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vulcanized cover of extreme thinness resulting in increased "feel" and extra distance. For 1949 the Campbell family of balls consists of four brands—the Star (designed for distance), the Campbell T/20, carrying an unconditional guarantee against cutting for 72 holes; the Blue Goose and the Plus Four. In line with the Scoggins policy, all balls will be sold through Professionals only.

**Chlordane Gives Rapid Control
 of Turf Insects**

During the 1947 season both federal and state agricultural research workers reported favorably on a new chemical, chlordane, which promises greenkeepers excellent control of many turf insects. This new quick-acting organic insecticide readily kills the miniature brown ant, the American lawn ant, wireworms, cutworms, sod webworms, beetle grubs, chinch bugs, white grubs, the garden centipede and many other destructive turf pests. Chlordane has proved to be quicker acting in killing Japanese beetle larvae, for example, than any other available compound including DDT and benzene hexachloride. The chemical does not present any undesirable odor, and it is not harmful to the turf. Any one of several formulations offered by most firms is readily adaptable to the greenkeeper's needs. (An oil concentrate containing 20% chlordane is also offered to control household, industrial and institutional pests.)

Ant Control

For the control of ants, the greenkeeper may treat the individual hills or the turf as a unit. The degree of infestation will determine the method of treatment.

If infestation is spotty and limited primarily to the putting greens, one-fourth of a teaspoonful of 40%-wetttable powder placed on the center of each hill and watered thoroughly into the nest will give a quick and complete kill.

For complete turf treatment it is recommended that a 40% wetttable powder be

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applied at the rate of six ounces to 1,000 square feet in 75 to 100 gallons of water at a pressure of 100 pounds. The turf should then be watered with 50 to 60 gallons of water per 1,000 square feet and then rolled.

Japanese Beetle Larvae

While DDT properly applied and in sufficient quantities will kill Japanese beetle grubs, often severe damage is rendered before the kill is accomplished. For this reason chlordane should be of special importance on golf courses since its action is very rapid. Used in the spring in sufficient quantities, control is quickly accomplished and a residual control of at least a month may be expected. The chemical should be applied in the form of a 40% wettable powder at the rate of from six ounces to one pound per 1,000 square feet in 100 gallons of water. The degree of infestation and the residual effect desired will dictate the dosage.

Other Pests

For many pests such as chinch bugs, wireworms and cutworms, lesser amounts will give adequate control. Two quarts of a 40% emulsifiable formulation in 100 gallons of water per acre should give good control. If desired, a 5% dust may be applied at the rate of six pounds per 1,000 square feet. Ants will be killed by such an application and a residual control of several weeks will be attained. Lesser amounts may be applied if a residual effect is not required.

Compatibility With Fertilizers

Chlordane may be added to fertilizers. The rate of six pounds of 40% wettable powder per ton of fertilizer would be adequate if the fertilizer were applied, for example, at the rate of 50 pounds per thousand square feet of turf. The amount of the chemical may be varied in terms of the amount of fertilizer being applied. This dosage of chlordane should be increased if a residual action is desired.

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