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## PLANTS OF THE LITTLE BEAN MARSH WILDLIFE AREA, PLATTE COUNTY, MISSOURI

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### INTRODUCTION

This report lists the species found throughout the Little Bean Marsh wildlife area. It is hoped this list will provide a basis for future work in the vegetation and ecology of the marsh and the surrounding community.

A brief history of the wildlife area and an analysis of the Little Bean Marsh natural area was given by Castaner and LaPlante (1992a). Little Bean Marsh Wildlife Area contains a vestige of the Missouri River's natural marsh system. The 248 acre remnant oxbow is located at the northeast end of Little Bean Lake in northwest Platte county and lies in the upper Missouri River Section of the Big Rivers Natural Division (Thom and Wilson 1980). Purchased in 1981 by the Missouri Conservation Department, a 151 acre sub-tract containing the marsh was set-aside and designated a natural area within the wildlife area. During the summer of 1986, under a grant from the Missouri Department of conservation, a study of the marsh community of the Little Bean Marsh Wildlife area was undertaken. Using line-intercept transects, the marsh was found to be dominated respectively by *Scirpus fluviatilis*, *Polygonum coccineum*, *Sagittaria brevirostra*, *Leersia oryzoides*, *Scirpus acutus*, and *Typha latifolia*. When no clearly discernible vegetation series could be determined, they suggested that because of periodic flooding the marsh community consisted of a mosaic of catastrophically induced and maintained patches of microcommunities in various stages of successional development.

In an unreported preliminary study, a woody bottomland community within the area was examined along line transects. Using an importance value (IV) based on equal weighing of relative density (number of individuals), relative frequency (distribution among plots), and relative dominance (as a function of diameter at breast height), the community was dominated by understory species such as Rough-leaved Dogwood (*Cornus drummondii*), Redbud (*Cercis canadensis*), and

Paw-paw (*Asimina triloba*) with IV's of 47.9, 40.6, & 29.4 respectively (compared to a theoretical maximum of 300) (Table 1). Ground cover vegetation along the transect was extremely sparse. Only eleven plant species (principally three species of *Galium*) were found. It is suggested that periodic flooding in the wildlife area is responsible for this atypical woody community.

Table 1. Relative frequency, relative density, relative dominance and importance values for woody vegetation greater than 1 cm in diameter found in a bottomland forest of Little Bean Marsh Wildlife Area, Platte county, Missouri, during the summer of 1986.

Species	Freq.	Den.	Dom.	IV.
<i>Cornus drummondii</i> (Roughleaved Dogwood)	8.0	18.3	21.6	47.9
<i>Cercis canadensis</i> (Redbud)	8.0	11.3	21.3	40.6
<i>Asimina triloba</i> (Pawpaw)	4.0	21.4	04.0	29.4
<i>Fraxinus americana</i> (White Ash)	8.0	05.3	13.0	26.3
<i>Morus alba</i> (White Mulberry)	4.0	10.1	06.6	20.7
<i>Fraxinus pennsylvanica</i> (Green Ash)	8.0	04.1	07.8	19.9
<i>Vitis</i> sp. (grape sp.)	8.0	07.7	03.1	18.8
<i>Acer negundo</i> (Box Elder)	8.0	04.1	05.9	18.0
<i>Quercus prinoides</i> (Chestnut Oak)	4.0	07.1	04.3	15.4
<i>Ulmus rubra</i> (Slippery Elm)	8.0	04.7	02.2	14.9
<i>Populus deltoides</i> (Cottonwood)	4.0	00.5	06.0	10.5
<i>Gymnocladus dioica</i> (Kentucky Coffeetree)	4.0	01.1	01.5	06.6
<i>Prunus</i> sp. (wild plums)	4.0	00.5	00.5	05.0
<i>Celtis occidentalis</i> (Hackberry)	4.0	00.5	00.4	04.9
<i>Platanus occidentalis</i> (Sycamore)	4.0	00.5	00.4	04.9
<i>Crataegus</i> sp. (hawthorn)	4.0	00.5	00.2	04.7
<i>Juglans nigra</i> (Black Walnut)	4.0	00.5	00.1	04.6
<i>Carya illinoensis</i> (Bitternut)	4.0	00.5	00.1	04.6
	100.	100.	100.	300.

## METHODS

Extensive collections of plants from the Little Bean Marsh Wildlife Area began in 1981. Further collecting was intensified during 1986 and 1987, under a grant from the Missouri Department of Conservation, and continued into 1991.

Plants were collected, dried, identified, and mounted; and deposited in herbarium of Central Missouri State University (WARM). All specimens have been identified by the senior author.

## RESULTS

A total of 337 taxa, including 320 species, 15 varieties, and 2 putative hybrids, within 77 families and 199 genera, was found in the Little Bean Marsh Wildlife Area. Over half of the taxa were members of the eight most common families: Asteraceae (42 taxa), Poaceae (39), Cyperaceae (25), Fabaceae, s.s., (16), Polygonaceae (16), Rosaceae (11), Euphorbiaceae (11), and Lamiaceae (10).

## NOTES

*Eleocharis atropurpurea* (Cyperaceae) a species previously unreported in Missouri was found growing close to *Scirpus saximontanus*, another rare Missouri species, at the edge of one of the open field depressions near the entrance to the refuge (Castaner 1984). He suggested that since the marsh is very close to the Missouri River these species may occur in similar habitats throughout the region. After floods, newly created depressed mud flats become available for plant establishment. These exposed areas of new fluvial deposits permit rare or uncommon species to prosper until larger herbaceous plants dominate the area. Thus these depressions may behave as refugia for some rare or uncommon species.

*Carex synchocephala* (Cyperaceae) another new species to Missouri was found growing along the south shore of Little Bean Lake within the wildlife area south of the marsh (Castaner 1988).

*Bergia texana* (Elatinaceae), a small and relatively elusive plant, was also reported along the south shore area growing near the *Carex synchocephala* site.

*Chenopodium pratericola* Rydb. (Chenopodiaceae) a goosefoot, previously only reported from waste ground and railroads in Jackson and St. Louis counties was found growing along a path near a parking lot. On the basis of its strong erect growth and narrow upper branching the specimen appears to be this species; however, sepals were somewhat keeled as in *C. desiccatum* A. Nelson. The three-veined leaves and narrow branching separates it from a closely related species, *C. pallescens* Standley.

Other interesting species found in the Wildlife area were *Typha x glauca* Godr., a possible hybrid species of *T. latifolia* and *T. angustifolia*; *Iris pseudacorus* L., a rather uncommon iris; and *Quercus X Bushii* Sarg., a putative hybrid between Black Oak and Blackjack Oak.

In attempting to identify a species of nettle, *Urtica*, (LaPlante 905), the varied

nature of keys and summaries became all too evident. The identity of the specimen was more a function of each summary and its key rather than any set of characteristics. We think it may be *U. urens* L., Dwarf Nettle.

Finally, a variation of subjective importance is noted. Two color flowering forms of *Heteranthera limosa*, blue and white, were found.

### SPECIES LIST

All voucher specimens are deposited in the Herbarium at Central Missouri State University, Warrensburg, Missouri [WARM].

The species list is arranged according to the page in which the species is found in Flora of Missouri (Steyermark 1963); voucher specimens are listed for each taxon. The number of taxa for each family follows the family name. For the purpose of uniformity and timeliness, scientific and common names are those used by Yatsklevych and Turner (1990). When different from Steyermark, referral pages to Yatsklevych and Turner are given in brackets [YT1], followed by the name by which the specimen would be called using Steyermark (S:). New county records (based on Steyermark) are noted with an asterisk (\*). If the species is new to the county an asterisk precedes the species name; if an intraspecific taxon is new to the county an asterisk precedes its name; thus, one specimen may be tallied as a new species and a new variety or form for the county. New state records are noted with a double asterisk (\*\*). Introduced non-native taxa are designated by an exclamation mark (!).

### LIST OF VOUCHER SPECIMENS OF TAXA COLLECTED FROM THE LITTLE BEAN MARSH WILDLIFE AREA FROM 1981 TO 1988

#### FERN ALLIES, FERN, AND CONIFER FAMILIES

##### EQUISETACEAE (2)

- 11    *E. arvense* L., Field Horsetail  
      var. *arvense* f. *arvense* - Castaner 8561
- 12    \**Equisetum hyemale* L., Winter Scouring Rush  
      \*var. *affine* (Engelm.) A. A. Eaton, [YT8],: S: var. *pseudohyemale* (Farw.) Morton - Castaner 10125

##### SALVINIACEAE (1)

- 17    \**Azolla mexicana* Presl., Mosquito Fern - Castaner 7252

## CUPRESSACEAE (1)

- 45 *Juniperus virginiana* L., Red Cedar  
var. *virginiana* - LaPlante 842

## MONOCOT FAMILIES

## TYPHACEAE (3)

- 46 *Typha latifolia* L., Common Cattail  
f. *latifolia* - Castaner 9267, 9266
- 48 \**T. angustifolia* L., Narrow-leaved Cattail - LaPlante 490
- 48 *T. x glauca* Godr., Hybrid Cattail, [YT286], S: *T. glauca* Godr. - Castaner 9267

## SPARGANIACEAE (1)

- 49 \**Sparganium eurycarpum* Engelm., Bur-Reed - LaPlante 511

## POTAMOGETONACEAE (2)

- 52 *Potamogeton pectinatus* L., Fennel-leaved Pondweed - LaPlante 496
- 55 *P. nodosus* Poir., Longleaf Pondweed - Castaner 9274

## NAJADACEAE (1)

- 57 *Najas guadalupensis* (Spreng.) Mangus, Naiad - Castaner 8942

## ALISMACEAE (4)

- 60 *Echinodorus berteroii* (Spreng.) Fassett, Burhead  
var. *berteroii*, [YT221], S: var. *lanceolatus* (Engelm.) Fassett - Castaner 8611
- 62 *Sagittaria calycina* Engelm., Arrowhead, [YT221], S: *S. montevidensis* Cham. & Schl. - Castaner 10127, LaPlante 347
- 64 \**S. brevirostra* Mack. & Bush, Arrowhead, [YT221], S: *S. engelmanniana* subsp. *brevirostra* (Mack. & Bush) Bogin - LaPlante 644
- 66 *S. latifolia* Willd., Duck Potato  
var. *latifolia*, [YT221], S: var. *obtusa* (Muhl.) Wieg. - LaPlante 803

## POACEAE (39)

- 86 !*Bromus japonicus* Thunb. ex Murray, Japanese Brome - Castaner 8548
- 88 *B. tectorum* L., Downy Cress

