



# KEY

PROTECTED FIRE ZONE: Shown in Green.

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

Elevations range from 38 to 320 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

⊙ Booster tank or tanks on above

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

**Prospect Park Borough**  
**Passaic County, New Jersey**

MAY 31, 1947

## PROSPECT PARK BOROUGH, PASSAIC COUNTY, NEW JERSEY.

Population — 1940 Census — 5,714.

**IN GENERAL:** Located adjacent to the northeasterly limits of Paterson. It is a residential and industrial community with residents mainly employed locally or in Paterson. Four industrial plants employing a total of about 225 include a body works, a bottling plant, and 3 textile industries. Elevations range from 38 to 320 feet. Area about 0.4 square miles. Streets are mainly improved and in good condition except for numerous surface drains at street intersections. No grade crossings, but grades are moderate to severe and could retard the response of fire apparatus.

**WATER SUPPLY:** Water for domestic and fire protection purposes is supplied by the Passaic Valley Water Commission as an extension of the Paterson distribution system with a booster station and elevated tank serving the major portion of the borough which is above elevation 160. The Passaic Valley Water Commission owns and operates the supply works, distribution system, and appurtenances supplying Prospect Park, Paterson, Passaic, and part of Clifton, and supplies water to a number of other separately owned distribution systems. It is well organized with a competent staff in Paterson. Records are good. An emergency truck and crew respond on call. For a detailed report on the Passaic Valley Water Commission see reports with maps Nos. 13 and 19 of Totowa and Clifton respectively. **Booster Station:** Located in basement of frame fire station at Brown Avenue and North Tenth Street. Elevation of pump about 170 feet. Equipment includes one Turbine Equipment Company centrifugal pump rated at 475 g.p.m. at 190 feet head, capable of delivering 565 g.p.m. under existing operating conditions, driven by a 30-h.p. C. E. motor. Unit takes suction under about 30 pounds head from a low service 8-inch main in North Tenth Street which is supplied by a 12-inch main in Fairview Avenue and connects with a 30-inch low service main in the City of Paterson. Booster pump operates automatically and discharges to high service at about 105 pounds with an elevated tank acting as an equalizer and providing storage. Station is visited daily by a water commission foreman who inspects pump. Average daily pumpage by this unit is about 167,000 gallons. **Elevated Tank:** Located at end of Prescott Avenue north of North 17th Street as shown on map. It is a steel tank on a steel tower with a capacity of 250,000 gallons at overflow elevation 412 feet. **Consumption:** The average and maximum daily consumption in the entire territory served by the Passaic Valley Water Commission system during 1946 was 61.50 and 78.03 million gallons. On December 31, 1946 there were a total of 22,887 services on the system supplying Paterson and Prospect Park. It is estimated that there are 1,500 services in Prospect Park with an average daily demand of 300,000 gallons. **Distribution System:** In two services; see map. The booster station supplies a major portion of the borough with the exception of the southern portion consisting of an area about 3 blocks in depth adjoining the limits of the City of Paterson. This latter section is supplied directly from low service as an extension of the system in that section. **Pipe:** All pipe is cast iron, tar coated, bell and spigot joint, laid with about 5-foot cover. No trouble reported from frozen mains or electrolysis. Total length of pipe, 33,200 feet; 1.8% 4-inch, 87.3% 6-inch, 6.7% 8-inch, and 4.2% 12-inch. **Gate Valves:** There are 82 on the system of various makes set with iron boxes at grade. Direction of operation is uniform. Fire department is notified when valves affecting supply to hydrants are operated. **Hydrants:** There are 55 on the system in Prospect Park, 38 of which are Pratt and Cady make and the balance are Corey and Iowa makes. All hydrants are of standard type, about 90% of which have one 4½-inch and two 2½-inch outlets and the balance have one 4½-inch and one 2½-inch outlet. Hose outlet threads are 3-inch outside diameter with 8 threads per inch. Large outlets are 4½-inch outside diameter with 6 threads per inch. Practically all hydrants have 4-inch gated branches. Hydrants are inspected at least annually and were found to be in good condition at time of inspection. **Pressures:** Recording pressure charts on the domestic distribution system indicate that the pumping station at elevation 144 discharge pressures range from 80 to 99 pounds with an average of 90 pounds during the day and 85 at night. Readings taken at 10 well distributed hydrants showed pressures on the low service to range from 37 to 45 pounds and on the high service from 51 to 110 pounds. Average for the entire borough is 71.8 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on April 17, 1947 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—**

- N. 8th St. and Brown Ave., 960—45—29.
- N. 9th St. and Fairview Ave., 2,250—37—25. \*\*

**High Service—**

- N. 8th St. and Struyk Ave., 620—110—36. \*\*\*
- Savoy Pl. and Struyk Ave., 690—59—8.
- N. 10th St. and Haledon Ave., 620—80—35.
- N. 17th St. and Brown Ave., 500—88—11.

