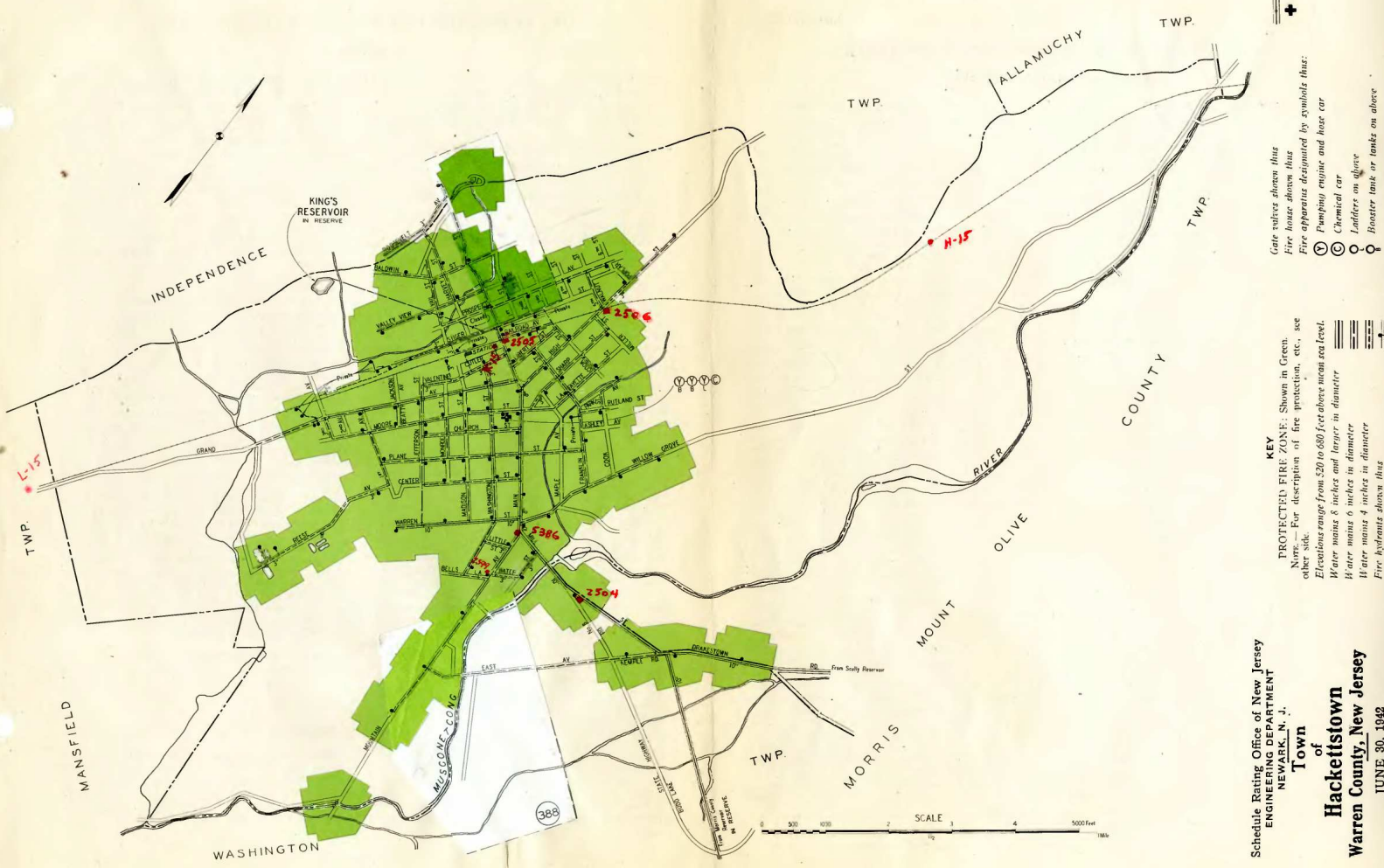


Superseding Map No. 241 of March 31, 1930. Please destroy old issue.



**KEY**

**PROTECTED FIRE ZONE:** Shown in Green.

**N.B.** — For description of fire protection, etc., see other side.

**Elevation range from 520 to 680 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 denominated by symbols thus:**

- ⊕ Pumping engine and hose car
- ⊙ Chemical car
- ⊖ Ladder on floor
- ⊗ Booster tank or tanks on above

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

**Town**  
**Hackettstown**  
**Warren County, New Jersey**

JUNE 30, 1942

## TOWN OF HACKETTSTOWN, WARREN COUNTY, NEW JERSEY.

Population — Census of 1940 was 3,289.