- !var. *tectorum* - LaPlante 420
- 106 \**Eragrostis capillaris* (L.) Nees, Lace Grass - LaPlante 713
- 107 \**E. frankii* C. A. Meyer, Sandbar Love Grass  
\*var. *frankii* - LaPlante 859
- 108 !*E. ciliaris* (All.) Vign. ex Janchen, Stink Grass - LaPlante 939
- 110 \**E. spectabilis* (Pursh) Steud., Purple Love Grass, [YT262], S: *E. spectabilis*  
var. *sparsihirsuta* Farw. - LaPlante 940
- 113 \**Leptochloa fascicularis* (Lam.) A. Gray, Bearded Spangletop, [YT265],  
S: *Diplachne fascicularis* (Lam.) Beauv. - LaPlante 580
- 116 *Phragmites australis* (Cav.) Trin. ex Steudel, Reed, [YT269], S: *P. communis* Trin. var. *berlandieri* (Fourn.) Fern. - Castaner 8540, LaPlante 646
- 120 *Tridens flavus* (L.) Hitchc., Purple Top  
var. *flavus*, [YT273], S: *f. cupreus* (Jacq.) Fosb. - Castaner 8948
- 124 !\**Triticum aestivum* L., Wheat - LaPlante 267
- 131 *Elymus virginicus* L., Virginia Wild Rye  
var. *virginicus* f. *virginicus* - Castaner 8603  
\*var. *submuticus* Hook. - Castaner 8564
- 133 !*Hordeum pusillum* Nutt., Little Barley - LaPlante 483
- 138 \**Sphenopholis obtusata* (Michx.) Scribn., Wedge Grass  
var. *obtusata*, [YT272], S: var. *lobata* (Trin.) Scribn. - LaPlante 518,  
Castaner 8566
- 152 *Alopecurus carolinianus* Walt., Carolina Foxtail - LaPlante 517
- 156 \**Muhlenbergia frondosa* (Poir.) Fern., Nimble Will  
\*f. *frondosa* - LaPlante 853
- 177 !*Eleusine indica* (L.) Gaertn., Goose Grass - Castaner 10075
- 188 *Phalaris arundinacea* L., Reed Canary Grass - Castaner 9275
- 192 \**L. oryzoides* (L.) Sw., Rice Cut Grass, [YT264], S: *f. oryzoides* - LaPlante 602
- 192 \**Leersia virginica* Willd., White Grass - LaPlante 768
- 194 !\**Digitaria ciliaris* (Retz) Koeler, Southern Crab Grass, [YT258], S: *D. sanguinalis* (L.) Scop. var. *ciliaris* (Retz.) Parl. - Castaner 8604
- 196 !\**D. ischaemum* (Schreb.) Schreb. ex Muhl., Smooth Crab Grass  
\*var. *ischaemum* - LaPlante 881
- 201 \**Paspalum setaceum* Michx., Paspalum  
\*var. *muhlenbergii* (Nash) D. Banks, Paspalum, [YT268], S: *P. ciliatifolium*  
var. *muhlenbergii* (Nash) Fern. - LaPlante 945
- 202 \**P. laeve* Michx., Field Paspalum  
\*var. *laeve* - LaPlante 232
- 220 \**Dicanthelium oligosanthes* Schultes, Panicum,  
\*var. *oligosanthes*, [YT258], S: *Panicum oligosanthes* Schultes var.  
*oligosanthes* - LaPlante 937  
\*var. *scribenianum* (Nash) Gould, [YT258], S: var. *helleri* (Nash) Mohl. -  
Castaner 8950

- 225 \**Panicum dichotomiflorum* Michx., Fall Panic Grass  
    \*var. *dichotomiflorum* - LaPlante 913
- 226 *P. capillare* L., Common Witch Grass  
    var. *capillare* - LaPlante 279
- 228 \**P. virgatum* L., Switch Grass - Castaner 8598
- 233 *E. crusgalli* (L.) Beauv., Barnyard Grass,  
    !\*var. *crusgalli* f. *crusgalli* - LaPlante 952  
    !var. *crusgalli* f. *longiseta* (Trin.) Farw. - Castaner 10072
- 234 *Echinochloa muricata* (Beauv.) Fern., Barnyard Grass  
    var. *muricata* - LaPlante 888
- 237 !\**Setaria pumila* (Poiret) Roemer & Schultes, Yellow Foxtail, [YT270], S: *S. glauca* (L.) Beauv. - Castaner 8585, 10113
- 237 \**S. parviflora* (Poiret) Kerguelen, Prairie Foxtail, [YT270], S: *S. geniculata* (Lam.) Beauv. - LaPlante 656
- 238 !*S. viridis* (L.) Beauv., Green Foxtail  
    var. *viridis* - Castaner 8547, LaPlante 851
- 238 !*S. faberi* F. Herm., Nodding Foxtail - Castaner 10119
- 240 *Cenchrus longispinus* (Hack.) Fern., Sandbur - Castaner 8555
- 248 !*Sorghum halepense* (L.) Pers., Johnson Grass - LaPlante 856

#### CYPERACEAE (25)

- 260 \**Cyperus aristatus* Rottb. - Castaner 10066, 10128
- 262 \**C. erythrorhizos* Muhl. - Castaner 10063
- 264 \**C. esculentus* L., Yellow Nut Grass  
    var. *esculentus* f. *esculentus* - Castaner 7247
- 266 *C. strigosus* L. var. *strigosus* - LaPlante 825
- 274 \*\**Eleocharis atropurpurea* (Retz) Kunth, Spike Rush - Castaner 7260
- 280 \**E. erythropoda* Steud., Spike Rush, [YT231], S: *E. calva* Torr. - Spike Rush - Castaner 10048
- 284 \**Fimbristylis autumnalis* (L.) R. & S. - Castaner 10130
- 286 \*\**Scirpus saximontanus* Fern. - Castaner 7259
- 292 *S. validus* Vahl, Great Bulrush, [YT234], S: var. *creber* Fern. - Castaner 9272
- 292 *S. acutus* Muhl. ex Bigelow, Great Bulrush - Castaner 7249
- 294 *S. fluviatilis* (Torr.) Gray, River Bulrush - Castaner 9265
- 300 \**Fuirena simplex* Vahl., Umbrella Grass - Castaner 7246, 10083
- 302 \**Lipocarpha micrantha* (Vahl) Tucker, [YT232], S: *Hemicarpha micrantha* (Vahl) Britt. - Castaner 10082
- 311 \*\**Carex sychnocephala* Carey - Castaner 10089
- 331 *C. leavenworthii* Dewey - Castaner 6947
- 334 \**C. gravida* Bailey - Castaner 6945
- 335 \**C. vulpinoidea* Michx. - Castaner 7244
- 340 \**C. conjuncta* Boott - LaPlante 486
- 341 \**C. cristatella* Britt. - LaPlante s. n.

- 343 \**C. brevior* (Dew.) Mackenz. - *LaPlante* 102  
 343 *C. molesta* Mackenz. - *Castaner* 6948, 6938  
 354 *C. blanda* Dew. - *Castaner* 6936  
 355 \**C. granularis* Muhl. var. *granularis* - *Castaner* 6935  
 358 *C. amphibola* Steud. var. *turgida* Fern. - *LaPlante* 433  
 374 \**C. hyalinolepis* Steudel - *Castaner* 6946, 6937

#### LEMNACEAE (4)

- 388 *Spirodela polyrhiza* (L.) Schleid, Big Duckweed - *Castaner* 7253, 8934, 8929  
 389 \**Lemna minor* Philippi, Lesser Duckweed - *Castaner* 8932  
 389 \**L. perpusilla* (L.) Torr. - *Castaner* 7263  
 390 \**Wolffia columbiana* Philippi, Water Meal - *Castaner* 7262

#### PONTEDERIACEAE (2)

- 404 *Heteranthera limosa* (Sw.) Willd., Mud Plantain, incl. a blue-flowered form -  
*Castaner* 7256 and a white-flowered form - *Castaner* 7257

#### JUNCACEAE (3)

- 410 *Juncus interior* Wieg., Inland Rush - *Castaner* 6940  
 410 \**J. dudleyi* Wieg. - *Castaner* 8583  
 413 \**J. torreyi* Coville - *Castaner* 7245, 8612, 10076

#### SMILACACEAE (2)

- 451 \**Smilax lasioneuron* Hook., Carrion Flower, [YT277], S: *S. herbacea* L. var.  
*herbacea* - *LaPlante* 505  
 452 \**S. hispida* Muhl., Bristly Greenbrier, [YT277], S: *S. tamnoides* var. *hispida*  
 (Muhl.) Fern. - *LaPlante* 624

#### IRIDACEAE (2)

- 462 \**Iris virginica* L., Southern Blue Flag  
     \*var. *shrevei* (Small) E. Anders. - *LaPlante* 461  
 463 !\**I. pseudacorus* L., Yellow Iris, Yellow Flag - *Castaner* 6941

### DICOT FAMILIES

#### SALICACEAE (8)

- 494 *S. nigra* Marsh., Black Willow - *LaPlante* 475  
 494 *Salix amygdaloides* Anders., Peach-leaved Willow - *LaPlante* 121

- 496 !\**S. fragilis* L., Crack Willow - *LaPlante* 335  
 496 \**S. alba* L., White Willow  
     \*var. *caerulea* (Smith) Smith, [YT194], **S:** *S. calva* G. Mey. - *LaPlante*  
     639  
 497 *S. exigua* Nutt., Sandbar Willow, [YT194], **S:** *S. interior* Rowlee, incl. f. *inte-*  
     *rior* - *Castaner* 9270, *LaPlante* 117, 603, and \*f. *wheeleri* (Rowlee)  
     *Rouleau* - *LaPlante* 684  
 498 \**S. eriocephala* Michx., Diamond Willow, [YT194], **S:** *S. rigida* Muhl.  
     var. *rigida* f. *rigida* - *Castaner* 8597, 9269  
 508 *Populus deltoides* Marsh. ssp. *deltoides*, Cottonwood, [YT193], **S:** *P. del-*  
     *toides* Marsh var. *deltoides* f. *deltoides* - *LaPlante* 226

#### JUGLANDACEAE (2)

- 510 *Juglans nigra* L., Black Walnut  
     f. *nigra* - *LaPlante* 936  
 514 *Carya illinoensis* (Wang.) K. Koch, Pecan - *LaPlante* 837

#### FAGACEAE (4)

- 539 *Quercus prinoides* Willd., Dwarf Chestnut Oak, [YT121], **S:** var. *prinoides* -  
     *LaPlante* 309  
 539 *Q. muehlenbergii* Engelm., Chestnut Oak, [YT121], **S:** incl. *Q. prinoides*  
     var. *acuminata* (Michx.) Gl. f. *acuminata* - *LaPlante* 124, and \*var. *acumina-*  
     *ta*  
     f. *alexanderi* (Britt.) Steyermark. - *LaPlante* 257  
 543 \**Quercus x Bushii* Sarg., Black Oak x Blackjack Oak Putative Hybrid -  
     *LaPlante* 809

#### ULMACEAE (5)

- 554 *Ulmus americana* L., American Elm - *LaPlante* 337  
 555 *U. rubra* Muhl., Slippery Elm - *LaPlante* 144  
 555 !\**U. pumila* L., Siberian Elm - *LaPlante* 575  
 558 *Celtis occidentalis* L., Hackberry  
     \*var. *occidentalis* - *LaPlante* 297  
 560 \**C. laevigata* Willd., Sugarberry  
     \*var. *texana* Sarg. - *LaPlante* 623

#### MORACEAE (2)

- 562 *M. rubra* L., Red Mulberry - *LaPlante* 258  
 562 !*Morus alba* L., White Mulberry  
     var. *alba* f. *alba* - *LaPlante* 131

## CANNABACEAE (1)

- 566 \**Humulus japonicus* Sieb. & Zucc., Japanese Hops - *LaPlante* 802

## URTICACEAE (5)

- 567 *Urtica* sp., Nettle - *LaPlante* 905  
 568 *Laportea canadensis* (L.) Wedd., Wood Nettle - *LaPlante* 633  
 568 *Boehmeria cylindrica* (L.) Sw., False Nettle  
     var. *cylindrica* - *Castaner* 10057  
 570 *Pilea pumila* (L.) Gray, Clearweed - *Castaner* 10056  
 571 *Parietaria pensylvanica* L., Pennsylvania Pellitory  
     var. *pensylvanica* - *Castaner* 10051

