



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







Woodbridge Township

Including Fire District No. 9 Iselin, and Fire District No. 11
Middlesex County, New Jersey

JUNE 30, 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 20 to 135 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 hose shown thus 
Fire apparatus designated by symbols thus:
 Pumping engine and hose car
 Hose car
 Booster tank or tanks on above

WOODBIDGE TOWNSHIP, MIDDLESEX COUNTY, NEW JERSEY.

Fire District No. 9 — Iselin.

Fire District No. 11.

Population—Census of 1940—Fire District No. 9, 1,082; Fire District No. 11, 2,022.

IN GENERAL: Located on the main line of the Pennsylvania Railroad and a branch line of the Philadelphia and Reading Railroad 4 miles west of Rahway A farming and residential community. Area about 5 square miles Elevations range from 20 to 135 feet Main roads are concrete, others gravel and macadam in fair to poor condition. Traffic on main highway is said never to have interfered with the response of the fire apparatus

WATER SUPPLY: Water for domestic and fire protection purposes is furnished by the Middlesex Water Company. For details as to organization, supply works, distribution system and appurtenances, see report with map No 136 **Distribution System:** In one service; see map Supply to these districts is through a 20 inch transmission main from the Park Avenue Pumping Station and an 8-inch transmission main from the Robinson Branch Pumping Station Arterial system is generally good with a few 6 inch dead end lines supplying hydrants **Consumption:** The average and maximum daily consumption in the Middlesex territory (12,360 services) during 1940 was 6.782 and 8.088 m.g.d. On December 31, 1940 there were 6,436 services in Woodbridge Township, all of which were metered **Pipe:** Cast iron, tar coated, bell and spigot joint, laid with about a 3- to 4-foot cover Total length 52,423 feet, 20.55% 20 inch, 11.45% 12 inch, 1.43% 10 inch, 6.98% 8-inch, 59.59% 6-inch No trouble reported from frozen mains, electrolysis or tuberculation **Gate Valves:** There are 40 valves of various makes set with iron boxes to grade Direction of operation is uniform No regular inspection **Hydrants:** There are 48 of Corey and Wood makes of standard type with two 2½- and one 4½-inch outlets and 6-inch gated branches Hose outlet threads are National Standard Steamer outlets are 4-13/16 inches outside diameter and have 6 threads per inch. Hydrants are inspected annually. Those operated during inspection were found to be in poor condition **Pressures:** Readings taken at 5 hydrants well distributed showed pressures ranging from 54 to 94 pounds with an average of 78 pounds **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on October 3, 1941 by means of Pitot tube Location of hydrant, discharge in gallons per minute, pressure before flow and pressure during flow were as follows.

Oak Tree Rd and Cooper Ave., 1,015—94—58
Jansen Ave and Julius St., 600—54—8
Charles St and Diaz St., 480—72—37.
Oak Tree Rd and Marconi Ave., 1,420—85—52
Dow Ave. and Warwick St., 600—84—9

FIRE DEPARTMENT: A volunteer organization of two companies with each fire district having its independent company Each company is under the supervision of a board of fire commissioners each consisting of 5 members who are elected for a 3-year term Districts own respective houses, apparatus and equipment and appropriated \$3,500 in Fire District No. 9 and \$6,260 in Fire District No 11 for the support of the companies in 1941. Total active membership 68 of whom 35 are available during the day and 55 during the night. There are a chief, 2 assistant chiefs, a foreman and an assistant foreman in each company who are elected annually by the companies and confirmed by the respective boards of fire commissioners. **Companies—Iselin Hose Company No. 1, Fire District No. 9:** Membership 28. Located on Oak Tree Road opposite Cooper Avenue. Building is a one-story hollow tile structure stuccoed with composition roof, wood apparatus floor, hot water heat, electric lights and siren. **Equipment:** A 1936 American La France 500-g p.m. triple combination pumping engine carrying a 200-gallon booster tank, 100 feet of booster hose, 1,100 feet of 2½-inch hose, 2 short ladders and fair minor equipment **Iselin Hook and Ladder Company No. 1, Fire District No. 11:** Located on Harding Avenue near Middlesex Avenue. Building is a one-story hollow tile structure stuccoed with a composition shingled roof, wood apparatus floor, hot water heat, electric lights and siren **Equipment:** A 1928 Boyer 500-g p.m. triple combination pumping engine carrying two 35-gallon booster tanks, 200 feet of booster hose, 1,100 feet of 2½-inch hose, 2 short ladders and fair minor equipment. A 1939 Sealand-G.M.C. booster car carrying a 350-gallon booster tank, 100 feet of booster hose, 1 gas mask and

