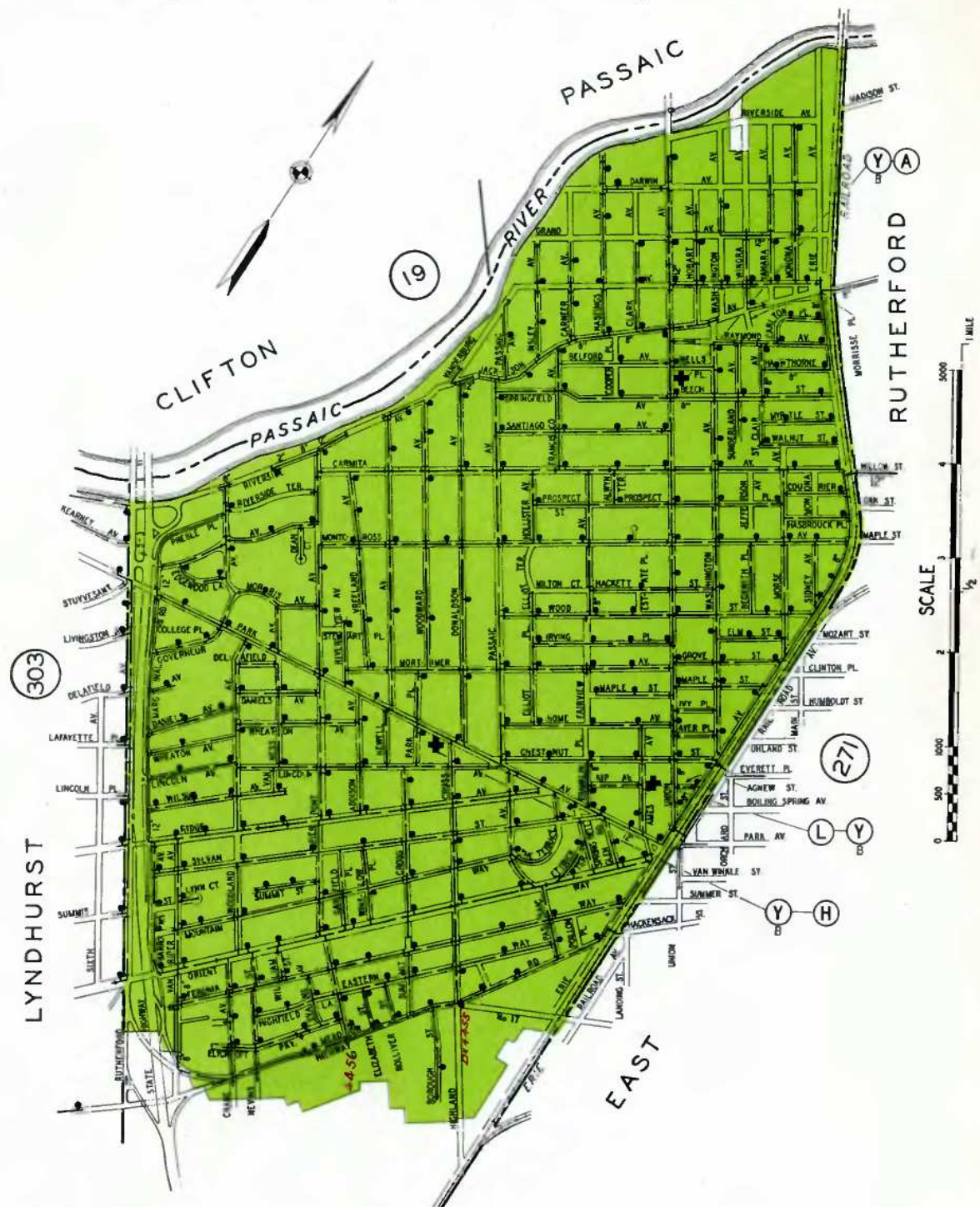


Superseding Map No. 269 of February 15, 1946. Please destroy old issue.



**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 124 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

(H) Hose car

(A) Ambulance, Squad or Auxiliary car

(B) Booster tank or tanks on above

(L) Ladder truck



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

**Rutherford Borough**  
 Bergen County, New Jersey

JULY 31, 1952

## RUTHERFORD BOROUGH, BERGEN COUNTY, NEW JERSEY.

Population—1940 Census—15,466.

