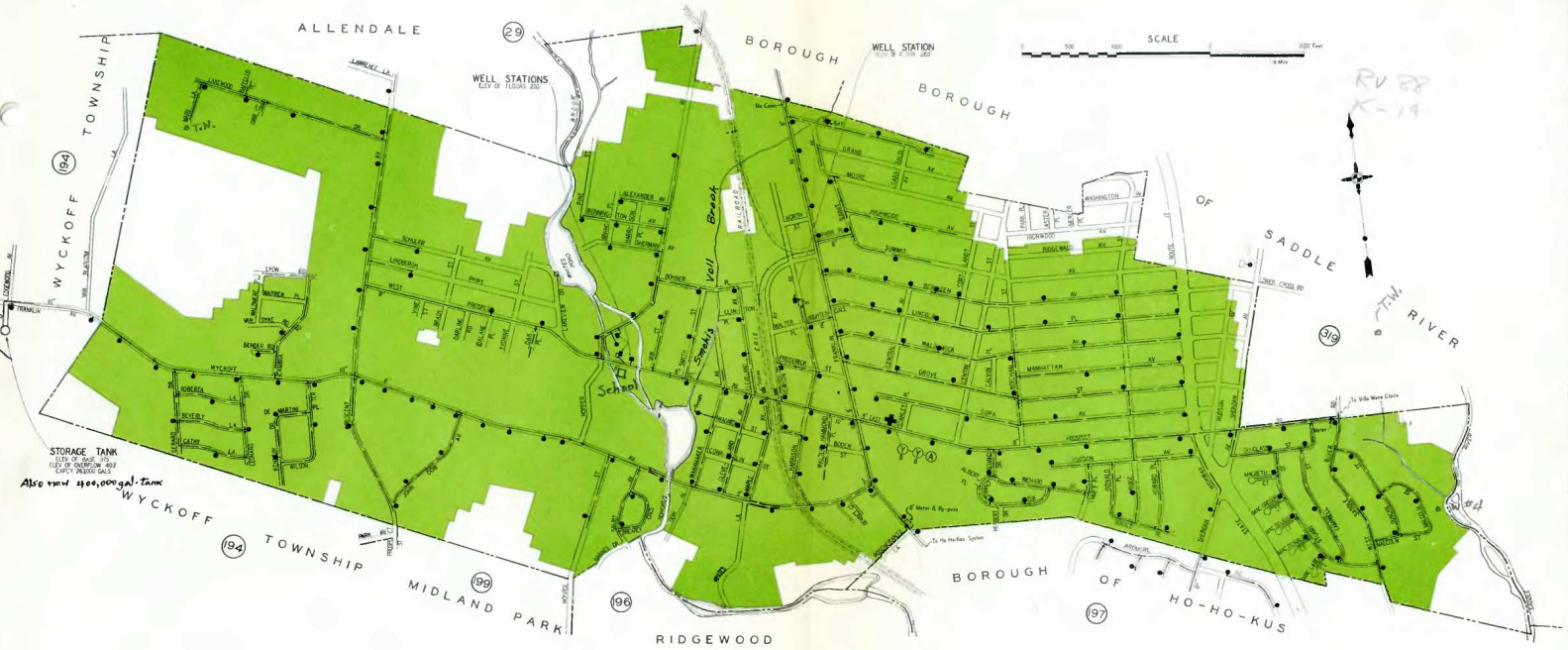


Superseding Map No. 276 of March 31, 1947. Please destroy old issue.



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 170 to 240 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:
- ① Pumping engine and hose car
 - Ⓐ Ambulance, Squad or Auxiliary car
 - ⊕ Booster tank or tanks on above

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

Waldwick Borough
Bergen County, New Jersey

FEBRUARY 29, 1952

March 31, 1947.

WALDWICK BOROUGH, BERGEN COUNTY, NEW JERSEY.

Population—1940 Census—2,475.

IN GENERAL: Located on the main line of the Erie Railroad about 24 miles north of Jersey City. It is a developing residential community with one textile mill normally employing about 240. Area is about 2.4 square miles. Elevations range from 120 to 350 feet. Main thoroughfares are macadam or concrete in good condition. There are no unusual features which should impede the response of fire apparatus except that access to the area west of the railroad is limited to one overhead railroad crossing south of the business district.

