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SUPPLEMENT TO  
AN ANNOTATED FLORA OF THE CHICAGO AREA BY H. S. PEPOON

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Numerous articles and much additional information accumulated since the appearance of *An Annotated Flora of the Chicago Area* by Dr. H. S. Pepon, call for a supplement to the original work that it may remain of the greatest possible value. All authentic additions to the flora and all records of plants originally included in the flora that, because of changes in nomenclature or incorrect identification of specimens, become equivalent to a valid form, are recorded. Several apparently overlooked published records of plants are omitted as they are rare escapes from cultivation, unestablished foreign adventives, or equivalents of an included form. Further work is in many cases necessary to determine the valid inclusion in the flora of certain foreign adventives. Forms have not been deleted from the flora merely because they are rare adventives or escapes from cultivation with only one or two records to their credit although in any future enumeration of the flora this fact should be more clearly indicated. Reference is usually made to the first published report although occurrence may have been verified from unpublished records. For Deam's reports, however, the latest editions of his works on the trees and shrubs of Indiana have been cited as they are the most detailed and accurate.

Changes due merely to revised nomenclatorial concepts are not included.

For botanical purposes the Chicago Area is extended to include all of Cook, DuPage, and Lake Counties, Illinois and Lake and Porter Counties, Indiana, for the slight increase in species thus occasioned is far offset by the easier ascertainment of the limits of the region.

I am much indebted to Mr. A. M. Bailey, Mr. C. C. Deam, Dr. N. C. Fassett, Dr. J. M. Greenman, Dr. Theodor Just, Dr. M. W. Lyon, Dr. W. T. McLaughlin, Dr. B. L. Robinson, Dr. P. C. Standley, and Dr. L. R. Tehon for use of and information concerning the specimens in the herbaria under their supervision; and especially to Mr. C. C. Deam and Dr. H. S. Pepon for reading the manuscript and offering many helpful suggestions, and to Mr. D. C. Peattie for much information concerning reports in his flora of the dune region.