**IN GENERAL:** Located on the east bank of the Passaic River and on the main line of the Erie Railroad about 9 miles north of Jersey City. It is a residential community with about 20 small industries. Area about 2 square miles, exclusive of meadow land not shown on zone map. Elevations range from 0 to 124 feet. Roads are concrete or macadam in good condition, with a few gravel or macadam in fair condition. There are no grade crossings, but traffic congestion and some steep grades 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. The portion of this system in Rutherford is on the New Milford Low Service and is supplied by a 12-inch feeder from a 24-inch supply line from the New Milford Pumping Station, and from a 12-inch line, from the east, connecting with a 20-inch supply main from the New Milford Pumping Station. It may also be supplied in an emergency through an interconnection with the Passaic Valley Water Commission. For a detailed description of the Hackensack Water Company system see report with Map No. 59. **Distribution System:** In one service consisting of 6-inch and 8-inch mains fairly well gridironed. See map. **Consumption:** The average and maximum daily consumption during 1944 in the entire territory served (83,523 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 31, 1944 there were 3,969 services in Rutherford, all of which were metered. It is estimated that 2% of the total consumption is used in Rutherford. **Pipe:** All pipe is cast iron, tar coated, bell and spigot joint, laid with a minimum 3-foot cover. Total length, 108,016 feet; 3.97% 12-inch, 5.28% 8-inch, 90.45% 6-inch, and 0.3% 4-inch. No trouble has been reported from electrolysis, and freezing during severe weather is restricted to service connections. **Gate Valves:** There are 498 within the borough of various makes set with boxes at grade. Direction of operation is uniform. Inspection is continuous resulting in about one complete annual inspection of all valves and semi-annual inspection of major control valves. **Hydrants:** There are 265 in the borough of Smith, Corey, and Ludlow makes, of standard type; 7 have one 2½-inch and one 4½-inch outlets and 4-inch gated branches; 7 have two 2½-inch and one 4½-inch outlets and 4-inch gated branches; balance 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 severe weather. At time of inspection hydrants were found to be in good condition. **Pressures:** Readings taken at 5 well distributed locations in the borough showed pressures ranging from 55 to 89 pounds with an average of 77 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:

Crane Ave. and Eleycraft Parkway, 1,260—87—34.

Park Ave. opposite Sylvan St., 2,020—72—25.

Wood St. and Elliot Ter., 840—55—30½.

Stuyvesant and Pierpont Aves., 860—84—35½.

Vanderburg and Hobart Aves., 760—89—18.

**FIRE DEPARTMENT:** A volunteer organization of 4 companies under the control of the borough which owns houses, apparatus, and equipment and appropriated \$10,140 for the support of the department in 1945. Total active membership is 60, evenly divided among the 4 companies. A good percentage of the members are borough employees and are available during the day. One member of Company No. 4 is employed by the borough as a mechanic and is on duty at headquarters during the day. A minimum of about 40 men is available at all times. Officers include a chief, 3 assistant chiefs, 4 captains, and 4 lieutenants elected annually by the department and confirmed by the borough council. **Companies—Truck Company No. 1:** Located in headquarters on Ames Avenue opposite Kip Avenue. Building is 2-story, of hollow tile, with brick front, composition roof, brick apparatus floor, hose tower, steam heat, electric lights, tower bell, visual indicator, tape register, gong, and direct telephone to police desk. **Equipment:** A 1929 American La France 75-foot aerial ladder truck with 9 ground ladders ranging from 12 to 45 feet, totaling 220 feet, a ladder pipe, portable electric generator, 3 flood lights, 150 feet of 2½-inch hose, and good minor equipment. **Engine Company No. 2:** Located on Park Avenue west of Highland Cross. Building is a 2-story brick structure with composition roof, brick apparatus floor, steam heat, electric lights, visual indicator, gong, tape register, and direct telephone to police desk. **Equipment:** A 1931 Ahrens-Fox 750-g.p.m. triple combination pumping engine with a 60 gallon booster tank, 150 feet of booster hose, 1,000 feet of 2½-inch hose, 2 short ladders, and fair minor equipment. A 1916 White horse car carrying 600 feet of 2½-inch hose, a turret nozzle, foam generator, and fair minor equipment. **Engine Company No. 3:** Located on Union Avenue at Wells Place. Building is a 2-story brick structure with concrete apparatus floor, slate roof, hose tower, steam heat, electric lights, visual indicator, gong, tape register, tower bell, and direct telephone to police desk. **Equipment:** A 1936 Ward La France 600-g.p.m. triple combination pumping engine with a

