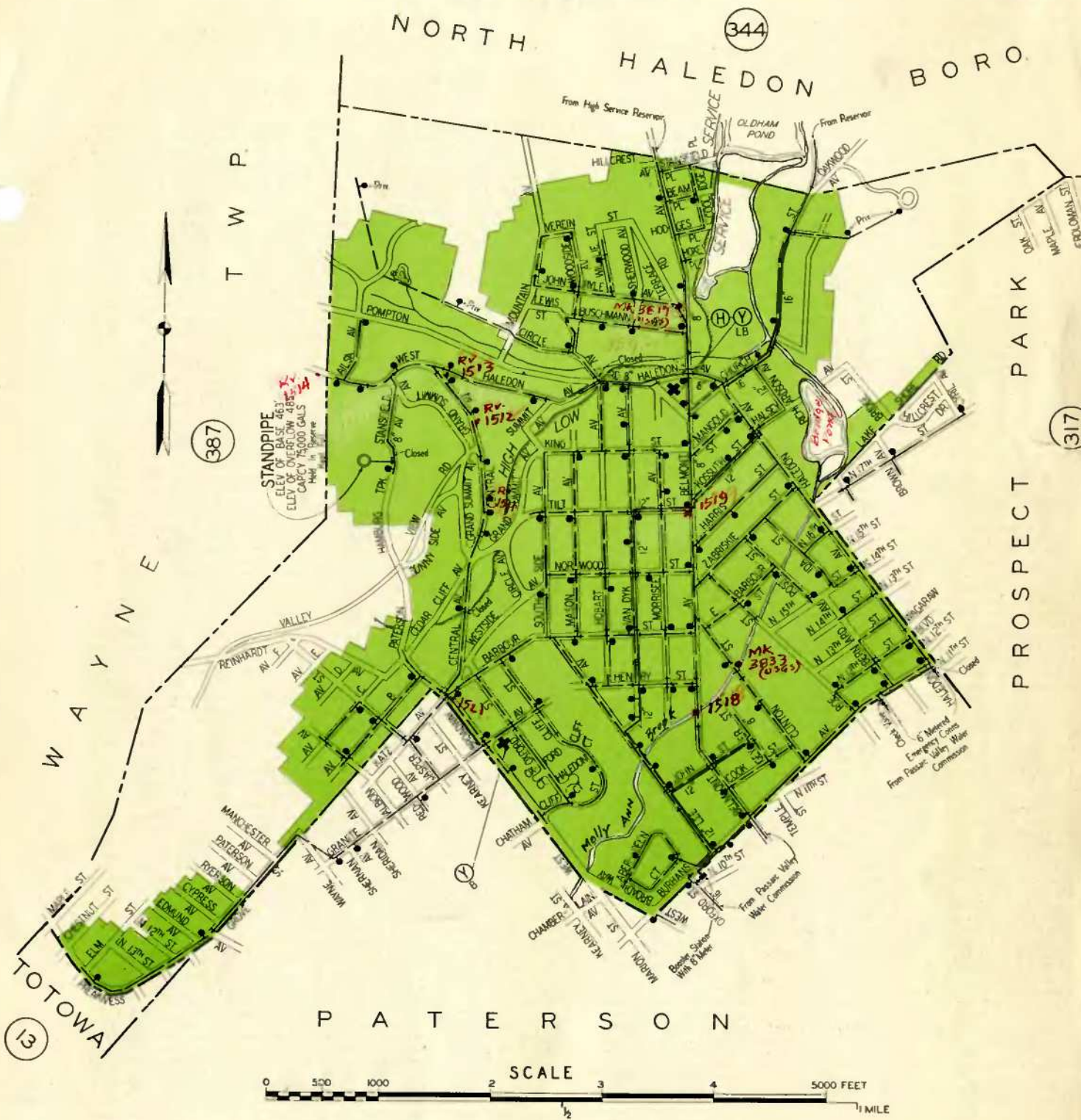


Superseding Map No. 261 as of July 15, 1937. Please destroy old issue.

261



KEY

PROTECTED FIRE ZONE: Shown in Green.

