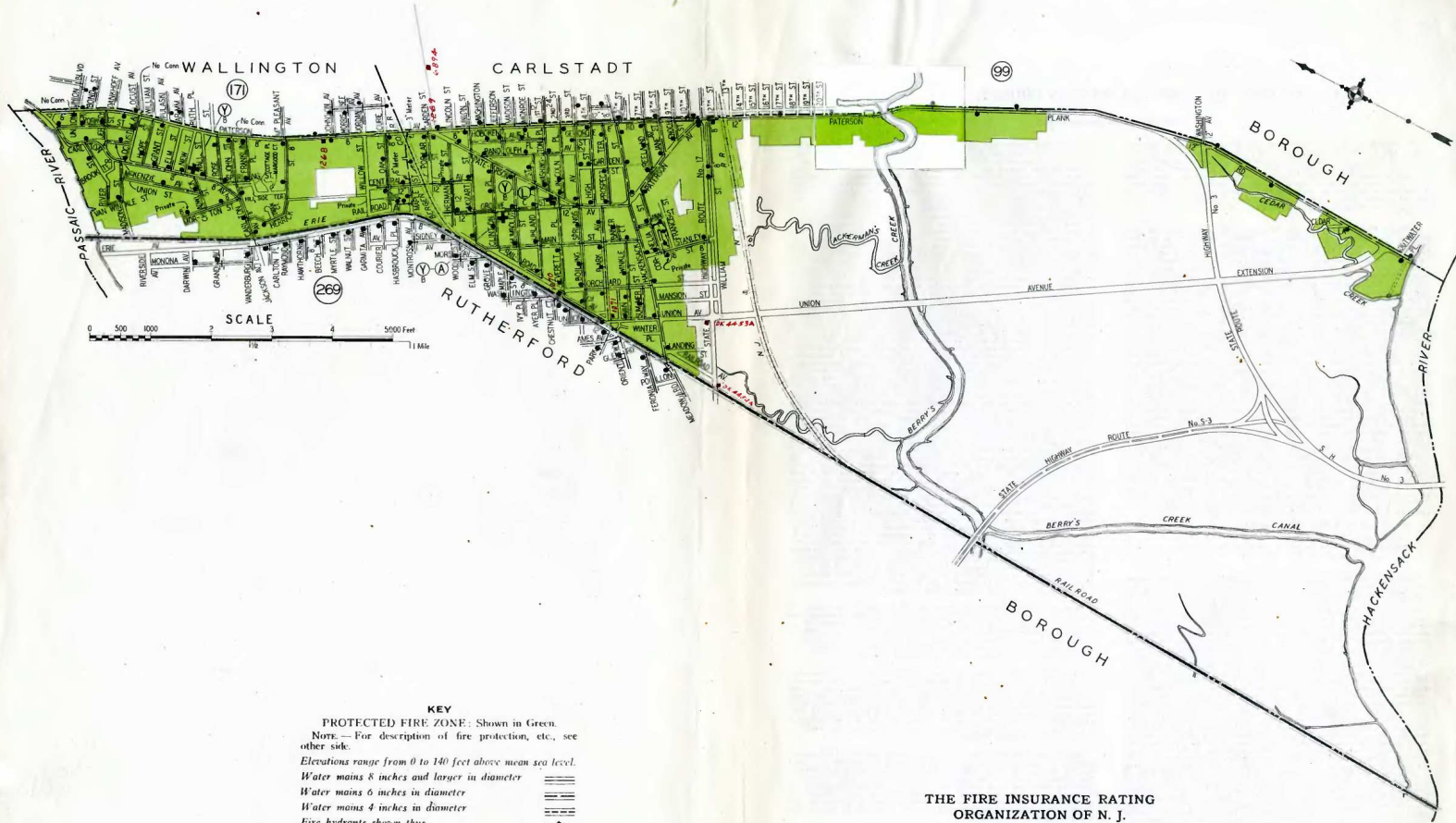


Superseding Map No. 271 of June 14, 1941. Please destroy old issue.



- KEY**
- PROTECTED FIRE ZONE: Shown in Green.
 - Note.— For description of fire protection, etc., see other side.
 - Elevations range from 0 to 140 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
 - Ⓛ Ladder truck
 - ⓐ Ambulance, Squad or Auxiliary car
 - Ⓞ Booster tank or tanks on above
 - Ⓚ Chemical tank or tanks on above

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

East Rutherford Borough
 Bergen County, New Jersey

APRIL 30, 1946

EAST RUTHERFORD BOROUGH, BERGEN COUNTY, NEW JERSEY.

Population—1940 Census—7,268.

