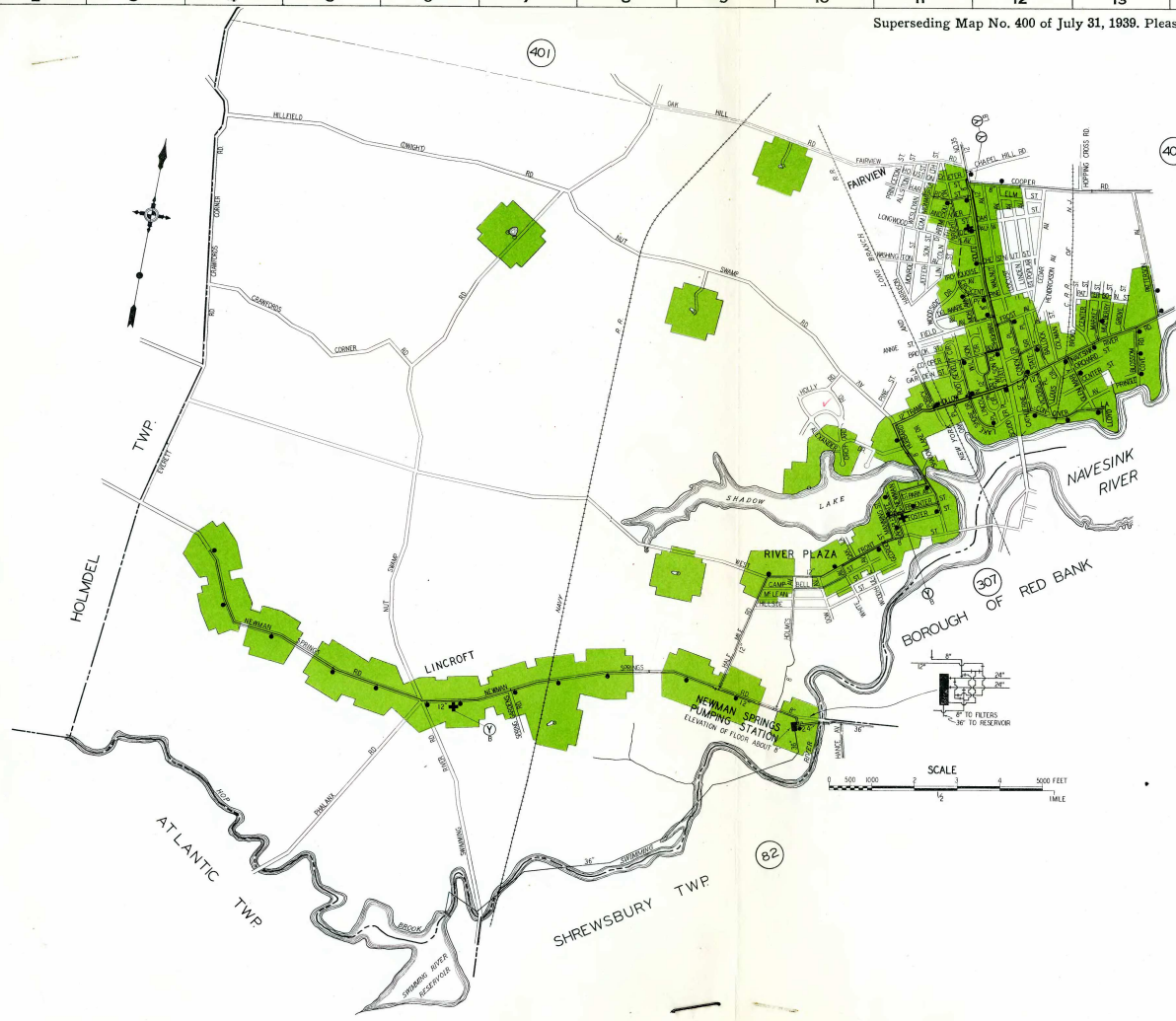


Superseding Map No. 400 of July 31, 1939. Please destroy old issue.



