



KEY

PROTECTED FIRE ZONE: Shown in Green.

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

Elevations range from 0 to 150 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

(L) Ladder truck

(Q) Booster tank or tanks on above

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

Matawan Borough
Monmouth County, N. J.

OCTOBER 30, 1948

MATAWAN BOROUGH, MONMOUTH COUNTY, NEW JERSEY.

Population — 1940 Census — 2,748. Estimated Population — 3,500.

IN GENERAL: Located on the N. Y. and L. B. R. R. and the Atlantic Highlands and Freehold Branch of the C. R. R. of N. J. west of the Borough of Keyport. It is a residential and industrial community with about 15 industries employing about 487 persons. Area 1.93 square miles. Elevations range from 0 to 150 feet. Main roads are concrete, others are gravel or macadam in good to poor condition. Railroad crossings at grade and traffic on main highway 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 and a few small sections of the township. **Organization:** The system is under the supervision of a superintendent of public works who with an operator and two maintenance men maintain and operate system. Superintendent is appointed annually. Operator is on duty during the day and proceeds to pumping station on receipt of alarms of fire during night. Four trucks are provided. Records of hydrant and valve locations are incomplete. **Supply Works:** The original supply works was built in 1903, but has subsequently been modernized and improved. Water is obtained from two 8-inch wells 265 feet deep with a yield of about 0.72 m.g.d. each. Wells discharge through an aerator into a clear water basin of approximately 6,000 gallons capacity whence high lift pumps which are under a 1-foot to 4-foot head take suction and discharge through two pressure filters into the distribution system with a standpipe and elevated tank acting as equalizers. There is a 6-inch closed metered emergency connection to the Matawan distribution system at Main Street and Atlantic Avenue. **Pumping Station:** It is located on Church Street southeast of the railroad in Matawan Township as shown on map. Building is a 1-story brick structure with composition covered wood roof, electric lights, and hot water heat. This building was remodeled in 1940. No hand protection. Exposures negligible. Wiring in conduit. House-keeping good. Elevation of pump room floor about 30 feet. **Equipment:** The present equipment installed in 1940 includes two 0.36-m.g.d. DeLaval centrifugal pumps each driven by a 20-h.p. U. S. electric motor. Pumps operate automatically between 64 and 67 pounds. Two 0.36-m.g.d. Cochran pressure filters. **Well Stations:** The two wells are located outside the pumping station, one to the east and one to the south. **Equipment:** Each well is pumped by a 0.73-m.g.d. deep well turbine driven by a 7½-h.p. U. S. electric motor. One turbine is of Peerless make and the other is a Layne. **Distribution System:** In one service. See map. Supply to principal mercantile district is through a single 10-inch and 8-inch main in Main Street. Arterial system is generally poor and there are long 6-inch mains, some of them dead end, supplying hydrants. Gridiron is poor. **Elevated Tank:** Located on Church Street northeast of the railroad as shown on map. It is of steel 26 by 30 feet with a capacity of 150,000 gallons, erected on an 85-foot steel tower. Elevation of base 66 feet. Elevation of overflow 181 feet. **Standpipe:** Located on Church Street near the elevated tank. It is steel 12 by 115 feet with a capacity of 97,290 gallons. Elevation of base 60 feet. Elevation of overflow 181 feet. **Consumption:** The average and maximum daily consumption during 1947 was .0236 and .0355 million gallons. On December 31, 1947 there were 1,150 services, all of which were metered. **Pipe:** Nearly all pipe is cast iron, tar coated, with bell and spigot or Universal joint. A small number of recent extensions have been made with asbestos cement pipe. All pipe is laid with a 3½- to 4-foot cover. Total length, 76,600 feet; 3.6% 10-inch, 3.1% 8-inch, 71.8% 6-inch, and 21.5% 4-inch. **Gate Valves:** There are 93 of various makes set with iron boxes at grade. Direction of operation is uniform. There is no regular inspection. **Hydrants:** There are 128 of Eddy, Ludlow, and Matthews makes of standard type; 67 have two 2½-inch and one 4½-inch outlets and 6-inch branches, while the remainder have two 2½-inch outlets and 4-inch branches. Hose and steamer outlet threads are National Standard. There are 47 hydrant branches which are gated. Hydrants are inspected annually. Those operated during the time of tests were found to be in good condition. **Pressures:** Readings taken at 6 hydrants widely distributed showed pressures ranging from 36 to 65 pounds with an average of 56 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on April 22, 1942 and May 13, 1942 by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow, and pressure during flow were as follows:

