



Schedule Rating Office of New Jersey.
ENGINEERING DEPARTMENT
NEWARK, N. J.

Point Pleasant Beach Borough Ocean County, New Jersey

NOVEMBER 30, 1943

KEY

PROTECTED FIRE ZONE: Shown in Green.
NOTE.—For description of fire protection, etc., see other side.
Elevations range from 0 to 15 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:
Automobile combination pumper and hose car
Hose car
Ladder truck
Booster tank or tanks on above



POINT PLEASANT BEACH BOROUGH, OCEAN COUNTY, NEW JERSEY.

Population — Census of 1940 was 2,059. Estimated Summer Population — 5,000.

IN GENERAL: Located on the Atlantic Ocean, the Manasquan River, and the New York & Long Branch Railroad east of Point Pleasant Borough. Mainly a summer resort with 6 small industries employing about 100. Elevations range from 0 to 15 feet. Main roads concrete, others gravel in fair condition. Railroad crossings at grade are said not 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 the supply works and distribution system, supplying territory within the borough limits. **Organization:** Consists of a superintendent and one assistant under Civil Service, who operate pumping station. No shop or storage yard provided and no response to fires. Repairs, taps, and extensions are made by local plumber under contract. Records consist of scattered details and an antiquated map which is very incomplete. **Supply Works:** Original well system was built in 1911, overhauled in 1926, and expanded in 1943. Water is obtained by air lift from 7 deep wells 6 to 10 inches in diameter, averaging 152 feet in depth and one deep well 12 inches in diameter, 150 feet deep with an estimated yield of 2,700 g.p.m. Wells at pumping station and well at Station No. 8 discharge into underground concrete basins whence water is pumped by high lift pumps, with individual suction and gate valves on the discharge side, into distribution system with the standpipe and elevated tank acting as equalizers. There are two 6-inch closed metered connections to the Point Pleasant Borough system. During the summer the stations are operated continuously. **Pumping Stations:** Main pumping station located on the east side of Cincinnati Avenue between New Jersey and New York Avenues as shown on map. Building is a 1-story stuccoed tile structure 50' x 60', with tile and concrete floor, tile covered roof supported by wood rafters on steel trusses, electric lights, oil fired steam heating boiler, Venturi meter, and one carbon tetrachloride 1-quart extinguisher. Wiring is standard in conduit. Exposures negligible. Housekeeping good. Elevation of pump room floor 4 feet. **Equipment:** One 280-h.p. Bessemer Diesel engine directly connected to a 250-h.p. Crocker-Wheeler generator which supplies current to operate pumps and compressors. There is a standby connection from the Jersey Central Power & Light Company. One 75-h.p. Crocker-Wheeler and one 75-h.p. G. E. motor driving three 100-cubic foot per minute Ingersoll-Rand air compressors. Four 50-h.p. Crocker-Wheeler electric motors driving four 1,000-g.p.m. Dayton-Dowd centrifugal pumps. The air compressors discharge into a 4½' x 10' steel compression tank whence the air is piped, with control valves at pumping station, to each well. The pumps take suction from an open basin, in pumping station, constructed of concrete, 5' x 10' x 10', capacity 3,000 gallons, supplied by gravity from underground receiving basin. There are two 10,000-gallon aboveground tanks outside. **Well Station No. 8:** Located on the south side of Atlantic Avenue between St. Louis and Cincinnati Avenues as shown on map. Building is a 1-story small area concrete structure with concrete floor, concrete roof with wood scuttle, electric lights, and electric heat. No hand protection. Exposures negligible. Wiring in conduit. Housekeeping good. Elevation of pump room floor 9.92. **Equipment:** One Fairbanks-Morse deep well turbine rated at 600 g.p.m. driven by a 30-h.p. Fairbanks-Morse electric motor. One Fairbanks-Morse centrifugal pump rated at 600 g.p.m. driven by a 30-h.p. Fairbanks-Morse electric motor. Pumps are operated manually. Equipment for automatic operation is on order. **Distribution System:** In one service consisting of 8- and 6-inch feeders with long 4-, 6-, and 8-inch dead end mains. Arteries and gridiron poor; see map. **Elevated Tank:** Located as shown on map. It is steel, 20' x 40' with a hemispherical bottom mounted on a 100-foot steel tower; capacity 250,000 gallons. Elevation of base 12 feet. Elevation of overflow 124.5 feet. **Standpipe:** Located as shown on map. It is steel, 17 x 125 feet, capacity 212,000 gallons. Elevation of base 13.43. Elevation of overflow 137.6. **Suction Basin:** **Main Pumping Station:** Constructed of concrete 7' x 10' x 10', capacity 3,000 gallons, connected with underground concrete basin 48' x 48' x 6½', capacity 100,000 gallons. Reservoir, located 10 feet south of rear of Well Station No. 8, is concrete, 7' x 10', capacity 4,500 gallons. **Consumption:** The average and maximum daily consumption in 1942 was 0.515 and 2.250 million gallons respectively. **Pipe:** Cast iron, tar coated, bell and spigot joint, laid with a 3-foot cover. No reported trouble from frozen mains or electrolysis. Total length 83,500 feet; 0.6% 14-inch, 2.7% 12-inch, 2.4% 10-inch, 4.4% 8-inch, 67.5% 6-inch, and 22.4% 4-inch. **Gate Valves:** There are 105 of Wood make. All open to left. Set with iron boxes to grade, some partly buried. No regular inspection. Fire department notified when valves affecting hydrant supply are operated. **Hydrants:** There are 117 hydrants on the system of Wood make of standard type; majority have 4-inch ungated branches with two 2½- and one 4½-inch outlets with National Standard threads. Hydrants said to be inspected semi-annually. No records available. Hydrants were in good condition at time of inspection. **Pressures:** Recording gauge at pump house showed a pressure of 54 pounds when tank was full. Readings taken at 9 hydrants widely distributed showed pressures ranging from 49 to 51 pounds with an average of 50 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on May 27th, 1937 and corrected to November 15th, 1938 by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow, and pressure during flow were as follows:

