




KEY

PROTECTED FIRE ZONE: Shown in Green and Shaded.

Elevations range from 90 to 110 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: 

 Pumping engine and hose car

 Booster tank or tanks on above

Schedule Rating Office of New Jersey
 ENGINEERING DEPARTMENT
 NEWARK, N. J.
Marlton
 Evesham Township
 Burlington County, New Jersey

SEPTEMBER 15, 1943

MARLTON, EVESHAM TOWNSHIP, BURLINGTON COUNTY, NEW JERSEY.

Population—Township Census of 1940 was 1,655. Estimated Local Population—500.

IN GENERAL: Located on New Jersey State Highway Route No. 40 about 11 miles southeast of Camden. A residential and trading center for the surrounding agricultural section. Practically no manufacturing. Area about .5 square miles. Elevations range from 90 to 110 feet. Main thoroughfares concrete and macadam, others dirt in fair to poor condition. There are no conditions which would seriously affect the response of fire apparatus.

WATER SUPPLY: The Marlton Water Company owns the supply works and distribution system and supplies water for domestic and fire protection purposes to Marlton only. **Organization:** Includes a president, secretary, treasurer, and an engineer who is a part time employee. Taps, extensions, and repairs are made by a local plumber. Engineer lives adjacent to the pumping station. He is not always available during the day. He responds to station only on alarms of fire when he is in the vicinity. No appointed operator in charge of station during engineer's absence. No office, shop, or truck provided. Records incomplete. **Supply Works:** Water is obtained by air lift from two 4-inch wells 224 and 239 feet deep with an estimated safe yield of about .100 m.g.d. Wells discharge to a concrete receiving basin 24 feet in diameter by 12 feet deep, capacity about 40,680 gallons, whence it is pumped to the distribution system with a stand-pipe acting as an equalizer. **Pumping Station:** Located at the south end of Evesham Avenue as shown on map. Elevation of floor about 105. Building is a 1-story corrugated iron clad frame structure with concrete floor, hot air heat, and electric lights. Housekeeping is poor. No hand protection provided. Lubricating oil is kept in 5-gallon cans and station is exposed by a frame dwelling within 20 feet. There is a 15-gallon gasoline gravity tank connected to an Olds gasoline engine. The location of this tank severely exposes pumping equipment to fire. Wiring standard in conduit. There is a 1,000-gallon gasoline storage tank buried outside of the building. **Equipment:** One 175-g.p.m. Smith-Vaile triplex pump 6 x 8 inch, chain driven by a 20-h.p. G. E. induction motor. One 10 x 8 inch Ingersoll-Rand air compressor, belt driven by a 20-h.p. G. E. induction motor. In reserve there is a 50-h.p. Olds gasoline engine which can drive pump and compressor by belt in an emergency. This unit is started monthly. **Distribution System:** In one service with all hydrants, except 5 in center, on dead ends; see map. **Stand-pipe:** Located at pumping station at about elevation 105, steel, 12 x 55 feet, capacity 46,750 gallons. Elevation of overflow 159 feet 6 inches. **Consumption:** The average and maximum daily consumption during 1942 was 41,000 and 50,000 gallons. On December 31st, 1942 there were 123 services, only 12 of which were metered. **Pipe:** All cast iron, tar coated, bell and spigot joint, laid with about a 4-foot cover. No trouble reported from frozen mains or electrolysis. Total length, 11,300 feet, 67 1/2% 4-inch, 32 9/10% 6-inch. **Gate Valves:** There are 13 gate valves of Ludlow make on the system. All operate in the same direction and have valve boxes set to grade. They are said to be inspected annually. It is said that Fire Department is notified when valves operated affect hydrant supply. No records of inspections available. **Hydrants:** There are 24 hydrants of Ludlow make of standard type with two 2 1/2-inch outlets, 4-inch valves, and 4-inch un-gated branches. All hydrants are equipped with National Standard threads. Hydrants are inspected annually and at time of inspection they were found to be in fair condition. **Pressures:** A direct reading gauge in pumping station at about elevation 110 showed 26 pounds at the time of inspection. Readings taken at 5 widely distributed hydrants showed pressures ranging from 21 to 27 pounds with an average of 23 6 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on October 14th, 1925 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 Maple Ave., S. E. cor., 240—27—16.
Main St. and Maple Ave., N. W. cor., 320—23—10.
S. Maple Ave., 500 ft. N. of State Highway, 145—23—2.
S. Maple Ave., 400 ft. S. of Oak Lane, 205—21—7.
W. Main St. opp Blue Anchor Ave., 315—23—9.