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

Elevations range from 140 to 623 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:

Fire apparatus designated by symbols thus:

- (Y) Pumping engine and hose car
- (H) Hose car
- (B) Booster tank or tanks on above
- (L) Ladders on above

Schedule Rating Office of New Jersey
ENGINEERING DEPARTMENT
NEWARK, N. J.

Haledon Borough
Passaic County, New Jersey

MAY 31, 1944

HALEDON BOROUGH, PASSAIC COUNTY, NEW JERSEY.

Population — Census of 1940 was 5,303.

IN GENERAL: Located north of and adjoining the City of Paterson. Stations on the D., L. & W. R. R. and Erie R. R. are located about 1½ miles distant. It is a residential and manufacturing community with about 10 silk mills and related industries employing about 1,500. Area about 1.3 square miles. Elevations range from 140 to 623 feet. Streets are mainly improved and in fair to good condition. No railroad crossings, but traffic congestion and severe grades to the north and west could effect delays in the response and operation of the fire department.

WATER SUPPLY: The Borough of Haledon owns and operates the local supply works, distribution system, and appurtenances, supplying water for domestic and fire protection purposes to Haledon and North Haledon. A supplementary supply obtained from the Passaic Valley Water Commission through the Paterson distribution system is in constant use to offset a deficiency in the local supply works. **Organization:** The system is under the control of a borough council committee and in charge of an annually appointed superintendent who exercises general supervision and serves as filter plant operator, with one foreman serving as assistant superintendent in charge of the distribution system. A small truck with emergency equipment is provided and additional trucks are available from other municipal departments. The superintendent responds to building fires prepared to render emergency aid. Some supplies are on hand at the filter plant. Records consist primarily of a distribution map, which is incomplete as to details and is not constantly kept up to date, and fairly complete operating records. **Haledon Supply Works:** Built in 1906. The local supply is obtained from a storage reservoir on Oldham Brook in North Haledon about 2 miles north of the borough limits. The supply from the reservoir is treated and filtered and discharged to a clear water basin, whence it flows by gravity to the low service or is pumped to the high service reservoir and thence to the high service distribution system. **Reservoir:** Formed by substantial earth dam with rip rap and adequate spillway construction at about elevation 408. Area of reservoir about 90 acres, supplied by springs, and a drainage area of about 16 square miles with storage capacity of about 225 million gallons. Average and minimum daily supply is estimated to be 15 and 0.80 million gallons, respectively. **Filter Plant:** Located below dam as shown on North Haledon Map No. 344. Building is a masonry and frame structure with composition covered wood roof, steam heat, and electric lights. Exposure is mild. Hydrant and hose within 50 feet. Filter equipment consists of one 5-unit rapid sand filter rated at 1.67 million gallons and capable of 25% overload for short periods. Coagulating basin consists of 2 concrete units, one 25 x 50 x 14 feet, and one 25 x 50 x 12 feet with respective capacities of 130,000 and 110,000 gallons. The clear water basin is concrete, 40 x 60 x 8.5 feet with a capacity of 160,000 gallons. **High Service Pumping Station:** Located adjoining the filter house and consists of segregated reinforced concrete extension with openings to the outside only. **Equipment:** Two 325-g.p.m. at 215 feet DeLaval Tandem single stage centrifugal pumps each driven by a Fairbanks Morse electric