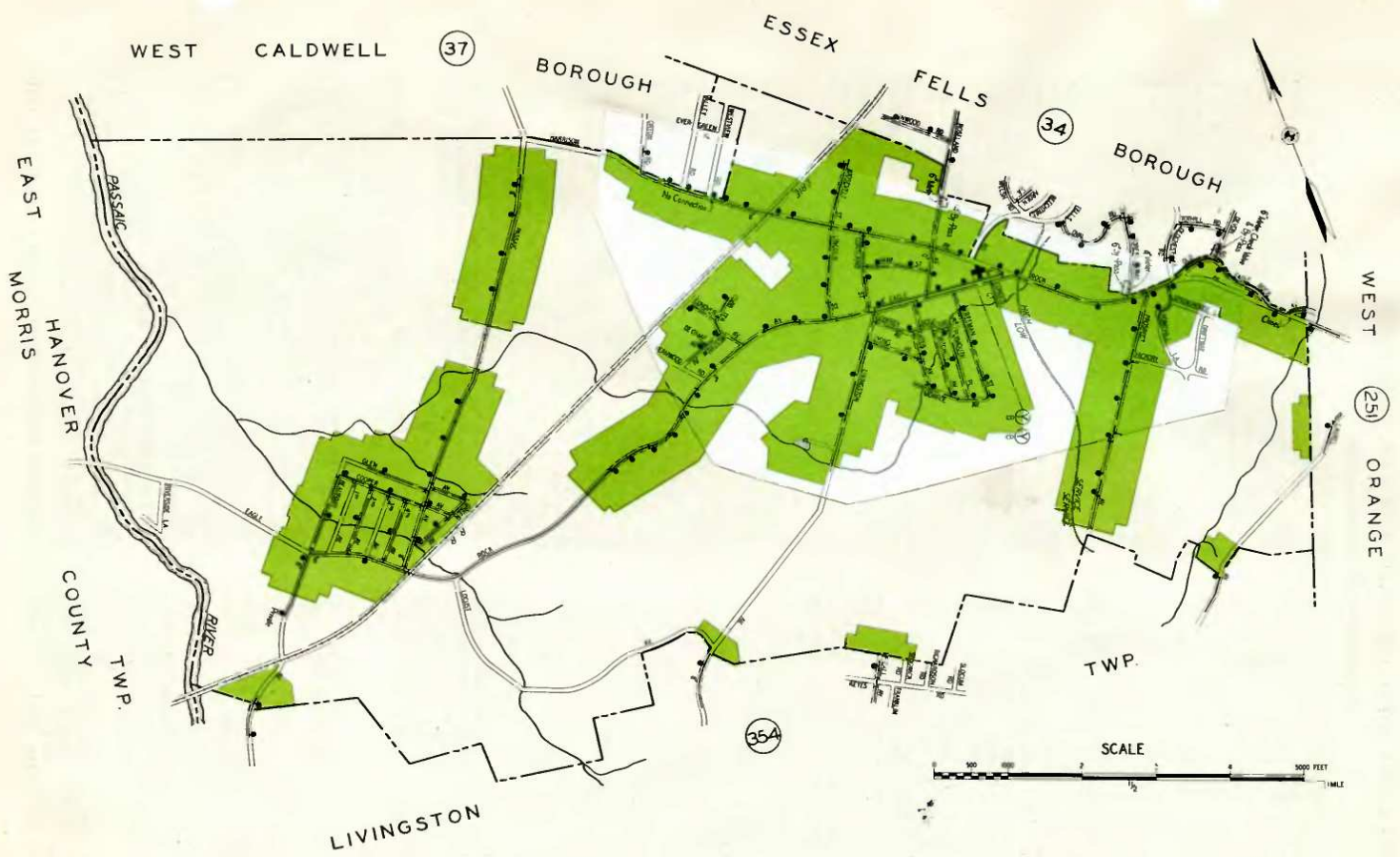


Superseding Map No. 338 of October 15, 1941. Please destroy old issue.