KEY

PROTECTED FIRE ZONE: Shown in Green.

Neighborhoods shown in this map are in Engineering Department of F.I.R.O. of N. J.

Elevations range from 0 to 265 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

Cole valves shown thus

Fire house shown thus

Fire apparatus designated by symbols thus:

① Pumping engine and hose car

Q Booster tank or tanks on above

Q Ladders on above

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

Middletown Township
Including River Plaza, Lincroft and
Fairview Sections
Monmouth County, New Jersey

JULY 31, 1952

July 31, 1939.

MIDDLETOWN TOWNSHIP, MONMOUTH COUNTY, NEW JERSEY.

Including River Plaza, Lincroft and Fairview Sections.

(REPORT INCLUDES ENTIRE TOWNSHIP.)

Population—Census of 1930 was 9,209.

IN GENERAL: Located between Sandy Hook Bay and the North Shrewsbury River, north of Red Bank on the New York and Long Branch Railroad. Section along Sandy Hook Bay consists of mostly low value summer resorts. Section along North Shrewsbury River consists of high value summer residences with many large estates. Remainder of township consists of large estates and farms. Area 38.2 square miles. Elevations range from 0 to 265 feet. Main roads concrete, others gravel and macadam in fair to poor condition. There are no conditions which might interfere with the response of fire apparatus.

WATER SUPPLY: Water for domestic and fire protection purposes is furnished by the Monmouth Consolidated Water Company, a subsidiary of the American Water Works and Electric Company (for complete information on supply works and distribution system, see report with Map No. 78) and by the Ideal Beach Water Company, a subsidiary of the Delaware Valley Utilities Company. **Ideal Beach Water Company:** Company supplies a small section of the township adjacent to the Borough of Keansburg and known as East Keansburg. System is under the supervision of an superintendent who performs all duties with such assistance as is needed. Office and shop located at pumping station. Truck provided. Records consist of a wall map showing location of valves and hydrants. **Supply Works:** Water is obtained by air lift from two 8-inch wells about 169 feet deep, yielding 90 g.p.m. each, and from one 12- to 4-inch turbine operated deep well 635 feet deep, yielding 300 g.p.m. Wells discharge to an aerator from which water flows by gravity into two concrete clear water basins of about 20,000 gallons capacity each. It is pumped from here through two American Water Softener pressure filters of about 300 g.p.m. capacity into the distribution system with elevated tank acting as equalizer. **Pumping Station:** Located on Port Monmouth Road as shown on map. Building is a 1-story tile stuccoed structure with a composition roof, cement floor, electric lights and coal stove for heat. No hand protection. Exposures negligible. Wiring in conduit. House-keeping fair. Elevation of pump room floor 5 feet. **Equipment—High Lift:** One 75-g.p.m. Gould triplex pump driven by a 15-h.p. Fairbanks-Morse electric motor. One 75-g.p.m. Gould triplex pump driven by a 10-h.p. Fairbanks-Morse electric motor which also can drive a 6x5 Ingersoll-Rand air compressor. One 6x5 Ingersoll-Rand air compressor driven by a 15-h.p. Fairbanks-Morse electric motor. **Low Lift:** One 8-inch Cook 6-stage deep well turbine driven by a 10-h.p. U. S. electric motor. **Distribution System:** In one service; see map. Supply to this section is through 6- and 8-inch mains poorly gridironed, with a few short dead ends supplying hydrants. **Elevated Tank:** Located as shown on map; steel on a 75-foot tower; elevation of base 5 feet; elevation of overflow 95 feet; 25x15, with a hemispherical bottom, capacity 75,000 gallons. **Consumption:** The average and maximum daily consumption during 1938 was 0.060 and 0.170 m.g.d. There are 75 permanent and about 725 summer services all of which are unmetered. **Pipe:** Cast iron, tar coated, bell and spigot joint, laid with about a 3-foot cover. Total length 33,100 feet; 14.35% 8-inch, 63.40% 6-inch, 22.25% 4-inch. No trouble from frozen mains or electrolysis. **Gate Valves:** 57 of Wood manufacture set with iron boxes to grade. Newer valves open to left and old ones to right. Inspected annually. No record of inspections. Fire department notified when valves affecting hydrant supply are operated. **Hydrants:** 29 of Wood manufacture with two 2½- and one 4½-inch outlets, 4-inch valve openings and 6-inch gated branches. Hydrants are inspected four times annually. Those operated during survey were found to be in good condition. **Pressures:** Readings taken at five hydrants widely distributed showed pressures ranging from 24 to 27.5 pounds with an average of 26 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on July 12, 1939 by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow

