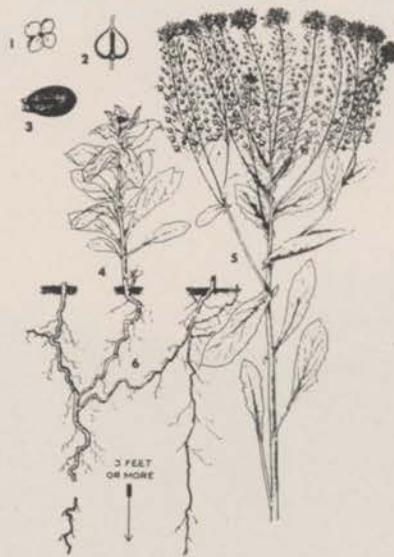


HOARY CRESS
(*Cardaria draba*)



Aliases of hoary cress are: perennial peppergrass, hoary pepperwort, and white-top. This alien weed of the mustard family is a perennial which reproduces by seed and by sprouting of rootstocks. It is found in New England, and some mid-coastal states, through the Midwest to the Pacific. Hoary cress seems best adapted to cool climatic conditions such as those found in the Rocky Mountain region.

Stems (4) of hoary cress grow singly straight up, 1-2 ft. tall, branching only at the top. Stems and leaves are hairy. Lower leaves have obvious petioles (stalks) and are spatula shaped with slightly scalloped margins. Higher up on the stem, leaves lose their petioles and appear to clasp the stem (5).

Flowers on separate stalks are arranged in clusters at nearly the same height on the ends of all branches. Flowers are typical of mustards (family Cruciferae), with four tiny white petals in the shape of a cross. As branches grow, flowering at the ends continues; flowers still bloom after lower seeds have matured (1).

Seed pods (2) are heart-shaped, bulbous, attached to the flower stalk at the broad end of this heart-shaped pod. A pod holds two oval seeds, each $\frac{1}{16}$ inch long. Seeds are reddish brown and have a rough texture (3).

Roots of hoary cress are slender and many-branched, sometimes penetrating soil to a depth of 10 feet. It is the ability of roots to regenerate tops which makes this weed so difficult to control (6).

Other plants, much easier to control, which may be confused with hoary cress are members of its own family; all have white flowers. Peppergrass, *Lepidium virginicum*, is not a perennial, is easily pulled up, does not have clasping leaves, and has circular flattened seed pods. Field peppergrass, *L. campestre*, does have clasping leaves, but they are arrow-shaped (saggitate); seed pods are more boat-shaped.

Pennycress, *Thlaspi* sp., looks somewhat like hoary cress but has no hair on the leaves and has very flat and rounded pods. Shepherd's purse, *Capsella bursa-pastoris*, has saggitate, clasping leaves and seed pods are heart-shaped, but they are attached at the narrow end of the pod and are more flattened than those of hoary cress.

Repeated applications of 2,4-D will control hoary cress if applied at the late vegetative to early bud stage of growth. Combinations of leachable soil sterilants such as sodium chlorate, fenac, TBA, boron compounds, substituted urea compounds, and triazines may be used effectively. These herbicides also kill most other plants.

Where sterilization may cause undesirable erosion, planting over with vigorous grasses after application of a contact herbicide eventually controls hoary cress especially with well-timed 2,4-D treatments.

Prepared in cooperation with Crops Research Division, Agricultural Research Service, United States Department of Agriculture, Beltsville, Maryland.

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"Industry Hour" to Highlight Fla. Turf Show, Aug. 27-29

New event added to the 11th Annual Florida Turf Conference, scheduled for the University of Florida, Gainesville, Aug. 27-29, will be an "Industry Hour."

Featured will be chemical and fertilizer products for turf. Each firm that exhibited these products at the Second Annual Trade Show (See *Weeds and Turf*, July 1963, p. 16), will be eligible to participate. Plans are now being made to continue this event each year, with a new theme being selected each time.

Although final program details and confirmation of speakers are not yet completed, general outline of the Conference will follow those of recent years. "Insects" will be theme of the general sessions, which open Tuesday afternoon, August 27.

Professional discussion sessions will be held Wednesday morning, with sections devoted to golf turf; playfields, parks, and cemeteries; retail dealers and garden suppliers; horticultural sprayers and lawn service agencies; and turf nurseries. Tour of turf plots and a barbecue, with the banquet that evening, will conclude Wednesday's sessions.

Conference will close Thursday morning, with a general session devoted to 1963 Turf Research Reports.

For more information on the program, or advance registration forms, write to Richard C. Wallace, Executive Secretary, Florida Turf-Grass Assn., P.O. Box 5284, Jacksonville, Fla.

Velsicol Has Bandane Booklet

Information on Bandane, a new pre-emergence crabgrass control from Velsicol Chemical Corp., is available to CAs in a new pamphlet from that firm.

Bandane has a mild selective action, and will not harm seeds, seedlings, or desirable grasses, according to the company. In addition, one application will eliminate ants and grubs from turf for several seasons, Velsicol claims.

For more information, write to the company at 330 East Grand Ave., Chicago 11, Ill.