Management of Weeder Geese in commercial fields

Weeding with geese has proved to be an effective and cheap means of controlling grassy annual and perennial weeds when combined with other good farming practices. From 175,000 to 200,000 geese are being used in crops in California each year; the practice has been widely accepted and has spread rapidly since geese were first used for weeding commercial fields about seven years ago.

The disadvantages of using weeder geese are that fields have to be fenced, and the geese have to be fed, watered and protected against weather, dogs and chemical treatments of crops.

The greatest number of geese are used in cotton but they are used also in vineyards, sugar beets and castor beans, strawberries, melons, seed alfalfa, nursery crops, beans, hops, asparagus, potatoes, onions, and for controlling weeds in irrigation ditches.

All breeds of geese make good weeder geese, but the White Chinese have been found to be most effective. They are lightweight, grow rapidly, are good egg layers, and appear to be more active than other breeds. Their light color may make them more adaptable to hot weather.

Young geese are better weeders than old or mature birds. Old geese require feed only for body maintenance, but young geese need feed for growth. Observations have shown that geese should be at least six weeks of age and well feathered before they are placed in fields.

In very weedy fields, three to five geese per acre may be needed to keep ahead of weeds. The number required depends on the relative weed infestation and on the effectiveness of other weed-control practices. Usually, after the first year, the number can be reduced to one or two birds per acre. It has been proved better to have more than enough geese and provide supplemental feed than to have too few.

Geese are grass feeders. They prefer Johnson grass and Bermuda, but will eat seedlings of nut grass, water grass, puncture vine, crab grass, tickle grass, and almost all other grasses. They will not eat pigweed, lamb's-quarters, cocklebur, or most broadleaf weeds or broadleaf crop plants. They will nip at cotton when hungry or until they become accustomed to eating grass, but seldom do any damage to the crops except where they congregate around watering troughs, shade or feeding areas.

As geese prefer young tender seedling weeds, they should be in the field when the weed seeds begin to sprout—usually about the same time the cotton comes up. When the weeds are several inches high and the field has begun to show much green color, most of the advantage of using geese has already been lost. Geese can be left in the field until after the last irrigation and until the crop begins to mature.

Provision of extra feed has been found useful to keep geese healthy and growing. Poultry or rabbit pellets, or grain are satisfactory feeds at rates of about 1.0 pound daily per 10 birds. When geese are confined over night, some feed should be provided before they go into the field because they do not have a crop for storing food as do most other birds.

When very hungry, geese may develop digestive troubles by gorging themselves on grass.

Geese need clean fresh drinking water at all times and shade for protection from the hot sun and soil during mid-day. One or two drinking troughs in 20 acres, filled daily, are adequate. Where no natural shade is present artificial shade should be provided. Moving watering troughs, shade and feed to different locations encourages the geese to cover a field more thoroughly.

Chicken wire fence, at least 2½' high and supported by light stakes or laths, is needed to confine the geese to a field.

Losses from dogs constitute the greatest hazard to weeder geese. Probably more geese are run to death than are actually killed by dogs.

Sulfur, DDT and Aramite applied to crop plants usually have no effect on geese, but toxaphene, demeton, aldrin, dieldrin and parathion are hazardous.

Very few diseases affect geese when they are not confined to small areas. Gorging from being hungry, and malnutrition resulting in lameness and death—the only abnormal conditions of concern—can be avoided by adequate and timely supplemental feeding.

When compared to hand labor or chemical methods in controlling weeds effectively, the saving in weeding with geese can amount to as much as $50 per acre. Future savings may also be as important in reducing weed seed production and in eradicating perennial grasses.

Clarence Johnson is Farm Advisor, Madera County, University of California.

Experiment had been sold at 18.5¢ per pound straight across—fats and feeders combined—the Southdowns, because of their lighter weights, would have had to sell for 21.3¢ in order to realize the same income per ewe. Except for a limited number of lambs sold for show purposes, this premium is not likely to be obtained.

Southdown feeder lambs are likely to bring less because of their slower gains on pasture or in the feedlot.

The results indicate that, under the marketing conditions existing in California—and probably over most of the country—the importance of weight in determining returns is such that only small weight differences are necessary to compensate for rather wide differences in conformation and earliness of maturity.

D. T. Torell is Associate Specialist in Animal Husbandry, University of California, Hopland. G. M. Sparlock is Assistant Professor of Animal Husbandry, University of California, Davis.