motor. Elevation of pump room floor about 315 feet. **Passaic Valley Water Commission—Booster Pumping Station:** Located on Oxford Street at Burbans Avenue as shown on map. Building is a small area one-story brick structure with slate covered wood roof, concrete floor, electric lights, and heat. Elevation of floor 170 feet. **Equipment:** Booster pumps are driven by independent electric motors, operated automatically, and consist of one DeLaval 450-g.p.m. at 110 feet centrifugal pump, one Warren 250-g.p.m. at 120 feet centrifugal pump, and one DeLaval 200-g.p.m. at 175 feet centrifugal pump. **Distribution System:** In two services consisting of an 8-inch high service supply main with 4- and 6-inch unsupported branches and a 16-inch low service transmission main supplying incomplete 4- and 6-inch gridiron and unsupported dead ends. The 16-inch transmission main connects with a 12-inch supply main from the Paterson distribution system furnishing an auxiliary supply through the booster station and 8-inch meter. In addition there are two 6-inch metered emergency connections to the Paterson low service. See map and description above. **High Service Reservoir:** Located in North Haledon 775 feet west of the filter plant as shown on North Haledon map. It is concrete, 125 x 30 x 12 feet, in 2 sections with a total capacity of 340,000 gallons. Elevation of bottom 580. Elevation of overflow 592 feet. **High Service Standpipe:** Held in reserve and full at time of inspection. Located on the west side of the Hamburg Turnpike south of Central Avenue as shown on map. It is steel, 24 feet in diameter by 22 feet high with a capacity of 56,000 gallons. Elevation of base 463 feet. Elevation of overflow 485 feet. **Consumption:** The average daily consumption in the entire territory served for the year ending March 31, 1944 was 0.804 million gallons, of which approximately 22½% was purchased from the Passaic Valley Water Commission through their booster station. The maximum daily consumption is estimated to be 1.2 million gallons. At time of inspection there were 1,631 services on the entire system, of which 1,270 are in Haledon. Services are about 95% metered. **Pipe:** All cast iron, tar coated bell and spigot joint except a small amount of Universal joint cast iron and about one mile of "Transite." Class 150, all laid with about 4-foot cover. No trouble from frozen mains or electrolysis. Total length, 89,025 feet; 2.3% 16-inch, 7.2% 12-inch, 6.7% 8-inch, 56.3% 6-inch, 27.5% 4-inch. **Gate Valves:** There are 204 on the system in Haledon mainly of Rensselaer make set with iron boxes at grade. Direction of operation uniform. No regular inspection. Fire Department is notified when valves affecting hydrant supply are operated. **Hydrants:** There are 109 on the system in Haledon mainly of Corey, Iowa, and Darling makes, of standard type. All have two 2½-inch outlets and about 95% have one 1½-inch outlet in addition. Branches are about 50% 4-inch and 50% 6-inch, about 90% of which are gated. The 2½-inch outlets are 3 inches outside diameter with 8 threads per inch. The large outlets are 4½ inches outside diameter with 6 threads per inch. Hydrants are inspected twice annually and were found to be in fair condition at time of inspection. **Pressures:** A pressure recording gauge in the water department office at about elevation 130 shows pressures to be well maintained at about 85 pounds. Readings taken at 6 well distributed hydrants showed pressures ranging from 45 to 94 pounds on the low service and from 70 to 110 pounds on the high service, with an average of 83.16 pounds over the entire system. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on April 11th, 1944 by means of Pitot tube. Location of hydrant discharge in gallons per minute pressure before flow, and pressure during flow were as follows:

