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Polygonum in the State of Iowa

G. L. Wittrock

Grinnel College

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POLYGONUM IN THE STATE OF IOWA

G. L. WITROCK

The Polygonums have been reviewed with the view to find out their occurrence and distribution in the state of Iowa. Twenty species are found in the state. Grateful acknowledgment is made to Dr. L. H. Pammel and Mr. R. I. Cratty of the State College at Ames, and to Professors Shimek and Wylie of Iowa City, for the use of their herbarium collections.

In the following lists, the paper shows Polygonum as represented in the Grinnell herbarium and the two main herbaria of the State.

IOWA POLYGONUMS IN THE GRINNELL HERBARIUM

<table>
<thead>
<tr>
<th>Species</th>
<th>Location Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>P. acre</td>
<td>Grinnell (H. M. T.).</td>
</tr>
<tr>
<td>P. avicularare</td>
<td>Grinnell (H. M. T.).</td>
</tr>
<tr>
<td>P. avicularare var.</td>
<td>Grinnell (H. S. Conard).</td>
</tr>
<tr>
<td>P. convolvulus</td>
<td>Grinnell (H. S. Conard).</td>
</tr>
<tr>
<td>P. cuspidata</td>
<td>Grinnell (H. S. Conard).</td>
</tr>
<tr>
<td>P. dumetorum</td>
<td>Westfield (H. S. Conard).</td>
</tr>
<tr>
<td>P. hydropiper</td>
<td>Grinnell (H. M. T.).</td>
</tr>
<tr>
<td>P. exsertum</td>
<td>Grinnell (H. S. Conard); verified by J. K. Small.</td>
</tr>
<tr>
<td>P. lapathifolium</td>
<td>Grinnell (H. M. T.).</td>
</tr>
<tr>
<td>P. Muhlenbergii</td>
<td>Grinnell (H. S. Conard).</td>
</tr>
<tr>
<td>P. orientale</td>
<td>Grinnell (H. S. Conard); Eldora, Hardin county (H. S. C.).</td>
</tr>
<tr>
<td>P. pennsylvanica</td>
<td>Grinnell (B. Fink).</td>
</tr>
<tr>
<td>P. persicaria</td>
<td>Grinnell (H. M. T.).</td>
</tr>
<tr>
<td>P. ramosissimum</td>
<td>Grinnell (H. S. Conard).</td>
</tr>
<tr>
<td>P. sagittatum</td>
<td>Grinnell (H. S. Conard).</td>
</tr>
<tr>
<td>P. scandens</td>
<td>Grinnell (H. S. Conard); Eldora (W. Ellsworth).</td>
</tr>
<tr>
<td>P. virginianum</td>
<td>Grinnell (E. Swinehart).</td>
</tr>
</tbody>
</table>

IOWA POLYGONUMS IN THE AMES HERBARIUM

<table>
<thead>
<tr>
<th>Species</th>
<th>Location Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>P. acre</td>
<td>Emmet county (B. O. Wilden); Fairfield; Traer (L. H. Pammel and R. J. Beecroft); Spirit Lake (L. H. Pammel); Faizer; Little Rock (L. H. Pammel); Clear Lake (R. I. Cratty); Decatur county (J. P. Anderson); Granite (L. H. Pammel); Belmond (G. C. Clark); Lake Mills (L. H. Pammel); Mason City; Fayette (B. Fink); Des Moines (L. H. Pammel); Marshalltown; Mt. Pleasant; Greenfield (F. C. Stewart); Eddyville</td>
</tr>
</tbody>
</table>
(L. H. Pammel); Marion (L. H. Pammel); Brayton (L. H. Pammel).

P. amphibium
Emmet county (R. I. Cratty); Kossuth county (L. H. Pammel).

P. aviculare
Washington (L. H. Pammel); Fraser (L. H. Pammel); Ames (R. E. Jeffs); New Hampton (P. H. Rolfs); Fayette county (B. Fink); Marshalltown (L. H. Pammel); Forest City (B. A. Blumner); Slater (H. S. Fawcett); Adel (Chas. F. Clark); Decatur county (J. P. Anderson); Des Moines (A. L. Bakke); Creston.

P. camporum
Granite; Emmetsburg (L. H. Pammel); Little Rock (L. H. Pammel); Muscatine county (L. H. Pammel); Slater (L. H. Pammel).

