



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

Stewartville
Greenwich Township
Warren County, New Jersey

MAY 31, 1948

KEY
 PROTECTED FIRE ZONE: Shown in Green.
 NOTE.— For description of fire protection, etc., see other side.
 Elevations range from 260 to 431 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 

ELEVATED TANK
 ELEV. OF BASE 378'
 ELEV. OF OVERFLOW 524'
 CAPCY. 25000 GAL.S

WELL STATION
 ELEV. FLOOR 375'

May 31, 1948.

STEWARTSVILLE, GREENWICH TOWNSHIP, WARREN COUNTY, NEW JERSEY.

Population — 1940 Township Census — 1,125. Estimated Local Population — 700.

IN GENERAL: Located on the D., L. & W. R. R. about $4\frac{1}{2}$ miles east of Phillipsburg. It is a small rural community with no manufacturing. A number of residents commute to Phillipsburg. Area of mapped portion about 0.6 square mile. Elevations range from 260 to 431 feet. Roads are macadam or gravel in fair to good condition. Some steep grades and narrow roads could retard the response of fire apparatus.

WATER SUPPLY: Water for domestic and fire protection purposes is furnished to Stewartsville only by the Stewartsville Water Company which owns and operates the supply works and distribution system. **Organization:** Company is under the supervision of a superintendent who is appointed annually but who is one of the directors of the company and has served as superintendent since the company was formed in 1933 Superintendent visits pumping station daily and maintains hydrants and equipment. There are no extra supplies, and records are limited to an incomplete distribution map and daily record of the pump strokes. **Supply Works:** Built in 1933. Supply is obtained from one 12-inch well 250 feet deep with a normal yield of about 0.144 m.g.d. A deep well pump discharges to the distribution system with elevated tank acting as equalizer. **Well Station:** Located south of East Washington Street Building is a small 1-story frame structure with asbestos shingled roof, concrete floor, coal stove, and electric lights. No hand protection. Exposures are negligible Wiring is in conduit, and housekeeping is fair. Elevation of pump room floor 375 feet **Equipment:** One Keystone Driller Company "Downey" plunger pump operating at about 0.076 m.g.d. driven by a 5-h.p. Westinghouse electric motor. Pump is automatically controlled and operates on an 18-inch variation in tank level **Distribution System:** In one service consisting of a short 8-inch supply line with 3 unsupported 6-inch branches. See map. **Elevated Tank:** Located near well station as shown on map. Tank is steel with hemispherical bottom on a 131-foot steel tower. Riser has diameter of 4 feet and a capacity of 11,600 gallons. Elevation of base 379 feet Elevation of overflow 524 feet. Tank is 15 feet in diameter by 14 feet high with a capacity of 25,000 gallons. Total capacity is about 36,600 gallons. **Consumption:** Average daily consumption during 1947 was 0.039 million gallons. Maximum daily consumption is estimated to be about 0.058 million gallons. On December 31, 1947 there were 90 services, none of which was metered. **Pipe:** All pipe is cast iron, tar coated, bell and spigot joint, laid with about a 5-foot cover. Total length, 4,050 feet; 33.3% 8-inch and 66.7% 6-inch. No trouble was reported from frozen mains or electrolysis. **Gate Valves:** There are 9 on the system of R. D. Wood make set with valve boxes at grade. Direction of operation is uniform, but there are no valve inspections made. **Hydrants:** There are 10 on the system of Mathews make of standard type; 6 have two 2½-inch outlets and 4 have one 4½-inch and two 2½-inch outlets Hose outlets are fitted with adapters having 3¾ inches outside diameter with 6 threads per inch. Hydrants have 6-inch branches which are gated in all instances. Hydrants are said to be inspected two or three times annually by the fire department. At the time of inspection those operated were found to be in only fair condition. **Pressures:** Direct reading gauge in well station at about elevation 378 feet showed a pressure of 66 pounds. Readings taken at 3 well distributed hydrants showed pressures ranging from 87 to 95 pounds with an average of 90 pounds **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on April 1, 1948 by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow, and pressure during flow were as follows:

E. Washington St. 200 ft. N. of Main St., 1,680—89—60.
N. Main St. 250 ft. W. of Washington St., 960—87—72
S. Main St., 1,075 ft. E. of Washington St., 1,400—95—*.

*No reading taken.

FIRE DEPARTMENT: A volunteer organization of one independent company not under the control of the township Company owns house, apparatus, and equipment and receives about \$750 annually from the township. Total active membership 24, of whom a minimum of about 8 are available at all times. Officers include a chief, assistant chief, foreman, and assistant foreman who are elected annually by the company. **Stewartsville Volunteer Fire Company:** Located on East Washington Street east of Main Street in a 1-story concrete block and frame former public garage with metal on wood roof, concrete apparatus floor, electric lights, and siren, but no telephone Building is unheated at present, but it is expected that a hot air heater will be installed shortly. **Equipment:** A 1939 Hahn 350-g.p.m. triple combination pumping engine carrying a 250-gallon booster tank, 150 feet of booster hose, 1,200 feet of 2½-inch hose, 400 feet of 1½-inch hose, 2 short ladders, 2 all-purpose gas masks, and meager minor equipment. **Hose:** All 2½-inch hose is C.R.L. with screw couplings having an outside diameter of 3¾ inches with 6 threads per inch It is shifted and tested semi-annually at about 200 pounds pressure and dried when possible on apparatus floor. About 150 feet is over five years old, and there is no reserve hose. **Operations:** Department is governed by company by-laws. Chief has control of apparatus at all times and of men at fires and drills Motor is started semi-weekly and there are 4 appointed drivers, although in the absence of drivers any member may drive apparatus and operate pump. **Drills and Training:** Drills are not held regularly throughout the year, although monthly drills are held during summer months and consist of pumping from draft, laying hose, and some instruction in use of minor equipment **Fire Methods:** Booster lines or 1½-inch lines are used on incipient fires backed up by 2½-inch hydrant or engine streams with shut-off nozzles. Two all-purpose gas masks are provided, but department is lacking in heavy stream appliances and salvage equipment. **Response to Alarms:** Company responds to all alarms within the vicinity of Stewartsville and outside aid may be secured from Phillipsburg, Alpha, and Bloomsbury at distances of from three to four miles. **Building Inspection:** None. **Records and Reports:** Company keeps a record of all fires and drills, but records are incomplete and consist primarily of attendance data No regular report is made by the chief. **Fire Alarms:** Alarms of fire are telephoned through the manual telephone exchange located in Easton, Pennsylvania to the nearby residence of the former owner of the fire house Alarms are sounded on siren by means of switch at the above mentioned residence, or by a switch located in front of the fire house.

POLICE DEPARTMENT: None.

BUILDING LAWS: None.

FIRE PREVENTION LAWS: No municipal regulations. State laws adequately cover the storage and shipment of explosives, the transportation of flammables, and the construction of motion picture booths. They also restrict the discharge of fireworks to responsible bonded parties.

ZONING ORDINANCE: None.