FIRE DEPARTMENT: An independent volunteer organization of one company. Total membership consists of 21 active members, of whom a minimum of 12 are available at all times. Officers consisting of a chief and 3 assistant chiefs are elected annually without municipal confirmation. Company owns house, apparatus, and equipment. Municipality appropriated \$100 for part support of the department during 1943. Other expenses met entirely by contributions and proceeds from company affairs. **Company—Marlton Fire Company No. 1:** Located on East Main Street opposite Community Avenue. Building is a 2-story frame structure with slate roof, electric lights, hot air heat, and siren on roof. **Equipment:** One 1927 Hale 500-g.p.m. triple combination pumping engine carrying one 80-gallon booster tank, 350 feet of booster hose, 1,000 feet of 2 1/2-inch hose, 300 feet of 1 1/2-inch hose, a siamese, 2 shut-off nozzles, 2 short ladders, and fair minor equipment. One 1934 Chevrolet triple combination pumping engine equipped with a Barton front end mounted 300-g.p.m. pump, and carrying a 300-gallon booster tank, 150 feet of booster hose, 600 feet of 2 1/2-inch hose, 300 feet of 1 1/2-inch hose, 2 short ladders and one 38-foot ladder, 4 plaster hooks, 2 axes, 2 wye connections, 12 pails, 2 Indian pump tanks, 3 shut-off nozzles, a fog nozzle, and considerable minor equipment. **Hose:** All 2 1/2-inch hose is C.R.L. equipped with Jones snap couplings. Total hose supply 1,800 feet of 2 1/2-inch hose, of which 20% is more than 7 years old and 18% is new hose. Reserve hose totals 200 feet. It is wet and shifted only at fires and drills. No adequate drying facilities are provided. Hose is tested before acceptance at a pressure of 200 pounds and at drills at pump pressures. **Operations:** Department is governed by company by-laws. No municipal ordinance. Chief has control of apparatus at all times and of men at fires and drills. He can prefer charges to company. Motors are started occasionally and there are 8 appointed drivers. **Drills and Training:** Consist of pump operation and hose and ladder work. **Fire Methods:** Booster and 1 1/2-inch lines used on incipient fires supported by engine streams from hydrants. There is no salvage equipment or all-service mask provided. **Response to Alarms:** Company responds to alarms within township. Aid may be secured from Medford, Moorestown and Lumberton from 5 to 9 miles distant. **Building Inspection:** Fire chief is appointed building inspector, he investigates all complaints, inspects all new construction, and mercantile occupancies annually, and reports all hazards to township committee. **Records and Reports:** Records are fairly complete and annual reports are made to township committee, and monthly reports to County Firemen's Association. **Fire Alarms:** Alarms of fire are telephoned to chief's or members' places of business or their homes and sounded on the siren controlled by a push button at the fire house.

POLICE DEPARTMENT: Four residents are appointed special officers and are on call. No municipal vehicles are provided. New Jersey State Police Station at Berlin covers territory.

BUILDING LAWS: Code of Evesham Township is followed. Code has little value from a fire protection standpoint. No fire limits are established and flammable roof coverings are allowed throughout township.

EXPLOSIVES AND FLAMMABLES: No municipal ordinance. 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.