WATER SUPPLY: The Borough of Waldwick owns and operates the supply works, distribution system, and appurtenances, supplies water for domestic and fire protection purposes to the borough, and sells water at wholesale to Ho-Ho-Kus and to the Convent Villa Marie Claire located in adjoining Saddle River Borough. The system is under the control of the mayor and council and is in charge of a superintendent of public works appointed for an indefinite term at the pleasure of the governing body. The superintendent has one assistant, and the tax collector, with office in the municipal building, serves as water clerk. The superintendent has had little water works experience and performs all duties with laborers as needed. A consulting engineer is retained. A small truck is provided and there is a yard and shop at the former pumping station at Prospect and Hopper Avenues. Superintendent proceeds to the pumping station on receipt of alarms of fire. Records are limited to an incomplete distribution map and meter readings. **Supply Works:** Built in 1924 and subsequently altered and improved. Water is obtained from two 8-inch driven wells about 365 feet deep which discharge directly to the distribution system with the storage tank in adjoining Wyckoff acting as an equalizer. **Well No. 1:** Located immediately east of the former pumping station in a small one-story stone structure with concrete floor and roof, steel sash, wood door and access door, but no heat, lights, nor hand protection. Housekeeping is good and exposure from the former pumping station is mild. **Equipment:** A 325-g.p.m. Cook deep well pump driven by a 30-h.p. U. S. electric motor. **Well No. 2:** Located on Prospect Avenue east of the former pumping station in a small 1-story concrete block building with concrete floor, composition roof, wood sash and door, but no heat, lights, nor hand protection. Exposures are negligible and housekeeping is good. **Equipment:** A 300-g.p.m. American deep well pump driven by a 30-h.p. U. S. electric motor. **Distribution System:** In one service consisting of an 8-inch and 10-inch artery supplying the eastern half of the bor-

ough, and 8-inch and 10-inch artery to the storage tank, and with 6-inch mains with numerous dead ends. **Storage Tank:** Located south of Wyckoff Avenue in Wyckoff Township west of the borough limits. It is steel, 40 feet in diameter by 28 feet high with a capacity of 35,000 gallons. Elevation of base about 375 feet. Elevation of overflow about 403 feet. **Consumption:** Complete consumption records are lacking. It is estimated that the average daily pumpage is 300,000 gallons, of which 72.6% is consumed by the borough, 25.0% is sold to Ho-Ho-Kus Borough, and about 1.8% is sold to the Villa Marie Claire. The maximum daily pumpage is estimated to be about 340,000 gallons. At time of inspection there were 720 live services in the borough, all of which were metered. **Pipe:** All pipe is cast iron, tar coated, with 4-foot cover. The original installation, consisting of about 60% of the total pipe, is Universal joint, and the balance is bell and spigot joint. Total length 71,750 feet; 7.4% 10-inch, 19.9% 8-inch, 70.8% 6-inch, and 1.9% 4-inch. No trouble was reported from frozen mains or electrolysis. **Gate Valves:** There are 84 in the borough of Darling and Wood makes with valve boxes at or near grade. Direction of operation is uniform and valves are inspected semi-annually. **Hydrants:** There are 131 in the borough of Darling, Ludlow, and Wood makes of standard type. About 68% of the hydrants have two 2½-inch outlets and the balance have either three 2½-inch outlets or two 2½-inch and one 4½-inch outlets. All hydrant outlets have National Standard threads. Branches are 4-inch or 6-inch and practically all are gated. Hydrants are inspected semi-annually and at time of tests those operated were found to be in fair to good condition. **Pressures:** Readings taken at 7 well distributed locations with the well pumps in operation showed pressures ranging from 60 to 97 pounds with an average of 76 pounds. Readings taken at the same locations with pumps not in operation and system supplied by gravity from the storage tank showed pressures ranging from 40 to 79 pounds with an average of 56 pounds. There is no recording gauge on the system, but a direct reading gauge in the former pumping station at about elevation 204 feet showed pressures of 70 pounds with storage tank about seven-eighths full. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on October 31, 1946 by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow, and pressure during flow were as follows:

Grove and Ridge Sts., 530—78—28.

Prospect Ave. and Saddle River Rd., 630—97—34.

WALDWICK BOROUGH, BERGEN COUNTY, NEW JERSEY.

Continued.

