



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

Union Beach Borough
Monmouth County, New Jersey

AUGUST 31, 1944

KEY

PROTECTED FIRE ZONE: Shown in Green.
NOTE.—For description of fire protection, etc., see other side.
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

Fire house shown thus +
Fire apparatus designated by symbols thus:
Y Pumping engine and hose car
H Hose car
O Booster tank or tanks on above

UNION BEACH BOROUGH, MONMOUTH COUNTY, NEW JERSEY.

(Including Lorillard Beach and Union Gardens.)

Population—1940 Census—2,076.

Estimated summer population—5,000.

IN GENERAL: A seashore development located on the C. R. R. of N. J. adjoining Keyport on the east. Dwellings are mainly bungalows without basements. There is one clothing factory employing about 120. Area about 18 square miles. Elevations range from 0 to 120 feet. Main road is concrete, others macadam and gravel in fair to poor condition. Railroad crossings at grade reported as not having interfered with the response and operations of the fire department.

WATER SUPPLY: The borough owns the supply works and distribution system installed in 1927, and supplies water for domestic and fire protection purposes to the borough and a small section of Raritan Township. **Organization:** The water department is under the control of the council committee and in charge of a superintendent who was recently appointed. The pumping station is operated by a superintendent and one assistant. Office is located at pumping station and a service truck is provided. Records consist mainly of a distribution map which is not kept up-to-date. **Supply Works:** Water is obtained from one well 311 feet deep and 6 inches in diameter with a yield of about 500 g.p.m. This well is located in main pumping station and is equipped with a 500-g.p.m. Layne-New York deep well pump driven by a direct connected 25-h.p. Century polyphase motor. Pump discharges into an aerating tower, whence water flows by gravity through a coagulating basin, thence through filters to a clear water basin whence it is pumped into mains with an elevated tank acting as an equalizer. **Pumping Station:** Located as shown on map. It is a high one-story brick building with a slate covered wood roof supported by unprotected steel trusses, concrete and dirt floors, plain glass windows, electric light, steam heat, oil burner fired, telephone, and 3 foamite extinguishers. Elevation of floor about 10 feet. Filters, basins and aerating tower can be bypassed and water pumped directly into mains. **Equipment:** Two open concrete basins, total capacity 200,000 gallons, three Roberts vertical rapid sand filters, capacity 226 g.p.m. each and two 500-g.p.m. American centrifugal pumps, each driven by a direct connected 40-h.p. Century induction motor. Wires in conduit. Housekeeping good. **Distribution System:** In one service consisting of a 12-inch, 10-inch, and 8-inch loop with numerous 6-inch extensions. See map. **Elevated Tank:** Steel, 32 feet in diameter by 23 feet high with a hemispherical bottom on a 113-foot steel tower. Elevation of base about 10 feet. Elevation of overflow 146. Capacity 200,000 gallons. **Consumption:** The average and maximum daily consumption during 1943 was 0.172 and 0.230 million gallons. There are about 2,800 services which are about 95% metered. **Pipe:** Cast iron, Class No. 150, tar coated, bell and spigot joint, laid with a 4-foot cover. A recent extension to Raritan Township of about 1,400 feet is Transite. Total length, 90,800 feet; 17.2% 4-inch, 59.1% 6-inch, 7.0% 8-inch, 15.2% 10-inch, and 1.5% 12-inch. No recent trouble has been experienced from electrolysis. No trouble from freezing. **Gate Valves:** There are 143 of Eddy make set with valve boxes at grade; all turn left to open. **Hydrants:** There are 158 of Eddy make with 6-inch barrels, 6-inch gated branches, and two 2½-inch and one 4½-inch outlets. All hydrant outlets are National Standard. Hydrants are inspected annually and were in good condition at time of inspection. **Pressures:** A recording pressure gauge at pumping station at about elevation 15 showed pressures ranging from 58 to 60 pounds. Pressure readings taken at hydrants widely separated showed pressures ranging from 59 to 61 pounds with an average of 60 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on May 21st, 1936 by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow and pressure during flow were as follows:

Front St and Florence Ave., 1,170—61—42.

Union Ave. and Park Ave., 1,300—59—46.

Park Ave. and Spruce St., 725—61—42.

