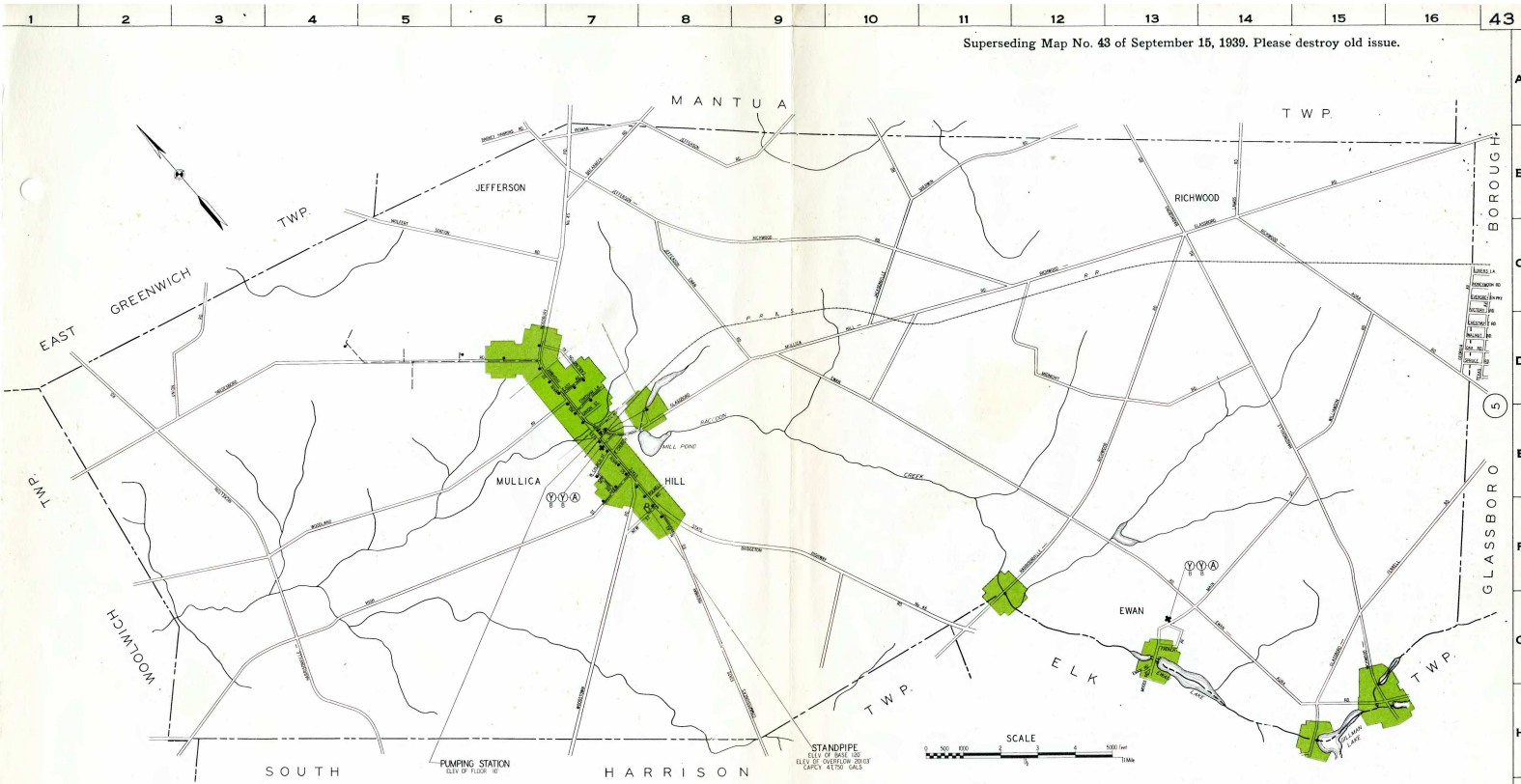


Superseding Map No. 43 of September 15, 1939. Please destroy old issue.



KEY
PROTECTED FIRE ZONE: Shown in Green.
Note.—For description of fire protection, etc., see other side.
 Elevations range from 10 to 120 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:
 (P) Pumping engine and hose car
 (A) Ambulance, Squad or Auxiliary car
 (B) Booster tank or tanks on above

THE FIRE INSURANCE RATING
 ORGANIZATION OF N. J.
 ENGINEERING DEPARTMENT
 NEWARK 2, N. J.
Harrison Township
 Including Ewan, Jefferson, Mullica Hill
 and Richwood
Gloucester County, New Jersey
 JUNE 30, 1950

June 30, 1950.

