



KEY

PROTECTED FIRE ZONE: Shown in Green.

NOTE.—For description of fire protection, etc., see other side.

Elevations range from 50 to 406 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



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

Princeton Township
Mercer County, New Jersey

FEBRUARY 15, 1949

February 15, 1949.

PRINCETON TOWNSHIP, MERCER COUNTY, NEW JERSEY.

Population — 1940 Census — 3,251.

IN GENERAL: A residential community with numerous country estates surrounding Princeton Borough. Area 16.9 square miles. Elevations range from 50 to 406 feet. Roads are mainly macadam or concrete in good condition. There are no conditions which might adversely affect the response of fire apparatus.

WATER SUPPLY: Water for domestic and fire protection purposes is furnished by the Princeton Water Company from the Princeton Low Service with the exception that a small area in the north-west section of the township is supplied from the Pretty Brook Booster Station. For details of the organization, supply works, and distribution system of the Princeton Water Company see report with map No. 385. **Booster Station:** Pretty Brook Booster Station is located as shown on map in a small area brick structure with concrete floor, slate roof, Thermo electric heat, and electric lights. No hand protection. Exposures are negligible. Wiring is in conduit. Housekeeping is good. Elevation of pump room floor 120 feet. **Equipment:** Two 0.288-m.g.d. De Laval centrifugal pumps each driven by a 20-h.p. G. E. electric motor. Pumps are operated manually as needed, and are alternated in service. **Distribution System:** In 2 services. The greater portion of the township is supplied by numerous long dead end branches or loops of the Princeton Borough distribution system. A small portion of the township to the northwest at higher elevation is supplied by the high service from the Pretty Brook Booster Station through an 8-inch main with a standpipe acting as equalizer. **Standpipe:** Located as shown on map. It is steel, 16 feet in diameter by 40 feet high with a capacity of 60,000 gallons. Elevation of base 397 feet. Elevation of overflow 437 feet. **Consumption:** The average and maximum daily consumption for the 12-month period ending January 31, 1947 in the entire territory served (2,667 live services) were 1.375 and 2.0 million gallons. It is estimated that about 20% of the consumers are located in the township. All services are metered. **Pipe:** All pipe is cast iron, tar coated, bell and spigot joint, laid with about a 3½-foot cover. Total length in the township, exclusive of 10-inch and 14-inch transmission mains, 121,200 feet; 9.2% 8-inch, 81.2% 6-inch, and 9.6% 4-inch. No trouble was reported from freezing or electrolysis. **Gate Valves:** There are 140 in the township of Eddy or Rensselaer makes, set with iron boxes at grade. Direction of operation is generally uniform, but valves are not inspected at regular intervals. **Hydrants:** There are 109 in the township of Corey and Mueller makes of standard type with 4-inch or 6-inch gated branches and two 2½-inch and one 4½-inch outlets. Hose outlets have National Standard threads, but larger outlets are 4⅓₁₆ inches outside diameter with 6 threads per

inch. Hydrants are inspected semi-annually and at time of resurvey those operated were found to be in good condition. **Pressures:** Readings taken at 7 well distributed locations on both the low and high services showed pressures ranging from 39 to 110 pounds with an average of 65 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on October 29, 1948 by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow, and pressure during flow were as follows:

Low Service—

Battle Rd. N. E. of Battle Rd. Circle, 480—61—10.
Rosedale Rd. 750 ft. W. of Princeton Borough Line, 240—48—23.
Mansgrove Rd. W. of Route No. 31, 340—44—*.
Red Hill Rd. and Mount Lucas Rd., 250—39—2.
Hartley Ave. and Harrison St., 1,180—89—62.
River Rd. N. of Herronton Rd., 240—110—*.

High Service—

Drakes Corner Rd. W. of Great Rd., 560—45—12.**

*No reading taken.

**Standpipe approximately full and booster pump operating.

FIRE DEPARTMENT: There is no organized fire department within the township, but the fire departments of Princeton Borough and Kingston respond to township fires. The township makes an annual appropriation for Princeton Borough and for Kingston for fire services. Refer to reports with maps Nos. 385 and 422 for details of these departments. **Fire Alarms:** Alarms of fire are telephoned to the Princeton Borough Police Headquarters where they are sounded on the borough fire alarm system by means of break wheel transmitter.

POLICE DEPARTMENT: Consists of a chief and 4 patrolmen who are on duty on alternate shifts. Department is provided with two radio equipped patrol cars communicating with the Princeton Borough police radio transmitter.

BUILDING LAWS: No municipal regulations.

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

ZONING ORDINANCE: Adopted January 8, 1938 and subsequently amended.