May 27, 1937—
Ocean Ave. near Sea Ave., 290—51—4.
Atlantic and Ocean Aves., 650—50—38.
Parkway and Ocean Aves., 550—50—26.
Broadway and Channel Drive, 410—51—8.
Baltimore Ave. and Homestead St., 580—51—17.
Lincoln Ave. near Walnut Ave., 290—50—7.
River Ave. near Cedar Ave., 270—50—35.
Atlantic and Bay Aves., 630—49—38.

August 9, 1938—
Arnold Ave. at R. R. S/E cor., 2,204—50—40.
Arnold and Cincinnati Aves. S/W cor., 1,120—50—47.
Laurel Ave. between Bay and Richmond Aves., 1,540—50—30.
Bay and Laurel Aves. S/E cor., 1,320—50—30.

November 15, 1938—

Arnold and Richmond Aves., 1,064—51—26.

FIRE DEPARTMENT: A volunteer organization of 2 companies under control of the borough which owns 2 Hale engines and hook and ladder truck, and appropriated \$4,000 for the support of the department in 1943. Companies own houses and the remainder of the equipment. Total active membership about 50 including a chief and 2 deputy chiefs, of whom about 20 are available at all times. A separate junior division of about 20 members has been organized. Chief and deputy chief are elected by companies for 3-year term without confirmation from the borough council. **Companies—Ocean Fire Company No. 1:** Located on River Avenue near Arnold Avenue. A 2-story hollow tile and cement block structure with metal on wood roof, concrete apparatus floor, hot water heat, electric lights, telephone, and small siren mounted on the front of the building. **Equipment:** A 1925 Hale 400-g.p.m. triple combination pumping engine carrying a 100-gallon booster tank, 250 feet of booster hose, 1,200 feet of 2½-inch hose, 2 short ladders, 2 foam extinguishers, and fair minor equipment. A 1938 Ward La France 750-g.p.m. triple combination pumping engine carrying a 200-gallon booster tank, 300 feet of booster hose, 1,100 feet of 2½-inch hose, 200 feet of 1½-inch hose, a deluge set, 2 extinguishers, 2 Acme all-service masks, and good minor equipment. **Point Pleasant Beach Fire Company No. 2:** Located at Bay and Laurel Avenues. Building is a 2-story tile structure with a composition covered wood roof, concrete apparatus floor, hot water heat, electric lights, telephone, and a small siren in front of the building. **Equipment:** A 1925 Hale 400-g.p.m. triple combination pumping engine carrying a 100-gallon booster tank, 150 feet of booster hose, 1,000 feet of 2½-inch hose, 2 short ladders, and fair minor equipment. A 1934 Ford hose car carrying a 150-gallon booster tank, 150 feet of booster hose, 600 feet of 2½-inch hose, 1 short ladder, and meager minor equipment. A 1935 Ward La France city service ladder truck carrying a 100-gallon booster tank, 200 feet of booster hose, 9 ladders ranging from 12 to 50 feet, totaling 288 feet, 2 Acme all-service masks, a deluge set, and good minor equipment. This truck also carries a portable flood lighting unit. **Hose:** All 2½-inch hose is C.R.L. with National Standard screw couplings. No rack is provided for drying. It is shifted only after fires. Twenty percent of hose is over 5 years old and 80% is new. It is tested at drills at 120 pounds. There is 1,000 feet of 2½-inch hose in reserve. **Operations:** There is no municipal ordinance governing the operations of the fire department. Companies are governed by own by-laws. Chief has control of men at fires and drills and apparatus at all times. He has power to suspend members and can prefer charges to individual companies. Motors are said