P. convolvulus
Decatur county (L. H. Pammel); Ames (L. H. Pammel); Boone; Cedar Rapids (R. E. Buchanan); Kelley (Pearl Clayton); Winneshiek county (H. Goddard); Mason City (L. H. Pammel); Osage (R. I. Cratty); Fayette county (B. Fink); New Hampton (P. H. Rolfs); Steamboat Rock (L. H. Pammel); Worth county (L. H. Pammel).

P. dumetorum
Decatur county (J. P. Anderson).

P. erectum
Ames (L. H. Pammel); Des Moines (L. H. Pammel); Fayette county (B. Fink); Worth county (L. H. Pammel); Keokuk (P. H. Rolfs); Decatur county (J. P. Anderson).

P. Hartwrightii
Eagle Grove (R. E. Buchanan); Jewell Junction (F. C. Stewart); Slater; Emmet county (R. I. Cratty).

P. hydropiper
Ames (L. H. Pammel); Saratoga; Centerville; Marshalltown (L. H. Pammel); Winneshiek county (H. Goddard); Nevada (L. H. Pammel); Gillett Grove (L. H. Pammel); Fayette county (C. C. Parker); Emmet county (B. O. Wolden); Des Moines (L. H. Pammel); Forest City (L. H. Pammel); Decatur county (J. P. Anderson).

P. lapathifolium
Charles City (C. L. Webster); Glenwood (L. H. Pammel); Granite (L. H. Pammel); Decatur county (J. P. Anderson); Forest City (L. H. Pammel); Hamilton county (L. H. Pammel); Ames (L. H. Pammel); Iowa Falls (W. E. Peck); Boone (L. H. Pammel); Washington (L. H. Pammel).

P. lapathifolium var. incarnatum
Ames (L. H. Pammel); Kelley; Steamboat Rock (L. H. Pammel); Eagle Grove (L. H. Pammel); Des Moines (L. H. Pammel).

P. Muhlenbergii
Ogden (L. H. Pammel); Peru (Dr. Hollingworth); Osage (Mrs. F. M. Tuttle); Slater (H. S. Fawcett); Osceola (S. B. Burham); Decatur county (J. P. Anderson); Springville (W. N. Martin); Ames (J. R. Camp-
POLYGONUM IN IOWA

bell); Centerville (L. H. Pammel); Eddyville (L. H. Pammel); Mt. Pleasant (J. H. Mills); Forest City (L. H. Pammel); Emmet county (B. O. Wolden); Belmond (L. H. Pammel); Decorah (E. D. Holway); Spirit Lake (L. H. Pammel); Fayette county (B. Fink).

**P. orientale**
McGregor (Ada Hayden); Eddyville (L. H. Pammel); Ames (L. H. Pammel).

**P. persicaria**
Des Moines (Geo. Graver); Ames (L. H. Pammel); Emmet county (B. O. Wolden); Wright county (S. C. Clark); Charles City (L. H. Pammel); Decatur county (J. P. Anderson); New Hampton (P. H. Rolfs); Marshalltown (L. H. Pammel); Nevada (L. H. Pammel); Hamilton county (L. H. Pammel); Garner (L. H. Pammel); Kelley (Pearl Clayton); Frazer; Gillett Grove; Algona (E. B. Watson).

**P. pennsylvanica**
Shenandoah (L. H. Pammel); Emmet county (L. H. Pammel); Traer (L. H. Pammel); Granite; Decatur county (T. J. Fitzpatrick); Steamboat Rock (L. H. Pammel); Saratoga (L. H. Pammel); Madison county (L. H. Pammel); Frazer; Council Bluffs (L. H. Pammel); Keystone (L. H. Pammel); Boone county (T. Macklin); Sioux City (L. H. Pammel); Little Rock (L. H. Pammel); Rock Rapids (L. H. Pammel); Garner (L. H. Pammel); Des Moines (A. L. Bakke); Charles City (L. H. Pammel and Sherman); Marshalltown (L. H. Pammel); Fayette county (E. E. Parker); Hartwick; New Hampton (P. H. Rolfs); Keokuk (P. H. Rolfs); Burlington (L. H. Pammel); Washington (L. H. Pammel); Oelwein (L. H. Pammel).

**P. ramosissimum**
Sioux City (L. H. Pammel); Lime Springs (L. H. Pammel); Decatur county (J. P. Anderson).

**P. sagittatum**
Saratoga (L. H. Pammel); Charles City (F. M. Tuttle); Manchester (L. H. Pammel); Fayette county (B. Fink); Winneshiek county (H. Goddard); Keokuk (P. H. Rolfs).

