system. **Consumption:** The average and maximum daily consumption in the Elizabethtown territory during 1939 was 4.64 and 5.15 m.g.d. On December 31, 1940 there were 678 consumers in Piscataway Township, on the Elizabethtown system, all of which were metered. The average and maximum daily consumption during 1940 in the territory served by the Plainfield-Union Water Company (34,037 services) was 8.00 and 9.50 m.g.d. On December 31, 1940 there were 228 services in Piscataway Township on the Plainfield-Union system all of which were metered. **Distribution System:** In two services; see map and description above. Arterial system is generally good with a few dead end 6-inch lines supplying hydrants. **Pipe:** All pipe is cast iron, tar coated, bell and spigot joint, laid with an average 3½-foot cover. Total length, Elizabethtown system, exclusive of 36-inch transmission main 87,300 feet, 78.4% 6-inch and 21.6% 12-inch. Total length in the Plainfield-Union system 9,300 feet; 9.7% 4-inch, 87.1% 6-inch, and 3.2% 8-inch. **Gate Valves:** There are 100 within the township of various makes in both systems set with iron boxes to grade. All operate in the same direction. **Hydrants:** There are 91 hydrants in the Elizabethtown system of Wood and Eddy makes, of standard type, of which 52 have two 2½- and one 4½-inch outlets and the remainder have two 2½-inch outlets. Hydrant branches are 4- and 6-inch and 68 are gated. Hydrants are inspected annually. Those operated during resurvey were found to be in fair condition. There are 14 hydrants of Wood, Corey, Smith, and Eddy makes in the Plainfield-Union system of standard type of which 8 have two 2½- and one 4½-inch outlets and the remainder have two 2½-inch outlets. Hydrant branches are 4- and 6-inch, all of which are gated. Hydrants are inspected twice a year. Those operated during resurvey were found to be in good condition. **Pressures:** Readings taken at 6 well distributed hydrants in the Elizabethtown system showed pressures ranging from 63 to 72 pounds with an average of 66 pounds. A reading taken at one hydrant in the Plainfield-Union system showed a pressure of 80 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured by means of Pitot tube. Location of hydrant, discharge in gallons per

minute, pressure before flow and pressure during flow were as follows:

Elizabethtown Water Company Consolidated—March 6, 1941:

Stelton Rd. and William St., 920—67—43.

Levgar St. and Center St., 560—72—18.

Walnut St. and W. 7th St., 460—67—13.

Stelton Rd. and Freedom Ave., 500—63—14.

Lakeside Dr. So. and Beverly Rd., 480—63—11.

Kossuth Ave. near Murray Ave., 520—63—21½.

Plainfield-Union Water Company—March 10, 1941:

West 4th St. and Rock Ave., 700—80—21.