and pressure during flow were as follows:

Port Monmouth Rd. and Ocean Ave., 530—27—12.

Ideal Ave. and Atlantic Ave., 500—27.5—18.

Hudson Ave. and Sea Breeze Ave., 580—27—7.5.

South End Ave. and Bray Ave., 580—27.5—6.

Holmes Pl. and Morningside Ave., 375—24—6.

Monmouth Consolidated Water Company—Water Witch Park Booster Station: Located at Navesink and Van Kirk Avenues. Pumps are located below grade in a concrete pit. **Equipment:** Two 50-g.p.m. De Laval centrifugal pumps driven by two 5-h.p. G. E. electric motors. **Distribution System:** In two services; see map. Water Witch Park Section adjacent to the Borough of Highlands is supplied from the Water Witch Park Booster Station. Southwestern section of township is supplied by a 12-inch main from the Newman Springs Pumping Station along Newman Springs Road. The remainder of the township is supplied by two 12-inch mains from the Newman Springs Pumping Station, one along State Highway No. 35 and Tindall Road, and the other along Navesink River Road. These two mains are joined by an 8-inch main running along Valley Road. Arterial system generally fair; gridiron poor with numerous long 6-inch dead end mains supplying hydrants. **Consumption:** The average consumption in the entire territory served (20,000 services) was 5.23 m.g.d. On December 31, 1938 there were 2,028 services, of which 1,768 were metered. **Pipe:** Cast iron, tar coated, bell and spigot joint, laid with about a 3½- to 4-foot cover. Total length, exclusive of 18-, 24- and 36-inch transmission main, 235,416 feet; 3.3% 4-inch, 37.6% 6-inch, 29.1% 8-inch and 30.0% 12-inch. No trouble reported from frozen mains or electrolysis. **Gate Valves:** 180 on system mostly of Ludlow manufacture set in iron boxes to grade. All turn right to open. Inspected occasionally. Fire department notified when valves affecting hydrant supply are operated. **Hydrants:** 236 of Ludlow and Corey manufacture. Four have two 2½-inch outlets, 4-inch barrel and 4-inch branch. The remainder have two 2½-inch and one 4½-inch outlets, 6-inch barrel and 6-inch gated branches. Hydrants are inspected twice a year. Those operated during inspection were found to be in good condition. **Pressures:** Readings taken at 13 hydrants widely distributed showed pressures ranging from 41 to 95 pounds with an average of 78 pounds on the low service and from 65 to 75 pounds with an average of 70 pounds on the high service. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on March 3, 1939 by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow and pressure during flow were as follows:

High Service

Navesink Ave. E. of Van Kirk Ave., 650—65—54.

Low Service

Monmouth Rd. and Navesink Ave., 940—73—25.

Navesink River Rd. at Browns Dock Rd., 1,120—76—38.

North Ave. and Vanderbilt Ave., 820—95—23.

Main St. and Railroad (Belford), 690—90—20.

Port Monmouth Rd. at Main St. (Port Monmouth), 560—90—5.

Montana Ave. and Vermont Ave., 610—93—18.

Valley Dr. near Tindall Rd., 1,060—80—30.

Kings Highway W. of Church St., 560—41—2.

Highway No. 35 at Depauw St., 1,090—62—13.

Hubbard Ave. S. of Shadow Lake, 1,500—90—71.

Newman Springs Rd. and Swimming River Rd., 930—65—45.

