

Superseding Map No. 51 of March 15, 1941. Please destroy old issue.



**KEY**

PROTECTED FIRE ZONE: Shown in Green.

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

Elevations range from 220 to 600 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

(B) Booster tank or tanks on above

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

**High Bridge Borough**  
**Hunterdon County, New Jersey**

MARCH 31, 1950

**HIGH BRIDGE BOROUGH, HUNTERDON COUNTY, NEW JERSEY.****Population—1940 Census—1,781.**

**IN GENERAL:** Located on the South Branch of the Raritan River at the junction of the main line and the High Bridge Branch of the Central Railroad of New Jersey. It is a manufacturing community with 1 large steel plant and 2 smaller plants employing about 840 persons. Area about 2.7 square miles. Elevations range from 220 to 600 feet. Main roads concrete, others gravel and macadam in fair to poor condition. Railroad crossings, narrow streets, and steep grades in some sections of the borough are said never to have interfered with the response of fire apparatus.

**WATER SUPPLY:** Water for domestic and fire protection purposes is furnished by the borough which owns supply works and distribution system and supplies water to the Borough of High Bridge only. **Organization:** System is under the supervision of a water superintendent who is appointed annually by the mayor and council. He is an employee of the steel plant. Employees of the street department are used in maintaining the system. There are no records of operation or of the distribution system. No employee responds to alarms of fire. **Supply Works:** Originally built in 1900. Supply is obtained from 4 deep wells, three 6 and one 8 inches in diameter, 150, 200, 230, and 330 feet deep with an aggregate yield of 0.504 m.g.d. and from a brook with an available flow of 0.252 m.g.d. Wells and brook discharge directly into a concrete intake basin whence water flows by gravity through a 12-inch transmission main to a reservoir located on the outskirts of the borough. Supply works are located at Bunnvale, in Lebanon Township, about 2 miles north of the borough. **Well Stations—Station No. 1:** Building is a small area concrete block and brick structure with concrete floor and roof, electric lights, and wiring in conduit. No heat, hand protection, nor exposures. **Equipment:** A 0.072-m.g.d. Byron-Jackson deep well turbine pump driven by a 6-h.p. Byron-Jackson electric motor. **Station No. 2:** Building is a small area one-story frame structure with tar paper roof, electric lights, and wiring in conduit. No heat, hand protection nor exposures. **Equipment:** A 0.108-m.g.d. Byron-Jackson deep well turbine pump driven by a 6-h.p. Byron-Jackson electric motor. **Station No. 3:** A submersible pump. **Equipment:** A 0.144-m.g.d. Byron-Jackson deep well turbine pump driven by a 6-h.p. Byron-Jackson electric motor. **Station No. 4:** Building is a small area concrete block structure with composition roof, concrete floor, electric lights, and wiring in conduit. No heat, hand protection, nor exposures. **Equipment:** A 0.187-m.g.d. Fairbanks-Morse deep well turbine pump driven by a 10-h.p. Fairbanks-Morse electric motor. Pumps operate automatically on variation of water level in intake basin. **Distribution System:** In one service; see map. Supply from reservoir is through parallel 6- and 8-inch mains extending south on Mill Street to the central mercantile district. Arterial system is generally poor and there are numerous long unsupported dead-end 4- and 6-inch lines supplying hydrants. **Reservoir:** Located on Fairview Avenue as shown on map, it is rip-rap with gunite lining. Elevation of overflow 614 feet. Capacity 865,000 gallons. **Consumption:** The average and maximum daily consumption during 1948 were 0.13 and 0.335 m.g. respectively. There are 452 live services, only 3 of which are metered. **Pipe:** With the exception of a small percentage of asbestos cement pipe, all pipe is cast iron, tar coated, bell and spigot joint, laid with a minimum 3-foot cover. Total length, 41,800 feet; 9.1% 8-inch, 31.4% 6-inch, and 59.5% 4-inch. No recent trouble has been reported from freezing or electrolysis. **Gate Valves:** There are 31 on the system of Rensselaer make set in iron boxes at grade. All turn left to open, but there is no routine inspection program. **Hydrants:** There are 66 in the borough of Corey and Eddy makes of standard type with two 2½-inch outlets. One recently installed hydrant has, in addition, one 4½-inch outlet. Outlets have National Standard threads. Hydrant branches are 4- or 6-inch, but only a few are gated. Hydrants are inspected monthly during the summer, and those operated during resurvey were found to be in fair to good condition. **Pressures:** Readings taken at 10 well distributed locations showed pressures ranging from 31 to 160 pounds with an average of 105 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on dates shown by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow, and pressure during flow were as follows:

April 3, 1946—

Main Street, opposite Bridge Street, 790—120—16.

July 22, 1949—

Cregar Road 500 feet west of Fairview Avenue, 120—31—\*.

Seal Street and Mine Road, 270—77—4.

Mine Road 575 feet northeast of Seal Street, 140—77—\*.