**Pressure Tests in Addition to Above—**

- N. 9th St. and Struyk Ave., \*—99—\*.
- Struyk Ave. and N. 13th St., \*—64—\*.

N. 11th St. and Haledon Ave., \*—85—\*.

N. 17th St. and Cyril Ave., \*—51—\*.

\* No reading taken.

\*\* Test conducted by National Board of Fire Underwriters April 26, 1945.

\*\*\* Quantity available under this test is a supplementary supply to low service in principal mercantile district.

**FIRE DEPARTMENT:** A volunteer organization of two companies under the control of the borough which owns the borough hall and all the apparatus and equipment; the other fire station is owned by the fire company. The appropriation for 1946 was \$2,500. Total active membership is 60, of whom about 30 are available at all times. Officers include a chief, 2 assistant chiefs, 2 captains, and 2 assistant captains who are elected annually by the companies, subject to the approval of the mayor and council. **Companies—Hose Company No. 1:** Membership 32. Located in municipal building on Brown Avenue and North 10th Street as shown on map. Building is 2-story frame with slate roof, concrete floor, telephone, siren, fire alarm panel, punch register, drying tower, electric lights, and steam heat. **Equipment:** A 1942 Mack 750-g.p.m. triple combination pumping engine carrying a 100-gallon booster tank, 125 feet of booster hose, 300 feet of 1½-inch hose, 1,000 feet of 2½-inch hose, one 45-foot and two short ladders, 1 cellar pipe, one 1,250-watt electric generator with flood lights, 1 gas mask, 1 salvage cover, and fair minor equipment. **Fire Company No. 2:** Membership 28. Located on Fairview Avenue between North 11th and North 12th Streets as shown on map. Building is 1-story cement block with composition roof, concrete apparatus floor, electric lights, and steam heat. There is a meeting room on one side of apparatus floor and a bowling alley on the other side. **Equipment:** One 1940 Mack 750-g.p.m. triple combination pumping engine carrying a 150-gallon booster tank, 150 feet of booster hose, 1,000 feet of 2½-inch hose, 2 short ladders, 1 gas mask, 1 salvage cover, and fair minor equipment. **Hose:** All 2½-inch hose is C.R.L. with New York type screw couplings. Hose is shifted semi-annually and tested at 200 pounds pressure and dried in tower. Of the total of 2,800 feet, 800 feet is over 5 years old and 800 feet is kept in reserve. **Operations:** Department is governed by borough ordinance and company by-laws. Chief officer has charge of apparatus at all times and of men at fires and drills. He can not suspend men, but may prefer charges to council. Motors are started twice a week. Six men are appointed drivers for each company. **Drills and Training:** Drills, under the supervision of the chief officers, are held during the summer months and average about 12 drills per year. Drills consist of hose laying, pump operation, some ladder work, and use of minor equipment. **Fire Methods:** Booster lines are used on incipient fires reinforced by hydrant or engine lines with shut-off nozzles. There are two gas masks, two salvage covers, one electric generator, and one Baker cellar nozzle installed. **Response to Alarms:** Both pieces of apparatus respond to all alarms within the borough and outside aid is secured from Paterson and Haledon. **Building Inspections:** Chief officer inspects public buildings and industrial plants at least annually. **Records and Reports:** A fairly complete individual fire report is made, but no log book is maintained. Monthly and annual reports are submitted to the mayor and council. **Fire Alarms:** The system is maintained as part of the fire department under the supervision of the chief engineer. It consists of one closed circuit of No. 8 B. & S. weather-proofed, triple braided copper wire carried on utility company poles below high tension wires, but above telephone wires. Equipment at each fire house consists of a punch register and gong. At the borough hall there is a siren and control panel. Wiring is well installed in conduit and equipment is protected by the usual lightning arresters and fuses. There are 22 interfering and 1 non-interfering street boxes of Harrington-Seaberg make. They are mounted on poles and timber pedestals with red bands; shells are not grounded and leads are in conduit which is not insulated from the boxes. Current is supplied by the Public Service Electric & Gas Company and is stepped down from 220 to 55 volts through an A.C. transformer in control cabinet at borough hall. Tests consist of daily calls from random locations. Records of tests are incomplete.

**POLICE DEPARTMENT:** Consists of a chief, 1 sergeant, and 1 patrolman working full time and 10 part-time patrolmen on call. One radio car is provided. The department responds to all alarms of fire.

**BUILDING LAWS:** Code adopted in 1915, contains desirable features. Garages must be lined with an approved wall board and those for three cars must be constructed of incombustible materials. Building inspector is appointed for a two-year term by mayor and council. Present incumbent is a carpenter who devotes part of his time to building inspection work. No fire limits established.

**FIRE PREVENTION LAWS:** An ordinance adopted in 1922 prescribes precautions in blasting, but does not require permits. 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.

**ZONING ORDINANCE:** Adopted September 11, 1930.