**FIRE DEPARTMENT:** The township is divided into three fire districts for fire protection purposes. Each fire district has a board of fire commissioners consisting of five men who are elected for 3-year terms. There is a volunteer fire department in each of these districts which is under the supervision of the board of fire commissioners. A chief, an assistant chief, a captain and two lieutenants are elected annually by the companies in their respective fire districts and are confirmed by their respective boards of fire commissioners. The township made the following appropriation for 1941: Fire District No. 1—\$13,500; Fire District No. 2—\$2,000; Fire District No. 3—\$5,500. Companies generally own houses, apparatus, and equipment. **Fire District No. 1: Company—New Market Volunteer Fire Company No. 1:** Total membership 28 of whom about 10 are available during the day and 22 during the night. Located on Lakeview Avenue near Stelton Road. Building is a 2-story joisted brick structure with a composition roof, concrete apparatus floor, electric lights, steam heat, telephone, siren and hose rack. **Equipment:** A 1928 Pirsch 600-g.p.m. triple combination pumping engine carrying two 80-gallon booster tanks, 200 feet of booster hose, 250 feet of 1½-inch hose, 1,400 feet of 2½-inch hose, 3 short ladders, 2 gas masks and good minor equipment. A 1936 Pirsch-Dodge 500-g.p.m. triple combination pumping engine carrying a 150-gallon booster tank, 200 feet of booster hose, 250 feet of 1½-inch hose, 1,200 feet of 2½-inch hose, 2 short ladders and fair minor equipment. **North Stelton Volunteer Fire Company:** Total membership 30 of whom about 10 are available during the day and 25 during the night. Located on Freedom Avenue east of Stelton Road. Building is 1-story stucco on hollow tile structure with a composition roof, concrete apparatus floor, gas heat, electric lights, telephone and siren. **Equipment:** A 1935 Pirsch-Dodge 350-g.p.m. triple combination pumping engine carrying a 300-gallon booster tank, 1,000 feet of 1½-inch hose, 300 feet of booster hose, 800 feet of 2½-inch hose, 2 short ladders and some minor equipment. A 1925 Locomobile booster car carrying a 300-gallon booster tank, 125 feet of booster hose and little minor equipment. **Hose:** All 2½-inch hose is C.R.L. with National Standard screw couplings. Hose is tested annually from 150 to 250 pounds, and dried on hose rack in the New Market Company and shifted at fires and drills. There is a total supply of 3,700 feet of 2½-inch hose of which 1,100 feet is held in reserve in the New Market Company and 2,000 feet is over five years old. **Operations:** Departments are under the supervision of board of fire commissioners. Chiefs have control of apparatus at all times and of men at fires

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Including Fire District No. 1, New Market, Lake Nelson, and North Stelton; Fire District No. 2, Bound Brook Heights; Fire District No. 3, Arbor.

### *Continued.*

and drills. They may suspend members pending a hearing before board of fire commissioners. There are 10 members of company who are appointed drivers. Motors are started two to three times a week. **Drills and Training:** Drills held monthly under the supervision of chief officers consist of hose laying, pump operation and use of equipment. **Fire Methods:** Booster streams used on incipient fires reinforced by engine and hydrant lines with shut-off nozzles. Gas masks are carried, but no salvage equipment or heavy stream appliances are provided. **Response to Alarms:** The New Market Company responds to all alarms of fire north of the Port Reading Railroad and the North Stelton Company responds to all alarms of fire south of the Port Reading Railroad in fire district No. 1. Outside aid may be secured from the other Fire Districts in Piscataway Township, South Plainfield, Plainfield, Dunellen, and Raritan Township. **Building Inspection:** Company officers make inspections of schools in the district. **Records and Reports:** Records are kept of attendance, location, damage and the amount of equipment used. Annual reports are submitted to the fire commissioners by chief. **Fire Alarms:** Alarms of fire are telephoned to homes of firemen near fire station and are sounded on sirens at fire stations. **Fire District No. 2: Company—River Road Fire Company:** Membership 26 of whom about 10 are available during the day and 16 during the night. Located on Netherwood Avenue east of River Road. Building is a 1-story frame structure with a composition roof, wood apparatus floor, hot water heat, electric lights, hose rack, siren, and telephone. **Equipment:** A 1932 Ford hose car with a 350-g.p.m. front mounted Barton pump carrying a 450-gallon booster tank, 150 feet of booster hose, 400 feet of 2½-inch hose, 300 feet of 1½-inch hose, 2 short ladders and fair minor equipment. A 1937 Pirsch-Stewart 500-g.p.m. triple combination pumping engine carrying a 400-gallon booster tank, 150 feet of booster hose, 150 feet of 1½-inch hose, 500 feet of 2½-inch hose, 1 short ladder and fair minor equipment. **Hose:** All 2½-inch hose is C.R.L. with National Standard screw couplings. It is tested twice a year at 225 pounds pressure, shifted at fires and drills and dried on a hose rack. There is no hose in reserve and about 200 feet is over five years old. **Operations:** Department is under the supervision of the board of fire commissioners. Chief has control of apparatus at all times and of men at fires and drills. He may suspend members pending a hearing before board of fire commissioners. There are six members of company who are appointed drivers. Motors are started twice a week. **Drills and Training:** Drills held monthly under the supervision of chief officers consist of hose laying, pump operation and use of equipment. **Fire Methods:** Booster streams are used on incipient fires reinforced with engine lines where water is available. No gas masks, salvage equipment or heavy stream appliances are provided. **Response to Alarms:** Entire department responds to all alarms in this fire district. Outside aid may be secured from other fire districts in Piscataway Township, Middlesex, Dunellen, Plainfield, South Plainfield, and Raritan Township. **Building Inspection:** Chief makes an annual inspection of all schools in his district. **Records and Reports:** Records are kept of location, attendance, amount of equipment used, and losses. Annual reports are submitted by chief to the fire commissioners. **Fire Alarms:** Alarms of fire are telephoned through the Bound Brook Exchange to the homes of firemen near fire house and are sounded on siren at fire house. **Fire District No. 3: Company—Arbor Hose Company No. 1:** Total membership 35 of whom about 10 are available during