## POLYGONACEAE (16)

- 578 *Rumex altissimus* A. Wood, Pale Dock - *LaPlante* 482  
 578 !\**R. patientia* L., Patience Dock - *LaPlante* 933  
 580 !*R. crispus* L., Sour Dock - *Castaner* 8565  
 580 !\**R. stenophyllum* Ledeb. - *Castaner* 10079  
 581 *R. maritimus* L., Glden Dock  
     var. *feuginus* (Phil.) Dusen - *Castaner* 8570, 10053  
 586 \**Polygonum erectum* L., Erect Knotweed - *Castaner* 10132  
 586 !\**P. achoreum* Blake, Polygonum - *LaPlante* 925  
 587 !\**P. aviculare* L., Knotweed  
     \*var. *aviculare* - *LaPlante* 621  
 588 *P. amphibium* L., Water Smartweed  
     var. *emersum* Michx, [YT164], S: incl. *P. coccineum* Muhl. var. *coccineum* f. *coccineum* - *Castaner* 8939 and \*var. *coccineum* f. *natans* (Wieg.) Stanf. - *LaPlante* 743, and var. *pratincola* (Greene) Stanford - *LaPlante* 697  
 590 *P. pensylvanicum* L., Pinkweed  
     var. *laevigatum* Fern. f. *laevigatum* - *LaPlante* 899  
 591 *P. lapathifolium* L., Pale Smartweed  
     var. *lapathifolium* - *Castaner* 10118  
 592 !*P. persicaria* L., Lady's Thumb  
     var. *persicaria* - *Castaner* 10121  
 592 \**P. punctatum* Ell., Water Smartweed  
     \*var. *punctatum* - *Castaner* 8938  
     \*var. *confertiflorum* (Meissn.) Fassett - *LaPlante* 669  
 597 \**P. scandens* L., False Buckwheat  
     \*var. *scandens* - *LaPlante* 934  
     \*var. *cristatum* (Engelm. & Gray) Gl. - *LaPlante* 782

## CHENOPodiACEAE (4)

- 608 !\**Chenopodium* cf. *pratericola* Rydb., Goosefoot, [YT91], **S:** *C. desiccatum*  
var. *leptophyloides* (Murr.) Wahl - Castaner 8582
- 610 *C. simplex* (Torrey) Raf., Maple-leaved Goosefoot, [YT91], **S:** *C. gigantospermum* Aellen - LaPlante 283
- 611 \**C. album* L., Lamb's Quarters, Pigweed  
\*var. *album* - LaPlante 928  
\*var. *lanceolatum* (Muhl. ex Willd.) Coss & Germ. - Castaner 8947

## AMARANTHACEAE (2)

- 621 *Amaranthus rufus* Sauer, Water Hemp, [YT14], **S:** *A. tamariscinus* Nutt.  
- Castaner 10126
- 624 \**A. blitoides* S. Wats., Tumbleweed, [YT14], **S:** *A. graecizans* L. - LaPlante  
728

## PHYTOLACCACEAE (1)

- 630 *Phytolacca americana* L., Pokeweed - LaPlante 287

## CARYOPHYLLACEAE (3)

- 643 !\**Arenaria serpyllifolia* L., Thyme-leaved Sandwort  
\*var. *serpyllifolia* - LaPlante 110
- 648 *Cerastium nutans* Raf., Nodding Chickweed - LaPlante 411
- 654 \**Silene antirrhina* L., Sleepy Catchfly  
\*f. *antirrhina* - LaPlante 106

## CERATOPHYLLACEAE (1)

- 662 *Ceratophyllum demersum* L., Hornwort, Coontail - Castaner 8943

## NELUMBONACEAE (1)

- 668 *Nelumbo lutea* (Willd.) Pers., American Lotus - LaPlante 640

## ANNONACEAE (1)

- 671 *Asimina triloba* (L.) Dunal, Paw-paw - LaPlante 256

## RANUNCULACEAE (2)

- 692 *Ranunculus sceleratus* L., Cursed Crowfoot  
var. *sceleratus* f. *sceleratus* - LaPlante 66

- 702 *Anemone canadensis* L., White Anemone - LaPlante 67

BERBERIDACEAE (1)

- 710 *Podophyllum peltatum* L., May Apple  
f. *peltatum* - LaPlante 401

MENISPERMACEAE (1)

- 714 *Menispermum canadense* L., Moonseed - Castaner 8562

FUMARIACEAE (1)

- 725 *Corydalis micrantha* (Engelm.) Gray ssp. *micrantha*, Small Flowered Corydalis, [YT122], S: *C. micrantha* - Castaner 8537

BRASSICACEAE (8)

- 742 *Thlaspi arvense* L., Field Penny cress - Castaner 8529

- 742 *Capsella bursa-pastoris* (L.) Medikus, Shepherd's Purse  
var. *bursa-pastoris* - Castaner 8530

- 746 *Draba reptans* (Lam.) Fern., Whitlow Grass, [YT70], S: \*var. *micrantha*  
(Nutt.) Fern. - Castaner 8531

- 760 *Rorippa sessiliflora* (Nutt. ex T. & G.) Hitchcock, Sessile-flowered Cress -  
LaPlante 508

- 760 *R. palustris* (L.) Bess. ssp. *glabra* var. *fernaldiana* (Butt. & Abbe) Stuckey,  
Marsh Yellow Cress, [YT73], S: *R. islandica* var. *fernaldiana* Butt. &  
Abbe - Castaner 8576, 9268, 10068

- 764 \**Erysimum repandum* L., Bushy Wallflower - Castaner 8528

- 766 *Camelina microcarpa* Andrz., Littlepod False Flax - LaPlante 88

- 766 *Descurainia pinnata* (Walt.) Britt., Tansy Mustard  
ssp. *brachycarpa* (Richardson) Detl., [YT70], S: *D. pinnata* var. *brachycarpa* (Richards.) Fern. - Castaner 8527

SAXIFRAGACEAE (1)

- 774 *Penthorum sedoides* L., Ditch Stonecrop - Castaner 8575

PLATANACEAE (1)

- 789 *Platanus occidentalis* L., Sycamore, [YT160], S: var. *occidentalis* f. *occidentalis* - LaPlante 122

## ROSACEAE (11)

- 823 *Fragaria virginiana* Duchesne, Wild Strawberry, [YT183], S: \*var. *illinoensis* (Prince) Gray - LaPlante 884
- 827 *Potentilla simplex* Michx., Common Cinquefoil  
var. *simplex* - LaPlante 448
- 828 *P. norvegica* L., Rough Cinquefoil, [YT185], S: var. *norvegica* - Castaner 10122
- 828 \**P. rivulus* Nutt. ex T. & G., Brook Cinquefoil  
\*var. *millegrana* (Engelm.) Wats. - Castaner 10073  
\*var. *penetrandra* (Engelm.) Wats. - Castaner 10115
- 832 *Geum canadense* Jacq., White Avens, [YT183], S: var. *camporum* (Rydb.) Fern. & Weath. - LaPlante 275
- 846 *Agrimonia pubescens* Wallr., Downy Agrimony - LaPlante 808
- 849 !\**Rosa multiflora* Thunb. ex Murray, Multiflora Rose - LaPlante 313
- 849 *R. setigera* Michx., Prairie Rose  
var. *tomentosa* f. *tomentosa* - LaPlante 111
- 860 \**Prunus hortulana* Bailey, Wild Goose Plum - LaPlante 405
- 860 *P. munsoniana* Wight & Hedrick, Wild Goose Plum - Castaner 8931

## MIMOSACEAE (1)

- 870 *Desmanthus illinoensis* (Michx.) MacM. ex Robinson & Fern., Prairie Mimosa - Castaner 8951

## CAESALPINIACEAE (4)

- 872 *Gymnocladus dioica* (L.) K. Koch, Kentucky Coffee Tree - LaPlante 336
- 873 *Gleditsia triacanthos* L., Honey Locust  
f. *triacanthos* - LaPlante 290
- 875 *Chamaecrista fasciculata* (Michx.) E. Greene, Showy Partridge Pea, [YT76], S: *Cassia fasciculata* Michx. var. *fasciculata* f. *fasciculata* - Castaner 8587
- 876 *Cercis canadensis* L., Eastern Redbud  
var. *canadensis* f. *canadensis* - LaPlante 146

## FABACEAE (16)

- 882 *Crotalaria sagittalis* L., Rattlebox, [YT109], S: \*var. *sagittalis* - Castaner 8549
- 886 *Trifolium repens* L.  
!var. *repens*, White Clover, [YT118], S: f. *repens* - Castaner 8596
- 891 !*Medicago lupina* L., Black Medick, [YT113], S: var. *glandulosa* Neirl. - Castaner 10049
- 894 !*Melilotus officinalis* (L.) Pallas, Yellow Sweet Clover - LaPlante 96

- 894 *M. albus* Medikus, White Sweet Clover - *LaPlante* 114  
 898 *Dalea leporina* (Ait.) Bullock, Foxtail Dalea, [YT110], **S:** *D. alopecuroides* Willd. - *LaPlante* 345  
 903 \**Amorpha fruticosa* L., False Indigo, [YT107], **S:** var. *angustifolia* Pursh. - *LaPlante* 615  
 914 *Desmodium glutinosum* (Muhl. ex Willd) A. Wood., Large-flowered Tick Clover, [YT110], **S:** f. *glutinosum* - *LaPlante* 832  
 916 \**D. canescens* (L.) DC., Hoary Tick Clover  
     \*f. *canescens* - *LaPlante* 699  
 918 *D. obtusum* (Muhl. ex. Willd.) DC., Tick Trefoil, [YT111], **S:** *D. rigidum* (Elliot) DC.- *Castaner* 10123  
 922 \**D. paniculatum* (L.) DC., Tick Trefoil, [YT111], **S:** var. *paniculatum* - *La Plante* 320  
 932 *Lespedeza capitata* Michx., Lespedeza, [YT113], **S:** var. *capitata* - *LaPlante* 941  
 947 \**Apios americana* Medikus, Groundnut, [YT107], **S:** var. *americana* f. *pilosa* Steyermark - *LaPlante* 871  
 951 \**Strophostyles helvula* (L.) Elliott, Wild Bean  
     \*var. *helvula* - *Castaner* 10109  
     \*var. *missouriensis* (S. Wats.) Britt - *Castaner* 10110  
 953 *Amphicarpaea bracteata* (L.) Fern., Hog Peanut, [YT107], **S:** var. *bracteata* - *Castaner* 8573

### OXALIDACEAE (1)

- 960 *Oxalis stricta* L., Yellow Wood Sorrel - *Castaner* 8550

### GERANIACEAE (1)

- 963 *Geranium carolinianum* L., Cranesbill, [YT125], **S:** \*var. *confertiflorum* Fernald - *LaPlante* 108

### RUTACEAE (1)

- 966 *Zanthoxylum americanum* Mill., Common Prickly Ash  
     f. *americanum* - *LaPlante* 155