**IN GENERAL:** Located on the D., L. & W. R. R. about 23 miles northeast of Phillipsburg. It is a residential community with an extensive business district for the surrounding agricultural area and 7 industrial plants normally employing about 400, which employment has been substantially increased under present emergency conditions. Total area about 4.0 square miles. Area of built-up portion about 2 square miles. Elevations range from 520 to 680 feet. Main thoroughfares concrete and other roads are mainly improved and in fair to good condition. Railroad crossings at grade are such that response to the northerly residential section could be delayed and congestion and parked vehicles in the business district could delay the operations of the fire department.

**WATER SUPPLY:** The Town of Hackettstown owns and operates the supply works and distribution system supplying water for domestic and fire protection purposes to Hackettstown proper and small sections of Independence Township and Mount Olive Township in the adjoining County of Morris. **Organization:** The water department is under the control of a Board of Water Commissioners and in charge of an annually appointed superintendent who is a former building contractor who has served since 1935. Organization includes the secretary of the board and 2 regular employees. Repairs and extensions are made under the direction of the superintendent with laborers as needed. Office and supply yard at town center. One heavy truck and general maintenance truck provided. Records as to distribution system and operating details are lacking. The superintendent responds to fire alarms only on call. **Supply Works:** Supply is normally obtained by gravity from impounding reservoirs on Mine Hill Brook with two additional small reservoirs normally held in reserve. Area of water shed on Mine Hill Brook about 1.82 square miles. Minimum flow is estimated to be 0.50 m.g.d. **Scully Reservoir:** Located on Mine Hill Brook with spillway elevation 820 about  $1\frac{3}{4}$  miles easterly of the town center. The reservoir is formed by a masonry dam with concrete spillway and has a capacity of 9,000,000 gallons. **New Reservoir:** Located above the Scully Reservoir with spillway elevation 965. It is formed by a concrete dam about 200 feet in length and about 45 feet high in center with a full capacity of 22,218,000 gallons, which can be increased by the installation of flashboards. Supply from this reservoir is lowered through two 18-inch control valves as needed in the Scully Reservoir whence the supply is delivered by a 10-inch main to the distribution system. **Reserve Reservoirs—Morris County Reservoir:** Located in Mount Olive Township, Morris County about one mile southwest of the Scully Reservoir. It is supplied by a

watershed of 0.85 square miles and has a capacity of 1.8 million gallons and is formed by an earth fill and concrete spillway. Supply from this reservoir is delivered when needed through a 10-inch supply line and by reason of its elevation, is available only to the lower portion of the town. **Park Reservoir:** Located at about elevation 680 about  $\frac{1}{2}$ -mile west of the town center with a capacity of about 40,000 gallons, supplied by springs and tapped by a 4-inch line to supply the higher portion of the town in emergency. **Distribution System:** Normally in one service consisting primarily of an 8-inch artery in the main street extending from the 10-inch supply main and connecting with 3-, 4-, and 6-inch incomplete gridiron and dead ends. See map and description above. In emergency the system is segregated north of the railroad tracks and supplied from the Morris County and Park Reservoirs for short periods. **Consumption:** The average and maximum daily consumption for the twelve-month period ending March 31, 1942 was about 460,000 and 700,000 gallons. At time of inspection there were about 750 services, of which 85 large services are metered. **Pipe:** All cast iron, tar coated, bell and spigot and Universal joint, laid with a minimum cover of about  $3\frac{1}{2}$  feet. Some trouble from frozen mains in the northerly section of the town. No trouble reported from electrolysis. Total length, excluding the 10-inch supply mains outside of the town limits, 67,200 ft.; 3.7% 10-inch, 3.1% 8-inch, 30.0% 6-inch, 53.8% 4-inch, 9.4% 3-inch. **Gate Valves:** There are 85 on the system within the town limits of various makes. Important control valves are set in manholes or with boxes at or near grade. Other valve locations are not definitely known in some instances. Direction of operation is non-uniform and records are incomplete as to operation. No regular inspection except as necessitated by system maintenance. **Hydrants:** There are 85 on the system within the town limits mainly of Corey, Mathews, and Darling makes of standard type with 4-inch branches, about 75% of which are ungated. Some non-standard hydrants are of William Stevens make with enclosed operating nuts. All hydrants have one or two  $2\frac{1}{2}$ -inch outlets with National Standard threads. Hydrants are inspected and operated twice annually and were found to be in fair condition at time of inspection. Direction of operation of hydrants is not uniform. **Pressures:** No recording gauge is on the system, but a direct reading gauge is located in town center. Readings taken at 8 well distributed hydrants showed pressures ranging from 70 to 100 pounds with an average of 87.6 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow, and pressure during flow were as follows:

# TOWN OF HACKETTSTOWN, WARREN COUNTY, NEW JERSEY.

## Continued.

April 24, 1942—

- Main and Moore Sts., 800—90—28.
- Park Ave., N. of Cook St., 205—100—\*.
- Willow Grove St., 800 ft. N. of Cook St., 238—97—\*.
- High and 6th Sts., 50—80—\*.
- Prospect Ave. and 6th St., 205—72—\*.
- Grand and Third Aves., 545—93—20.
- Main St. and Baldwin Ave., 530—85—20.