## ADDITIONS TO THE FLORA OF THE CHICAGO AREA

- Equisetum kansanum* Schaffner. Porter Co. Ind. (Deam no. 20,062)  
*Equisetum nelsoni* (Eaton) Schaffner. Lake Co. Ind. (Deam, 1928)  
*Lycopodium tristachyum* Pursh. Lake and Porter Cos. Ind. (Peattie, 1930)  
*Typha angustifolia* var. *calumetensis* Peattie. Lake Co. Ind. (Peattie, 1926)  
*Sparganium chlorocarpum* Rydberg. Lake Co. Ind. (Deam herb.: Umbach specimen).  
*Potamogeton crispus* Linnaeus. Cook Co. Ill. (Hull, 1913)  
*Potamogeton praelongus* Wulf. Lake Co. Ind. (Hill, 1885)  
*Najas flexilis* var. *robusta* Morong. Lake Co. Ind. (Peattie, 1930)  
*Najas guadelupensis* (Sprengel) Morong. Cook Co. Ill. (Peattie, 1930)  
*Elodea nuttallii* (Planchon) St. John. Cook Co. Ill. (Peattie, 1930)  
*Paspalum ciliatifolium* var. *stramineum* (Nash) Fernald. Lake Co. Ind. (Deam, 1929, as *P. stramineum*)  
*Panicum addisonii* Nash. Porter Co. Ind. (Lyon, 1927 as *P. mattamus-keetense*)  
*Panicum auburne* Ashe. Porter Co. Ind. (Hill, 1915)  
*Panicum commutatum* var. *ashei* (Pearson) Fernald. Porter Co. Ind. (Hill, 1915, as *P. ashei*)  
*Panicum deamii* Hitchcock & Chase. Lake Co. Ind. (Deam, 1929)  
*Panicum lanuginosum* var. *septentrionalis* Fernald. Lake Co. Ind. (Deam, 1929, as *P. lindheimeri* var. *septentrionalis*)  
*Panicum meridionale* var. *albemarlense* (Ashe) Fernald. Porter Co. Ind. (Hill, 1915, as *P. albemarlense*)  
*Panicum villosissimum* var. *pseudopubescens* (Nash) Fernald. Porter Co. Ind. (Lyon, 1927, as *P. pseudopubescens*)  
*Zizania aquatica* var. *angustifolia* Hitchcock. Lake Co. Ind. (Peattie, 1930)  
*Zizania aquatica* var. *interior* Fassett. Lake Co. Ind. (Peattie, 1930)  
*Milium effusum* Linnaeus. Porter Co. Ind. (Peattie, 1930)  
*Oryzopsis asperifolia* Michaux. Lake and Porter Cos. Ind. (Deam, 1929)  
*Oryzopsis pungens* (Torrey) Hitchcock. Porter Co. Ind. (Lyon, 1927)  
*Muhlenbergia foliosa* (R. & S.) Trinius. Lake and Porter Cos. Ind. (Deam, 1929)  
*Bromus altissimus* Pursh. Porter Co. Ind. (Peattie, 1930)  
*Elymus riparius* Wiegand. Porter Co. Ind. (Peattie, 1930)  
*Elymus virginicus* var. *jejunis* (Romaley) Bush. Lake Co. Ind. (Deam, 1905, as *E. glaucus*)  
*Elymus virginicus* var. *submuticus* Hooker. Lake Co. Ind. (Deam, 1929)  
*Cyperus flavescens* Linnaeus. Cook Co. Ill. (Higley & Raddin, 1891)  
*Cyperus strigosus* var. *robustior* Kunth. Porter Co. Ind. (Peattie, 1930)  
*Eleocharis smallii* Britton. Lake Co. Ind. (Deam, 1930)  
*Scirpus eriophorum* Michaux. Lake and Porter Cos. Ind. (Peattie, 1930)  
*Scirpus pedicellatus* Fernald. Lake Co. Ind. (Deam no. 50,562)  
*Scirpus rubrotinctus* Fernald. Lake Co. Ill. (Gates, 1909)  
*Scirpus smithii* var. *setosa* Fernald. Porter Co. Ind. (Lyon, 1927)  
*Eriophorum angustifolium* Roth. Lake Co. Ill. (Gates, 1909)  
*Carex deflexa* Hornemann. Lake Co. Ind. (Peattie, 1930)  
*Carex glaucoidea* Tuckerman. Lake Co. Ind. (Peattie, 1930)  
*Carex hassei* Bailey. Lake Co. Ind. (Deam, 1928)  
*Carex laxiculmis* Schweinitz. Porter Co. Ind. (Lyon, 1927)  
*Carex ormostachya* Wiegand. Porter Co. Ind. (Deam, 1928)  
*Carex prairea* Dewey. Lake Co. Ind. (Peattie, 1930)  
*Carex rugosperma* Mackensie. Lake Co. Ind. (Deam, 1928)