**P. scandens**
Ames (Ada Hayden); Polk City (L. H. Pammel); Boone county (L. H. Pammel); Emmet county (L. H. Pammel); Des Moines (A. L. Bakke); Kelley (H. S. Fawcett); Eddyville (L. H. Pammel); Fayette county (B. Fink); Cedar Falls; Estherville (L. H. Pammel); Slater; Greenfield (F. C. S.); Steamboat Rock (L. H. Pammel); Traer (J. W. Provan); Ontario (E. R. Hodson); College Park (Fred Rolfs); Decorah (Holway).

**P. tenue**
Decorah (E. D. Holway); Granite (L. H. Pammel); Cedar Falls (L. H. Pammel); Muscatine (L. H. Pammel).

**P. virginianum**
Madison county (L. H. Pammel); Decatur county (T.
IOWA POLYGONUMS IN THE UNIVERSITY HERBARIUM

P. acre Lee county (Paul Bartsch); Iowa City; Lyon county (B. Shimek); Winnebago county (B. Shimek).

P. amphibium Ames (Hitchcock).

P. aviculare Johnson county (Mary Linder); Hancock county (B. Shimek).

P. camporum Johnson county (B. Shimek); Lee county (Paul Bartsch); Emmet county (B. Shimek); Ft. Dodge (W. H. Boehm); Story county (Hitchcock).

P. convolvulus Farragut (B. Shimek); Ft. Dodge (W. H. Boehm); Johnson county (B. Shimek); Winnebago county (B. Shimek); Muscatine county (B. Shimek); Floyd county (B. Shimek); Emmet county (Cratty); Lee county (B. Shimek); Cerro Gordo county (B. Shimek); Dickinson county (B. Shimek); Ames (Hitchcock); Lyon county (B. Shimek); Jasper county (Misses Cavanagh and Dubal).

P. cuspidata Iowa City (Macbride).

P. erectum Story county (Hitchcock); Calhoun county (G. B. Riggs).

P. exsertum Johnson county (B. Shimek).

P. Hartwrightii Calhoun county (G. B. Riggs); Emmet county (Cratty); Forest City (B. Shimek).

P. hydropiper Mason City (B. Shimek); Des Moines (Paul Bartsch); Mt. Pleasant (J. H. Mills; Ames (Hitchcock).

P. lapathifolium Johnson county (B. Shimek); Onslow (J. E. Cameron); Emmet county (B. Shimek); Des Moines (Bartsch).

P. lapathifolium var. Story county (Hitchcock); Dickinson county (B. Shimek); Hancock county (B. Shimek).

P. Muhlenbergii Cedar Rapids (B. Shimek); Story county (Ball and Johnson); Lyon county (B. Shimek); Muscatine county (Reppert).

P. orientale Johnson county (B. Shimek).

P. persicaria Ames (Hitchcock); Ft. Dodge (Boehm).

P. pennsylvanica Delaware county (J. E. Cameron); Winnebago county
POLYGONUM IN IOWA

(B. Shimek); Ames (Hitchcock); Rock Rapids; Lyon county (B. Shimek); Johnson county (T. H. Macbride); Atlantic (C. W. Weidner); Des Moines county (Paul Bartsch); Clayton county (T. J. Fitzpatrick); Lee county (B. Shimek); Hancock county (B. Shimek); Pottawattamie county (J. E. Cameron); Calhoun county (G. B. Riggs); Jackson county (B. Shimek).

P. ramosissimum Jasper county (Misses Cavanagh and Dubal); Freemont county (B. Shimek); Winnebago county (B. Shimek).

P. sagittatum Iowa City (Type specimen); Cedar Rapids (Macbride); Johnson county (B. Shimek). There is an interesting specimen from Norytung Khasia, India, 5000 ft. Alt., col. by C. B. Clarke in 1886.

P. scandens Emmet county (B. Shimek); Hancock county (B. Shimek); Johnson county (B. Shimek); Muscatine county (Reppert); Story county (Hitchcock).

P. tenue Decorah; Winneshiek county (Cratty and Holway); Louisa county (Shimek and Myers); Lyon county (B. Shimek); Muscatine county (Reppert).

P. virginianum Story county (Ball and Pammel); Lee county (Bartsch); Winneshiek county (H. Goddard); Johnson county (B. Shimek).

DEPARTMENT OF BOTANY,
GRINNEL COLLEGE.