FIRE DEPARTMENT: A volunteer organization of ten companies under partial control of township and under the supervision of chairman of fire committee of township

MIDDLETOWN TOWNSHIP, MONMOUTH COUNTY, NEW JERSEY.

Including River Plaza, Lincroft and Fairview Sections.

(REPORT INCLUDES ENTIRE TOWNSHIP.)

Continued.

committee. Companies own houses and equipment. Township appropriated \$1,250 for each of the ten companies in 1938. There is a chief and four assistant chiefs who are elected annually by the companies and confirmed by the township committee. Each company elects a foreman or captain and two assistants. Total active membership is approximately 300 divided into 10 companies, of which about 12 men are available during the day and 16 men during the night from each company. There are three fire police in each company. **Companies—Navesink Hook and Ladder Company No. 1:** Located on the north side of Monmouth Avenue at Jackson Avenue. Building is a 2-story tile and stucco structure with concrete apparatus floor, composition roof, steam heat, electric lights and siren. **Equipment:** A 1934 Seagrave 600-g.p.m. engine carrying an 80-gallon booster tank, 150 feet of booster hose, 1,050 feet of 2½-inch hose, 2 short ladders and fair minor equipment. A 1929 Brockway hose car carrying a 350-g.p.m. front mounted Darley pump, a 200-gallon booster tank, 150 feet of booster hose, 400 feet of 2½-inch hose, 200 feet of 1½-inch hose, 2 short ladders and fair minor equipment. **Brevent Park and Leonardo Fire Company:** Located on the south side of Center Avenue about 100 feet west of Brevent Avenue. Building is a 2-story cement block structure with a composition roof, concrete apparatus floor, hot water heat, electric lights and siren. **Equipment:** A 1922 Stutz 350-g.p.m. engine carrying a 40-gallon booster tank, 150 feet of booster hose, 300 feet of 2½-inch hose, 2 short ladders and some minor equipment. A 1936 Stutz 350-g.p.m. engine carrying a 275-gallon booster tank, 200 feet of booster hose, 300 feet of 1½-inch hose, 700 feet of 2½-inch hose, 2 short ladders and some minor equipment. **Belford Engine Company No. 1:** Located on the west side of Main Street about 50 feet south of railroad. Building is a 2-story tile and stucco structure with a composition roof, concrete apparatus floor, electric lights, gas heat, siren and telephone. **Equipment:** A 1927 Sanford 500-g.p.m. engine carrying a 150-gallon booster tank, 300 feet of booster hose, 1,000 feet of 2½-inch hose, 2 short ladders and fair minor equipment. **Leonardo Community Fire Company:** Located on the southwest corner of Appleton and Highlands Avenues. Building is a 2-story tile structure with a composition roof, concrete apparatus floor, steam heat, electric lights and siren. **Equipment:** A 1927 Sanford 500-g.p.m. engine carrying a 150-gallon booster tank, 300 feet of booster hose, 700 feet of 2½-inch hose, 2 short ladders and fair minor equipment. A 1933 Chevrolet hose car carrying 350 feet of 2½-inch hose and some minor equipment. **East Keansburg Fire Company No. 1:** Located on south side of Thompson Avenue about 150 feet west of Bray Avenue. Building is a 1-story concrete block structure with a composition roof, concrete apparatus floor, hot air heat, electric lights and siren. **Equipment:** A 1937 Buffalo 500-g.p.m. engine carrying a 300-gallon booster tank, 200 feet of booster hose, 500 feet of 2½-inch hose, 500 feet of 1½-inch hose, 2 short ladders and fair minor equipment. A 1927 400-g.p.m. American La France engine carrying an 80-gallon booster tank, 250 feet of booster hose, 500 feet of 2½-inch hose, 2 short ladders and fair minor equipment. **Port Monmouth Fire Company No. 1:** Located on Main Street at Wilson Avenue. Building is a 2-story hollow tile structure with composition roof, concrete apparatus floor, electric lights, steam heat and air whistle. **Equipment:** A 1926 Buffalo 500-g.p.m. 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. A 1921 Ford hose car carrying 500 feet of 1½-inch hose, 2 short ladders and some minor equipment. **Belford Independent Fire Company:** Located on the west side of Main Street about 300 feet south of Campbell Avenue. Building is a 1-story tile and frame structure with a composition roof, concrete apparatus floor, gas heat electric lights and siren. **Equipment:** A 1937 Diamond T 500-g.p.m. engine carrying a 150-gallon booster tank, 150 feet of booster hose, 850 feet

