



SEPTEMBER 29, 1945

### KEY

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

*Elevations range from 10 to 119 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

Ⓛ *Ladder truck*

○ *Booster tank or tanks on above*



## MAYWOOD BOROUGH, BERGEN COUNTY, NEW JERSEY.

Population — 1940 Census: 4,052.

**IN GENERAL:** Located on the N. Y., S. and W. R. R. adjoining Hackensack about 15 miles north of Jersey City. A residential community with two chemical plants. Area about 1.3 square miles. Elevations range from 10 to 119 feet. Streets are mainly improved and are in fair to good condition. One railroad crossing at grade could seriously delay the response of fire apparatus to the southerly portion of the borough.

**WATER SUPPLY:** Water for domestic and fire protection purposes is furnished by the Hackensack Water Company. The portion of this system in Maywood is on the Western District of the New Milford Low Service to the southwest of the pumping station and is supplied by 8-inch and 12-inch feeders from the 20-inch and 24-inch transmission mains which pass through the adjoining City of Hackensack, and also by a 24-, 16- and 12-inch feeder through River Edge, Paramus and Rochelle Park, which comes from the 24-inch transmission main in River Edge. The entire New Milford Low Service is supplied from the New Milford Pumping Station. Territory to the southwest on the western side of the Hackensack River is supplied by direct pumpage by 20-inch and 24-inch transmission mains which are connected through the gridiron distribution system and supply the Carlstadt Service Reservoir which is available as a supply to the Carlstadt booster system. Two 30-inch river crossings, one open and one normally closed, provide both regular and emergency supply from the New Milford Low Service on the east side of the river. For a detailed description of the Hackensack Water Company system see report with map No. 59. **Distribution System:** In one service. See map and description above. **Consumption:** The average and maximum daily consumption during 1944 in the entire territory served (83,823 live services) were 39,129 and 47,447 million gallons respectively. The maximum daily consumption was 42.01 and 7.5 million gallons respectively on the low and high services. The average daily consumption was 34,542 and 6,052 million gallons respectively on the low and high services. On December 31st, 1944 there were 1,407 services in Maywood, all of which were metered. It is estimated that 0.8% of the total consumption is used in Maywood. **Pipe:** Cast iron, tar coated, bell and spigot joint, laid with a 3-foot minimum cover. Total length 94,657 feet; 0.61% 16-inch, 8.14% 12-inch, 12.44% 8-inch, 78.81% 6-inch. No trouble reported from electrolysis and freezing during severe weather has generally been confined to service connections. **Gate Valves:** There are 270 within the borough of Smith and Rensselaer makes with valve boxes set at grade. Direction of operation is uniform. Inspection and repair of valves in the entire territory served by this company is continuous resulting in about one complete annual inspection of all valves and semi-annual inspection of major control valves. Fire Department is notified when valves affecting hydrant supply are operated. Repair work is continuous until service is restored. **Hydrants:** There are 300 within the borough of Smith and Corey makes. Five 4-inch and 2 1/2-inch and one 4 1/2-inch outlets and 4-inch branches. Six have two 2 1/2-inch and one 4 1/2-inch outlets and 4-inch branches. The remainder have one 4 1/2-inch and two 2 1/2-inch outlets and 4-inch branches. All outlets have National Standard threads. Branches are all gated. Hydrants are inspected semi-annually, after use, and frequently during freezing weather. At time of inspection they were found to be in good condition. **Pressures:** Readings taken at 4 well distributed hydrants showed pressures ranging from 77 to 97 pounds with an average of 88 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on November 7th, 1941 by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow, and pressure during flow were as follows:

Pleasant and Maywood Aves., 1,230—77—83.  
Magnolia Ave. W. of Maywood Ave., 1,040—86—39.  
Maywood Ave. N. of First St., 367—97—48.  
Maywood and Spring Valley Aves., 1,460—90—57.

**FIRE DEPARTMENT:** Volunteer organization of three companies under the control of the borough. Borough owns houses, apparatus, and equipment and makes an annual appropriation of about \$3,800 for the support of the department. Total active membership 60 evenly divided into three companies. A minimum of about 16 are available at all times. Chief, 2 assistant chiefs, 3 captains, and 3 lieutenants are all elected annually by the companies and confirmed by the borough council. **Companies—Undine Engine Company No. 1:** Located adjacent to the municipal building on Park Avenue east of Maywood Avenue as shown on map. Building is a 1-story concrete block structure with concrete apparatus floor, asbestos shingled roof, steam heat, electric lights, and hose rack. **Equipment:** One 1927 Maxim 500-g.p.m. triple combination pumping engine carrying one 90-gallon booster tank, 150 feet of booster hose, 1,100 feet of 2 1/2-inch hose, 2 short ladders, and good minor equipment. **Protection Hook and Ladder Company No. 1:** Located with Engine Company No. 1. **Equipment:** One 1925 Maxim city service ladder truck carrying one 40-gallon booster tank with CO<sub>2</sub> for expellant, 100 feet of booster hose, 200 feet of 1 1/2-inch hose, 8 ladders ranging from 12 to 45 feet, totaling 196 feet, and good minor equipment. **Peerless Engine Company No. 2:** Located on Hunter Avenue west of Maywood Avenue as shown on map. Building is a 2-storied stuccoed concrete structure with asbestos shingled wood roof, concrete apparatus floor, hose tower, telephone, and electric lights. Steam for heating is supplied from the adjacent chemical works. **Equipment:** One 1934 American La France 500-g.p.m. triple combination pumping engine carrying a 100-gallon booster tank, 150 feet of