some minor equipment. **Hose:** All 2½-inch hose is C.R.L. with National Standard screw couplings. It is tested at least twice a year at from 150 to 200 pounds, shifted at fires and drills and dried on apparatus floor There is a total supply of 2,700 feet of 2½-inch hose, of which 500 feet is held in reserve and none is over 5 years old **Operations:** Companies are under the supervision of the board of fire commissioners in their respective districts Chiefs have control of apparatus at all times and of men at fires and drills They may suspend members pending a hearing before the board of fire commissioners There is an average of 6 men in each company who drive apparatus Motors are started weekly **Drills and Training:** Drills held monthly under the supervision of the chief officers consist of hose laying, pump operation and use of equipment **Fire Methods:** Booster streams are used on incipient fires reinforced with engine or hydrant lines with shut-off nozzles Each company carries a gas mask No salvage equipment or heavy stream appliances are provided **Response to Alarms:** Companies respond with all apparatus in their respective districts Outside aid may be secured from the surrounding fire districts in Woodbridge Township and the fire districts in Raritan Township **Building Inspection:** None by the department. Township building inspector makes an inspection four times a year of all mercantile and industrial risks. **Records and Reports:** Companies keep a record of location and attendance at all fires and submit an annual report to their respective boards of fire commissioners. **Fire Alarms:** Alarms of fire in District No 9 are telephoned to a hotel or service station and are sounded by means of push button on siren at fire house In District No 11 there is an automatic Gamewell fire alarm system This system is maintained by a local electrician who devotes his spare time to system. He has had no previous fire alarm experience Headquarters equipment is located in closet on apparatus floor in fire house and consists of a single circuit Gamewell operating board with the usual devices for testing and operation Current for the operation of the system is supplied from the 110 volt lighting circuit by 1 oxide film rectifier with 1 battery of 8 cells floating Battery is located in room with operating board and is mounted on a shelf on wall of room Circuits are protected by 1-ampere fuses on switchboard There are 5 fire alarm boxes, 4 of Sterling and 1 of Gamewell manufacture of the interfering type, mounted on utility company poles at or near street intersections There is a tape register and siren at fire house Circuit is all above ground and consists of No 10 hard drawn, triple braided, weatherproofed copper wire mounted on utility company poles below power wire Boxes are said to be operated monthly and circuits tested daily No records of test. Alarms of fire may be telephoned to homes of firemen near fire house and are sounded on fire alarm box in front of fire station

POLICE DEPARTMENT: Township police department consists of a chief, 2 captains, 6 sergeants and 26 patrolmen working in 8-hour shifts. A Ford combined patrol and ambulance, 4 radio cars equipped with 2-way radio, 1 utility car equipped with 1-way radio and 4 motorcycles are provided. There are 12 police signaling boxes over which patrolmen report hourly. A desk man is always on duty. Police respond to all alarms of fire and report unauthorized building construction to building inspector

BUILDING LAWS: Code adopted June 17, 1935 closely follows that of the National Board of Fire Underwriters. It prohibits flammable roof coverings in the entire township, embodies all the essential good structural requirements and establishes suitable fire limits in each fire district of the township The building department is well organized with a competent inspector. Records are complete and filing provisions are satisfactory.

EXPLOSIVES AND FLAMMABLES: A complete fire prevention code embodying the essential requirements was adopted on May 20, 1935. It establishes a fire prevention bureau which is synonymous with the building department and in charge of the building inspector. 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.