IN GENERAL: Located between the Hackensack and Passaic Rivers and on the main line of the Erie Railroad adjacent to Rutherford and about nine miles north of Jersey City. It is a residential and manufacturing community with about 42 industries normally employing about 3,200. Area 3.7 square miles. Elevations range from 0 to 140 feet. Streets are mainly improved and in fair condition. A few streets are dirt or gravel in fair to poor condition. There are several railroad grade crossings. Some traffic congestion could effect delays in the response of fire apparatus.

WATER SUPPLY: Water for domestic and fire protection purposes is furnished by the Hackensack Water Company from its New Milford Low Service. The borough is supplied by a 24-inch main from the New Milford Pumping Station and by a check valve and 12-inch connection with a 20-inch supply line in Little Ferry. For a detailed description of the Hackensack Water Company system see report and map No. 59. **Distribution System:** In one service consisting of 6-inch and 8-inch mains fairly well gridironed. See map and description above. **Consumption:** The average and maximum daily consumption during 1945 in the entire territory served (84,266 live services) were 39,221 and 46,526 million gallons respectively. The maximum daily consumption was 39,526 and 8.65 million gallons respectively on the low and high services. The average daily consumption was 32,914 and 6,307 million gallons respectively on the low and high services. On December 31st, 1945 there were 929 services in East Rutherford, all of which were metered. It is estimated that 2.01% of the total consumption is used in East Rutherford. **Pipe:** All pipe is cast iron, tar coated, bell and spigot joint, laid with a 3-foot minimum cover. Total length, 75,737 feet, 9.9% 12-inch, 14.2% 8-inch, and 75.9% 6-inch. No trouble has been experienced from frozen mains or electrolysis. **Gate Valves:** There are 171 within the borough of various makes set with valve boxes at grade. Direction of operation is uniform. Company makes about one complete annual inspection of all valves and semi-annual inspection of major control valves. **Hydrants:** There are 120 in the borough of Smith and Corey makes of standard type; 5 have one 2½-inch and one 4½-inch outlets and 4-inch gated branches, and 115 have two 2½-inch and one 4½-inch outlets and 6-inch gated branches. Outlets have National Standard threads. Hydrants are inspected semi-annually, after use, and frequently during winter months. At time of inspection those hydrants operated were found to be in good condition. **Pressures:** Readings taken at 4 well distributed locations showed pressures ranging from 74 to 100 pounds with an average of 90 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on October 31st, 1945 by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow, and pressure during flow were as follows:

- Jersey and York Sts., 680—93—34½.
- Carlton Ave. opp. Morton St., 880—94—45.
- Boiling Springs and Paterson Aves., 1,520—74—54.
- Ann and Cornelia Sts., 820—100—77.

FIRE DEPARTMENT: A volunteer organization of four companies under the control of the borough which owns houses, apparatus and equipment and makes an annual appropriation for the support of the department. Total membership 60, equally divided among the 4 companies, of whom about 32 are available at all times. Officers include a chief, first and second assistant chiefs, 4 captains, and 4 lieutenants, all of whom are elected annually by the companies with elections being confirmed by the mayor and council. **Companies—**
Engine Company No. 1: Located on Grove Street near Humboldt Street in a one-story frame shed with composition shingle roof, concrete floor, electric lights, and steam heat. **Equipment:** A 1925 Ahrens-Fox 700-g.p.m. triple combination pumping engine carrying a 40-gallon booster tank, 200 feet of booster hose, 1,200 feet of 2½-inch hose, 100 feet of 1½-inch hose, 2 short ladders, and fair minor equipment. **Engine Company No. 2:** Located on Carlton Avenue near New Street in a 2-story frame building with slag roof, concrete apparatus floor, hot water heat, electric lights, telephone, and diaphone. **Equipment:** A 1930 Ahrens-Fox 1,000-g.p.m. triple combination pumping engine carrying an 80-gallon booster tank, 200 feet of booster hose, 1,000 feet of 2½-inch hose, 2 short ladders, and fair minor equipment. **Engine Company No. 3:** Located in borough hall at Grove Street and Everett Place. Building is a two-story brick structure with slate roof, concrete apparatus floor, steam heat, electric lights, visual indicator, and gong. **Equipment:** A 1916 Ahrens-Fox 700-g.p.m. triple combination pumping engine carrying a 40-gallon booster tank, 200 feet of booster hose, 1,000 feet of 2½-inch hose, 2 short ladders, and meager minor equipment. **Truck Company No. 1:** Located with Engine Company No. 3 in municipal building. **Equipment:** A 1921 American La France 50-foot city service ladder truck carrying 9 ladders ranging from 12 to 50 feet and totaling 235 feet, a 35-gallon chemical tank, 100 feet of chemical hose, a foam generator, and meager minor equipment. **Emergency Squad:** Membership 12. Located on Grove Street near Humboldt Street in a one-story concrete block shed with composition shingle

