



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

Island Heights Borough Ocean County, New Jersey

MAY 31, 1950

KEY

PROTECTED FIRE ZONE: Shown in Green.
NOTE.—For description of fire protection, etc., see other side.
Elevations range from 0 to 50 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
○ Ladders on above
⊙ Booster tank or tanks on above

BOROUGH OF ISLAND HEIGHTS, OCEAN COUNTY, NEW JERSEY.

Population—Census of 1930 was 453. Estimated Summer—2,000.

IN GENERAL: Located on the north bank of the Toms River and the Pennsylvania Railroad, three miles east of Toms River center. A summer resort with no manufacturing. Area 0.55 square miles. Elevations range from 0 to 50 feet. Main roads concrete, others gravel and macadam in fair to good condition. No condition which might affect the response of the fire apparatus.

WATER SUPPLY: Water for domestic and fire protection purposes is furnished by the borough which owns supply works and distribution system. Department is under control of Council Committee and under supervision of a superintendent. Present incumbent has held position since 1912. Superintendent also maintains and operates sewer system. He responds to pumping station on receipt of alarms of fire. A borough truck is available. There are no records of distribution system. **Supply Works:** System originally installed in 1902 and purchased by borough in 1915. Water is obtained from two 5-inch wells 368 feet deep by direct suction and pumped into distribution system with tank and standpipe acting as equalizers. No record of well yield. **Pumping Station:** Located on Summit Avenue, north of Laurel Avenue, as shown on map. Building is a one-story brick structure with a composition roof, concrete floor, oil stove for heat, electric lights; no hand protection, exposures negligible, wiring in conduit, housekeeping fair. Elevation of pump room floor about 5 feet. **Equipment:** One 300-g.p.m. Kingsford centrifugal pump driven by a 25-h.p. Lincoln electric motor. One 300-g.p.m. Pratt Iron Works triplex pump $8\frac{1}{2} \times 10$ driven by a 21-h.p. Otto gasoline engine. There is 1,200 gallons of gasoline located in two outside buried tanks. **Distribution System:** In one service; see map. Supply to district through a 10- and 6-inch feeder. There are numerous long 4- and 6-inch dead ends. System in general is very poorly gridironed. **Elevated Tank:** Located on Vansant and Laurel Avenues as shown on map; steel, on an 80-foot steel tower; elevation of base 31 feet, elevation of overflow 136 feet, 25×25 , capacity 116,500 gallons. **Standpipe:** Located on Vansant and Laurel Avenues; steel, 20×120 , capacity 280,000 gallons; elevation of base about 31 feet. **Consumption:** The average and maximum daily consumption during 1938 was 0.13 and 0.24 m.g.d. There are about 380 unmetered services. **Pipe:** Cast iron, tar coated, bell and spigot joint, laid with about a $3\frac{1}{2}$ -foot cover. Total length, 32,300 feet; 1.2% 12-inch, 3.7% 10-inch, 5.0% 8-inch, 40.6% 6-inch and 49.5% 4-inch. Some trouble from frozen mains, none from electrolysis. **Gate Valves:** 51 of Wood manufacture, set with iron boxes to grade. All open to left. No regular valve inspection. Fire department notified when valves affecting hydrant supply are operated. **Hydrants:** 53 hydrants of Wood manufacture; 12 have two $2\frac{1}{2}$ -inch outlets, one $4\frac{1}{2}$ -inch outlet, 6-inch barrels and 6-inch gated branches. The remainder have two $2\frac{1}{2}$ -inch outlets, 4-inch barrels and 4-inch ungated branches. Hydrants are inspected and flushed about three times a year. Those operated during inspection were found to be in good condition. **Pressures:** Readings taken at pressure gauge in pumping station showed a pressure of 61 pounds. Readings taken at 6 hydrants widely distributed showed pressures ranging from 45 to 55 pounds with an average of 49 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on November 4, 1938, by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow and pressure during flow were as follows:

Camp Walk and Central Ave., 600—55—25.
Central Ave. and Ocean Ave., 585—45—20.
East End Ave. and Vansant Ave., 120—47—4.

Bayview Ave. and Ocean Ave., 340—52—13.
Cedar Ave. and Vansant Ave., 290—47—*.
Garfield Ave. and Jackson Ave., 410—45—12.
* No reading taken.

FIRE DEPARTMENT: A volunteer organization of one company under partial control of borough. Borough owns house and American La France, company owns Ahrens-Fox engine. Borough appropriated \$1,200 for the support of the department in 1938. There are 26 active members in the company including 6 active exempt members. About 10 members are available during the day and about 20 during the night. There is a chief who is elected for a two year term, a foreman and an assistant foreman who are elected annually. Election of officers and the appointment of new men is confirmed by Borough Council. **Company:** Located on the corner of Simpson and Vansant Avenues. Building is a two-story concrete block structure with a composition roof, concrete apparatus floor, electric lights and hot water heat. **Equipment:** A 1924 American La France 400-g.p.m. engine carrying a 100-gallon booster tank, 200 feet of booster hose, 500 feet of $2\frac{1}{2}$ -inch hose, 500 feet of $1\frac{1}{2}$ -inch hose, 2 short ladders and some minor equipment. A 1930 Ahrens-Fox combination city service ladder truck and 600-g.p.m. engine carrying a 100-gallon booster tank, 200 feet of booster hose, five ladders ranging from 12 to 35 feet and totaling 101 feet, 1,000 feet of $2\frac{1}{2}$ -inch hose, 500 feet of $1\frac{1}{2}$ -inch hose and fair minor equipment. **Hose:** All $2\frac{1}{2}$ -inch hose is C.R.L. with National Standard screw couplings. It is tested occasionally at 180 pounds, dried on apparatus floor and shifted at fires and drills. About 35% of the hose is over 5 years old. There is no reserve hose. **Operations:** No municipal fire department ordinance. Department governed by company by-laws. Chief has no power to suspend members, but may prefer charges to company. Chief has control of apparatus at all times and of men at fires and drills. Motors turned over once a week. Six men appointed drivers. **Drills and Training:** About 7 drills are held each year under the supervision of the chief and foreman. They consist of hose laying, pump operation, ladder raising and use of equipment. **Fire Methods:** Booster streams used on incipient fires reinforced with engine streams with shut-off nozzles. Engine usually hooks up. No salvage equipment, heavy stream appliances or gas masks are provided. **Response to Alarms:** Entire department responds to all alarms in borough and in sections of Dover Township. Outside aid may be secured from Toms River and Seaside Heights. **Building Inspection:** Inspections by members of the fire department are made of fire hazards and complaints. **Records and Reports:** A record is kept of all fires, the nature of the fire, the number of men responding, the location and alarms. **Fire Alarms:** Alarms of fire are telephoned through the Toms River Exchange to a private home near fire station and are sounded from there or from a station in the Windsor Park section on a siren located at the fire house.

POLICE DEPARTMENT: Consists of one uniformed officer and two specials. No vehicles provided.

BUILDING LAWS: None.

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: Adopted December 24, 1937.