



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

Lavallette Borough
Ocean County, New Jersey

JULY 31, 1952

KEY

PROTECTED FIRE ZONE: Shown in Green.
 NOTE.—Fire protection report on file in Engineering Department of F. I. R. O. of N. J.
 Elevations range from 0 to 10 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:
 (V) Automobile combination pumper and hose car
 (O) Booster tank or tanks on above



DOVER (455) TWP

NORMANDY (426) BEACH

7 - I G L E D C B A

LAVALLETTE BOROUGH, OCEAN COUNTY, NEW JERSEY.

Population—1940 Census—315. Summer Estimate—1,000.

IN GENERAL: A seashore resort between the Atlantic Ocean and Barnegat Bay about 8 miles below Bay Head on the Pennsylvania Railroad. Area about 0.7 square miles. Elevations range from 0 to 10 feet. Main roads improved, others gravel in fair condition. Railroad crossings at grade are said never to have interfered with 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 also furnishes water to a small section of Dover Township. System is in charge of a superintendent who is appointed under Civil Service. He, with five laborers, does all maintenance work. A truck is provided. Superintendent responds to pumping station on receipt of alarm of fire. There are no records of hydrant and valve locations. **Supply Works:** Installed in 1926. Water is pumped from two wells by two deep well turbine pumps into distribution system with standpipe acting as equalizer. Wells are 1,500 and 1,180 feet deep with 4-inch and 16-inch casings. **Pumping Stations:** Located as shown on map. The station housing the smaller well is a one-story concrete block structure with an asbestos shingle roof, concrete floor, electric lights, and oil-fired heat. The station housing the larger well is a small one-story concrete block structure with a slag roof, concrete floor, and electric lights. **Equipment:** One Fairbanks-Morse deep well pump driven by a 30-h.p. Fairbanks-Morse electric motor. One 350-g.p.m. Fairbanks-Morse deep well pump driven by a 35-h.p. Fairbanks-Morse electric motor or a 70-h.p. Fairbanks-Morse gasoline engine. **Distribution System:** In one service; see map. Arteries consist of 10-inch and 8-inch mains with a fairly complete gridiron of 4-inch and 6-inch. **Standpipe:** Located as shown on map. Steel, 15 x 120 feet, capacity 158,000 gallons. Elevation of base about 5 feet. **Consumption:** The average and maximum daily consumption during 1948 was 0.23 and 0.475 m.g. There are about 1,135 services, none of which is metered. **Pipe:** Cast iron, tar coated, bell and spigot joint, laid with about a 3-foot cover. Total length, 64,300 feet; 1.6% 10-inch, 18.2% 8-inch, 43.1% 6-inch, and 37.1% 4-inch. No trouble from frozen mains or electrolysis. **Gate Valves:** There are 102 on the system of Wood and Mueller makes, set with iron boxes to grade. Inspected annually. All turn left to open. **Hydrants:** There are 61 on the system, of which 58 are Mathews and 3 Columbian. All have two 2½-inch and one 4½-inch outlets, 4-inch or 5-inch barrels, and 6-inch un-gated branches. Those operated during inspection were found to be in good condition. **Pressures:** Readings taken at 5 hydrants widely distributed showed an average pressure of 41 pounds. Pressure gauge in pumping station showed a pressure of 44 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on October 16, 1948 by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow, and pressure during flow were as follows:

Grand Central and Reese Ave., 1,300—45—22.
Grand Central and Ortlely Ave., 870—40—25.
Grand Central and Trenton Ave., 910—40—30.
The Boulevard and Elizabeth Ave., 1,060—40—*.
Morton Dr. and Liggett Rd., 360—40—10.

*No reading taken.

FIRE DEPARTMENT: A volunteer organization of one company under control of the borough. Borough owns house, apparatus, and equipment and appropriated \$1,300

for the support of the department in 1948. Chief, 2 assistant chiefs, foreman and assistant foreman elected annually and confirmed by borough. There are 40 men, of whom about 20 are available at all times. **Company—Engine Company No. 1:** Located in the borough hall which is located on Grand Central near Brooklyn Avenue. Building is a two-story hollow tile and brick structure with slag roof, concrete apparatus floor, hose tower, vapor heat, and electric lights. **Equipment:** A 1935 Pirsch-Ford 500-g.p.m. triple combination pumping engine with a 200-gallon booster tank, 200 feet of booster hose, 900 feet of 2½-inch hose, 600 feet of 1½-inch hose, two short ladders, and meager minor equipment. **Hose:** All 2½-inch hose is C.R.L. with National Standard screw couplings. There is about 500 feet of 2½-inch hose in reserve. It is tested annually, shifted at fires and drills, and dried in hose tower. **Operations:** Department governed by borough ordinance. Chief has control of apparatus at all times and of men at fires and drills. He can not suspend members, but may prefer charges to mayor and council. Five men appointed drivers. **Drills and Training:** Drills held monthly consist of burning off brush, use of pump, and hose laying. **Fire Methods:** Booster and 1½-inch lines are used on incipient fires reinforced by engine and 2½-inch hydrant lines with shut-off nozzles. Two gas masks and 1 Scott Air-Pak are carried but no salvage covers nor heavy stream appliances are provided. **Response to Alarms:** Entire department responds to alarms. Outside aid may be secured from Bay Head and Point Pleasant. **Building Inspections:** Chief makes a yearly inspection of all mercantile buildings. No records. **Records and Reports:** A record is kept of all fires and a yearly report is made to borough council. **Fire Alarm System:** System is under the supervision of a local electrician who makes all extensions and repairs. Headquarters equipment, located in basement of borough hall, consists of a relay to operate siren. Current is supplied at 220 volts by Jersey Central Power & Light Company and transformed to 110 volts for system operation. System consists of a closed single circuit carrying eight Sterling interfering boxes and siren. Boxes are mounted on utility company poles with red indicating bands. All boxes have red indicating lights. There is about 15 miles of overhead wire mounted below power lines on poles. Wire is No. 10 hard drawn copper triple braided weatherproof. Circuits are tested daily by time signal and boxes weekly. Alarms may also be telephoned to borough clerk's office, water superintendent's home, or police box in center of town and are sounded on nearest fire alarm box.

POLICE DEPARTMENT: Consists of a chief, 1 sergeant, 2 patrolmen, and 10 special officers. Two men are on duty days and one nights. A car and motorcycle are provided.

BUILDING LAWS: Code adopted December 4, 1928 provides for a building inspector. It has provisions in regard to chimneys, height of buildings, and fire stops, but in general does not conform to the Code of Suggested Ordinances for Small Municipalities as recommended by the National Board of Fire Underwriters.

FIRE PREVENTION LAWS: Building code has regulations in regard to motion picture theatres and booths and garages. State laws adequately cover the storage and shipment of explosives, the shipment of flammables, and the construction of motion picture booths. They also restrict the discharge of fireworks to responsible bonded parties.