- Carex schriversi* Britton. Lake Co. Ind. (Herman no. 1040)  
*Carex strictior* Dewey. Porter Co. Ind. (Deam, 1928)  
*Carex swanii* (Fernald) Mackensie. Porter Co. Ind. (Lyon, 1927)  
*Carex tonsa* (Fernald) Bicknell. Porter Co. Ind. (Deam, 1917)  
*Carex vesicaria* var. *monile* (Tuckerman) Fernald. Lake Co. Ind. (Peattie, 1930)  
*Carex woodii* Dewey. Porter Co. Ind. (Deam no. 40,440)  
*Commelina angustifolia* Michaux. Porter Co. Ind. (Deam, 1917)  
*Commelina communis* var. *verticillata* Peattie. Lake Co. Ind. (Peattie, 1926)  
*Juncus effusus* var. *pylpei* (Laharpe) Fernald & Wiegand. Lake and Porter Cos. Ind. (Univ. Wisc. Herb.: Umbach specimens)  
*Juncus gerardii* Loisel. Lake Co. Ind. (Higley & Raddin, 1891)  
*Juncus interior* Wiegand. Lake Co. Ind. (Peattie, 1930)  
*Juncus scirpoides* Lamarck. Lake Co. Ind. (Hill, 1899)  
*Juncus tenuis* var. *antheratus* Wiegand. Lake and Porter Cos. Ind. (Peattie, 1930)  
*Allium stellatum* Ker. Porter Co. Ind. (Standley, 1932)  
*Maianthemum canadense* var. *interius* Fernald. Lake and Porter Cos. Ind. (Deam, 1926)  
*Sisyrinchium atlanticum* Bicknell. Lake and Porter Cos. Ind. (Deam, 1922)  
*Spiranthes lucida* (Eaton) Ames. Lake Co. Ind. (Field Museum herb. no. 718,743)  
*Corallorrhiza odontorhiza* Nuttall. Porter Co. Ind. (Deam no. 17,993)  
*Salix lucida* var. *intonsa* Fernald. Lake Co. Ind. (Peattie, 1930)  
*Ostrya virginiana* var. *glaudulosa* Sargent. Lake and Porter Cos. Ind. (Deam, 1931a)  
*Betula nigra* Linnaeus. Lake and Porter Cos. Ind. (Deam, 1931a)  
*Alnus rugosa* (Du Roi) Sprengel. Lake and Porter Cos. Ind. (Deam, 1932)  
*Pilea fontana* (Lunell) Rydberg. Porter Co. Ind. (Lyon, 1928, as *Adicca fontana*)  
*Boehmeria cylindrica* var. *drummondii* Weddell. Porter Co. Ind. (Lyon, 1927 as *B. c.* var. *scabra*)  
*Rumex mexicanus* Meisner. Cook Co. Ill. (Field Museum: H. H. Smith nos. 5647, 5933, & 5949 and Lansing nos. 442, 1414, 1352.)  
*Chenopodium bushianum* Aellen. Lake and Porter Cos. Ind. (Deam, 1931)  
*Chenopodium lanceolatum* Muhlenberg. Porter Co. Ind. (Deam no. 39,737)  
*Atriplex patula* var. *littoralis* (Linnaeus) Gray. Lake and Porter Cos. (Peattie, 1930)  
*Corispermum nitidum* Kitaidel. Porter Co. Ind. (Standley, 1932)  
*Stellaria graminea* Linnaeus. Lake Co. Ind. (Peattie, 1930)  
*Stellaria longipes* Goldie. Cook Co. Ill. (Higley & Raddin, 1891)  
*Silene csereii* Baumgarten. Lake Co. Ind. (Fassett, 1934)  
*Silene dichotoma* Ehrhart. Cook Co. Ill. (Field Museum: Calkin no. 122)  
*Ranunculus hispidus* Michaux. Lake and Porter Cos. Ind. (Peattie, 1930)  
*Erucastrum pollichii* S. & S. Porter Co. Ind. (Standley, 1932)  
*Arabis glabra* (Linnaeus) Bernhardt. Porter Co. Ind. (Lyon, 1927)  
*Heuchera richardsonii* var. *grayana* R., B., & L. Lake & Porter Cos. Ind. (Deam nos. 20,102 & 20,053)  
*Ribes americanum* var. *mesochora* (Nwl.) Peattie. Porter Co. Ind. (Nieuwland, 1915, as *Coreosma americana* var. *mesochora*)  
*Crataegus* spp. await an adequately rational treatment of the genus.  
*Rubus idaeus* var. *canadensis* Richardson. Lake Co. Ind. (Deam, 1932)  
*Rosa lyoni* Pursh. Lake Co. Ind. (Peattie, 1932)  
*Rosa setigera* var. *tomentosa*. Cook Co. Ill. (Deam, 1932)