booster hose, 1,000 feet of 2 1/2-inch hose, 500 feet of 1 1/2-inch hose, 2 short ladders, and good minor equipment. **Hose:** All 2 1/2-inch hose is C.R.L. with National Standard screw couplings. It is dried on rack at Engine Company No. 1 and in tower at Engine Company No. 2 and shifted and tested twice a year. All hose is over five years old and about 50% is seven years old; 600 feet of reserve hose is held at Engine Company No. 1 and 450 feet at Engine Company No. 2. **Operations:** Department is governed by borough ordinance and company by-laws. Chief has control of apparatus at all times and of men at fires and drills. Motors are started weekly and 5 men are appointed as drivers. **Drills and Training:** A minimum of 6 company drills are held per year with the department drilling as a whole once a year. They consist of pump operation, hose laying, and some ladder work. **Fire Methods:** Booster streams are used on incipient fires reinforced by hydrant and engine lines with shut-off nozzles. One mask is provided, but there is a lack of salvage equipment and heavy stream appliances. **Response to Alarms:** All companies respond to alarms of fire within the borough. Aid may be secured from the volunteer departments at Paramus and Rochelle Park and in the case of emergency from the paid department in Hackensack. **Building Inspection:** An annual inspection by the chief and assistant chiefs is made of public buildings, stores, schools, and factories. Additional inspections are made upon complaint. **Records and Reports:** Records are good and consist of type of alarm, attendance, equipment used, and estimated loss. Each company reports monthly to the department secretary who in turn makes monthly report of the department to the borough council. **Fire Alarm System:** Maintained by a part-time paid fire alarm superintendent who is a member of the fire department and competent for maintenance. Headquarters in municipal building next to fire headquarters. System consists of 2 closed circuits, one north and one south of Passaic Street. The southerly circuit carries 11 street boxes and boxes at school and Citro Chemical Company Plant, and 2 cut-out switches which would divide circuit approximately into thirds. The northerly circuit carries 13 street boxes and is divided into 2 loops, one east and one west of Maywood Avenue. Total circuit length about 5 miles consisting of No. 10 hard drawn triple braided, weatherproofed copper wire carried on utility company poles below high tension wires, but above telephone wires. All boxes are of Farraday non-interfering type mounted on pedestals and painted red. Boxes are grounded and leads are in conduit with a standard insulated connection. There are a punch register and 10-inch electro-mechanical gong in each fire house. There is a Stromberg 6-set compressed air whistle on the municipal building operated by a 5-h.p. automatic American compressor unit with 3 tanks in basement. A compressed air whistle operated by a 5-h.p. 2 cylinder American air compressor is located at the Hunter Avenue house with one tank, an independent electrical system for solenoid control and an independent manual control for the air whistle. In the borough headquarters at the municipal building there is a manual transmitter with 33 alarm wheels. Current is supplied by 20 duplicate Oxide cells on glass plates, on wood rack on ground floor of municipal building; room is fire resistive and ventilated. Batteries are charged every 24 hours by a 2 1/2-ampere Tungar rectifier controlled by a clock mechanism. System is well protected with the usual fuses and lightning arresters and is installed according to the requirements of the National Board of Fire Underwriters. **Switches, meters, etc.** are in iron boxes well mounted on wall. Inside wiring and lead-in is in conduit well installed and protected. Circuits are tested nightly and boxes are operated occasionally. Supervisor keeps records of trouble. Telephone alarms are transmitted in all cases to police desk in municipal building where there is an officer on duty at all times. Telephones are installed in Company No. 2 house, at police desk in municipal building, and at traffic control box at the Passaic Street and Maywood Avenue intersection.

**POLICE DEPARTMENT:** Consists of chief, 1 lieutenant, 1 sergeant, 4 patrolmen, and 4 special officers, with headquarters in municipal building on Park Avenue. One man is on duty at all times at the police desk. Twenty-five fire police have been appointed to answer alarms of fire and assist in maintaining fire lines. A minimum of about 10 fire police are available at all times. Two radio cars are provided each equipped with 2-way radios. In addition there is an emergency squad, a branch of the police department, consisting of 25 volunteers trained in first aid and emergency work and equipped with one Buick ambulance and a well equipped Packard emergency car.

**BUILDING LAWS:** Building code adopted November 8th, 1939 provides for a building inspector appointed by the mayor and council to serve for a one-year term. Code has some good fire prevention features, but does not establish fire limits, restrict excessive areas, nor limit the use of wood shingle roofs.

**FIRE PREVENTION LAWS:** Oil burner ordinance adopted by borough on May 4th, 1939 provides for the appointment of an oil burner inspector and refers to the Suggested Oil Burner Ordinances adopted by the National Board of Fire Underwriters. 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 October 19th, 1922 and subsequently amended.