Prospect and Harrison Aves., *—60—*.

Prospect and Harrison Aves., 670—40—5.

Franklin Turnpike 380 ft. S. of Mackay Ave.,
540—59—39.

Hopper and Alexander Aves., 440—65—35.

John Dow Ave. 300 ft. N/E of Crescent Ave.,
620—52—27.

Crescent Ave. 600 ft. S. of Allendale Borough
Line, 520—43—18.

*No readings taken.

Note: All but first three tests were conducted with pump not in operation.

FIRE DEPARTMENT: A volunteer organization of one company under the control of the borough, which owns building, apparatus, and equipment and appropriated \$1,750 for the support of the department during 1946. Total active membership 40, of whom a minimum of about 10 are available at all times. Officers include a chief, 2 assistant chiefs, 2 captains, and 2 lieutenants. Officers are elected annually by the company subject to confirmation by the mayor and council. **Company:** Located in non-communicating section of the borough hall on Prospect Avenue east of Franklin Avenue. Building is a 2-story brick structure with composition roof, concrete apparatus floor, electric lights, telephone, and steam heat. **Equipment:** One 1928 American La France 1,000-g.p.m. triple combination pumping engine carrying one 80-gallon booster tank, 200 feet of booster hose, 1,150 feet of 2½-inch hose, 850 feet of 1½-inch hose, 2 short ladders, 2 salvage covers, and fair minor equipment. One G.M.C. hose car carrying 650 feet of 2½-inch hose, 2 short ladders, and poor minor equipment. **Hose:** All 2½-inch hose is C.R.L. with National Standard screw couplings. Hose is shifted semi-annually and tested annually at 180 pounds. Of the total of 2,050 feet about 80% is over 5 years old and 250 feet is held in reserve. No drying facilities are provided. **Operations:** Department is governed by municipal ordinances and company by-laws. Chief has control of men, apparatus, and equipment at fires and drills. Motors are started weekly and at least six men are trained to drive and operate the apparatus. **Drills and Training:** Company drills are held weekly during the summer months under the direction of the chief officers. They consist of hose laying, pump operation, some ladder work, and use of minor equipment. **Fire Methods:** Booster lines are used on incipient fires reinforced by hydrant or engine lines with shut-off nozzles. Apparatus carries 4 gas masks and 2 salvage covers, but no heavy stream appliances are provided. **Response to Alarms:** Both

pieces of apparatus respond to all alarms within the borough and outside aid may be secured from Ho-Ho-Kus, Saddle River, Allendale, and Ridgewood. **Building Inspection:** No inspections are made by the fire department. **Records and Reports:** Records consist primarily of attendance tabulations; no regular reports are made to the mayor and council. **Fire Alarms:** The system consists of a closed power circuit about 1.3 miles in length carrying 2 grounded Gamewell non-interfering succession type boxes mounted on pedestals at Prospect and Franklin Avenues and at Manhattan Avenue and Ridge Road. One 26-wheel transmitter located in ex-chief's home on Wyckoff Avenue. One push button in town center, one code key in fire house, and two 2-h p. electric coded sirens, one located on 45-foot steel tower at rear of fire station, and one located on tower at Prospect and Hopper Avenues. Headquarters in apparatus room of fire station. System is maintained under the chief officers by a local electrician. Circuit consists of No. 10 B & S triple braid, weatherproof, hard drawn copper wire carried on utility company poles below high tension wires. Current is supplied by the Public Service and is used as delivered at 220 volts. Circuit is fused and wiring and lead-in is in conduit, protected with lightning arresters. System is tested nightly by push button operating siren. Telephone alarms are sent over a party wire to ex-chief's home or to fire station. Telephone exchange is in a joisted brick building in Allendale.

POLICE DEPARTMENT: Consists of 1 chief and 15 marshals subject to call. No vehicles provided by the borough.

BUILDING LAWS: Code adopted in May, 1924 provides for the annual appointment of a building inspector and requires permits for building operations. It embodies some provisions as to chimneys and heating hazards, but is much less comprehensive than the code recommended by the National Board of Fire Underwriters. Fire limits are not established and combustible roofs are not restricted.

FIRE PREVENTION LAWS: No regulations except zoning ordinance which limits the location of industrial establishments and requires that public garages and cleaning establishments be of fireproof construction. 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 February 21, 1936.