Main and MacDonald Streets, 1,120—119—18.

West Main and Beaver Streets, 330—156—8.

West Main Street 2,150 feet southwest of Beaver Street, 220—160—\*.

East Main Street and Washington Avenue, 680—143—30.

East Main Street 300 feet west of Highland Avenue, 180—98—\*.

Highland Avenue 300 feet west of Nassau Road, 180—98—\*.

Dewey Avenue 1,400 feet south of Washington Avenue, 200—87—\*.

\*No reading taken.

**FIRE DEPARTMENT:** A volunteer organization of two companies under control of the borough which annually appropriates about \$1,800 for the support of the department. Borough owns houses, apparatus, and equipment. Total membership 50, of whom about 40 are available at all times. There are a chief, first and second assistant chiefs, and 6 foremen. Chief is elected for a 2-year term by companies and appoints assistant chiefs, all of whom are confirmed by the borough council. Foremen and assistant foremen are elected annually by each of the two companies. **Companies—Liberty Hose Company:** Membership 25. Located on Main Street near Van Sickle Street. Building is a 3-story frame structure with a composition roof, concrete apparatus floor, steam heat, and electric lights. **Equipment:** A 1947 American La France 500-g.p.m. triple combination pumping engine carrying a 200-gallon booster tank, 150 feet of booster hose, 750 feet of 2½-inch hose, 800 feet of 1½-inch hose, 3 lengths of suction hose, one all-purpose gas mask, 2 short ladders, and fair minor equipment. **L. H. Taylor Hose Company:** Membership 25. Located at Washington and Tisco Avenues in a 2-story concrete block building with composition covered wood roof, concrete apparatus floor, hot water heat, electric lights, and telephone. **Equipment:** A 1947 American La France 500-g.p.m. triple combination pumping engine carrying a 200-gallon booster tank, 150 feet of booster hose, 750 feet of 2½-inch hose, 800 feet of 1½-inch hose, 3 lengths of suction hose, one all-purpose gas mask, 2 short ladders, and fair minor equipment. A 1948 Oren-Chevrolet emergency car carrying 300 feet of 1½-inch hose, a 1,250-watt portable electric generator, 2 floodlights, a Hale type FZZ portable pump, one salvage cover, one 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 140 pounds, dried on apparatus floor, and shifted every other month. There is a total supply of 1,500 feet of 2½-inch hose, of which 600 feet is over five years old. No hose is held in reserve. **Operations:** Department is governed by company by-laws and borough ordinances. Chief has control of apparatus at all times and of men at fires and drills. He has no power to suspend members. Charges are preferred to the company. Motors are started twice a week. Five members in each company drive apparatus. **Drills and Training:** Drills, held quarterly under the supervision of the chief officers, consist of hose laying, pump operation, and use of equipment. **Fire Methods:** Booster streams are used on incipient fires reinforced by hydrant lines with shut-off nozzles. Gas masks and one salvage cover are carried, but no heavy stream appliances are provided. **Response to Alarms:** Entire department responds to all alarms in the borough. Outside aid may be secured from Clinton, and Washington. **Building Inspection:** No inspections are being made at the present time. **Records and Reports:** Secretaries keep records, consisting of attendance and location, in the minutes of the meetings of the individual fire companies. Chief makes a monthly report to the mayor and council. **Fire Alarms:** Fire alarm system consists of 26 street boxes of the messenger call type mounted on utility company poles in boxes under glass guards. All are connected to one overhead closed circuit of No. 14 copper wire mounted below power wire on utility company poles. Relays in circuit in power house of steel plant and borough hall give signals of open circuits. One electro mechanical gong at boiler house of steel company. Current is supplied from the 110-volt lighting circuit. When alarm is received at boiler house of steel plant, coded signal is sounded on steam whistle. System maintained by electrician of steel plant who inspects circuit and pulls one box weekly. Alarms may be telephoned to steel plant where there is always someone on duty and are sounded from there on steam whistle.

**POLICE DEPARTMENT:** Consists of one uniformed officer on duty during the day and 12 specials. No cars are provided.

**BUILDING LAWS:** No municipal regulations. Before any alterations or new building operations may be commenced it is necessary to file application with and secure a permit from the borough council. State laws provide some good regulations for construction of factories, tenement houses, and public schools, and fire protection and safety features for hotels.

**FIRE PREVENTION LAWS:** No municipal regulations. State laws adequately cover the manufacture, storage, and handling of explosives, and provide for regulations governing the intrastate transportation of explosives and flammable liquids. They also restrict the discharge of fireworks to responsible bonded parties and embody good requirements for motion picture booths and the hazard incident to the display of motion pictures except that flammable film and portable booths are permitted for temporary exhibitions and enclosures for projection equipment are not required in schools. The State Tenement House Act restricts keeping and handling of certain combustible materials in tenements.

**ZONING ORDINANCE:** None.