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

Roseland Borough
Essex County, New Jersey

DECEMBER 16, 1946

KEY
 PROTECTED FIRE ZONE: Shown in Green.
 NOTE.— For description of fire protection, etc., see other side.
 Elevations range from 170 to 544 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:
 (V) Pumping engine and hose car
 (O) Booster tank or tanks on above



ROSELAND BOROUGH, ESSEX COUNTY, NEW JERSEY.

Population — 1940 Census — 1,556.

IN GENERAL: Located in the westerly portion of the county on the Passaic River and Erie Railroad adjoining West Orange and Livingston. It is mainly a residential and farming community with 4 industries, including two dairies, normally employing 100. Area about 3.5 square miles. Elevations range from 170 to 544 feet. Main roads are improved with concrete or macadam, others being dirt or gravel in fair to poor condition. Steep grades and two railroad crossings are said not to interfere with the response of fire apparatus.

WATER SUPPLY: Borough owns and operates the distribution system which was installed in 1913 and subsequently improved. Water for domestic and fire protection purposes is purchased by contract from Essex Fells Borough through a 6-inch meter on the low service and 6-inch and 4-inch meters on the high service. For a detailed description of the supply works see report and map No. 440 on Water Supply of Essex Fells and Environs. The distribution system is under the control of the borough council and in charge of a borough plumber who maintains system, reads meters, and makes minor repairs. A small amount of supplies is situated at the shop which is located in the municipal building. There is no up-to-date map of the distribution system and records consist primarily of consumption data. **Distribution System:** In 2 services. The main portion of the borough is supplied through a single 6-inch meter in Roseland Avenue on the Essex Fells Low Service. A small area in the eastern portion of the borough is on the high service and is supplied through a 4-inch meter on Forest Road and 6-inch meter on Devon Road. This section is segregated from the low service by a single closed valve in Eagle Rock Avenue. See map. **Consumption:** The average and maximum daily consumption during 1945 was 0.077 and 0.082 m.g.d. respectively. There are 475 services, all of which are metered. **Pipe:** All pipe is cast iron, tar coated, bell and spigot joint laid with a minimum 4-foot cover. Total length 50,600 feet; 1.6% 10-inch, 26.5% 8-inch, 66.8% 6-inch, and 5.1% 4-inch. No trouble has been reported from freezing or electrolysis. **Gate Valves:** There are 83 on the system of unknown make set with valve boxes at grade. Fifteen of the valves operate clockwise to open and the balance operate counter-clockwise. Valves are said to be inspected about annually. **Hydrants:** There are 89 in the borough of Darling, Eddy, Smith, and Mueller makes of standard type. Those hydrants connected to 4-inch mains have 4-inch gated branches, other hydrants have 6-inch gated branches. About 50% of the hydrants have two 2½-inch outlets with the balance having an additional single 4½-inch outlet. Small outlets are 3-inch outside diameter with 8 threads per inch. Large outlets are National Standard Hydrants are inspected annually. At time of inspection those operated were found to be in good condition. **Pressures:** Readings taken at 7 widely distributed locations on both the low and high services showed pressures ranging from 62 to 107 pounds with an average of 91 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on September 5, 1946 by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow, and pressure during flow were as follows:

Low Service—

Roseland Pl 100 ft. S of Eagle Rock Ave., 560—107—7.
Livingston Ave 900 ft. S/W of Eagle Rock Ave., 430—103—16.
Roosevelt St 450 ft. N/E of Harrison Ave., 460—107—16
Passaic Ave 1,000 ft. S/W of Harrison Ave., 430—62—9.
Eagle Rock and Beaufort Aves., 600—95—26.

