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Notes on Seed Production in the Smooth Perennial Sow Thistle

Ada Hayden
Iowa State College

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phase were rooted very easily, but similar cuttings from shoots in the mature stage of growth could not be rooted by ordinary methods. The recognition of different phases of growth aids the interpretation of many of the results obtained by those experimenting with the vegetable propagation of the apple in the past.

DEPARTMENT OF BOTANY,
IOWA STATE COLLEGE,
AMES, IOWA.

NOTES ON SEED PRODUCTION IN THE SMOOTH PERENNIAL SOW THISTLE (*SONCHUS ARVENSIS* VAR. *GLABRESCENS* WIMM. AND GRAEB.)

ADA HAYDEN

Sonchus arvensis var. *glabrescens* Wimm. and Graeb. is at present sparsely distributed in Iowa. The patches are often miles apart. In a number of isolated colonies observed in Clay, Palo Alto, Osceola, Dickinson, Story and Hamilton counties seeds are seldom or never found from July to September. Some tests made relative to the fruiting habits of the Smooth Sow Thistle produced the following results. Self or close pollinated flowers from the same head or from heads in the same colony produced no fruits ("seeds"). Flowers cross-pollinated by brushing with flowers from a distant colony produced almost as many seeds as there were flowers in the head. The heads average about 200 flowers each.

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