### EUPHORBIACEAE (11)

- 976 *Croton glandulosus* L., Sand Croton  
     var. *septentrionalis* Muell. Arg. - *LaPlante* 592  
 977 *C. capitatus* Michx., Woolly Croton, Hogwort  
     var. *capitatus* - *LaPlante* 780  
 977 *C. monanthogynus* Michx., One-seed Croton - *LaPlante* 923  
 979 \**Acalypha ostryaefolia* Riddell, Three-seeded Mercury - *LaPlante* 852

- 979 \**A. rhomboidea* Raf., Three-seeded Mercury, [YT103], **S:** var. *rhomboidea* - Castaner 8574, 10065
- 979 *A. virginica* L., Three-seeded Mercury - LaPlante 924
- 986 *Euphorbia dentata* Michx., Toothed Spurge, [YT106], **S:** f. *dentata* - Castaner 8546, 10070
- 992 *Chamaesyce. serpens* (HBK.) Small, Round-leaved Spurge, [YT104], **S:** *Euphorbia serpens* HBK. - LaPlante 727
- 992 *C. nutans* (Lag.) Small, Nodding Spurge, [YT104], **S:** *Euphorbia maculata* L. - LaPlante 579
- 994 \**C. maculata* (L.) Small, Milk Purslane, [YT104], **S:** *Euphorbia supina* Raf. - Castaner 8591, 10114
- 996 *C. glyptosperma* (Engelm.) Small, Sand Mat, [YT104], **S:** *Euphorbia glyptosperma* Engelm.- Castaner 8592

#### ANACARDIACEAE (2)

- 1000 *Rhus glabra* L., Smooth Sumac, [YT15], **S:** var. *glabra* - LaPlante 944
- 1004 \**Toxicodendron radicans* (L.) O. Ktze subsp. *pubens* (Engelm.) Gillis, Poison Ivy, [YT16], **S:** *Rhus radicans* var. *radicans* f. *hypomalaca* Fern. - LaPlante 130

#### CELASTRACEAE (2)

- 1008 *Euonymus atropurpureus* Jacq., Wahoo - LaPlante 833
- 1010 *Celastrus scandens* L., American Bittersweet - LaPlante 811

#### ACERACEAE (2)

- 1018 *A. saccharinum* L., Silver Maple - LaPlante 229
- 1018 *Acer negundo* L., Box Elder  
var. *negundo* - LaPlante 123

#### BALSAMINACEAE (1)

- 1026 \**Impatiens capensis* Meerb., Spotted Touch-me-not - LaPlante 273

#### VITACEAE (5)

- 1031 *Ampelopsis cordata* Michx., Raccoon Grape - LaPlante 908
- 1034 *Parthenocissus quinquefolia* (L.) Planch., Virginia Creeper  
\*f. *hirsuta* (Donn) Fern. - Castaner 8580
- 1036 *Vitis aestivalis* Michx., Summer Grape  
\*var. *aestivalis* - Castaner 8578
- 1038 *V. riparia* Michx., River Bank Grape - LaPlante 846
- 1040 \**V. vulpina* L., Winter Grape - LaPlante 312

## MALVACEAE (4)

- 1052 *!Sida spinosa* L., Prickly Sida - *LaPlante* 726  
 1052 *!Abutilon theophrasti* Medikus, Velvet Leaf - *Castaner* 10111  
 1054 *\*Hibiscus. laevis* All., Rose Mallow, [YT144], **S:** *H. militaris* Cav. - *Castaner* 8589, 7250  
 1054 *!\*H. trionum* L., Flower-of-an-hour - *LaPlante* 729

## ELATINACEAE (1)

- 1064 *\*Bergia texana* (Hook.) Seubert, Bergia - *Castaner* 10077

## VIOLACEAE (3)

- 1072 *Viola sororia* Willd., Common Violet  
 f. *sororia*, [YT217], **S:** incl. *V. papilionacea* Pursh f. *papilionacea*,  
 Common Violet - *Castaner* 8532 and *V. sororia* Willd., Woolly Blue  
 Violet - *LaPlante* 649  
 1081 *V. rafinesquii* Greene, Field Pansy, [YT217], **S:** *V. kitaibeliana* R. & S. var.  
*rafinesquii* (Greene) Fern. - *Castaner* 8538

## ELAEAGNACEAE (1)

- 1087 *!\*Elaeagnus angustifolia* L., Russian Olive - *LaPlante* 654

## LYTHRACEAE (2)

- 1089 *Ammannia robusta* Heer & Regel, Tooth-cup, [YT141], **S:** (in part) *Ammannia coccinea* Rothb. - *Castaner* 10086  
 1092 *\*Cuphea viscosissima* Jacq., Clammy Cuphea, [YT141], **S:** *C. petiolata* (L.) Koehne - *LaPlante* 826

## ONAGRACEAE (6)

- 1094 *\*Ludwigia peploides* (H.B.K.) Raven, Floating Primrose Willow, [YT153], **S:**  
*Jussiaea repens* L. var. *glabrescens* Ktze. - *Castaner* 8560  
 1099 *\*Epilobium coloratum* Biehler, Purple-leaved Willow Herb - *LaPlante* 897  
 1101 *\*Oenothera biennis* L., Common Evening Primrose, [YT154], **S:** var.  
*pycnocarpa* (Atkinson & Bartlett) Wieg. - *LaPlante* 326  
 1101 *\*O. villosa* Thunb. ssp. *villosa*, Common Evening Primrose, [YT155], **S:** *O.*  
*biennis* L. var. *hirsutissima* Gray - *Castaner* 8595  
 1102 *O. Laciiniata* Hill, Cut-leaved Evening Primrose, [YT154], **S:** var. *laciiniata* -  
*LaPlante* 98  
 1107 *Gaura parviflora* Doug., Velvety Gaura, [YT154], **S:** f. *glabra* Munz - *La-*  
*Plante* 100

## APIACEAE (5)

- 1121 *Sanicula canadensis* L., Black Snakeroot  
 var. *canadensis* - LaPlante 620
- 1128 *!Torilis arvensis* (Hudson) Link, Hedge Parsley, [YT22], S: *t. japonica* (Houtt.) DC. - Castaner 8568
- 1130 \**Spermolepis inermis* (Nutt.) Math. & Const., Scaleseed - LaPlante 109
- 1134 *Cryptotaenia canadensis* (L.) DC., Honewort - LaPlante 792
- 1148 *Daucus carota* L., Queen Anne's Lace  
 ssp. *carota* f. *carota*, [YT18], S: *D. carota* L. f. *carota* - Castaner 8601

## CORNACEAE (2)

- 1152 *Cornus drummondii* C. Meyer, Rough-leaved Dogwood - Castaner 10062, 10059
- 1152 \**C. amomum* Miller, Swamp Dogwood  
 ssp. *obliqua* (Raf.) J. Wilson, [YT98], S: *C. obliqua* Raf. - LaPlante 806

## PRIMULACEAE (1)

- 1171 \**Anagallis arvensis* L., Poor Man's Weatherglass  
 \*ssp. *arvensis*, [YT169], S: *A. arvensis* f. *caerulea* (Schreb.) Baumg. - Castaner 8593

## OLEACEAE (3)

- 1179 *Fraxinus americana* L., White Ash  
 var. *americana* - LaPlante 296
- 1179 \**F. biltmoreana* Beadle, Biltmore Ash, [YT151], S: *F. americana* var. *biltmoreana* (Beadle) J. Wright - LaPlante 340
- 1179 *F. pennsylvanica* Marsh., Green Ash, Red Ash, [YT151], S: incl. *F. pennsylvanica* \*var. *pennsylvanica*, Red Ash - LaPlante 812 and var. *subintegerima* (Vahl.) Fern., Green Ash - LaPlante 379

## APOCYNACEAE (3)

- 1200 *Apocynum cannabinum* L., Indian Hemp  
 var. *cannabinum* - Castaner 8588, LaPlante 584
- 1198 *A. sibiricum* Jacq., Indian Hemp  
 var. *sibiricum* - LaPlante 377  
 \*var. *cordigerum* (Greene) Fern. - LaPlante 464

## ASCLEPIADACEAE (3)

- 1204 *Asclepias incarnata* L., Swamp Milkweed

- ssp. *incarnata*, [YT25], S: var. *incarnata* f. *incarnata* - Castaner 8606  
 1207 *A. syriaca* L., Common Milkweed, [YT26], S: var. *kansana* (Vail) Palmer &  
 Steyermark. - LaPlante 787  
 1210 *Cynanchum laeve* (Michx.) Pers., Angle Pod - Castaner 8584

### CONVOLVULACEAE (3)

- 1214 *Ipomoea hederacea* Jacq., Blue Morning Glory, [YT97], S: var. *hederacea*  
 - LaPlante 636  
 1217 \**I. lacunosa* L., Small White Morning Glory, [YT97], S: f. *lacunosa* - La-  
 Plante 824  
 1218 *Calystegia sepium* (L.) R. Br., Hedge Bindweed  
 ssp. *angulata* Brummitt, [YT96], S: *Convolvulus sepium* L. var. *sepium* f.  
*sepium* - LaPlante 634

### BORAGINACEAE (2)

- 1247 \**Lithospermum incisum* Lehm., Yellow Puccoon - LaPlante 410  
 1256 *Hackelia virginiana* (L.) I. M. Johnston, Beggar's Lice - LaPlante 837

### VERBENACEAE (5)

- 1257 *Verbena urticifolia* L., White Vervain  
 var. *urticifolia* - Castaner 8551, 10112  
 1258 *V. hastata* L., Blue Vervain  
 f. *hastata* - Castaner 10085  
 1260 *V. stricta*, Hoary Vervain  
 f. *stricta* Vent. - LaPlante 590  
 1260 *V. bracteata* Lag. & Rodr., Creeping Vervain - Castaner 8590, 10117  
 1261 *Phyla lanceolata* (Michx.) E. Greene, Common Fog Fruit, [YT214], S: *Lippia*  
*lanceolata* Michx. - LaPlante 112

### LAMIACEAE (10)

- 1273 \**Scutellaria lateriflora* L., Mad-dog Skullcap  
 \*f. *lateriflora* - Castaner 8572  
 1279 *Prunella vulgaris* L., Self-heal  
 var. *lanceolata* (Bart.) Fern. f. *lanceolata* - LaPlante 953  
 1282 \**Physostegia virginiana* (L.) Benth., False Dragonhead,  
 \*ssp. *virginiana*, [YT135], S: *P. formosior* Lunell - LaPlante 799  
 1285 !*Lamium amplexicaule* L., Henbit  
 f. *amplexicaule* - Castaner 8538  
 1286 \**Stachys pilosa* Nutt., Woundwort, [YT138], S: *S. palustris* var. *nipigonensis* Jennings - Castaner 8552, 8605

- 1286 *S. tenuifolia* Willd., Thinleaf Betony, [YT138], S: var. *tenuifolia* - LaPlante  
173
- 1288 \**Salvia reflexa* Hornem., Lance-leaved Sage - LaPlante 635
- 1296 \**Hedeoma pulegioides* (L.) Pers., Penny Royal - Castaner 8577
- 1302 *Lycopus americanus* Muhl., American Bugleweed, [YT133], S: var. *americanus* - Castaner 8586
- 1304 \**Mentha arvensis* L., Field Mint, [YT133], S: var. *villosa* (Benth.)  
Stewart f. *villosa* - LaPlante 896