the day and 25 during the night. Located on West 7th Street at Walnut Street. Building is a 1-story cement block and brick structure with a composition roof, concrete apparatus floor, steam heat, electric lights, and siren. **Equipment:** A 1927 Pirsch 500-g.p.m. triple combination pumping engine carrying a 180-gallon booster tank, 300 feet of booster hose, 700 feet of 2½-inch hose, 2 short ladders and fair minor equipment. A 1938 Pirsch Diamond T 500-g.p.m. quadruple combination pumping engine carrying a 250-gallon booster tank, 300 feet of booster hose, 600 feet of 2½-inch hose, 500 feet of 1½-inch hose, 4 ladders ranging from 14 to 40 feet and totaling 110 feet, 2 gas masks and good minor equipment. **Hose:** All 2½-inch hose is C.R.L. with National Standard screw couplings. It is tested monthly at 120 pounds, shifted at fires and drills and dried on apparatus floor. There is a total supply of 1,900 feet of 2½-inch hose of which 500 feet is in reserve, and none is over five years old. **Operations:** Department is under the supervision of the board of fire commissioners. Chief has control of the apparatus at all times and of men at fires and drills. He may suspend members pending a hearing before board of fire commissioners. There are 10 members of company who are appointed drivers. Motors are started daily. **Drills and Training:** Drills held monthly under the supervision of chief officers consist of hose laying, pump operation, ladder raising and use of equipment. **Fire Methods:** Booster streams used on incipient fires reinforced with engine and hydrant lines with shut-off nozzles. Engine usually hooks up. Gas masks are carried, but no salvage equipment or heavy stream appliances are provided. **Response to Alarms:** Entire department responds to all alarms in this fire district. Outside aid may be secured from other Piscataway Township fire districts, Plainfield, Dunellen, Middlesex, South Plainfield, and Raritan Township. **Building Inspection:** The chief makes an inspection of all schools and stores in his district monthly. **Records and Reports:** Records are kept of attendance, equipment used and the location of all fires. Annual reports are submitted to fire commissioners by chief. **Fire Alarms:** Alarms of fire are telephoned through the Plainfield Exchange to homes of firemen located near fire station and are sounded from there on siren at fire station.

**POLICE DEPARTMENT:** Consists of a chief, captain and 3 patrolmen working in 8-hour shifts. One radio car is provided. There are 7 active specials. Patrolmen respond to all alarms of fire and report unauthorized building construction to the building inspector.

**BUILDING LAWS:** Code adopted November 20, 1936 provides for the appointment of a building inspector. It has some regulations in regard to the thickness of walls, construction of chimneys, and installation of fire stops; but in general does not conform to the Code of Suggested Ordinances as recommended by the National Board of Fire Underwriters. Fire limits are not established and flammable roof coverings are not prohibited throughout township.

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

**ZONING ORDINANCE:** Ordinance adopted November 16, 1937 and amended December 7, 1937.