Broadway and Florence Ave., 1,760—60—44

FIRE DEPARTMENT: A volunteer organization of four companies under partial control of the borough. Apparatus and fire houses are owned by companies. The borough supplies the 2½-inch hose and appropriated \$1,000 for 1944. Total active membership about 60, divided between the four companies, including a chief, 2 assistant chiefs, one captain, 4 foremen and one assistant foreman. An average of 7 men are available at all times in each company. Two members in each company are elected annually to form a

board of fire commissioners. **Companies—Union Hose Company:** Located on Florence Avenue opposite Bay Avenue. Building is a 1- and 2-story hollow tile structure with frame second story, composition covered wood roof, wood floor, furnace located on apparatus floor for heat, electric lights, tower bell, and no telephone. **Equipment:** A 1931 Sanford booster car carrying a 350-gallon booster tank, a 75-g.p.m. booster pump, 200 feet of ¾-inch booster hose, 750 feet of 2½-inch hose, 2 short ladders, 2 all-service gas masks and some minor equipment. **Union Gardens Fire Company:** Located on Park Avenue near Oak Street. Building is a 1-story hollow tile structure with composition covered wood roof, concrete apparatus floor, electric lights, siren, stove for heat, and no telephone. **Equipment:** One 1929 G.M.C. booster and hose car carrying two 35-gallon booster tanks with CO₂ for expellant, 150 feet of ¾-inch booster hose, 500 feet of 1½-inch hose, one asbestos suit, 2 all-service gas masks and some minor equipment. **Union Beach Fire Company No. 1:** Located on Cambridge Avenue near Union Avenue. Building is a 1½-story frame structure with a one-story tile addition housing apparatus, concrete apparatus floor, composition covered wood roof, electric lights, siren, stove for heat, and no telephone. **Equipment:** A 1926 Stoughton 500-g.p.m. triple combination pumping engine rebuilt in 1943. The motor is being rebuilt at the present time. It carries a 320-gallon booster tank, 350 feet of 1-inch booster hose, 900 feet of 2½-inch hose, 2 short ladders, 2 all-service gas masks, and some minor equipment. **Harris Gardens Hose Company:** Located on Harris Avenue near Asbury Street. Building is a 1½-story hollow tile structure with a composition covered wood roof, concrete apparatus floor, electric lights, oil stove for heat and no telephone. **Equipment:** A 1923 Stutz 350-g.p.m. triple combination pumping engine carrying a 100-gallon booster tank, 750 feet of 2½-inch hose, 200 feet of ¾-inch booster hose, 2 short ladders, one all-service gas mask, and some minor equipment. **Hose:** All 2½-inch hose is C.R.L. with National Standard screw couplings. It is all carried on apparatus. It is tested annually at 200 to 300 pounds pressure. About 15% of the hose is over 5 years old. No hose drying facilities are provided. **Operations:** Chief is in charge of the apparatus at fires and of men at fires and drills. Some items of fire department operation are covered in a fire prevention ordinance, which, however, is not well enforced. There are 4 drivers appointed in each company. **Drills and Training:** Drills held about 6 times each year consist of pump operation, hose laying and some ladder work. **Fire Methods:** Booster lines are used supported by 1½-inch and 2½-inch lines. A sufficient number of all-service gas masks are carried, but no salvage equipment nor heavy stream appliances are provided. **Response to Alarms:** All apparatus responds to alarms. Outside aid may be secured from Keyport and West Keansburg. **Building Inspection:** The chief makes occasional inspections of hazardous conditions, but these inspections are not systematic and no records are kept. **Records and Reports:** Fairly complete fire records are kept and chief submits an annual report to the mayor and council. **Fire Alarms:** Alarms of fire are telephoned through the Keyport Telephone Exchange to the borough hall during the day. At night alarms are usually turned in from the nearest fire house. Borough is divided into four districts and siren sounds the number of the district in which the fire is located.

POLICE DEPARTMENT: Consists of a volunteer chief and 3 paid men. The paid men work in 8-hour shifts. One car with one-way radio connected to the Monmouth County Police Radio System is provided.

BUILDING LAWS: Code adopted April 18th, 1930 contains provisions for permits and general framing requirements but is very incomplete from a fire prevention standpoint.

EXPLOSIVES AND FLAMMABLES: An ordinance adopted August 9, 1927 contains some good regulations with regard to rubbish, flammable liquids, garages, etc. and designates the fire chief the Inspector of Combustibles and Fire Risks. It is not, however, well enforced. 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: None.