#### SOLANACEAE (4)

- 1312 *Solanum ptycanthum* Dunal ex. DC, Black Nightshade, [YT209], S: S.  
*americanum* Mill. - LaPlante 718
- 1313 *S. carolinense* L., Horse Nettle, [YT209], S: f. *carolinense* - LaPlante 97
- 1318 *Physalis longifolia* Nutt., Common Ground Cherry  
\*var. *longifolia* - LaPlante 717  
var. *subglabrata* (Mackenz. & Bush) Steyer. f. *subglabrata* - LaPlante  
720

#### SCROPHULARIACEAE (9)

- 1333 \**Leucospora multifida* (Michx.) Nutt., [YT202], S: *Conobea multifida*  
(Michx.) Benth. - Castaner 10084, 10129
- 1334 \**Mimulus ringens* L., Allegheny Monkey Flower  
\*var. *ringens* - Castaner 8571, 10088
- 1336 *Lindernia dubia* (L.) Pennell, False Pimpernel, [YT202], S L. *anagallidea*  
(Michx.) Pennell - Castaner 10087
- 1339 *Verbascum thapsus* L., Mullein  
f. *thapsus* - LaPlante 587
- 1346 *Scrophularia marilandica* L., Figwort  
f. *marilandica* - LaPlante 746
- 1356 !*Veronica arvensis* L., Corn Speedwell - LaPlante 426
- 1357 *Dasisoma macrophylla* (Nutt.) Raf., Mullein Foxglove, [YT201], S: *Seymeria*  
*macrophylla* Nutt. - LaPlante 700
- 1360 \**Agalinus tenuifolia* (Vahl) Raf., Slender Gerardia, [YT199], S: *Gerardia*  
*tenuifolia* Vahl. var. *tenuifolia* - LaPlante 767
- 1361 \**Gerardia skinneriana* (A. Wood) Britt., Pale Gerardia - LaPlante 322

#### BIGNONIACEAE (1)

- 1370 !*Catalpa bignonioides* Walt., Southern Catalpa - LaPlante 230

#### LENTIBULARIACEAE (1)

- 1375 *Utricularia macrorhiza* Le Conte, Common Bladderwort, [YT139], S: U.

*vulgaris* L. - LaPlante 453

PLANTAGINACEAE (3)

- 1382 *Plantago rugelii* Dcne., Rugel's Plantain, [YT159], **S:** var. *rugelii* - LaPlante 658
- 1384 *P. lanceolata* L., English Plantain  
var. *lanceolata* - LaPlante 240
- 1385 *P. virginica*, Hoary Plantain, [YT159], **S:** var. *virginica* - LaPlante 406

RUBIACEAE (4)

- 1389 *Galium aparine* L., Cleavers - LaPlante 499
- 1386 \**G. triflorum* Michx., Sweet Scented Bedstraw, [YT191], **S:** var. *triflorum* - Castaner 10064
- 1390 *G. circaeans* Michx., Wild Licorice  
var. *hypomalacum* Fern. - LaPlante 863
- 1398 *Cephalanthus occidentalis* L., Buttonbush, [YT190], **S:** var. *occidentalis* - Castaner 8559

CAPRIFOLIACEAE (1)

- 1410 *Symporicarpos orbiculatus* Moench, Buckbrush, Coralberry  
f. *orbiculatus* - LaPlante 942

CUCURBITACEAE (1)

- 1428 \**Sicyos angulatus* L., Bur Cucumber - LaPlante 321

CAMPANULACEAE (4)

- 1430 *Campanula americana* L., Tall Bellflower - Castaner 10054
- 1433 *Triodanis perfoliata* (L.) Nieuwl., Perfoliate Venus' Looking Glass, [YT79], **S:** *Specularia perfoliata* (L.) A. DC. f. *perfoliata* - LaPlante 101
- 1437\**Lobelia siphilitica* L., Blue Cardinal Flower  
\*var. *siphilitica* f. *siphilitica* - LaPlante 918  
\*var. *ludoviciana* A. DC. - LaPlante 777

ASTERACEAE (42)

- 1461 *Vernonia fasciculata* Michx., Ironweed - Castaner 7248
- 1463 *Eupatorium purpureum*, Green-stemmed Joe-pye Weed - Castaner 10069
- 1463 \**E. altissimum* L., Tall Thoroughwort - LaPlante 783
- 1464 \**E. perfoliatum* L., Boneset  
\*var. *perfoliatum* f. *perfoliatum* - LaPlante 651

- 1477 \**Grindelia squarrosa* (Pursh) Dunal, Curlytop Gumweed  
var. *serrulata* (Rydb.) Steyermark. - *LaPlante* 622
- 1496 \**Solidago altissima* L., Tall Goldenrod  
var. *altissima*, [YT55], S: *S. canadensis* L. var. *gilvacanescens* Rydb.;  
also in Great Plains Flora Association (1986), var. *scabra* T. & G. -  
*LaPlante* 848  
var. *hargeri* Fern. - Castaner 8952 are found in the wildlife area
- 1496 S. *gigantea* Ait., Late Goldenrod, [YT55], S: incl \*var. *gigantea* - *LaPlante*  
883 and var. *leiophylla* Fern. - *LaPlante* 795
- 1502 *Boltonia asteroides* (L.) L'Her, False Starwort, Boltonia  
var. *recognita* (Fern. & Griseb.) Cronq. - *LaPlante* 711  
var. *latisquama* (Gray) Cronq. - *LaPlante* 847
- 1512 \**Aster drummondii* Lindl., Drummond Aster - *LaPlante* 307
- 1516 \**A. pilosus* Willd., White Heath Aster  
\*var. *pilosus* f. *pilosus* - Castaner 8953
- 1516 \**A. parviceps* (Burgess) Mackenz. & Bush, Small White Aster - *LaPlante* 778
- 1518 *A. ericoides* L., Wreath Aster  
f. *ericoides* - *LaPlante* 870
- 1523 \**A. lanceolatus* Willd., Tall White Aster  
\*var. *latifolius* Semple & Chmielewski, [YT32], S: *A. simplex* Willd. var.  
*simplex* - Castaner 8933, 8949
- 1526 *Erigeron philadelphicus* L., Philadelphia Fleabane, [YT41], S: f. *philadel-*  
*phicus* - *LaPlante* 70
- 1526 *E. annuus* (L.) Pers., Daisy Fleabane, [YT40], S: f. *annuus* - *LaPlante* 308
- 1528 *E. strigosus* Muhl., Daisy Fleabane  
\*var. *strigosus* [YT41], S: f. *strigosus* - *LaPlante* 877  
var. *beyrichii* (Fisch. & Meyer), [YT41], S: var. *strigosus* f. *beyrichii*  
(Fisch. & May.) T. & G. - *LaPlante* 957
- 1529 *Conyza canadensis* (L.) Cronq., Horseweed, Canada Fleabane, [YT38], S:  
*Erigeron canadensis* L. - *LaPlante* 776
- 1538 *Ambrosia trifida* L., Giant Ragweed, [YT28], S: var. *trifida* f. *trifida* -  
*LaPlante* 282
- 1540 *A. artemisiifolia* L., Common Ragweed, [YT28], S: incl. var. *elatior* f. *elatior* -  
*LaPlante* 779 and \*var. *elatior* f. *villosa* - *LaPlante* 612
- 1543 *Xanthium strumarium* L., Common Cocklebur  
\*var. *glabratum* (DC.) Cronq., [YT60], S: *X. chinense* Mill. - *LaPlante* 311  
var. *canadense* (Miller) T. & G., [YT60], S: *X. pensylvanicum* Wallr. -  
*LaPlante* 903
- 1554 \**Eclipta prostrata* (L.) L., Yerba de Tajo, [YT40], S: *E. alba* (L.) Hassk.  
Castaner 10074
- 1558 *Rudbeckia hirta* L., Black-eyed Susan - *LaPlante* 882
- 1568 *Helianthus annuus* L., Common Sunflower, [YT44], S: var. *annuus* - *La-*  
*Plante* 289
- 1575 *H. tuberosus* L., Jerusalem Artichoke, [YT45], S: incl. \*var. *tuberosus* -  
*LaPlante* 781 and var. *subcanescens* Gray. - *LaPlante* 327

- 1578 \**Verbesina alternifolia* (L.) Britt., Yellow Ironweed - *LaPlante* 820  
 1586 \**Bidens cernua* L., Nodding Bur Marigold  
     \*var. *cernua*, [YT34], S: *f. cernua* - *Castaner* 8558, 9273  
 1586 *B. tripartita* L., Swamp Beggar Ticks, [YT35], S: *B. connata* Muhl. var. *petiolata* (Nutt.) Farw. - *LaPlante* 921  
 1588 \**B. discoidea* (T. & G) Britt., Sticktight - *LaPlante* 817  
 1590. \**B. aristosa* (Michx.) Britt., Tickseed Sunflower  
     \*f. *aristosa*, [YT34], S: *B. polylepis* S. F. Blake \*var. *polylepis* f. *polylepis* - *LaPlante* 935  
 1620 !\**Carduus nutans* L., Musk thistle - *LaPlante* 99  
 1621 *Cirsium vulgare* (Savi) Tenore, Bull Thistle - *LaPlante* 906  
 1621 \**C. discolor* (Muhl.) Spreng., Field Thistle  
     \*f. *discolor* - *LaPlante* 789  
 1622 \**C. altissimum* (L.) Spreng., Tall Thistle  
     \*f. *altissimum* - *LaPlante* 818  
 1634 !*Tragopogon dubius* Scop., Goat's Beard - *LaPlante* 413  
 1635 !*Taraxacum officinale* Wiggers, Common Dandelion - *LaPlante* 422  
 1638 !*Lactuca serriola* L., Prickly Lettuce  
     f. *serriola*, [YT48], S: *L. scariola* L. f. *scariola* - *Castaner* 10116  
     \*f. *integrifolia* (Gray) Prince & R. Carter, [YT48], S: f. *integrifolia* (Bogenh.) G. Beck - *Castaner* 8569  
 1642 \**L. floridana* (L.) Gaertn., Blue Lettuce  
     \*var. *floridana* f. *floridana* - *LaPlante* 690  
 1646 *Pyrrhopappus carolinianus* (Walt.) DC., False Dandelion - *LaPlante* 113

#### ACKNOWLEDGEMENTS

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## CHICKEN SPIKE (*SPHENOCLEA ZEYLANICA*, CAMPANULACEAE), NEW TO MISSOURI

Stanton Hudson  
2610 Shady Lane  
Poplar Bluff, MO 63901

A recent field trip to the rice fields of southeastern Missouri yielded an interesting new plant record for the state. *Sphenoclea zeylanica* Gaertner, known as Chicken Spike or Gooseweed (Figure 1), was discovered growing in Butler County. About a dozen mature plants and several seedlings were growing at the edge of a flooded rice field that drains into a ditch eventually flowing into the Black River. The site is located south of Poplar Bluff on the north side of County Road 320 about 1/4 mile east of State Highway 142, at SE 1/4 sec. 33, T. 24 N., R. 6 E. Associates include several species of *Heteranthera* and a variety of other emergent aquatics. Flowering and fruiting voucher specimens (Hudson s.n.) were collected on 22 August and 2 September, 1992, and are deposited at the Missouri Botanical Garden Herbarium (MO). A suggested map number for the Missouri Flora Atlas Project is 2105.09. Since this first collection, additional localities have been located in other rice fields in Butler County and in Ripley County.