HARRISON TOWNSHIP, GLOUCESTER COUNTY, NEW JERSEY.

Including Ewan, Jefferson, Mullica Hill, and Richwood.

IN GENERAL: Located at the terminus of the Williams-town Branch of the Pennsylvania-Reading Seashore Railroad about 16 miles southwest of Camden. It is principally a farming and residential community covering an area of 19.18 square miles. Elevations range from 10 to 120 feet. Main thoroughfares are concrete or macadam in good condition. Secondary streets are gravel in fair condition. There are no conditions which should adversely affect the response and operation of the fire department.

WATER SUPPLY: The South Jersey Water Supply Company owns and operates supply works, distribution system and appurtenances, supplying water to Mullica Hill for domestic and fire protection purposes. The system was installed during 1900. **Organization:** It is limited to the owner, his immediate family and one employee responsible for maintenance and operation of the system with a local plumber who is hired as needed. No regular office or satisfactory emergency repair facilities. Records are very poor and incomplete. **Supply Works:** Water is obtained from two 6-inch wells about 263 feet deep with an estimated yield in excess of 57,600 gallons per day. Wells are operated under direct suction with pumps discharging directly to distribution system with a standpipe acting as an equalizer and providing some storage. **Pumping Station:** Located on Glassboro Road south of Union Street as shown on map. Building is a 1-story frame grist mill with metal covered roof and heating by stove; electric service in building. No hand protection installed. Exposure is moderate to severe from nearby frame areas. General condition and housekeeping very poor. Elevation of floor about 10. **Equipment:** One 1901 Hercules 20-h.p. vertical water turbine. One 1901 Hercules 25-h.p. vertical water turbine. One Smith Vaile triplex pump of about 350 g.p.m. rated capacity operated at about 100 r.p.m. One Deming triplex power pump of about 450 g.p.m. capacity operated at about 100 r.p.m. Pumps are normally operated from line shafting powered by water turbines and a Dodge gasoline engine is held in reserve and may be belt connected to shafting. This unit is started weekly. General condition of pumping equipment and appurtenances is unsatisfactory. **Distribution System:** In one service consisting of single unsupported 4-inch and 6-inch dead end lines. See map. **Standpipe:** Located near South Main Street and New Street as shown on map. Unit is steel, 10 feet in diameter by 18.3 feet in height with a capacity of 47,750 gallons. Elevation of base 120 feet. Elevation of overflow 201.3 feet. **Consumption:** No reliable records available as to the consumption. It is estimated that the average and maximum daily consumption is 0.04 and 0.06 million gallons respectively. On April 1, 1950 there were 264 services, of which 248 were metered. **Pipe:** All cast iron, tar coated, bell and spigot joint, laid with a 2½-foot cover, except that stream crossings are either laid on river bed or carried on bridges. Total length, 20,475 feet; 55% 4-inch and 45% 6-inch. Some freezing has been experienced during severe weather. No evidence of electrolysis. **Gate Valves:** There are 10 on the system set in iron boxes at grade. Direction of operation is not uniform. No regular inspection practice. **Hydrants:** There are 27 on the system of R. D. Wood make, all with two 2½-inch outlets, 4-inch valve openings, and 4-inch ungated branches. All outlets have National Standard threads. Hydrants are inspected twice annually by the water company and are flushed and operated occasionally by the fire department. **Pressures:** Recording gauge in pump house showed pressures ranging from 46 to 60 pounds. Readings taken at nine well distributed hydrants showed pressures ranging from 22 to 41 pounds with an average of 32 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on March 22, 1950 by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow, and pressure during flow were as follows:

Chatham Lane 475 ft. E. of Main St., 300—40—*.
East Ave. and Earlington Ave., 250—40—*.
Woodbury Ave. and Earlington Ave., 290—31—*.
Swedesboro Rd. 1,000 ft. N. W. of Main St., 220—41—*.
Eric and Church Sts., 120—22—*.
High St. 400 ft. W. of Eric St., 170—22—*.
High and Eric Sts., 220—22—*.
Main and High Sts., 460—29—10.
Private Rd. 450 ft. E. of Glassboro Rd., 220—40—*.