Main St. and Ravine Dr., 1,200—57—37.
Aberdeen Rd. and Matawan Ave., 345—65—10.
Matawan-Freehold Rd. and Rvers Lane, 285—36—4.
Main St. S/W of Water St., 610—63—23.
Edgemere Dr. and Woodland Ave., 480—56—15.
Weldon and Taylor Rds., 370—58—10.

FIRE DEPARTMENT: A volunteer organization of four companies under the control of the borough and one independent company. Borough makes an annual appropriation for the support of the department and the independent company. Borough owns all the apparatus and equipment except in the Freneau Independent Fire Company. The Washington Engine Company No. 1 house is owned by the borough, the Hook and Ladder Company No. 1 house is owned by the American Legion, and the other houses are owned by the respective companies. Total active membership 117 including the Freneau Independent Fire Company. Officers include a chief and 3 assistant chiefs who are elected alternately from each of the four municipal companies. Each company has a chief, one captain, and 2 lieutenants with the exception of the Freneau Independent Fire Company which has a chief, 2 assistant chiefs, and 1 engineer. Elections are confirmed by the mayor and council. **Companies—Washington Engine Company No. 1:** Membership 25. There is a minimum of 10 men available during the day and 15 at night. Located on Little Street between Broad and Main Streets. Building is a 2-story frame structure with composition covered wood roof, concrete apparatus floor, steam heat, electric lights, telephone, and punch register. A siren is located on the roof. **Equipment:** A 1946 Seagrave 500-g.p.m. triple combination pumping engine carrying a 200-gallon