to be started daily. There are 9 drivers appointed in each company. **Drills and Training:** Drills, under the supervision of a deputy chief, are held bi-monthly. They consist of laying hose, ladder raising, and use of equipment. **Fire Methods:** Booster streams used on incipient fires reinforced by hydrant and engine streams with shut-off nozzles. All-service masks, salvage covers, and 2 deluge sets are provided. **Response to Alarms:** Entire department responds to box and telephone alarms within borough limits. Outside aid may be secured from Lakewood, Manasquan, and the Borough of Point Pleasant, 1 to 10 miles distant. **Building Inspection:** Fire chief inspects all mercantile buildings annually. Inspection records are incomplete. **Records and Reports:** Records are kept of losses and attendance at fires. Chief makes a monthly report to companies and an annual report to borough council. **Fire Alarm System:** The fire alarm system is part of the fire department and is maintained by a local electrician. Headquarters is located in the southeast corner of the main pumping station and is exposed by generating equipment at the station. Apparatus is of a local make consisting of a 2-circuit slate operating board. Circuits are protected on this board by 3-ampere fuses, and rectifiers by ½-ampere fuses and by vacuum lightning arresters at the entrance of circuits to fire houses. Current for operation is supplied by one bank of 24 battery cells mounted on stand-rack alongside the operating board, with one Oxide film rectifier serviced from the Jersey Central Power & Light Company 110-volt lighting circuit. Each fire station has a tape register and there is a Diaphone horn located at main pumping station. There are 12 Gamewell non-interfering fire alarm boxes mounted on utility company poles at or near street intersections. There are no indicating lights or conspicuous signs on poles. All outer box cases are grounded. There is a single circuit divided into two loops carrying all box and alarm instruments. There is about 5 miles of No. 10 hard drawn, triple braided, weatherproof wire mounted below power lines on utility company poles. Circuits are tested daily at noon by time signal. No records are available of tests. Alarms may be telephoned to fire houses and are sounded by means of a breakwheel transmitter located at Ocean Fire Company No. 1. Fire house telephones carry a relay which operates signals in fire stations.

POLICE DEPARTMENT: Consists of a chief, 1 captain and 14 patrolmen on duty in 8-hour shifts with one man on duty at all times. Two municipal automobiles equipped with one-way radios connected to Monmouth County Police Radio Station. Patrolmen respond to all alarms of fire.

BUILDING LAWS: Code adopted August 11th, 1939 provides for the appointment of a building inspector and requires that permits be filed before building operations may begin. On March 18th, 1943 an ordinance was adopted establishing fire limits, prohibiting wood shingle roofs within the fire limits, and in general following the Code of Suggested Ordinances as recommended by the National Board of Fire Underwriters.

EXPLOSIVES AND FLAMMABLES: A fire prevention ordinance closely following that recommended in the Code of Suggested Ordinances as recommended by the National Board of Fire Underwriters, was adopted March 18th, 1943. 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 March 28th, 1940.