*No reading taken.

FIRE DEPARTMENT: A volunteer organization of two companies under partial control of the district fire commissioners. Companies own all apparatus and equipment and

the township appropriated \$1,650 for the support of the department during 1950. Total active membership 82, of whom 32 are available at all times. **Companies—Mullica Hill Fire Company:** Membership 45, which includes a chief, assistant chief, and foreman who are elected annually by the company with confirmation by the township committee. Located on South Main Street opposite Glassboro Road as shown on map. Building is a 1-story cinder block stuccoed structure with composition covered wood roof, steam heat, electric lights, siren, and pay station telephone. **Equipment:** One 1938 Howe-Diamond "T" 500-g.p.m. triple combination pumping engine carrying one 375-gallon booster tank, 150 feet of booster hose, 1,400 feet of 2½-inch hose, 300 feet of 1½-inch hose, 2 short ladders, and some minor equipment. One 1946 Buffalo 500-g.p.m. triple combination pumping engine carrying a 400-gallon booster tank, 600 feet of 1½-inch hose, 1,400 feet of 2½-inch hose, one 40-foot and one short ladder, 2 salvage covers, 2 gas masks, 1 inhalator, and fair minor equipment. One fairly well equipped Cadillac ambulance. **Ewan Fire Company:** Membership 37, including a chief and 3 assistant chiefs. Located on the north side of Main Street approximately 1,000 feet west of Ewan-Aura Road. Building is 1-story cement block with wood frame, built-up roof, cement floor, electric lights, stove, and no telephone. **Equipment:** One 1929 American-La France-G.M.C.-Northern 500-g.p.m. triple combination pumping engine carrying a 150-gallon booster tank, 150 feet of booster hose, 400 feet of 1½-inch hose, 1,000 feet of 2½-inch hose, 2 short ladders, and meager minor equipment. One 1929 Ford-Hale 350-g.p.m. triple combination pumping engine carrying a 500-gallon booster tank, 150 feet of booster hose, 400 feet of 1½-inch hose, 2 short ladders, and meager minor equipment. One 1934 International tank truck carrying a 1,450-gallon tank. **Hose:** All 2½-inch hose is C.R.L. with National Standard screw couplings. There is 600 feet of reserve hose and of the total supply about 1,700 feet is more than five years old. Hose is tested annually at 150 pounds. No adequate drying facilities provided. **Operations:** Department is governed by company by-laws. Chief officers have control of apparatus at all times and of men at fires and drills. Motors are started weekly and all members can operate equipment. **Drills and Training:** Company drills are held twice monthly and consist of pump operation and hose and ladder work. First aid instruction drills are held during winter months. **Fire Methods:** Booster lines are used on incipient fires supported by engine streams with shut-off nozzles or open play pipe. Two all service gas masks are provided, but no heavy stream appliances are installed. **Response to Alarms:** The company responds to all township alarms with all apparatus. Outside aid may be secured from volunteer departments at Swedesboro, Glassboro, Pitman, and Woodbury. **Building Inspection:** No routine inspections by the fire department. **Records and Reports:** Records consist chiefly of attendance tabulations and fire reports including nature of alarms, time, date, and location. Annual report is submitted to the township committee. **Fire Alarms:** Fire alarms are telephoned to various homes where siren control buttons are located, and siren may be operated from any of five push button boxes throughout the business area.

POLICE DEPARTMENT: Township police force is limited to one constable who performs all police duties together with members of the fire department who serve as fire police.

BUILDING LAWS: No local regulations. State laws provide some good regulations for construction of factories, tenement houses, and public schools, and fire protection and safety features for hotels.

FIRE PREVENTION LAWS: No municipal regulations. State laws adequately cover the manufacture, storage, and handling of explosives, and provide for regulations governing the intrastate transportation of explosives and flammable liquids. They also restrict the discharge of fireworks to responsible bonded parties and embody good requirements for motion picture booths and the hazard incident to the display of motion pictures, except that flammable film and portable booths are permitted for temporary exhibitions, and enclosures for projection equipment are not required in schools. The State Tenement House Act restricts keeping and handling of certain combustible materials in tenements.

ZONING ORDINANCE: None.