roof, concrete apparatus floor, electric lights, and no heat. **Equipment:** A 1937 Chevrolet emergency car carrying a 1,250-watt portable electric generator, 2 flood lights, 1 spot light, an inhalator, 2 all-service gas masks, and fair minor equipment. **Hose:** All 2½-inch hose is C.R.L. with National Standard screw couplings. It is shifted and tested monthly at about 225 pounds pressure and repacked wet on the apparatus. About 1,000 feet is over 5 years old and 300 feet is held in reserve at Engine Company No. 3. **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. Each company has three appointed drivers. **Drills and Training:** Companies hold monthly drills under the supervision of company officers. Drills consist of pump operation, hose laying, ladder work, and use of minor equipment. **Fire Methods:** Booster and chemical lines are used on small fires reinforced by engine and hydrant lines with shut-off nozzles. There are 2 gas masks, but department is almost totally lacking in heavy stream appliances and salvage equipment. **Response to Alarms:** Two or three engine companies, the ladder company, and emergency car respond to all alarms of fire in the borough. Outside aid may be secured from Rutherford, Carlstadt, and Wallington. **Building Inspection:** A fire prevention ordinance has established a bureau of fire prevention, but no regular inspections are made and no records are kept. **Records and Reports:** Fairly complete records are kept of all fires and drills, and chief submits a monthly report to the borough council. **Fire Alarms:** Fire alarm system is under the supervision of the borough mechanic who maintains and operates system. **Headquarters equipment** is located in a closet off the apparatus room at Engine Company No. 3. Equipment is severely exposed and subject to hazards incident to buildings housing motor vehicles. Apparatus is of Gamewell manufacture and consists of a two-circuit wood operating board with the necessary switches for testing and operation. Current is supplied by one oxide film rectifier operated from the 110-volt lighting circuit with one bank of storage batteries of 24 cells floating. Batteries are located in room with operating board and mounted on wood shelves. Alarm circuit is protected by 3-ampere fuses, and charging circuit is protected by 2-ampere fuses. Box circuit is divided into two loops which are normally operated as a single circuit. Circuit carries 25 Gamewell fire alarm boxes of which 4 are non-interfering and the balance of sector-pull type, 4 visual indicators and gongs, one of which is located in each of the three fire stations and one at the Flintkote Company plant, a tower bell at Company No. 1, and outside gongs at Companies No. 2 and No. 3. Boxes, with the exception of 4 which are mounted on pedestals, are mounted on utility company poles with red and white indicating bands and blue indicating lights. Wiring at fire alarm headquarters and in fire houses is exposed. Circuit consists of 9½ miles of No. 10 copper wire, triple braided, weatherproof, mounted on utility company poles. Circuit is tested daily by a time signal. Boxes are tested annually by shunting. No records are kept of tests. Operation of boxes sounds gongs at Companies No. 2 and No. 3, tower bell at Company No. 1, and gong at police headquarters, and activates indicators at the three fire houses and at the Flintkote Company plant. A steam whistle at the Mexican Petroleum Company is sounded manually. Alarms of fire may be telephoned to police headquarters in municipal building on one of two trunk telephone lines, neither of which is reserved for fire calls. Alarms are sounded from there by means of a breakwheel transmitter.

POLICE DEPARTMENT: Consists of chief, captain, lieutenant, 2 sergeants, and 8 patrolmen working in 8-hour shifts. Twenty-four hour duty is maintained at police desk where there is a switchboard with two trunk telephone lines. Department is provided with a patrol car having a one-way short wave radio, and a 1939 Buick ambulance. Police respond to all alarms of fire and report unauthorized building construction to building inspector.

BUILDING LAWS: Code adopted April 15th, 1935 and amended May 2nd, 1938 provides for the appointment of a building inspector and requires that plans and specifications be submitted and permit obtained before the commencement of building construction. Code has good regulations in regard to wall thicknesses, chimneys, flues and heating appliances, fire stops, parapets, and protection of vertical openings and openings in fire walls. The use of wood shingles for roofing is prohibited, but there are no provisions for replacement of such existing roofing.

FIRE PREVENTION LAWS: Code adopted June 20th, 1938 establishes a bureau of fire prevention and has good regulations in regard to the storage of hazardous chemicals and flammable substances, but there is evidence of lack of enforcement of this ordinance. Building code has good regulations covering the installation of oil burners. 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 March 16th, 1931.