High Service—

Old Eagle Rock Ave. 500 ft. S/E of Devon Rd., 520—78—16
Prospect Ave., 2,500 ft. S/W of Eagle Rock Ave., 480—87—12

FIRE DEPARTMENT: A volunteer organization of one company under the control of the borough which owns house, apparatus, and equipment and makes an annual appropriation for the support of the department. Total active mem-

bership 34, of whom a minimum of about 16 are available at all times. Officers include a chief, 2 assistant chiefs, a foreman, and assistant foreman. Chief officers are elected for 2-year terms by the company, foremen being elected by the company annually. Borough council confirms the elections. **Company—Company No. 1:** Located in the municipal building at Eagle Rock and Harrison Avenues. Building is a 2-story joisted brick structure with slate roof, concrete apparatus floor, steam heat, electric lights, hose tower, telephone, and siren on roof. **Equipment:** A 1926 American La France 750-g.p.m. triple combination pumping engine carrying a 60-gallon booster tank, 200 feet of booster hose, 1,000 feet of 2½-inch hose, 2 short ladders, 2 all-service gas masks, 1 salvage cover, and good minor equipment. A 1936 Indiana truck carrying a Hale 500-g.p.m. O.C.D. skid-mounted pump, a 275-gallon booster tank, 250 feet of booster hose, 500 feet of 2½-inch hose, 300 feet of 1½-inch hose, 2 short ladders, 1 salvage cover, and fair minor equipment. **Hose:** All 2½-inch hose is C.R.L. with New York type screw couplings. Department is provided with adapters to connect New York and National Standard screw threads. It is tested semi-annually at 200 pounds pressure, dried in hose tower, and shifted at tests. About 50% of the hose is over 5 years old and there is a reserve supply of 850 feet. **Operations:** Department is governed by borough ordinance and company by-laws. Chief has control of apparatus at all times and of men at fires and drills. Motors are started daily and all men, after receiving instruction in driving and pump operation, may serve as drivers. **Drills and Training:** Regular monthly drills are held under the supervision of the chief officers. At time of inspection weekly drills were being held, which would be discontinued after the summer months. Drills consist of hose laying, pump operation, some ladder work, and use of minor equipment. **Fire Methods:** Booster lines are used on incipient fires reinforced by hydrant or engine lines with shut-off nozzles. Department is provided with 2 all-service gas masks and 1 salvage cover, but there is no other salvage equipment and no heavy stream appliances. **Response to Alarms:** Both pieces of apparatus respond to all alarms within the borough and outside aid may be secured from the paid department of West Orange and the volunteer departments of Essex Fells, West Caldwell, and Livingston. **Building Inspection:** Chief makes an annual inspection of all stores and schools and submits a report of his inspections to the borough council. **Records and Reports:** Fairly complete records are kept of all fires and drills and chief makes a monthly report to the borough council. **Fire Alarms:** Alarms of fire are telephoned through the Caldwell Telephone Exchange to a candy store in the mercantile district where there is someone present at all times. Telephone has an extension to living quarters attached to candy store, and also to the fire house. Alarms are sounded on the siren at the fire house by means of a switch located at the store. Additional switches are located on the front of the fire house, the police headquarters, and on a utility company pole on Eagle Rock Avenue opposite the fire station.

POLICE DEPARTMENT: Consists of 1 chief, 1 patrolman, and about 25 specials. Twenty-four hour watch is not maintained at the police desk. One trunk telephone at the police desk has extensions to the candy store mentioned above, to the patrolman's residence, and to the police chief's home. Police are equipped with a patrol car with two-way short wave radio connected with the Livingston police radio. Police respond to alarms of fire when possible and report unauthorized building construction to the building inspector.

BUILDING LAWS: Code adopted July 23, 1935 requires fire stops and has some fair provisions for chimneys and heating appliances, but does not establish fire limits nor restrict the use of wooden shingled roofing, and is generally inadequate from a fire protection standpoint.

FIRE PREVENTION LAWS: Municipal regulations are limited to an oil burner ordinance which was adopted on May 14, 1940. 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.

ZONING ORDINANCE: Adopted September 18, 1931.