Gooseweed is an erect herb to ca. 2 m tall, much-branched above, with hollow, slightly succulent stems and alternate leaves. There is disagreement as to whether the species is an annual or short-lived perennial, a situation not uncommon in discussions of aquatic herbs. The small actinomorphic flowers occur in dense terminal spikes. The white petals are fused together in the lower half of the corolla. Fruits develop from inferior ovaries, and are obconic, circumscissile capsules with two locules and numerous tiny seeds.

*Sphenoclea zeylanica* grows in moist soil or shallow water. Ward (1978) suggested that populations often do not persist for many years at individual sites. It is native to the Old World tropics (Rosatti, 1986), but has become widely naturalized in the New World, usually as a weed in rice fields. In the United States, it occurs nearly throughout the southeastern states, from Florida to South Carolina, and westward to Texas. Smith (1988) reported the species from fifteen counties in Arkansas, the closest being Greene County, which is less than 50 km from the Missouri population. It is to be expected in other Missouri Counties where rice is grown.

*Sphenoclea*, which is variously thought to contain one or two species, is often included as the tribe Sphenocleae of Campanulaceae, but is sometimes treated as the segregate family, Sphenocleaceae (Rosatti, 1986). Although the plants are usually referred to as weeds, they are far more benign than many species given that designation. The leaves are edible and are eaten with rice in

Java and elsewhere (Uphof, 1968). Interestingly, the roots of living plants produce an exudate that controls the rice-root nematode, a commercially important pest of rice crops (Mohandas et al., 1981).

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MISSOURI  
BOTANICAL GARDEN  
HERBARIUM

Nº 4074378



Sheet 1 of 2

MISSOURI DEPARTMENT OF CONSERVATION  
FLORA OF MISSOURI PROJECT

*Sphenoclea zeylanica* Gaertner

BUTLER COUNTY; N side of County Road  
#320, ½ mi E of State Highway 142, S of  
Poplar Bluff; T24N R6E S33 SE¼; drain  
corner of rice field, in up to 30 cm of  
water; plants to 1.5 m tall.

5 September 1992

S. Hudson  
s.n.

SHEET 2 OF 2

MISSOURI BOTANICAL GARDEN HERBARIUM (MO)

Figure 1. Xerograph of *Sphenoclea zeylanica* Gaertner.

## MISSOURI BOTANICAL RECORD 15

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The *Missouri Botanical Record* is the official register for new county records of all vascular plant taxa in Missouri. To qualify for inclusion in this record, a voucher specimen of the record taxon must be deposited in a recognized herbarium and verified by the curator. Following the format used below, please submit all records to Dr. Wallace R. Weber, Department of Biology, Southwest Missouri State University, Springfield, MO 65804-0095.

In the *Flora of Missouri*, Steyermark used only a single map number to refer to each species, even though several subspecific taxa were listed. In these instances, various symbols were used to represent each taxon on a single Missouri map with counties. In the *Missouri Botanical Record* a decimal system is used, with .1 assigned to the first subspecific taxon listed by Steyermark, .2 for the second, and so on. Point nine nine (.99) is used to designate a species in which Steyermark included one or more subspecific taxa, but which was not specified by the collector. Point zero nine (.09) identifies a taxon not included respectively.

Contributors for this issue are Pat Walker and George Yatskievych.

TAXA	COUNTY	COLLECTOR	HERB	MAP NO
Lycopodiaceae				
<i>Lycopodium lucidulum</i>	Howell	<i>Summers 3224</i>	MO	2.00
Isoetaceae				
<i>Isoetes melanopoda</i>	Montgomery	<i>Schuette 2029</i>	MO	8.00
<i>Isoetes butleri</i>	Madison	<i>Summers 3171</i>	MO	9.00
Equisetaceae				
<i>Equisetum laevigatum</i>	Howell	<i>Summers 3390</i>	MO	12.00
<i>Equisetum hyemale</i>	Howard	<i>Summers 2739</i>	MO	13.00
Ophioglossaceae				
<i>Ophioglossum vulgatum</i> <i>v. pseudopodium</i>	Madison	<i>Summers 2922</i>	MO	16.00
Polypodiaceae				
<i>Azolla mexicana</i>	Stoddard	<i>Summers 3923</i>	MO	19.00
<i>Polypodium polypodioides</i> <i>v. michauxianum</i>	Madison	<i>Summers 2926</i>	MO	36.00
<i>Asplenium bradleyi</i>	Ste. Gene- vieve	<i>Summers 3112</i>	MO	48.00
<i>Dryopteris goldiana</i>	Texas	<i>Sumers</i> & Ryan 3857	MO	60.00
<i>Dryopteris goldiana</i>	Wright	<i>Summers 3538</i>	MO	60.00
Typhaceae				
<i>Typha angustifolia</i>	Vernon	<i>Chang 554</i>	MO	70.00
Sparganiaceae				
<i>Sparganium androcladum</i>	Howell	<i>Summers 3694</i>	MO	73.00
Najadaceae				
<i>Potamogeton crispus</i>	Franklin	<i>Solomon 18796</i>	MO	76.00

<i>Potamogeton pusillus</i>	Scotland	<i>Brant</i> & O'Donnell 1884	MO	78.99
<i>Potamogeton nodus</i>	Hickory	<i>Summers</i> 2830	MO	83.00
<i>Potamogeton nodosus</i>	Bates	<i>Summers</i> 2826	MO	83.00
<i>Zanichellia palustris</i>	Mercer	<i>Summers</i> 2809	MO	86.00
<i>Najas gracillima</i>	Lincoln	<i>Schuette</i> s.n.	MO	87.00

## Alismaceae

<i>Echinodorus berteroii</i>	Stoddard	<i>Summers</i> 3082	MO	92.00
<i>v. berteroii</i>	Grundy	<i>Summers</i> 2821	MO	94.00
<i>Sagittaria calycina</i>	Texas	<i>Summers &amp;</i> <i>Ryan</i> 3608	MO	98.00
<i>Sagittaria engelmanniana</i>				
<i>spp. breviorstra</i>				

## Hydrocharitaceae

<i>Limnobium spongia</i>	Stoddard	<i>Summers</i> 3922	MO	103.00
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## Gramineae

<i>Bromus latiglumis</i>	Oregon	<i>Summers</i> 3007	MO	108.99
<i>Bromus tectorum</i>	McDonald	<i>Smith &amp;</i> <i>Yatskiewych</i> 3047	MO	116.00
<i>Bromus tectorum</i>	Howell	<i>Summers</i> 2694	MO	116.00
<i>Festuca paradoxa</i>	Oregon	<i>Summers</i> 2988	MO	122.00
<i>Poa compressa</i>	Vernon	<i>Chang</i> 418	MO	133.00
<i>Eragrostis hypnoides</i>	Mercer	<i>Summers</i> 2810	MO	143.00
<i>Eragrostis pectinacea</i>	Oregon	<i>Summers</i> 3096	MO	147.00
<i>Diarrhena americana</i>	Gasconade	<i>Brant et al.</i> 1922	MO	159.99
<i>Diarrhena americana</i>	Texas	<i>Summers</i> & <i>Ryan</i> 3591	MO	159.99
<i>Phragmites australis</i>	Stoddard	<i>Summers</i> 3101	MO	166.00
<i>Sphenopholis nitida</i>	Madison	<i>Brant</i> 1838	MO	197.00
<i>Calamagrostis insperata</i>	Howell	<i>Summer</i> & <i>Dodds</i> 3710	MO	208.00
<i>Calamagrostis insperata</i>	Shannon	<i>Summers</i> 3919	MO	208.00
<i>Calamagrostis insperata</i>	Texas	<i>Summers</i> & <i>Ryan</i> 3602	MO	208.00
<i>Calamagrostis insperata</i>	Wright	<i>Summers</i> & <i>Ryan</i> 3907	MO	208.00
<i>Phleum pratense</i>	Vernon	<i>Chang</i> 512	MO	221.00
<i>Phleum pratense</i>	Howard	<i>Summers</i> 2738	MO	221.00

<i>Muhlenbergia cuspidata</i>	Carter	<i>Summers</i> & MONPS 3778	MO	222.00
<i>Sporobolus vaginiflorus</i>	Callaway	<i>Brant</i> & Gereau 1820	MO	233.00
<i>Sporobolus heterolepis</i>	Howell	<i>Summers 3502</i>	MO	238.00
<i>Aristida dichotoma v. dichotoma</i>	Howell	<i>Summers 3810</i>	MO	247.00
<i>Aristida oligantha</i>	Gasconade	<i>Brant et al. 1918</i>	MO	248.00
<i>Aristida longispica</i>				
<i>v. longispica</i>	Gasconade	<i>Brant et al. 1920</i>	MO	250.00
<i>Eleusine indica</i>	Texas	<i>Summers 3672</i>	MO	256.00
<i>Gymnopogon ambiguus</i>	Howell	<i>Summers 3084</i>	MO	261.00
<i>Phalaris caroliniana</i>	Vernon	<i>Chang 471</i>	MO	270.00
<i>Phalaris arundinacea</i>	St., Louis	<i>Summers 2700</i>	MO	271.00
<i>Phalaris aruinacea</i>	Crawford	<i>Brant 1809</i>	MO	271.00
<i>Leersia oryzoides</i>	Texas	<i>Summers 3760</i>	MO	274.99
<i>Leersia virginica</i>	Howell	<i>Summers 3682A</i>	MO	271.00
<i>Paspalum floridanum</i>				
<i>v. glabratum</i>	Newton	<i>Smith &amp;</i> <i>Yatskievych 3018</i>	MO	295.10
<i>Panicum linearifolium</i>	Audrian	<i>Summers 2727</i>	MO	298.99
<i>Panicum laxiflorum</i>	Perry	<i>Brant, Noyes,</i> <i>&amp; Carter 1907</i>	MO	299.00
<i>Panicum oligosanthes</i>				
<i>v. scribnerianum</i>	Gasconade	<i>Brant et al. 1927</i>	MO	315.2
<i>Panicum philadelphicum</i>	Oregon	<i>Summers 3097</i>	MO	328.99
<i>Echinochloa muricata</i>	Howell	<i>Summers 3806</i>	MO	339.99
<i>Setaria italica</i>	Callaway	<i>Brant</i> & Gereau 1838	MO	345.00
<i>Setaria italica</i>	Gasconade	<i>Brant et al. 1927</i>	MO	345.00
<i>Cenchrus longispinus</i>	Ripley	<i>Summers 3032</i>	MO	346.00
<i>Andropogon scoparium</i>	Shannon	<i>Summers 3775</i>	MO	352.00
<i>Andropogon scoparium</i>	Butler	<i>Summers 3883</i>	MO	352.00
<i>Andropogon scoparium</i>	Carter	<i>Summers 3883</i>	MO	352.00
<i>Andropogon scoparium</i>	Oregon	<i>Summers</i> & Dodds 3921	MO	352.00
<i>Andropogon scoparium</i>	Stoddard	<i>Summers 3924</i>	MO	352.00
<i>Andropogon ternarius</i>	Texas	<i>Summers 3740</i>	MO	354.00
<i>Andropogon elliottii</i>	Texas	<i>Summers</i> & Ryan 3796	MO	356.00
<i>Andropogon saccharoides</i>	Howell	<i>Summers 3741</i>	MO	357.00

## Cyperaceae

<i>Cyperus aristatus</i>	Wright	<i>Summers 3407</i>	MO	368.00
<i>Cyperus iria</i>	Ripley	<i>Summers 3031</i>	MO	373.00