- Prunus virginiana* var. *demissa* (Walpole) Torrey. Lake and Porter Cos. Ind. (Deam, 1932)
- Tephrosia virginiana* var. *holosericea* (Nuttall) Torrey & Gray. Porter Co. Ind. (Peattie, 1930)
- Coronilla varia* Linnaeus. Lake Co. Ind. (Standley, 1932)
- Robinia hispida* Linnaeus. Lake Co. Ind. (Hull, 1934)
- Glycyrrhiza lepidota* Pursh. Porter Co. Ind. (Hull, 1934a)
- Desmodium rotundifolium* (Michaux) DeCandolle. Cook Co. Ill. (Higley & Raddin, 1891)
- Lespedeza capitata* var. *longifolia* (DeCandolle) T. & G. Lake and Porter Cos. Ind. (Peattie, 1930)
- Lathyrus venosus* var. *intonsus* Butters & St. John. Lake and Porter Cos. Ind. (Deam, 1930)
- Geranium bicknellii* Britton. Lake Co. Ind. (Deam, 1921)
- Euphorbia lansingii* Millspaugh. Cook Co. Ill. (Field Museum: Lansing no. 204 is type specimen)
- Acer negundo* var. *violaceum* Kirchner. Lake and Porter Cos. Ind. (Deam, 1931a)
- Vitis vulpina* var. *syrticola* Fernald & Wiegand. Lake and Porter Cos. Ind. (Deam, 1932)
- Hypericum boreale* (Britton) Bicknell. Porter Co. Ind. (Peattie, 1930)
- Lechea tenuifolia* Michaux. Porter Co. Ind. (Lyon, 1927)
- Viola incognita* var. *forbesii* Brainerd. Porter Co. Ind. (Peattie, 1930)
- Decodon verticillatus* var. *laevigatus* T. & G. Lake Co. Ind. (Deam, 1919)
- Oenothera laciniata* Hill. Porter Co. Ind. (Lyon, 1927, as *Raimannia laciniata*)
- Oenothera pratensis* (Small) Robinson. Porter Co. Ind. (Peattie, 1930)
- Circaea alpina* Linnaeus. Porter Co. Ind. (Lyon, 1927)
- Proserpinaca palustris* var. *amblyogona* Fernald. Lake Co. Ind. (Peattie 1930)
- Hippuris vulgaris* Linnaeus. Lake Co. Ill. (Field Museum: Gates no. 1756)
- Zizia sylvatica* Benke. Cook Co. Ill. (Benke, 1932)
- Styrax americana* Lamarck. Lake and Porter Cos. Ind. (Deam, 1932)
- Apocynum hypericifolium* var. *farwellii* (Greene) Woodson. Lake Co. Ind. (Deam no. 53,924)
- Asclepias meadii* Torrey. Lake Co. Ind. (Brannon specimen in Deam herb.)
- Cuscuta compacta* Jussieu. Lake and Porter Cos. Ind. (Peattie, 1930)
- Phlox paniculata* Linnaeus. Porter Co. Ind. (Deam herb.)
- Phlox maculata* Linnaeus. Cook Co. Ill. (Higley & Raddin, 1891)
- Lithospermum officinale* Linnaeus. Lake Co. Ill. (Gates, 1909)
- Scutellaria parvula* var. *ambigua* (Nuttall) Fernald. Lake Co. Ind. (Peattie, 1930)
- Physostegia speciosa* (Sweet). Lake Co. Ind. (Deam, 1933, as *Dracocephalum speciosum*)
- Satureja vulgaris* (Linnaeus) Fritsch. Porter Co. Ind. (Deam no. 8,806)
- Physalis lanceolata* Michaux. Cook Co. Ill. (Higley & Raddin, 1891)
- Chelone glabra* var. *linifolia* Coleman. Lake and Porter Cos. Ind. (Deam nos. 49,851 and 39,735)
- Penstemon calycosus* Small. Porter Co. Ind. (Lyon, 1927)
- Penstemon digitalis* (Sweet) Nuttall. Lake Co. (Deam, 1924)
- Penstemon pallidus* Small. Cook Co. Ill. (Field Museum: Umbach specimens originally labelled *P. hirsutus*)
- Gratiola mesochora* Peattie. Lake Co. Ind. (Peattie, 1926)
- Veronica officinalis* Linnaeus. Porter Co. Ind. (Deam no. 45,941)
- Aureolaria pedicularia* var. *intercedens* Pennell. Cook Co. Ill. (Field Museum herb. no. 513,717.)

