

for the higher pressure and greater volume of water that is required for a modern fairway, tee and green system. Although a pump capable of producing approximately 500 g.p.m. with a residual pressure of 90 lbs. p.s.i. at the sprinklers is required for a modern system, the old pump can often be retained in service for the daytime use of small quantities of water such as is required for flushing in fungicides and insecticides thereby providing a flexible and economical pumping plant.

### Hurricanes Add Expense, Cut Income, of Clubs

By HOMER C. DARLING

Juniper Hill GC, Northboro, Mass.

**H**URRICANE CAROL hit August 31 and hurricane Edna September 11. Here at Juniper Hill the wind velocity from Carol (80-100 mph) was slightly greater than Edna and therefore caused more damage in this area to trees, phone service and electricity.

A large area was without electricity from 3 to 7 days and repairs were completed just in time to be knocked out again by Edna. Provision spoilage with the home owner was pretty general from the first hurricane but they were better prepared for Edna with ice, candles and kerosene lamps.

The damage here from Carol was not serious, a few trees, many limbs and general debris over the course. The greatest damage at Juniper Hill came from Edna with extremely heavy rains; 6 in. in 14 hours making a total of 12 in. in 14 days. The brooks and rivers already at full height spread all over the place.

Four holes were out of play for a week. One green was under water 2 days. However, there has been practically no damage to the turf except isolated depressions holding water for two weeks or more.

Actually the monetary loss to this course and other nearby daily fee courses was mostly in green fees. Even though the courses flooded after the Edna hurri-



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cane are now playable rumors persist that these courses are still under water. Consequently play has been very light during the entire month.

Ten miles east of here in Wayland, one course had 14 holes under water and another 5 holes.

The most serious damage to golf courses in Connecticut, Rhode Island and Massachusetts occurred on the coast from New London, Conn. to Cape Cod, Mass. and 20 miles inland. Golf courses near the oceanside here and there lost some greens and parts of fairways from salt water damage. Newport, R. I. and Acoaxet, Mass., were hard hit in this respect. At Acoaxet I was told debris from demolished houses caused by a tidal wave still litters the course.

Winds from both hurricanes seemed to be particularly strong 8-10 miles inland from Boston where many golf courses are concentrated.

Tree damage was quite heavy there. For example: Charles River CC lost 400 trees,

Brae Burn 200, Weston CC 100. Cleaning up debris and repairing trees will continue through the winter. Estimated cost of the clean up ranges from \$3000 to \$5000 and it probably will be higher when the job has been finished.

### Set More 1955 Championship Places and Dates

Recently awarded 1955 championships and their dates:

USGA Junior Girls . . . Florence (S. C.) CC . . . Aug. 15-19

Women's Western Open . . . Maple Bluff CC, Madison, Wis. . . . June 23-26

Women's Western Amateur . . . Olympia Fields (Ill.) CC.

(Women's Western has awarded its 1956 Open to Des Moines (Ia.) G&CC, and its 1956 Amateur to Guyon CC, Huntington, W. Va.)

Western Seniors . . . Scioto CC, Columbus, O. . . . June 23, 24



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