



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

**Alpine Borough**  
**Bergen County, New Jersey**

JULY 31, 1946

**KEY**  
**PROTECTED FIRE ZONE:** Shown in Green.  
**NOTE**—For description of fire protection, etc., see other side.  
 Elevations range from 0 to 500 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  
 (B) Booster tank or tanks on above

## ALPINE BOROUGH, BERGEN COUNTY, NEW JERSEY.

Population—1940 Census—626.

**IN GENERAL:** Located in the northeast corner of Bergen County on the Hudson River. It is a residential community with a number of large high value estates. Area of mapped portion about 3.5 square miles. Elevations range from 0 to 500 feet. Main roads are concrete with others being gravel or macadam in fair condition. There are no railroad crossings and a few steep grades are said never to have interfered with the response of the fire department.

**WATER SUPPLY:** Water for domestic and fire protection purposes is furnished by the Hackensack Water Company from its New Milford High Service. A small section of the borough at higher elevations is supplied by the Alpine Booster Service by pumps taking suction from the 30-inch high service main from the New Milford Pumping Station and discharging to the segregated booster service with an elevated tank acting as equalizer. The major portion of the borough is on the New Milford High Service which is supplied by direct pumpage from the New Milford Pumping Station through a 30-inch force main, but can be supplied in emergency from the Fairview Pumping Station. For a detailed description of the Hackensack Water Company system see report and map No. 59. **Distribution System:** In two services; see map and description above. **Consumption:** The average and maximum daily consumption during 1945 in the entire territory served (84,266 live services) were 39,221 and 46,526 million gallons respectively. The maximum daily consumption was 39,526 and 8.65 million gallons respectively on the low and high services. The average daily consumption was 32,914 and 6,307 million gallons respectively on the low and high services. On December 31st, 1945 there were 128 services in Alpine, all of which were metered. It is estimated that 0.086% of the total consumption is used in Alpine. **Pipe:** All pipe is cast iron, tar coated, bell and spigot joint, laid with a minimum 3-foot cover. Total length, 33,667 feet; 39.33% 30-inch, 7.01% 12-inch, 7.62% 10-inch, 5.80% 8-inch, and 40.24% 6-inch. No trouble has been reported from freezing nor electrolysis. **Gate Valves:** There are 49 within the borough of various makes set with iron boxes or manholes at grade. Direction of operation is uniform. All valves are inspected annually with semi-annual inspections of major control valves. **Hydrants:** There are 44 within the borough of Smith make of standard type. All have two 2½-inch and one 4½-inch outlets and 6-inch gated branches. All outlets have National Standard threads. Hydrants are inspected semi-annually, after use, and frequently during winter months. At time of inspection those operated were found to be in good condition. **Pressures:** Readings taken at 3 locations on the New Milford High Service and one location on the Alpine Booster Service showed pressures ranging from 32 to 110 pounds with an average of 69 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on November 7th, 1945 by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow, and pressure during flow were as follows:

New Milford High Service—

Closter Dock Rd., 1,000 ft. W. of Warren Lane, 600—110—39.

Church and Miles Sts., 1,420—93—70.

Palisades Blvd. 3,300 ft. S. of Hillside Ave., 980—32—19.

Alpine Booster Service—

Du Bois and Closter Dock Rds., 710—40—28.

**FIRE DEPARTMENT:** A volunteer organization of one company under the control of the borough which owns apparatus and equipment and appropriated \$2,300 for the support of the department during 1946. The fire company owns the

fire house. Total active membership 28, of whom a minimum of 4 are available at all times. Officers include a chief, lieutenant, and captain who are elected annually by the company with elections being confirmed by the mayor and council. **Company—Alpine Hose Company No. 1:** Located on Miles Street west of Church Street in a one-story cement block structure with concrete apparatus floor, composition roof, steam heat, electric lights, and siren. **Equipment:** A 1946 American La France 750-g.p.m. triple combination pumping engine carrying two 50-gallon booster tanks, 150 feet of booster hose, 900 feet of 2½-inch hose, 2 short ladders, and fair minor equipment. A 1929 Reo-Pirsch 500-g.p.m. triple combination pumping engine carrying a 35-gallon booster tank, 200 feet of booster hose, 800 feet of 2½-inch hose, 2 short ladders, and meager minor equipment. A 1926 Graham hose car carrying a mounted deck gun and some minor equipment for brush fires. **Hose:** All 2½-inch hose is C.R.L. with National Standard screw couplings. It is tested monthly at hydrant pressures, shifted at drills, and dried on apparatus floor. There is a total supply of 3,100 feet, of which 1,400 feet is held in reserve at the fire house. About 25% is over 5 years old. **Operations:** Department is governed by borough ordinance and company by-laws. Motors are started weekly and there are 8 appointed drivers. **Drills and Training:** Monthly drills are held under the supervision of the chief and consist of the usual evolutions. **Fire Methods:** Booster lines are used on incipient fires reinforced by engine and hydrant lines with shut-off nozzles. Heavy stream equipment is limited to the turret nozzle mounted on the hose car. There are no gas masks nor salvage equipment. **Response to Alarms:** Entire department responds to all alarms within the borough and outside aid may be secured from the volunteer departments of the adjoining municipalities. **Building Inspection:** No regular inspections are made. **Records and Reports:** Fairly complete records are kept of all fires and drills and chief makes a monthly report to the mayor and council. **Fire Alarms:** Alarms of fire are telephoned to police or to homes of members of the fire department. They are sounded on the siren by means of switches located on the front of the fire house, police booth and at Church Street and Closter Dock Road.

**POLICE DEPARTMENT:** Consists of a chief, a captain, 1 patrolman, and 4 special officers. Regular members work in 8-hour shifts, either at the police booth on Palisades Boulevard and Closter Dock Road, or in patrol car which is equipped with two-way short-wave radio. Police are provided with a telephone at police booth with an extension phone at the police chief's home. When possible, department responds to all alarms of fire and reports unauthorized building construction to the building inspector.

**BUILDING LAWS:** Code adopted October 1st, 1930 provides for the appointment of a building inspector and requires plans and specifications for building construction. Code has some good provisions for wall thicknesses, building heights and areas, fire stops, and chimney construction, but does not establish fire limits nor regulate the use of wood shingled roofing, and is not sufficiently comprehensive from a fire protection standpoint.

**FIRE PREVENTION LAWS:** There are no municipal regulations. 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 November 14th, 1939.