\*No reading taken.

May 14, 1942—

- Church and Jefferson Sts., 480—84—31.

**FIRE DEPARTMENT:** A volunteer organization of two companies under the control of the town which owns apparatus, fire equipment, and quarters and makes an annual appropriation for the support of the department. Total active membership about 53 including a chief and assistant chief and 2 foremen in each of the two companies, of whom a minimum of about 20 members are available at all times. Officers are elected annually by the company and chief usually serves two consecutive terms. Election of officers is confirmed by the town council. **Companies:** Housed in town hall on Moore Street. Building is a 2-story joisted brick structure with wood floors, composition roof, steam heat, and electric lights. **Cataract Hose Company:** Total active membership 33 with a minimum of 12 members available at all times. **Equipment:** One 1931 Seagrave 750-g.p.m. triple combination pumping engine carrying one 150-gallon booster tank, 1,200 feet of 2½-inch hose, 150 feet of booster hose, 2 short ladders, and some minor equipment. One 1940 Ward La France 500-g.p.m. triple combination pumping engine carrying one 200-gallon booster tank, 800 feet of 2½-inch hose, 400 feet of 1½-inch hose, 200 feet of booster hose, 2 short ladders, and some minor equipment. **Vigilant Hook and Ladder Company:** Total active membership 20, of whom a minimum of 8 members are available at all times. **Equipment:** One 1922 Reo combination pumping engine equipped with a 350-g.p.m. pump and carrying 7 ladders from 12 to 45 feet, totaling 161 feet, 500 feet of 2½-inch hose, and some minor equipment. This apparatus is in fair condition and has recently been reconditioned. One 1922 Reo chemical car carrying two 35-gallon chemical tanks, 200 feet of chemical hose, 2 short ladders, a box of sand, and some minor equipment. **Hose:** All 2½-inch hose is C.R.L. with National Standard screw couplings. A total supply of 2,500 feet is carried on the apparatus and about 250 feet is kept in reserve. Of the total supply about 2,000 feet is more than 5 years old. Hose is tested twice annually at about 100 pounds pressure and is shifted in part at drills or as used. No drying facilities provided. **Operations:** Department is governed by town ordinance and company by-laws, under the direction of the chief officers. Six operators are

assigned to each vehicle and motors are started three times each week. **Drills and Training:** Drills are held at least monthly under the direction of a chief officer. They consist primarily of pump operation, hose laying, and some ladder work. **Fire Methods:** Booster and chemical lines are used on incipient fires supported by 2½-inch hydrant or engine lines with shut-off nozzles. Two gas masks and 2 salvage covers are provided, but no heavy stream appliances are installed. **Response to Alarms:** Companies respond to all town alarms and one or two pieces of apparatus are assigned to outside calls. Aid may be secured from the surrounding volunteer departments and from the part-paid department at Dover at a distance of about 17 miles. **Building Inspection:** Some inspections of schools and public buildings are made by the chief officers but no suitable regulations for the enforcement of recommendations are provided. **Records and Reports:** Records consist primarily of fire reports including attendance and general information. **Fire Alarm System:** System is under the supervision of a part-time electrician who is employed out of town. System consists of a single Gamewell circuit with operating board in communicating room on apparatus floor and relays for whistle in the basement of the fire station. Circuit is about 7 miles long of No. 10 hard drawn copper wire weatherproofed, carried on utility company poles. Headquarters equipment consists of a Horni single circuit operating board with whistle operating relay, a punch register, and outside gong. Whistle is operated by air compressor and tanks in basement. Current is supplied by an oxide film rectifier with 12 cells floating. Inside wiring on operating board is well installed, but otherwise wiring is only fair to poor. Circuit protection consists of 12 block lightning arresters and 10-ampere fuses on the operating board. Fire alarm boxes include 19 Gamewell break glass interfering type, 6 of which are private boxes at industrial plants. Tests are limited to weekly box tests in rotation. Records are lacking. Telephone alarms are transmitted through a local central office, in a frame building in the business district, to a local garage whence they are sounded by means of a switch controlling air whistle at fire station.

**POLICE DEPARTMENT:** Consists of 3 uniformed officers and 6 special officers. One uniformed officer is on duty at all times. No municipally owned vehicles are provided, but officers have private cars.

**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.