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A PROVISIONARY LIST OF THE CRUCIFERAE OF
HENRY, JEFFERSON AND VAN BUREN
COUNTIES, IOWA

CHARLES GILLY

Since the afternoon of April 28, 1933, which I spent in collecting plants along the banks of Copperas Creek in Van Buren County, Malcolm McDonald and myself — working under the direction of Professor Charles Carter — have been doing the foundation work preparatory to the publication of a Flora of South-eastern Iowa. In the course of this work we have built up a herbarium, of more than three thousand specimens, which is now preserved in the Biology Department of Parsons College. In addition to this field collecting and identification, we have consulted already published lists and examined specimens from other herbaria. We have conferred with persons who are well-acquainted with the plants of portions of this area, and the information contained in their unpublished lists has been utilized both in our work and in this paper. Thanks are here expressed to Mr. J. Wilbur Dole, of Fairfield, whose list of Jefferson County plants served as a basis for our early collecting and identifications; and to Professor H. E. Jaques, of the Iowa Wesleyan College Biology Department, and those students of his who compiled the list of specimens in their herbarium. A list of plants of Van Buren County, sent to us by the late Mr. E. W. Graves, of Bentonsport, shortly before his death has been of great help to us.

The purpose of this paper is to present a list of the members of the Family *Cruciferae* collected from, and known to be growing in the three south-eastern Iowa counties in which most of our work has been done — Henry, Jefferson and Van Buren. Forty species and two well-marked varieties comprise this list, which we realize is still incomplete. In addition, several other species have been reported as occurring in, or collected from these three counties, but we have not yet satisfactorily determined their status.

In order to conserve space and still present as much information as is possible, a number of abbreviations have been used within parentheses following the names of the counties in which each species occurs. These abbreviations are: The letter P denotes a specimen or specimens in the Parsons College Herbarium; similarly, the letter W denotes a specimen or specimens in the Iowa

Wesleyan Herbarium. The letter O signifies that we have seen and identified but not collected the species from the county. Other letters used denote that the species is listed in the correspondingly lettered "unpublished list." Numerals denote a reference to the species in the correspondingly numbered publication in the bibliography.

The nomenclature of the following list is that of the seventh edition of "Gray's Manual," which has been our principal aid in identification. Other manuals used are Britton and Brown's "Illustrated Flora"; L. H. Bailey's "Manual of Cultivated Plants"; J. H. Schaffner's "Flora of Ohio"; and H. S. Conard's "Plants of Central Iowa."

CRUCIFERAE

- Arabis canadensis* L., Sickle-Pod — Henry (O, W); Van Buren (P).
Arabis dentata T. & G., Toothed Rock-Cress — Henry (W, 3).
Arabis drummondii Gray, Drummond's Rock-Cress — Van Buren (P).
Arabis glabra (L.) Bernh., Tower Mustard — Henry (W).
Arabis hirsuta (L.) Scop., Hairy Rock-Cress — Henry (W).
Arabis laevigata (Muhl.) Poir., Smooth Rock-Cress — Henry (W); Jefferson (P); Van Buren (P).
Barbarea vulgaris R. Br., Yellow Rocket — Henry (O, W); Jefferson (A, P.); Van Buren (P).
Brassica arvensis (L.) Ktze., Charlock — Henry (W, 5); Jefferson (A, C, P, 5); Van Buren (O, 5).
Brassica juncea (L.) Cosson, Indian Mustard — Henry (W); Jefferson (P).
Brassica Napus L., Rape — Henry (W); Jefferson (P).
Brassica nigra (L.) Koch., Black Mustard — Henry (O, W, 5); Jefferson (A, C, P, 5); Van Buren (O, 5).
Camelina sativa (L.) Crantz, False Flax — Henry (W).
Capsella Bursa-pastoris (L.) Medic., Shepherd's Purse — Henry (O, W, 5); Jefferson (A, C, P, 5); Van Buren (O, 3, 5).
Cardamine bulbosa (Schreb.) BSP., Spring Cress — Henry (O, W); Jefferson (A, P); Van Buren (B, O).
Cardamine douglasii (Torr.) Britton, Purple Cress — Henry (W); Jefferson (P).
Cardamine parviflora L., Small-flowered Bitter-Cress — Henry (W).
Cardamine pennsylvanica Muhl., Pennsylvania Bitter-Cress — Jefferson (P).
Cheiranthus Cheiri L., Wallflower — Jefferson (P).
Courtingia orientalis (L.) Dumort, Hare's-ear Mustard — Henry (W); Jefferson (A, P).
Dentaria laciniata Muhl., Cut-leaved Toothwort — Henry (O, W); Jefferson (A, P); Van Buren (B, P).
Erysimum asperum DC., Western Wallflower — Van Buren (P, 1).
Erysimum cheiranthoides L., Worm-seed Mustard — Henry (W).
Erysimum parviflorum Nutt., Small Erysimum — Jefferson (P); Van Buren (P).
Iodanthus pinnatifidus (Michx.) Steud., Purple Rocket — Henry (W); Jefferson (P).

- Lepidium apetalum* Willd., Apetalous Peppergrass—Henry (O, 5); Jefferson (A, C, P, 5); Van Buren (O, 5).
- Lepidium campestre* (L.) R. Br., Cow Cress—Henry (W); Jefferson (P).
- Lepidium virginicum* L., Wild Peppergrass—Henry (O, W, 5); Jefferson (A, C, P, 5); Van Buren (B, O, 5).
- Lesquerella gracilis* (Hook.) Wats., Slender Bladderpod—Jefferson (P).
- Radicula Armoracia* (L.) Robinson, Horse Radish—Henry (W); Jefferson (C, P); Van Buren (O, 5).
- Radicula obtusa* (Nutt.) Greene, Blunt-leaved Yellow-Cress—Jefferson (P).
- Radicula palustris* (L.) Moench., Marsh Cress—Henry (O, W, 4); Jefferson (A, C, P); Van Buren (O, 3, 5).
- Radicula palustris* (L.), Moench., var. *hispida* (Desv.) Robinson, Hispid Marsh Cress—Van Buren (4).
- Radicula sessiliflora* (Nutt.) Greene, Sessile-flowered Cress—Jefferson (C, P); Van Buren (3).
- Radicula sinuata* (Nutt.) Greene, Sinuate-leaved Cress—Henry (W).
- Raphanus Raphanistrum* L., Jointed Charlock—Henry (W); Jefferson (A).
- Selenia aurea* Nutt., Selenia—Jefferson (A).
- Sisymbrium altissimum* L., Tumble Mustard—Henry (O, W); Jefferson (A, C, P).
- Sisymbrium canescens* Nutt., Tansy Mustard—Henry (W); Jefferson (P); Van Buren (P).
- Sisymbrium officinale* (L.) Scop., Hedge Mustard—Henry (O, W, 5); Jefferson (A, C, P, 5); Van Buren (O, 5).
- Sisymbrium officinale* (L.) Scop., var. *leiocarpum* DC., Smooth Hedge Mustard—Henry (2); Jefferson (P, 2); Van Buren (2).
- Sisymbrium Thalianum* (L.) J. Gay, Mouse-ear Cress—Jefferson (O); Van Buren (P).
- Thlaspi arvense* L., Field Penny Cress—Henry (W); Jefferson (A, P); Van Buren (O).

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