booster tank, 300 feet of booster hose, 300 feet of 1½-inch hose, 1,000 feet of 2½-inch hose, 2 all-purpose gas masks, 2 short ladders, and fair minor equipment. **M. E. Haley Hose Company No. 1:** Membership 22. A minimum of 5 are available during the day and 12 at night. Located on Main Street southwest of Water Street. Building is a 1-story frame structure with a composition covered wood roof, concrete and wood apparatus floor, oil stove for heat, electric lights, telephone, and punch register. Siren is located on the roof. **Equipment:** A 1943 Ward La France Diamond "T" 500-g.p.m. triple combination pumping engine carrying a 300-gallon booster tank, 300 feet of booster hose, 300 feet of 1½-inch hose, 1,000 feet of 2½-inch hose, 2 all purpose gas masks, and fair minor equipment. **Midway Hose Company No. 2:** Membership 25. A minimum of 5 men are available during the day and 15 at night. Located on Washington Street between Jackson and Main Streets. Building is a 2½-story hollow tile structure with a composition covered wood roof, concrete apparatus floor, hot water heat, electric lights, telephone, and a punch register. A siren is located on the roof. **Equipment:** A 1946 Seagrave 500-g.p.m. triple combination pumping engine carrying a 200-gallon booster tank, 350 feet of booster hose, 300 feet of 1½-inch hose, 1,000 feet of 2½-inch hose, 2 all-purpose gas masks, and fair minor equipment. **Matawan Hook and Ladder Company No. 1:** Membership 25. A minimum of 7 men are available during the day and 15 at night. Located on Jackson Street in the rear of the borough hall. Building is a 1-story brick addition to the borough hall with a composition covered wood roof, concrete and wood apparatus floor, steam heat and electric lights. A siren and an air horn are located on the roof. **Equipment:** A 1948 Ward La France city service ladder truck carrying ladders ranging from 7 feet to 50 feet, totaling 240 feet, 2 all-purpose gas masks, a 1,250-watt electric generator with 3 lights, and good minor equipment. **Freneau Independent Fire Company:** This company is not under the control of the borough, but the borough appropriates \$200 annually for the support of the company. Membership 20 including a chief, 2 assistant chiefs, and an engineer. There is a minimum of 4 men available during the day and 9 at night. Located on State Highway No. 4 near Laytons Mill Road. Building is a 1-story frame structure with a composition covered wood roof, concrete apparatus floor, electric lights and no telephone. A siren is located on the roof. **Equipment:** A 1947 Mack 500-g.p.m. triple combination pumping engine carrying a 200-gallon booster tank, 150 feet of booster hose, 800 feet of 2½-inch hose, and fair minor equipment. **Hose:** All 2½-inch hose is C.R.L. with National Standard screw couplings. It is tested at least annually at about 200 pounds and replaced on apparatus wet. It is shifted at fires and usually at drills. Nearly all of the hose is less than 7 years old. There is 3,800 feet of 2½-inch hose carried on the apparatus. There is a reserve supply of 450 feet. **Operations:** Department is governed by company by-laws and a borough ordinance. Chief has control of apparatus at all times and of men at fires and drills. He may suspend members pending a hearing before the borough council. Motors are usually started about every other day. There are regularly appointed drivers in each company, but all men are trained to drive and operate the pump. **Drills and Training:** About 12 company drills are held each year with an occasional combined drill. Several of the men have attended the various drill schools held in Monmouth County. Drills consist of hose laying, pump operation, ladder raising, and general use of minor equipment. **Fire Methods:** Booster lines are used on incipient fires reinforced by engine lines. Some open play pipes are used. A total of 8 all-purpose gas masks are carried. Salvage equipment is limited to 4 covers and 2 squeegees. There are no heavy stream appliances carried. **Response to Alarms:** Entire department responds to all alarms in the borough. Outside aid may be secured from Keyport, Matawan Township, and Freehold. **Building Inspection:** Chief makes occasional inspections of hazards that come to his attention. **Records and Reports:** Each company keeps a record of attendance and date of all fires and drills. **Fire Alarm System:** The system is under the supervision of a local electrician. Headquarters is located on the first floor of borough hall near the police desk. Equipment consists of a Vitaguard cabinet containing 24 cells of battery with the necessary switches, rectifier, and fuse protection. A breakwheel transmitter with wheels for 17 phantom locations is provided. An air horn is located on the roof and a compressor and storage tanks are located in the basement. All wiring is in conduit. There are 3 succession type boxes located along the main street on a single circuit approximately one mile long of No. 10 hard drawn copper weatherproof wire carried on poles below power wires and above telephone cables. Boxes are grounded and poles carrying boxes have red indicating bands and lights. Occasional tests of boxes and circuits are made, but no records are kept. There are punch registers and telephones located in three fire houses. The borough has been divided into zones and districts and coded signals are sounded on the air horn. Telephone alarms are received at the local police headquarters where there is 24-hour watch, or may be transmitted to the county police radio at Freehold.

POLICE DEPARTMENT: Consists of a chief, a captain and two patrolmen. A car with two-way radio is provided. Police do not inspect new construction for building permits.

BUILDING LAWS: Code adopted May 27, 1930 provides for the appointment of a building inspector and requires that plans be submitted and permit secured before building operations may begin. Code has little value from a fire protection standpoint and does not conform to the Code of Suggested Ordinances recommended by the National Board of Fire Underwriters. Fire limits are not established and combustible roof coverings are allowed throughout the borough.

FIRE PREVENTION LAWS: No municipal regulations. State laws adequately cover the storage and shipment of explosives, the transportation of flammables, and the construction of motion picture booths. They also restrict the discharge of fireworks to responsible bonded parties.

ZONING ORDINANCE: Adopted May 27, 1930.