



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

Avalon Borough **Cape May County, New Jersey**

SEPTEMBER 15, 1951

KEY

PROTECTED FIRE ZONE: Shown in Green.
NOTE.—Fire protection report on file in Engineering
Department of F. I. R. O. of N. J.
Elevations range from 0 to 42 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:

- (Y) Pumping engine and hose car
- (H) Hose car
- (L) Ladder truck
- (O) Booster tank or tanks on above



July 30, 1938.

BOROUGH OF AVALON, CAPE MAY COUNTY, NEW JERSEY.

Population—Census of 1930 was 343. Summer estimated to be 3,500.

IN GENERAL: Located south of Townsend's Inlet on the Atlantic Ocean. Principally a seashore resort with transportation facilities afforded by bus lines. Area about 3.5 square miles; elevations range from 0 to 42 feet. Main thoroughfares paved, others gravel in fair condition.

WATER SUPPLY: Water for domestic and fire protection purposes is furnished by the borough, which owns supply works and distribution system. System maintained and operated by superintendent who is appointed for one-year term by Mayor and Council. Present incumbent was appointed in 1934 and has had previous experience on this water system. There is one assistant who operates the station and helps maintain the system. Engineering work done by borough engineer. Office in borough hall; records poor. Two trucks are available and superintendent responds to alarms of fire. **Supply Works:** Built in 1898. Water obtained from three wells 955 and 940 ft. deep, 4, 6 and 10 in. in diameter. The two small wells are operated by air lift and the large well is equipped with a Worthington 500-g.p.m. deep well pump driven by a 25-h.p. G. E. motor. The air lift wells discharge into the reservoir and the deep well pump discharges either to the reservoir or to a 550-g.p.m. Worthington centrifugal pump driven by a 30-h.p. G. E. motor, both equipped to operate automatically. Water is pumped from the reservoir by a 700-g.p.m. De Laval centrifugal pump driven by a 105-h.p. Otto Diesel engine which has a belt drive to a Bury air compressor of about 480 cubic ft. per minute capacity. **Pumping Stations:** Located at Thirteenth St. and Second Ave., two 1-story brick buildings with slate roofs, concrete floors, gas-steam radiators for heat and electric lights. **Reservoir:** A 100,000-gal. above-ground concrete reservoir. **Standpipe:** Located as shown on map; steel 20 x 125 ft., capacity 294,000 gals.; base at about elevation 13. **Consumption:** The average and maximum daily consumption for 1937 was about 150,000 and 465,000 gals. There are about 750 services. **Gate Valves:** 89 of R. D. Wood make, set with iron boxes usually at grade. Direction of valve operation not uniform but is said to be marked on cover. They are said to be inspected annually. **Distribution System:** In one service; see map. **Pipe:** Cast iron, tar coated, bell and spigot joint, laid with a 30-in. cover. Total length 73,800 ft.; 84.4% 4-in., 15.6% 6-in. No trouble from frozen mains or electrolysis. **Hydrants:** 65 of Wood, Corey and Darling makes. Twelve have two 2½-in. and one 4½-in. outlets, 6-in. barrel and gated branch; remainder have two 2½-in. outlets, 4-in. barrel and 4-in. ungated branch. All hydrants have female outlets and are used with an adaptor for snap couplings. Hydrants are inspected and oiled semi-annually. Those used during this inspection were in generally good operating condition. **Pressures:** Direct reading gauge in station at about elevation 15 shows 55 pounds when standpipe is full. Readings taken at 7 hydrants during this inspection showed pressures ranging from 49 to 52, with an average of 50 pounds. **Fire Flow Tests:** Probable supply available for fire protection

purposes was measured on May 22, 1938, by means of Pitot tube. Location of hydrant, discharge in gals. per minute, pressure before flow and pressure during flow were as follows:

2nd Ave. and 27th St., 430—49—25.
2nd Ave. and 37th St., 250—49—10.
4th Ave. and 22nd St., 180—49—18.
5th Ave. and 21st St., 215—51—7.
6th Ave. and 22nd St., 145—51—*.
2nd Ave. and 6th St., 575—52—30.
4th Ave. and 24th St., 120—49—15.

* No reading taken.

FIRE DEPARTMENT: A volunteer organization under partial control of borough which appropriated \$2,400 for the support of the department in 1938. There are 30 members including a chief, assistant chief and a foreman who are elected annually by members and confirmed by Mayor, and one paid driver who is on duty at all times. About 15 members are available at all times. Borough owns American La France engine and company owns Hahn hose car. **Company:** Company located on 2nd Ave., near 32nd St., in a 2-story frame building with asbestos shingle roof, concrete apparatus floor, gas for heat, electric lights and telephone. **Apparatus:** A 1926 600-g.p.m. American La France engine equipped with a 40-gal. water tank, 700 ft. of 2½-in. hose and little minor equipment. One 1932 Hahn hose car equipped with 100-g.p.m. booster pump, 250-gal. booster tank, 1,200 ft. of 1½-in. hose and little minor equipment. **Hose:** All 2½-in. hose is C.R.L. with Jones snap couplings. It is said to be tested annually at about 200 pounds and dried on outside rack. **Operations:** No fire department ordinance. Department is governed by company by-laws. Chief has control of apparatus at all times and of men at fires and drills. Motors turned over daily. **Drills and Training:** Drills held about twice monthly. Four men have attended the Cape May County Fire School. **Response to Alarms:** All apparatus responds to all alarms of fire. Aid may be secured from Stone Harbor and other surrounding towns. **Fire Methods:** 1½-in. streams used on small fires. Engine always connects to hydrant and 2½-in. line is laid. **Building Inspection:** None by fire department. **Reports and Records:** Incomplete. **Fire Alarms:** Alarms are telephoned to fire station and sounded on siren. Telephone exchange in frame building.

POLICE DEPARTMENT: Chief and two patrolmen with one automobile.

BUILDING LAWS: Adopted June 16, 1925; do not establish fire limits nor prohibit combustible roofs. Ordinance contains generally good provisions for heating hazards and construction, but is lacking in many essential requirements.

EXPLOSIVES AND FLAMMABLES: No municipal regulations. State law limits the use of fireworks to bonded operators.