150-gallon booster tank, 100 feet of booster hose, 1,000 feet of 2½-inch hose, 2 short ladders, and fair minor equipment. **Hose Company No. 4:** Located with Truck Company No. 1 in headquarters on Ames Avenue. **Equipment:** A 1927 Ahrens-Fox 1,000-g.p.m. triple combination pumping engine carrying a 60-gallon booster tank, 200 feet of booster hose, 800 feet of 2½-inch hose, 2 short ladders, and fair minor equipment. **Hose:** All 2½-inch hose is C.K.L. with National Standard screw couplings. It is shifted in part at fires and drills, and dried in hose towers. It is not subject to regular tests. About 50% is over five years old and the total supply of reserve hose is limited to 950 feet. **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. Three drivers are appointed for each company. **Drills and Training:** Company drills are held monthly under supervision of company officers, and chief officers supervise semi-annual department drills. Drills consist of hose laying, pump operation, ladder work, and use of minor equipment. **Fire Methods:** Booster lines are used on small fires supported by hydrant and engine lines with shut-off nozzles. Six all-service gas masks are distributed through the companies. Salvage equipment is limited to 3 salvage covers and 6 squeegees. A ladder pipe, 2 distributor nozzles, 1 siamese, and 1 turret nozzle are provided. **Response to Alarms:** All companies respond to all alarms except that Company No. 2 does not respond in the extreme southern portion of the borough, and Company No. 3 does not answer alarms in the northern corner of the borough unless specifically called. Outside aid may be secured from East Rutherford, Lyndhurst, and Passaic. **Building Inspection:** Quarterly inspections are made of schools, public buildings, and mercantile establishments by a fire prevention bureau which is composed of members of the fire department appointed by the mayor. **Records and Reports:** Fairly complete records are kept by each company. In addition the fire prevention bureau keeps complete records of all fires and makes an annual report to the borough. **Fire Alarms:** The fire alarm system is under the supervision of a full-time superintendent who has held present position for 17 years and maintains system. One repair truck is provided. Fire alarm headquarters is located in a small 1-story cement block building with concrete roof and floor and wired glass windows in metal frames in the rear of Engine Company No. 2 on Park Avenue. Headquarters apparatus consists of a Gamewell slate operating board, repeater, and current supply. Current is provided by a rectifier and 114 Gamewell cells mounted on glass rods on porcelain knobs on wood racks. A motor generator set and carbon arc charger are held in reserve. System consists of 1 alarm and 3 box circuits, 2 of which carry 15 boxes and 1 carries 17. Boxes are of Gamewell make of non-interfering succession type. They are mounted on utility company poles with red and white bands and blue indicating lights. There are 47 boxes, 3 tower bells, 4 visual indicators, 4 tape registers, 16 gongs, and a breakwheel transmitter. Circuits total 26 miles and are of No. 10 hard drawn copper, triple braided, weatherproofed wire carried on utility company poles above telephone and below power wires. Records are incomplete. Alarm circuit is tested twice daily. Each box is tested monthly. Telephone alarms are received at police desk where there is 24-hour duty. They are sounded by means of breakwheel transmitter located at the police desk. In addition a Klaxon and visual indicator are located at the Flintkote plant where alarms are sounded on manually operated steam whistle.

**POLICE DEPARTMENT:** Consists of a chief, captain, 3 sergeants, and 9 men who operate in three shifts. Headquarters is in municipal building at Park and Donaldson Avenues. Two patrol cars equipped with three-way radios, and one ambulance are provided. There are direct private telephone lines to each of three fire houses and 2 trunk lines to telephone central exchange. A man is dispatched to all fires.

**BUILDING LAWS:** Code adopted May 18th, 1926 establishes fire limits and prohibits combustible roof covering therein. Code is patterned after the Code of Suggested Ordinances for Small Municipalities recommended by the National Board of Fire Underwriters, but is not so comprehensive, and omits a number of important features. A full-time building inspector is employed with office in municipal building.

**FIRE PREVENTION LAWS:** A fire prevention ordinance adopted November 4th, 1936 provides for a fire prevention bureau with a chief inspector and members chosen from membership of the fire department and appointed by the mayor for one-year terms. Ordinance requires that inspections be made 4 times a year in closely built sections of the borough and twice a year in outlying portions. It provides for enforcement and penalties and calls for an annual report to be made to the borough committee. Ordinance has some good features in regard to explosives and flammable materials and hazardous processes, but is not specific, and much is left to the judgment of the fire prevention bureau members. A heating system ordinance adopted July 7th, 1936 has good provisions covering the installation of heating systems and oil burning equipment. 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 July 16th, 1931.