- Agalinis tenuifolia* var. *parviflora* (Nuttall) Pennell. Porter Co. Ind. (Peattie, 1930)
- Campsis radicans* (Linnaeus) Seeman. Lake Co. Ind. (Deam, 1932)
- Galium boreale* var. *intermedium* DeCandolle. Lake Co. Ind. (Deam no. 31,606)
- Galium boreale* var. *hyssopifolium* (Hoffmann) DeCandolle. Lake Co. Ind. (Deam no. 50,564)
- Viburnum affine* var. *hypomalacum* Blake. Lake and Porter Cos. Ind. (Deam, 1932.)
- Vernonia baldwini* Torrey. Lake Co. Ill. (Fassett, 1933)
- Mikania scandens* (Linnaeus) Willdenow. Porter Co. Ind. (Deam no. 26,496)
- Solidago hirtella* (Greene) Bush. Porter Co. Ind. (Lyon, 1927 as *S. graminifolia* var. *nuttallii*)
- Solidago longipetiolata* Mackensie & Bush. Porter Co. Ind. (Friesner, 1933)
- Solidago racemosa* Greene. Lake and Porter Cos. Ind. (Friesner, 1933)
- Solidago uniligulata* var. *levipes* Fernald. Lake Co. Ind. (Friesner, 1933)
- Aster ericoides* var. *pringlei* Gray, Lake Co. Ind. (Peattie, 1930)
- Aster exiguus* (Fernald) Rydberg. Porter Co. Ind. (Deam, 1934)
- Aster furcatus* Burgess. Porter Co. Ind. (Peattie, 1930)
- Aster interior* Wiegand. Cook Co. Ill. (Field Museum: Benke nos. 5625, 5628, 5632, 5637, 5639, & 5641)
- Aster missouriensis* var. *thyrsoides* (Gray) Wiegand. Porter Co. Ind. (Deam no. 26,479)
- Aster parviceps* (Burgess) M. & B. Cook Co. Ill. (Field Museum: Gates no. 1005) Du Page Co. Ill. (Field Museum: E. C. Smith nos. 563 & 583)
- Aster pilosus* Willdenow. Porter Co. Ind. (Benke, 1932)
- Aster puniceus* var. *demissus* Lindley. Porter Co. Ind. (Peattie, 1930)
- Antennaria occidentalis* Greene. Lake Co. Ind. (Peattie, 1930)
- Antennaria parlinii* Fernald. Porter Co. Ind. (Lyon, 1927)
- Silphium terabinthinaceum* var. *pinnatifidum* Torrey & Gray. Lake and Porter Cos. Ind. (Peattie, 1930)
- Brauneria angustifolia* (DeCandolle) Heller. Lake Co. Ind. (Peattie, 1933)
- Madia capitata* Nuttall. Porter Co. Ind. (Deam, 1930)
- Helianthus ambiguus* (Gray) Britton. Lake Co. Ind. (Deam 42,284) Cook Co. Ill. (Field Museum herb. no. 68,144)
- Helianthus arenicola* Watson. Lake Co. Ind. (Deam no. 49,697) and Cook Co. Ill. (Field Museum herb. no. 485,663)
- Coreopsis tripteris* var. *deamii* Standley. Lake Co. Ind. (Standley, 1930)
- Coreopsis tripteris* var. *intercedens* Standley. Cook and DuPage Cos. Ill. and Porter Cos. Ind. (Standley, 1930)
- Bidens discoidea* (T. & G.) Britton. Porter Co. Ind. (Lyon, 1927)
- Bidens aristosa* var. *mutica* (Gray) Gattering. Porter Co. Ind. (Deam, 1928)
- Senecio aureus* var. *gracilis* (Pursh) Britton. Cook Co. Ill. (Greenman, 1903)
- Senecio aureus* var. *semicordatus* (M. & B.) Lake Co. Ind. (Greenman, 1903)
- Senecio plattensis* Nuttall. Porter Co. Ind. (Lyon, 1927)
- Sonchus uliginosa* Bieberstein. Cook Co. Ill. (Field Museum: Standley no. 57,450 and Benke nos. 5601 and 5608)