Low Service —
Belmont Ave. and Henry St., 1,050—94—42

Haledon and Burbans Aves., 770—88—32.
Paterson-Hamburg Tpk. and Granite Ave., 340—92—40
Preakness Ave. S/E of Elm St., 200—45—*

High Service —
John Ryle and Woodside Aves., 490—110—25.
Paterson-Hamburg Tpk. east of Allis Ave., 365—70—8
*No reading taken

FIRE DEPARTMENT: Volunteer organization of 2 companies under the control of the borough which owns equipment and Company No. 1 quarters, and appropriated \$4,310 for the support of the department during 1944. Total active membership 64 including 10 active exempt members. Officers including a chief and assistant chief, and in each company 3 captains and 3 lieutenants, are elected annually and confirmed by the borough council. The chief officers usually serve 2 consecutive terms. A minimum of 20 members are available at all times. **Companies—Company No. 1:** Active membership 32. Located on Pompton Road near Belmont Avenue as shown on map. Building is a 2-story brick and frame structure with metal covered wood roof, concrete apparatus floor, steam heat, electric lights, and telephone. **Equipment:** One 1930 Ahrens-Fox 750-g.p.m. quadruple combination pumping engine and a 35-foot city service ladder truck carrying one 80-gallon booster tank, 200 feet of booster hose, 900 feet of 2½-inch hose, ladders ranging from 12 to 35 feet, totaling 156 feet, and fairly complete minor equipment. One 1938 Diamond T hose car carrying 1,200 feet of 2½-inch hose and a small amount of minor equipment. **Company No. 2:** Active membership 32. Located on Granite Avenue at the Hamburg Turnpike as shown on map. Apparatus is housed in a communicating section of a one-story frame community house with composition roof, concrete apparatus floor, steam heat, electric lights, and telephone. **Equipment:** One 1928 Seagrave 750 g.p.m. triple combination pumping engine carrying one 80-gallon booster tank, 150 feet of booster hose, 950 feet of 2½-inch hose, 2 short ladders, and some minor equipment. **Additional Equipment:** One O.C.D. standard 500-g.p.m. trailer carrying 800 feet of 1½-inch hose and standard minor equipment is housed at Company No. 1. One O.C.D. 500-g.p.m. skid type pump mounted on a 1941 G.M.C. truck chassis carrying 700 feet of 2½-inch hose, 500 feet of 1½-inch hose and some minor equipment is housed at Company No. 2. **Hose:** All 2½-inch hose is C.R.L. with screw couplings, 3 inches outside diameter and 8 threads per inch. There is a total supply of 2,800 feet not including 800 feet of O.C.D. hose at Company No. 2. Of the total supply of department owned hose, 50% is more than 5 years old and 20% is more than 7 years old. Hose is tested at 125-150 pounds hydrant pressure and is re-packed in part at drills. No satisfactory drying facilities. **Operations:** Department is governed by municipal ordinance and company by-laws. Motors are started at least weekly and 8 men are designated as drivers in each company. **Drills and Training:** Department drills are held 6 to 8 times each year and additional company drills are held occasionally under the direction of the chief officers. They consist of pump operation, hose and ladder work, and use of equipment. **Fire Methods:** Hand extinguishers and booster lines are used on incipient fires supported by engine streams with shut-off nozzles. Salvage covers, heavy stream appliances, and flood light equipment are lacking. **Response to Alarms:** The entire department responds to all borough alarms except that company assignments are made for brush fires and small fires of known nature and extent. Substantial outside aid may be secured from the Paterson paid department, and from the surrounding volunteer departments at North Haledon, Prospect Park, Wayne Township, and Hawthorne. **Building Inspection:** The chief officers make an annual inspection of schools and manufacturing establishments and investigate hazardous conditions upon the receipt of complaints. Inspections of stores are not regularly made and adequate local fire protection regulations are lacking. **Records and Reports:** Records consist primarily of fire reports including attendance, nature and extent of fire, and equipment used. Chief makes an annual report to the borough council. **Fire Alarm System:** The system is maintained by a competent part time superintendent who is a utility company linesman. System consists of one 3-loop box circuit of about 10 miles carrying 34 street boxes, 2 diaphone whistles at fire stations, 5 distributed tappers, and a transmitter in the superintendent's home. Wire is No. 8 hard drawn copper, triple braided, weatherproof, with special rubber covering through trees, carried on utility company poles below power circuits. Current is supplied by a rectifier with 13 battery cells floating. Batteries, on iron rack, and charging board are located in small brick building to the rear of Fire Station No. 1. No recording instruments are provided in fire stations. Boxes are of non-interfering, non-succession type except that 13 are of interfering type. They are mounted on banded utility company poles, shells are grounded, and leads are in well supported conduit. Battery and rectifiers carry 3-ampere fuses, but lightning arresters and other circuit protection is inadequate. The circuit is tested daily and boxes are tested and serviced annually. Records are incomplete. Telephone alarms are transmitted through the Paterson Central Office to the superintendent's home where a break wheel transmitter is operated.

POLICE DEPARTMENT: Consists of a chief, one lieutenant and one patrolman working on 8-hour shifts. A radio-equipped patrol car is provided.

BUILDING LAWS: Code adopted February 27th, 1928 provides for the appointment of a building inspector and building committee and requires the filing of plans and specifications and receipt of permits for building operations. It embodies some requirements regarding foundation walls, wall thickness, chimneys, and fire stopping, but aside from these features it is of little value from a fire protection standpoint. No fire limits are established. Combustible roofs are prohibited. At time of inspection copies of the code were not available for general distribution.

EXPLOSIVES AND FLAMMABLES: Local regulations are limited to an ordinance adopted June 14th, 1937 which authorizes inspections, requires permits for bonfires and limits the accumulation of hazardous materials. In general local regulations are not sufficiently comprehensive from a fire protection standpoint. The 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 May 5th, 1924 and subsequently amended.