

June 30, 1939.

CALIFON BOROUGH, HUNTERDON COUNTY, NEW JERSEY.

Population—Census of 1930 was 534.

IN GENERAL: Located on the High Bridge Branch of the Central Railroad of New Jersey about 15 miles northwest of Somerville. It is a residential and agricultural community with two small basket factories, a creamery and a feed mill normally employing about 65. Area about three-fourths of a square mile. Elevations range from 440 to 800 feet. Main thoroughfares are macadam in good condition; other streets are gravel in fair condition with severe grades to the south. A narrow main street and parked vehicles in the business area could adversely affect the operations of the fire department.

WATER SUPPLY: The Califon Water Company owns and operates supply works, distribution system and appurtenances supplying water for domestic and fire protection purposes to territory within the municipal limits. System is in charge of a local superintendent, and a local plumber with laborers, as needed, makes repairs and extensions. The superintendent and plumber are both members of the fire department and the plumber has a small truck and some emergency equipment. Office at superintendent's place of business in the business area. Records are limited to some general construction data. **Supply Works:** The supply is obtained from a small concrete spring-fed reservoir located on hill above business area at about elevation 740. Reservoir is approximately 50.25 feet by 76.25 feet with an average depth of 3.6 feet, with a total capacity of approximately 100,000 gallons. From reservoir water flows by gravity to a small distribution system through an 8-inch supply line. Springs are located on a drainage area of about 1.0 square mile and yield is not definitely known, but is assumed to be in excess of 50,000 gallons per day. **Distribution System:** In one service consisting of a single 8-inch supply main with short 4- and 6-inch dead end branches; see map. **Consumption:** No reliable data available as to the average and maximum daily consumption, but these figures are estimated to be 20,000 and 30,000 gallons per day respectively. At time of inspection on March 16, 1939, there were 110 services, none of which are metered. **Pipe:** All cast iron, Universal joint, 150 pounds class, laid with a minimum cover of 2 feet, 8 inches. No trouble reported from frozen mains or electrolysis. Total length 5,340 feet; 35.6% 8-inch, 54.9% 6-inch, 9.5% 4-inch. **Gate Valves:** There are 9 on the system of Eddy make set with valve boxes at grade. Direction of operation is uniform. Inspection is limited to that necessitated by routine system operation. **Hydrants:** There are 12 public hydrants on the system within the municipal limits. Hydrants are of Eddy make and 10 are 6-inch with two 2½-inch and one 4½-inch outlets and 6-inch gated branches. Two are 4-inch with one or two 2½-inch outlets. No regular inspection practice established, but it is said that they will be inspected twice annually. **Pressures:** No recording or direct reading gauges on the system. Readings taken at 5 well distributed hydrants showed pressures ranging from 26 to 53 pounds with an average of 41.8 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on March 16, 1939, 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., at Railroad, 810—48—34.

Pershing St., S. E. of School St., 394—26—*.

Academy St., S. of R. R., 580—40—*.

Philhower Ave. and Squirrel St., 445—42—*.

* No reading taken.

FIRE DEPARTMENT: Volunteer organization of one company under the partial control of the borough which appropriated \$50 for the support of the department during 1939. Total active membership 30, of whom a minimum of 15 are available at all times. Officers including a chief and assistant chief are elected annually by the company and confirmed by the mayor and council. Company owns apparatus and equipment and rents quarters. **Califon Fire Company:** Located in congested section of frame public garage building on Philhower Avenue, east of Main Street. Building is a 2½-story frame structure with concrete floor, slate roof, electric lights and hot water heat. Hot water boiler seriously exposes the apparatus and the general construction and occupancy of the building is such that it is unsuited for housing fire apparatus. **Equipment:** One 1938 Darley Chevrolet 500-g.p.m. triple combination pumping engine carrying one 300-gallon booster tank, 200 feet of booster hose, 1,100 feet of 2½-inch hose, 3 lengths of suction hose, 2 short ladders and some minor equipment. **Hose:** All 2½-inch hose is C.R.L. with National Standard screw couplings. There is no reserve hose. Hose is repacked and tested at normal pump operating pressures in part at drills. No hose drying facilities. About 50% of the supply is more than 5 years old. **Operations:** Department is governed by borough ordinance and company by-laws. The chief has control of apparatus at all times and of men at fires and drills. Motor is started weekly and 6 drivers and operators are appointed for the apparatus. **Drills and Training:** Company drills are held monthly in good weather under the direction of the chief officers. They consist of hose laying, pump operation and some ladder work. **Fire Methods:** Booster streams and hand chemical extinguishers are used on incipient fires supported by engine or hydrant streams with shut-off nozzles. No gas masks, salvage equipment or heavy stream appliances provided. **Response to Alarms:** Company responds to all borough alarms and to those in the surrounding Townships of Lebanon and Tewksbury. Aid may be secured from the volunteer departments in Washington Township and High Bridge. **Building Inspection:** No regular inspection by the fire department. **Records and Reports:** Records consist of nature of alarms, attendance and equipment used. Annual reports are made to the mayor and council. **Fire Alarms:** Telephoned through the local central office in a 2-story frame dwelling in the business district and sounded from there on an electric siren on tower nearby.

POLICE DEPARTMENT: Consists of one uniformed marshal on call. Officer uses his own vehicle.

BUILDING LAWS: No local regulations.

EXPLOSIVES AND FLAMMABLES: No regulations except that the state laws adequately cover the storage and shipment of explosives and regulate the construction of motion picture booths and restrict the discharge of fireworks to responsible bonded parties.