## DELETIONS FROM THE FLORA OF THE CHICAGO REGION

- Aspidium simulata*. Referred to *Thelypteris palustris* Schott (Fassett, 1933)
- Lycopodium clavatum*. Northern in range, reports in error
- Lycopodium obscurum*. Referred to variety *dendroideum* Michaux
- Panicum barbulatum*. Synonymous with *P. dichotomum* Linnaeus
- Panicum scoparium*. Referred to *P. scribnerianum* Nash (Deam, 1929)
- Panicum huachucae silvicola* and *P. tennesseense*. Synonyms of *P. lanuginosum* var. *fasciculatum* (Torrey) Fernald (*P. huachucae* Ashe)
- Aristida gracillis*. Referred to *A. intermedia* Scribner & Ball (Deam, 1929)
- Bromus hordeaceus*. Referred to *B. comutatus* Schrader (Fassett, 1933)
- Agropyron biflorum*. Referred to *A. caninum* forma *pubescens* (S. & S.) R. & P. (Deam, 1929)
- Rynchospora corniculata*. Referred to *R. macrostachya* Torrey (Fassett, 1933)
- Rynchospora glomerata paniculata*. Referred to the type.
- Carex livida*. An eastern form not found in the region
- Carex stellulata cephalantha*. Referred to the type only.
- Juncus dichotomus* and *J. setaceus*. Coastal plain forms only
- Lilium canadense* and *L. superbum*. Referred to *L. michiganense* Farwell
- Smilax glauca*. Referred to *S. hispida* Muhlenberg
- Smilax rotundifolia quadrangulata*. Referred to the type
- Salix nigra falcata*. Referred to the type, not distinguishable
- Betula lenta*. Referred to *B. lutea* Michaux (Deam, 1931)
- Quercus stellata*. Southern and eastern only
- Quercus coccinea*. Referred to *Q. ellipsoidalis* Hill
- Quercus michauxii*. Referred to *Q. muhlenbergii* Engelm
- Rumex elongatus*. Included now in *R. crispus* Linnaeus
- Salsola kali*. Referred to the variety *tenuifolia* Meyer
- Talinum teretifolium*. Referred to *T. rugospermum* Holzinger
- Mitella nuda*. Referred to *M. diphylla* Linnaeus
- Spiraea latifolia*. Referred to *S. alba* DuRoi
- Desmodium viridiflorum*. Referred to *D. dillenii* Darlington
- Oxalis filipes*. Referred to *O. stricta* Linnaeus (Fassett, 1933)
- Callitriche deflexa austini*. Referred to *C. heterophylla* (Fassett, 1933)
- Vitis cinerea*. Referred to *V. labrusca* Linnaeus. (Fassett, 1933)
- Circaea intermedia*. An eastern form only, not found in area
- Cornus asperifolia*. A southern form only, not found in area
- Nyssa sylvatica biflora*. Referred to the type (Fassett, 1933)
- Teucrium canadense littorale*. Referred to *T. occidentale* Gray (Fassett 1933)
- Physalis barbadensis*. Referred to *P. pumila* Nuttall (Fassett, 1933)
- Gerardia laevigata*. Referred to *Aureolaria flava* (Linnaeus) Pennell (Fassett, 1933)
- Gerardia pedicularia*. Referred to the variety *ambigens* Fernald (Fassett, 1933)
- Viburnum cassinoides*. An eastern form not in this region
- Viburnum dentatum*. Referred to *V. affine* Bush and varieties
- Vernonia altissima*. Referred to *V. fasciculata* Michaux and *V. missurica* Rafinesque. (Fassett, 1933 in part correct)
- Vernonia glauca*. Referred to *V. missurica* Rafinesque (Fassett, 1933)
- Lobelia puberula*. A southern form not found in the region
- Solidago arguta*. Referred to *S. patula* Muhl. (Fassett, 1933; Friesner, 1933)
- Solidago bicolor*. Referred to other species (Friesner, 1933)
- Coreopsis major*. A southern and eastern form not in region
- Hieracium marianum*. Referred to *H. gronovii* Linnaeus and *H. scabrum* Michaux (Fassett, 1933)

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