

color, flat and oval, with longitudinal ribs and a threadlike beak at the apex, and possesses a small white tuft of hair.

Time of flowering, June-October.

Time of seeding, July-October.

Dispersal—Chiefly by the wind.

Remedy. Where there is not much of it, pull and burn before ripening. Where this cannot be done, use the same method as for Mustard.

PAINT BRUSH, DEVIL'S PAINT BRUSH, OR ORANGE HAWK WEED. (*Hieracium aurantiacum* L.).

This is another weed which is gaining ground in Ontario. It has been common for some time in the eastern part of the Province, but is now reported as being found as far west as Oxford County. It has been found in the vicinity of Guelph for many years. It is being dispersed as an impurity in clover seed, and by means of its tufted seeds, which are blown about by the wind. It is a serious pest when it gets into meadows and pastures, as it spreads rapidly by runners and soon crowds out the grass. Careful watch should therefore be kept to prevent its establishment upon the farms of Ontario.

It is a perennial weed of European origin, and produces slender runners, which lie near the surface of the soil. The leaves are all basal, and lie close to the ground, forming a rosette. They are broad y-lanced-shaped, from 2 to 6 inches in length, the flower is orange red in color, about 2-3 of an inch in diameter, and borne in clusters on the top of a simple, nearly leafless stem from 12 to 18 inches high. The seeds are provided with tufts of down. When found in clover seed, however, the down is usually absent. They are torpedo shaped, about 1-12 of an inch long, and ridged lengthwise. Ripe seeds are dull jet black in color, unripe seeds deep red.

Remedy. Paint Brush is but a shallow-rooted perennial, and readily succumbs to cultivation. Infested meadows and pastures should be broken up and put under a short rotation of crops. Salt at the rate of $1\frac{1}{2}$ tons per acre is recommended for the destruction of this weed. It should be scattered over the patches so as to fall on the leaves. It is claimed that it destroys the Paint Brush and improves the grass. Our results do not seem to justify this statement.

KNOW THE WEEDS.

It is very important that those engaged in farming should get to know the worst weeds and the weed seeds most frequently found in commercial seeds. This they can do with a little trouble. Strange weeds should be sent to the Botanical Department here for identification, and a collection of the most common weed seeds should be secured for reference and comparison.

WEED IDENTIFICATION AND SEED TESTING.

The Department of Botany is at the service of farmers, gardeners, seed merchants and others in the identification of weeds, weed seeds, plant diseases, grasses and economic plants. Clover and other farm seeds are tested and reported upon as to purity absolutely free of charge. Plant specimens and samples of seeds should be carefully packed and addressed with postage prepaid to the Botanical Department, Ontario Agricultural College, Guelph, Ontario.