<i>Cyperus esculentus</i> v. <i>esculentus</i>					
<i>f. angustispicatus</i>	Vernon	<i>Chang 602</i>	MO	378.10	
<i>Cyperus strigosus</i>	Howell	<i>Summers 3474</i>	MO	379.99	
<i>Cyperus strigosus</i>	Callaway	<i>Brant &amp; Gereau 1826</i>	MO	379.00	
<i>Cyperus lancastriensis</i>	New Madrid/				
	Scott line	<i>Carter 8277</i>	MO	381.00	
<i>Cyperus filiculmis</i>	Scotland	<i>Brant &amp; O'Donnell 1875</i>	MO	385.99	
<i>Eleocharis acicularis</i>	St.Charles	<i>Carter et al. 7957</i>	MO	393.00	
<i>Eleocharis obtusa</i> v. <i>obtusa</i>	Wright	<i>Summers 3439</i>	MO	396.00	
<i>Eleocharis macrostachya</i>	Wright	<i>Summers 3838</i>	MO	399.00	
<i>Bulbostylis capillaris</i>	Texas	<i>Summers 3840</i>	MO	403.00	
<i>Bulbostylis capillaris</i>	Wright	<i>Summers 3435A</i>	MO	403.00	
<i>Fimbristylis caroliniana</i>	Howell	<i>Summers 3267</i>	MO	404.00	
<i>Scirpus verecundus</i>	Howell	<i>Summers 3212</i>	MO	408.00	
<i>Scirpus koilolepis</i>	Howell	<i>Summers 3283</i>	MO	409.00	
<i>Scirpus koilolepis</i>	Howell	<i>Summers 3283</i>	MO	409.00	
<i>Scirpus acutus</i>	Howell	<i>Summers 3476</i>	MO	416.00	
<i>Scirpus atrovirens</i>					
v. <i>georgianus</i>	Stoddard	<i>Summers 3051</i>	MO	421.2	
<i>Scirpus atrovirens</i>	Jefferson	<i>Miller 5214</i>	MO	421.99	
<i>Scirpus lineatus</i>	Vernon	<i>Chang 470</i>	MO	424.00	
<i>Scirpus cyperinus</i>	Texas	<i>Summers &amp; Ryan 3765</i>	MO	425.99	
<i>Hemicarpa micrantha</i>	Texas	<i>Summers &amp; Ryan 3759</i>	MO	429.00	
<i>Rhynchospora corniculata</i>					
v. <i>corniculata</i>	Howell	<i>Summers 2837</i>	MO	431.00	
<i>Scleria pauciflora</i>	Howell	<i>Summers 3465</i>	MO	439.99	
<i>Scleria pauciflora</i>	Oregon	<i>Summers 2996</i>	MO	439.99	
<i>Scleria ciliata</i> v. <i>ciliata</i>	Perry	<i>Brant, Carter, &amp; Noyes 1902</i>	MO	440.00	
<i>Carex rosea</i>	Audrain	<i>Summers 2723</i>	MO	448.00	
<i>Carex cephalophora</i>	Crawford	<i>Brant &amp; O'Donnell 1791</i>	MO	449.99	
<i>Carex cephalophora</i>	Linn	<i>Summers &amp; Dodds 3413</i>	MO	449.99	
<i>Carex cephalospora</i>	Perry	<i>Carter, Brant &amp; Noyes 7904</i>	MO	449.99	
<i>Carex leavenworthii</i>	Howell	<i>Summers 3380</i>	MO	450.00	
<i>Carex muhlenbergii</i>					
v. <i>muhlenbergii</i>	Howell	<i>Summers 3234</i>	MO	452.00	
<i>Carex muhlenbergii</i> v. <i>australis</i>	McDonald	<i>Smith &amp; Yatskievych 3022</i>	MO	452.20	

<i>Carex muhlenbergii</i>	Audrain	<i>Summers 2719</i>	MO	452.99
<i>Carex gravida v. gravida</i>	Scotland	<i>Summers 2708A</i>	MO	453.99
<i>Carex aggregata</i>	Calloway	<i>Brant et al. 1776</i>	MO	454.00
<i>Carex vulpinoidea</i>	Oregon	<i>Summers 2992</i>	MO	456.00
<i>Carex annexens</i>	Jefferson	<i>Miller et al. 5020</i>	MO	457.99
<i>Carex annexens</i>	Audrain	<i>Summers 2720</i>	MO	457.99
<i>Carex oklahomensis</i>	Howell	<i>Summers 3295</i>	MO	460.00
<i>Carex stipata</i>	Vernon	<i>Chang 115</i>	MO	461.99
<i>Carex stipata</i>	Howell	<i>Summers 3249</i>	MO	461.99
<i>Carex stipata</i>	Knox	<i>Summers 2709A</i>	MO	461.99
<i>Carex scoparia</i>	Linn	<i>Summers</i> <i>&amp; Dodds 3412</i>	MO	467.99
<i>Carex projecta</i>	Crawford	<i>Brant</i> <i>&amp; O'Donnell 1792</i>	MO	469.00
<i>Carex cristatella</i>	Pike	<i>Brant</i> <i>&amp; O'Donnell 1865</i>	MO	470.00
<i>Carex tenera</i>	Crawford	<i>Brant</i> <i>&amp; O'Donnell 1795</i>	MO	472.00
<i>Carex tenera</i>	Madison	<i>Brant</i> <i>&amp; O'Donnell 1844</i>	MO	472.00
<i>Carex tenera</i>	Howell	<i>Summers 3314</i>	MO	472.00
<i>Carex festucacea</i>	Madison	<i>Brant</i> <i>&amp; O'Donnell 1845</i>	MO	473.00
<i>Carex festucacea</i>	Howell	<i>Summers 3256</i>	MO	473.00
<i>Carex festucacea</i>	Madison	<i>Summers 2916</i>	MO	473.00
<i>Carex brevior</i>	Butler	<i>Summers 3448</i>	MO	476.00
<i>Carex molesta</i>	Crawford	<i>Brant 1808</i>	MO	477.00
<i>Carex molesta</i>	Osage	<i>Brant</i> <i>&amp; O'Donnell 1854</i>	MO	477.00
<i>Carex molesta</i>	Audrain	<i>Summers 2718</i>	MO	477.00
<i>Carex molesta</i>	Boone	<i>Summers 2731</i>	MO	477.00
<i>Carex Bicknellii</i>	Howell	<i>Summers 3265</i>	MO	478.00
<i>Carex alata</i>	Texas	<i>Summers 3747</i>	MO	479.00
<i>Carex leptalea</i>	Madison	<i>Summers 2917</i>	MO	481.00
<i>Carex jamesii</i>	Osage	<i>Brant</i> <i>&amp; O'Donnell 1857</i>	MO	482.00
<i>Carex jamesii</i>	Howell	<i>Summers 3227</i>	MO	482.00
<i>Carex jamesii</i>	Madison	<i>Summers 2913</i>	MO	482.00
<i>Carex jamesii</i>	Pike	<i>Miller, Brant,</i> <i>&amp; Pool 4930</i>	MO	482.00
<i>Carex artitecta</i>	Calloway	<i>Brant</i> <i>&amp; Gereau 1773</i>	MO	483.00
<i>Carex hirtifolia</i>	Crawford	<i>Brant</i> <i>&amp; O'Donneil 1794</i>	MO	492.00
<i>Carex digitalis</i>	Miller	<i>Currier 90 024</i>	MO	497.00

<i>Carex blanda</i>	Madison	<i>Summers</i> 2911	MO	500.00
<i>Carex granularis</i>	Madison	<i>Summers</i> 2912	MO	502.99
<i>Carex amphibola</i> v. <i>turgida</i>	Howell	<i>Summers</i> 3272	MO	508.20
<i>Carex amphibloa</i>	Madison	<i>Summers</i> 2914	MO	508.99
<i>Carex flaccosperma</i>	Camden	<i>Brooks</i> & <i>Wang</i> 19.716	MO	509.10
<i>Carex flaccosperma</i>	Audrain	<i>Summers</i> 2722	MO	509.10
v. <i>glaucodea</i>	Butler	<i>Summers</i> & <i>Dodds</i> 3360	MO	512.00
<i>Carex davisii</i>	Howard	<i>Summers</i> 2735	MO	512.99
<i>Carex davisii</i>	Howell	<i>Summers</i> 3266	MO	512.99
<i>Carex davisii</i>	Perry	<i>Carter, Brant,</i> & <i>Noyes</i> 7901	MO	512.99
<i>Carex complanata</i> v. <i>hirsuta</i>	Oregon	<i>Summers</i> 3006	MO	517.10
<i>Carex caroliniana</i>	Perry	<i>Brant</i> & <i>Noyes</i> 7902	MO	518.00
<i>Carex caroliniana</i>	Vernon	<i>Chang</i> 118	MO	518.00
<i>Carex bushii</i>	Madison	<i>Summers</i> 2925	MO	519.00
<i>Carex bushii</i>	Wright	<i>Summers</i> 3400	MO	519.00
<i>Carex shortiana</i>	Butler	<i>Summers</i> & <i>Dodds</i> 3196	MO	522.00
<i>Carex shortiana</i>	Madison	<i>Summers</i> 2906	MO	522.00
<i>Carex emoryi</i>	Madison	<i>Summers</i> 2925	MO	528.00
<i>Carex stricta</i> v. <i>strictior</i>	Vernon	<i>Chang</i> 353	MO	529.00
<i>Carex stricta</i> v. <i>strictior</i>	Howell	<i>Summers</i> 3225	MO	529.00
<i>Carex hystricina</i>	Crawford	<i>Brant</i> 1810	MO	532.00
<i>Carex hystricina</i>	Howell	<i>Summers</i> 3273	MO	532.00
<i>Carex hystricina</i>	Madison	<i>Summers</i> 2932	MO	532.00
<i>Carex lurida</i>	Butler	<i>Summers</i> & <i>Dodds</i> 3358	MO	534.00
<i>Carex squarrosa</i>	Vernon	<i>Chang</i> 482	MO	542.00
<i>Carex typhina</i>	Texas	<i>Summers</i> 3748	MO	543.00
<i>Carex lupulina</i>	Vernon	<i>Chang</i> 636	MO	548.10

## Lemnaceae

<i>Lemna minor</i>	Oregon	<i>Summers</i> & <i>Reed</i> 3938	MO	558.00
<i>Lemna minor</i>	Osage	<i>Brant</i> & <i>Miller</i> 1860	MO	558.00
<i>Lemna minima</i>	Shannon	<i>Nigh</i> 627	MO	559.00

## Commelinaceae

<i>Commelina diffusa</i>	Calloway	<i>Brant</i> <i>&amp; Gereau 1824</i>	MO	577.00
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## Pontederiaceae

<i>Heteranthera limosa</i>	Texas	<i>Summers 3581</i>	MO	583.00
<i>Heteranthera limosa</i>	Callaway	<i>Summers 2832</i>	MO	583.00
<i>Heteranthera dubia</i>	Mercer	<i>Summers 2805</i>	MO	584.00

