



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

Netcong Borough
Morris County, N. J.

JANUARY 31, 1942

KEY
PROTECTED FIRE ZONE: Shown in Green
 Note.—For description of fire protection, etc., see other side.
 Elevations range from 859 to 1,080 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
 (O) Booster tank or tanks on above
 (O) Chemical tank or tanks on above

NETCONG BOROUGH, MORRIS COUNTY, NEW JERSEY.

Population—Census of 1940 was 2,157.

IN GENERAL: Located on the Delaware Lackawanna and Western Railroad and Lake Musconetcong 8 miles west of Dover. A residential community with 7 small industries employing about 164. Area 0.8 square miles. Elevations range from 859 to 1,080 feet. Main roads concrete, others gravel in fair to poor condition Railroad crossings at grade and traffic on main highway is said never to have interfered with the response of fire apparatus.

WATER SUPPLY: Water for domestic and fire protection purposes is furnished by the borough which owns supply works and distribution system and supplies water to the borough only. **Organization:** System is under the supervision of a board of water commissioners of three members, one of whom is appointed annually for a three-year term by the mayor. There is a superintendent who is appointed annually by the commission who maintains and operates system. Records are incomplete, but a distribution map with details gives some essential data as to location of mains, hydrants, and valves. This map has not been kept up to date. No truck provided. **Supply Works:** Water is obtained from two 6 inch wells 98 and 112 feet deep with capacities of 160 and 250 gallons per minute respectively. Wells discharge through a single 6-inch header to distribution system with reservoir acting as equalizer. **Pumping Station:** Located near State Highway Route No. 31 as shown on Roxbury Township Zone Map No. 392. **Station No. 1:** Building is a one-story small area frame structure with a composition roof, electric lights, and coal stove for heat. No hand protection. Exposures negligible. Wiring in conduit. Housekeeping fair. Elevation of pump room floor 1,050 feet. **Equipment:** A 160-g.p.m. Layne deep well turbine driven by a 15 hp Century electric motor. **Station No. 2:** Building is a one-story small area stone structure with a concrete roof, electric lights, and coal stove for heat. No hand protection. Exposures negligible. Wiring in conduit. Housekeeping fair. Elevation of pump room floor 1,050 feet. **Equipment:** A 250 g.p.m. Layne deep well turbine driven by a 15-h p. U. S. electric motor. There are 2 closed emergency connections to the Stanhope distribution system located as shown on map. **Distribution System:** In one service. See map. Supply to district is through a single 8 inch main from the reservoir. Arterial system is generally poor with numerous long unsupported dead end lines supplying hydrants. **Reservoir:** Located as shown on map near Church Street, concrete, 57 feet by 13 feet, capacity 325,000 gallons. Elevation of base about 955 feet. Elevation of overflow 968 feet. **Consumption:** There are no records of consumption. On December 31, 1941 there were 668 services of which about 10 were metered. **Pipe:** Cast iron, tar coated, bell and spigot joint and asbestos cement, laid with about a 4½ foot cover. Total length 34,000 feet, 56.8% 4-inch, 30.9% 6-inch, and 12.3% 8-inch. **Gate Valves:** There are 35 of Darling and Ludlow makes set with iron boxes to grade. Direction of operation is not uniform. Valves are reported as being operated and inspected twice a year. **Hydrants:** There are 53 of Ludlow, Darling and Glamorgan makes of standard type, 48 have two 2½-inch outlets while the remainder have one 2½ inch outlet. Hydrant hose outlet threads are National Standard. Hydrant branches are 4 inch, one of which is gated. Hydrants are inspected four times a year by fire department. Those operated during resurvey were found to be in very poor condition. **Pressures:** Readings taken at 7 hydrants widely distributed showed pressures ranging from 30 to 58 pounds with an average of 48 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on December 19, 1941 by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow, and pressure during flow were as follows:

Main St and Mechanic St., 540—54—16.
Lake St and Dell Ave., 170—55—8
Barone St and Route No. 6, 120—30—3.
Barone St and Union St., 170—40—*.

Barone St. S of West St., 270—43—*.
Furnace Ave and Route No 6, 360—58—16
Water St and Dell Ave., 220—55—6.

* No reading taken.

FIRE DEPARTMENT: A volunteer organization of two companies under full control of the borough which appropriated \$1,000 for the support of the department in 1941. Department is under the supervision of chairman of fire committee of common council. Borough owns house, apparatus, and equipment. Total active membership 50 of whom about 12 are available during the day and 24 during the night. There are a chief and assistant chief who are elected annually by the companies and confirmed by the borough council, and 2 foremen and 2 assistant foremen who are elected annually by each company and not confirmed by borough council. **Companies—Hose Company No. 1:** Membership 30. Located in borough hall on Main Street north of Bank Street. Building is a two-story frame structure with a metal roof, concrete apparatus floor, electric lights, steam heat, telephone, and siren. **Equipment:** A 1918 American La France Brockway 350-g.p.m. triple combination pumping engine carrying a 40 gallon chemical tank, 150 feet of chemical hose, 150 feet of 2½-inch hose, 2 short ladders, and little minor equipment. A 1940 Mack 500 g.p.m. triple combination pumping engine carrying a 100 gallon booster tank, 150 feet of booster hose, 1,000 feet of 2½-inch hose, 2 short ladders and little minor equipment. **Hill Top Company No. 2:** Membership 20. Located on College Road near Allen Street. Building is a small one story frame structure strip shingle clad, with a composition roof, wood apparatus floor, electric lights, and no heat. **Equipment:** A 1930 Ford hose car carrying 350 feet of 2½-inch hose, 200 feet of 1½-inch hose, 1 short ladder, and little minor equipment. **Hose:** All 2½-inch hose is C.R.L. with National Standard screw couplings. Hose is tested monthly at 150 pounds, shifted at fires and drills, and dried on apparatus floor. There is a total supply of 1,500 feet of 2½-inch hose none of which is held in reserve or is over five years old. **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. He may suspend members pending a hearing before company. Motors are started daily. There are 12 members of the department who are assigned to drive apparatus. **Drills and Training:** Drills held weekly in the summer months under the supervision of chief officers consist of hydrant testing, hose laying, pump operation, and use of equipment. **Fire Methods:** Booster and chemical streams used on incipient fires reinforced by hydrant and engine lines with shut-off nozzles. Two gas masks are carried, but no salvage covers or heavy stream appliances are provided. **Response to Alarms:** Entire department responds to all alarms in borough. Aid may be secured from Stanhope, Roxbury Township, and Mt. Olive Township. **Building Inspection:** The chief makes an inspection 6 times a year of all schools, factories, public buildings, and theatres. **Records and Reports:** Secretary of company keeps a complete record of all fires, consisting of attendance, location, time, and damage, and reports monthly to borough council. **Fire Alarms:** Alarms of fire are telephoned through the Netcong Exchange to borough hall where telephone sounds an outside alarm bell, or to homes of various firemen and are sounded on sirens at fire houses.

POLICE DEPARTMENT: Consists of a chief and 2 specials. One car is provided.

BUILDING LAWS: No municipal regulations.

EXPLOSIVES AND FLAMMABLES: No municipal regulations. 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.