of 2½-inch hose, 2 short ladders and fair minor equipment. **Middletown Township Fire Company No. 1:** Located on State Highway No. 35 near Depauw Street. Building is a 2-story frame structure with a composition roof, concrete apparatus floor, electric lights, steam heat and siren. **Equipment:** A 1924 American La France 500-g.p.m. engine carrying 1,100 feet of 2½-inch hose, 2 short ladders and fair minor equipment. A 1937 American La France combination 500-g.p.m. engine and city service ladder truck carrying 6 ladders from 12 to 45 feet and totaling 160 feet, a 200-gallon booster tank, 300 feet of booster hose, 300 feet of 2½-inch hose and good minor equipment. **River Plaza Hose Company No. 1:** Located at the corner of Foster and Applegate Streets. Building is a 2-story frame structure with a composition roof, concrete apparatus floor, coal stove for heating, electric lights and siren. **Equipment:** A 1930 Ahrens-Fox 500-g.p.m. engine carrying a 100-gallon booster tank, 150 feet of booster hose, 900 feet of 2½-inch hose, 2 short ladders and fair minor equipment. **Lincroft Volunteer Fire Company:** Located on the south side of Newman Springs Road about a quarter of a mile east of Swimming River Road. Building is a 2-story cement block structure with a composition roof, concrete apparatus floor, steam heat, electric lights and siren. **Equipment:** A 1926 American La France Brockway 300-g.p.m. engine carrying an 80-gallon booster tank, 250 feet of booster hose, 240 feet of 1½-inch hose, 1,100 feet of 2½-inch hose, 2 short ladders and some minor equipment. **Hose:** All 2½-inch hose is C.R.L. with National Standard screw couplings. It is tested from 150 to 250 pounds about four times a year; dried on apparatus floor, shifted at fires and drills. Most of the hose is less than five years old. There is very little reserve hose. **Operations:** Department is governed by own by-laws and township ordinances. Chief has control of apparatus at all times and of men at fires and drills. Chief may not suspend, but may recommend that members be suspended by their own companies. Motors are started on an average of once a week. There are three engineers in each of the fire companies who do most of the driving. **Drills and Training:** Monthly drills under the supervision of the foreman of the individual company consist of hose laying, pump operation, ladder raising and use of equipment. The chief of the department holds 4 chief drills a year in which two or three companies participate. **Fire Methods:** Booster streams used on incipient fires reinforced with engine and hydrant lines with shut off nozzles. Engines usually hook up. No gas masks or salvage equipment in the department. **Response to Alarms:** Companies answer alarms in their respective districts. Outside aid may be secured from surrounding departments of Red Bank, Keansburg, Highlands and Atlantic Highlands under the Monmouth County cover-up system. **Building Inspection:** The chief makes an annual inspection of all schools. **Records and Reports:** Records are kept of all fires including time, location, amount of damage and equipment used, and monthly and annual reports are submitted to the chief. **Fire Alarms:** Alarms of fire are telephoned to the homes of firemen living in the vicinity of fire houses and are sounded either from their homes or from front of fire house on sirens or air whistles located on fire houses.

POLICE DEPARTMENT: Consists of a chief and two patrolmen working in ten-hour shifts. There is always one man on duty. Two radio cars and a motorcycle are provided.

BUILDING LAWS: No municipal regulations.

EXPLOSIVES AND FLAMMABLES: No municipal regulations. State laws adequately cover the storage and shipment of explosives and the construction of motion picture booths. They also restrict the use of fireworks to responsible bonded parties.

ZONING ORDINANCE: None.