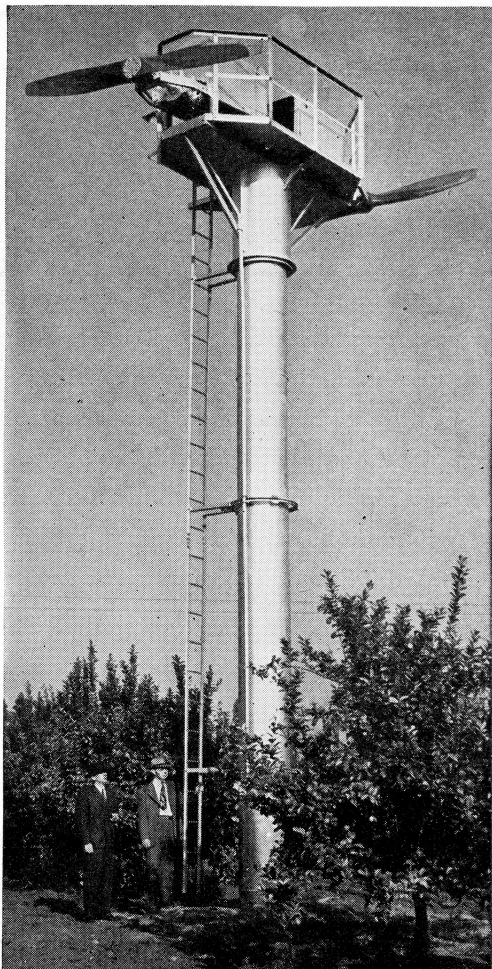


This diagram shows a treetop view of the two-way revolving fan that dispels frost in fruit orchards.

NEW WIND MACHINE BLOWS FROST AWAY FROM CITRUS FRUITS

ON CALIFORNIA nights when occasional freezes threaten the crops, thousands of acres of citrus and deciduous fruits are protected from frost by moving air. The air is driven continuously by revolving wind machines carrying their own gasoline supplies in the pipe columns on which they turn. The breeze forces warm air from above to mix with the colder ground air, and this raises the temperature around the trees. One such double wind machine is declared to do as effective job of protection as 1,000 smudge pots. Two Ford V-8 engines drive the 12-foot wood propellers at 950 r.p.m. Power take-offs from the engines revolve the entire head, including the platform and ladder leading to the ground, once every nine minutes. The 26-foot column contains 640 gallons of gas, enough for a stretch of 40 hours. One pair of engines moves 632,000 cubic feet of air a minute at 30 m.p.h. The machine is manufactured by the National Frost Protection Co., Glendale, Calif.



One wind machine like this replaces 1,000 smudge pots, and wards off frost from 20 acres of trees.

Modifying a Ford V-8 engine to permit fitting one of the propellers that make the frost-killing wind.