## Juncaceae

<i>Juncus interior</i>	Douglas	<i>Smith 2899</i>	MO	591.00
<i>Juncus interior</i>	Stoddard	<i>Summers 3048</i>	MO	591.00
<i>Juncus dudleyi</i>	Vernon	<i>Chang 420</i>	MO	592.00
<i>Juncus marginatus</i> v. <i>marginatus</i>	Wright	<i>Summers</i> <i>&amp; Ryan 3544</i>	MO	593.00
<i>Juncus marginatus</i>	Wright	<i>Summers</i> <i>&amp; Ryan 3543</i>	MO	593.99
<i>Juncus subcaudatus</i>	Texas	<i>Summers</i> <i>et al. 3916</i>	MO	596.00
<i>Juncus torreyi</i>	Audrain	<i>Summers 2726</i>	MO	601.00
<i>Juncus torrey</i>	Madison	<i>Summers 3063</i>	MO	601.00
<i>Juncus torreyi</i>	Stoddard	<i>Summers 3047</i>	MO	601.00
<i>Juncus acuminatus</i>	Vernon	<i>Chang 483</i>	MO	602.00

## Liliaceae

<i>Amianthium muscifotoxicum</i>	Howell	<i>Summers 3231</i>	MO	608.00
<i>Stenanthium gramineum</i>	Howell	<i>Summers 2940</i>	MO	609.00
<i>Allium sativum</i>	St.Francois	<i>Miller, Merello,</i> <i>&amp; Schmidt 5413</i>	MO	617.00
<i>Hemerocallis fulva</i>	Vernon	<i>Chang 193</i>	MO	626.99
<i>Lilium michiganense</i>	Perry	<i>Brant, Carter,</i> <i>&amp; Noyes 1898</i>	MO	627.00
<i>Camassia scilloides</i>	Vernon	<i>Chang 385</i>	MO	631.99
<i>Yucca smalliana</i>	Vernon	<i>Chang 562</i>	MO	637.00
<i>Asparagus officinalis</i>	Phelps	<i>Summers 2937A</i>	MO	639.00
<i>Polygonatum biflorum</i>	Ste. Gene- vieve	<i>Haller</i> <i>&amp; Molyneaux 13</i>	MO	642.00

<i>Polygonatum biflorum</i>	Crawford	<i>Miller, Meyers, &amp; Rohrbach 4918</i>	MO	642.00
<i>Trillium viride</i>	Crawford	<i>Miller, Meyers, &amp; Rohrbach 4915</i>	MO	646.00
<i>Smilax tamnoides v. hispida</i>	Lincoln	<i>Miller, Noyes, &amp; Pool 5427</i>	MO	655.00
Amaryllidaceae				
<i>Hypoxis hirsuta</i>	Vernon	<i>Chang 364</i>	MO	663.00
Iridaceae				
<i>Iris cristata</i>	Howell	<i>Summers 3514</i>	MO	666.00
<i>Sisyrinchium albidum</i>	Vernon	<i>Chang 358</i>	MO	677.00
<i>Sisyrinchium compestre</i>				
<i>f. kansasum</i>	Vernon	<i>Chang 410</i>	MO	678.10
<i>Sisyrinchium bermudiana</i>	Vernon	<i>Chang 126</i>	MO	679.00
Orchidaceae				
<i>Spiranthes tuberosa</i>	Madison	<i>Summers 2754</i>	MO	699.00
<i>Spiranthes tuberosa v. tuberosa</i>	Butler	<i>Summers 3073</i>	MO	699.00
<i>Spiranthes tuberosa</i>	Pulaski	<i>Figg s.n.</i>	MO	699.00
<i>Spiranthes gracilis</i>	Ripley	<i>Summers 3616</i>	MO	700.00
<i>Spiranthes gracilis</i>	Gasconade	<i>Brant et al. 1919</i>	MO	700.00
<i>Spiranthes vernalis</i>	Butler	<i>Summers 3363</i>	MO	701.00
<i>Spiranthes vernalis</i>	Wright	<i>Summers 3435</i>	MO	701.00
<i>Spiranthes cernua</i>	Stoddard	<i>Summers 3108</i>	MO	702.00
<i>Spiranthes cernua</i>	Wright	<i>Summers et.al 3897</i>	MO	702.99
<i>Spiranthus cernua</i>	Macon	<i>Hein 44</i>	MO	702.99
<i>Spiranthes ovalis</i>	Livingston	<i>Kramer s.n.</i>	MO	703.00
<i>Spiranthes ovalis</i>	Oregon	<i>Summers 3100</i>	MO	703.00
<i>Goodyera pubescens</i>	Texas	<i>Summers &amp; Ryan 3579</i>	MO	705.00
<i>Goodyera pubescens</i>	Madison	<i>Summers 2937</i>	MO	705.00
<i>Corallorrhiza odontorhiza</i>				
<i>f. odontorhiza</i>	Butler	<i>Summers &amp; Dodd 3072</i>	MO	708.00
<i>Corallorrhiza odontorhiza</i>				
<i>f. odontorhiza</i>	Howell	<i>Summers 3704</i>	MO	708.00
<i>Corallorrhiza odontorhiza</i>				
<i>f. odontorhiza</i>	Texas	<i>Summers</i>		

<i>Aplectrum hyemale</i>		& Ryan 3657	MO	708.00
<i>Aplectrum hyemale</i>	Dunklin	<i>Pelton s.n.</i>	MO	712.00
<i>Aplectrum hyemale</i>	Oregon	<i>Summers 283</i>	MO	712.00
	Ripley	<i>Summers 2836</i>	MO	712.00

## Salicaceae

<i>Salix interior</i>	Jefferson	<i>Chandler 1575</i>	MO	721.99
<i>Salix humilis</i>	Camden	<i>Currier 90 616</i>	MO	725.99
<i>Populus deltoides</i>	Randolph	<i>Petton s.n.</i>	MO	737.99

## Ulmaceae

<i>Planera aquatica</i>	Stoddard	<i>Summers &amp; Dodd</i>	MO	783.00
<i>Celtis laevigata</i>	Franklin	<i>Berg 108</i>	MO	786.99

## Urticaceae

<i>Urtica dioica v. procera</i>	Lewis	<i>Brant</i>		
		& O'Donnell 1867	MO	794.00
<i>Parietaria pensylvanica</i>	St.Louis	<i>Merello 4999</i>	MO	800.99

## Santalaceae

<i>Comandra richardsiana</i>	Bates	<i>Broadhead s.n.</i>	MO	802.00
<i>Comandra richardsiana</i>	Ste. Gene- vieve	<i>Mohlenbrock</i> 21312	MO	802.00

## Polygonaceae

<i>Rumex patientia</i>	St.Louis	<i>Muehlenbach 3080</i>	MO	812.00
<i>Rumex stenophyllus</i>	St.Louis	<i>Muehlenbach 4258</i>	MO	814.09
<i>Rumex pulcher</i>	Platte	<i>Currier 193</i>	MO	816.00
<i>Rumex obtusifolius</i>	Ste. Gene- vieve	<i>Mohlenbrock</i> 21267	MO	817
<i>Rumex obtusifolius</i>	Barry	<i>Hornberger 368</i>	MO	817.00
<i>Rumex obtusifolius</i>	Bates	<i>Delozier 1605</i>	MO	817.00
<i>Polygonum ramosissimum</i> <i>f. ramosissimum</i>	Pettis	<i>Henderson</i> 67-1634	MO	820.00
<i>Polygonum erectum</i>	Pulaski	<i>Summers 1560</i>	MO	821.00
<i>Polygonum arenastrum</i>	New Madrid	<i>Gereau</i> & Brant 2356	MO	823.09

<i>Polygonum aviculare</i>	Barton	<i>Delozier</i> 1627	MO	823.99
<i>Polygonum aviculare</i>	Cole	<i>Delozier</i> 1938	MO	823.99
<i>Polygonum tenué</i>	Cass	<i>Smith</i> 2651	MO	824.00
<i>Polygonum tenué</i>	Lawrence	<i>Summers</i> 1574	MO	824.00
<i>Polygonum tenué</i>	Stone	<i>Smith</i> 2800	MO	824.00
<i>Polygonum coccineum</i>	Dade	<i>R. &amp; A. Collett</i> 27	MO	826.99
<i>Polygonum densiflorum</i>	St. Charles	<i>Raechal</i> & Brant 33	MO	827.00
<i>Polygonum pensylvanicum</i>	Warren	<i>Gereau et al.</i> 1844	MO	829.99
<i>Polygonum hydropiper</i>	Dade	<i>R. &amp; A. Collett</i> 363	MO	832.00
<i>Polygonum hydropiper</i>	Franklin	<i>Berg</i> 19	MO	832.00
<i>Polygonum hydropiper</i>	Ste. Gene- vieve	<i>Mohlenbrock</i> 21330	MO	832.00
<i>Polygonum hydropiper</i>	Vernon	<i>Chang</i> 284	MO	832.00
<i>Polygonum cespitosum</i>	Monroe	<i>Hudson</i> 149	MO	832.10
<i>Polygonum persicaria</i>	Callaway	<i>Gereau</i> 2341	MO	833.00
<i>Polygonum persicaria</i>	Crawford	<i>Faber-</i> <i>Langendoen</i> 131	MO	833.00
<i>Polygonum persicaria</i>	Jefferson	<i>Saunders</i> <i>et al.</i> 7877	MO	833.00
<i>Polygonum persicaria</i>	St. Charles	<i>Davidse, Bell</i> & Niblett 83	MO	833.00
<i>Polygonum persicaria</i>	Ste. Gene- vieve	<i>Mohlenbrock</i> 21277	MO	833.00
<i>Polygonum punctatum</i>	Scotland	<i>Brant</i> & O'Donnell 988	MO	834.99
<i>Polygonum punctatum</i>	Warren	<i>Steyermark</i> 132, 190	MO	834.99
<i>Polygonum hydropiperoides</i>	Dade	<i>R. &amp; A. Collett</i> 64	MO	835.99
<i>Polygonum hydropiperoides</i>	New Madrid	<i>Brant</i> & Gereau 1122	MO	835.99
<i>Polygonum sagittatum</i>	Texas	<i>Summers</i> & Ryan 3769	MO	836.00
<i>Polygonum virginianum</i>	Dade	<i>R. &amp; A. Collett</i> 65	MO	838.99
<i>Polygonum convolvulus</i>	Bates	<i>Henderson</i> 68-703	MO	839.00
<i>Polygonum convolvulus</i>	Holt	<i>McGregor</i> 37119	MO	839.00
<i>Polygonum cuspidatum</i>	St. Louis	<i>Muehlenbach</i> 3476	MO	841.00

## Chenopodiaceae

<i>Chenopodium botrys</i>	Howell	<i>Summers</i> 1853	MO	848.00
<i>Chenopodium botrys</i>	Texas	<i>Summers</i> & Ryan 3771	MO	848.00

<i>Chenopodium ambrosoides</i>	St.Francois	<i>Lewis</i> 7088	MO	849.99
<i>Chenopodium desiccatum</i>				
<i>v. desiccatum</i>	St.Louis	<i>Muhlenbach</i> 1794	MO	853.00
<i>Chenopodium album</i>	Jefferson	<i>Brant et al.</i> 760	MO	860.99
<i>Chenopodium album</i>	Ste. Gene- vieve	<i>Mohlenbrock s.n.</i>	MO	860.99
<i>Chenopodium berlandieri</i>	Lincoln/ Pike	<i>Brant &amp; O'Donnell</i> 1018	MO	863.99

## Portulacaceae

<i>Portulaca oleracea</i>	Morgan	<i>Delozier</i> 1735	MO	900.00
<i>Claytonia virginica</i>	Warren	<i>Raechal &amp; Steyermark</i>	MO	905.99
<i>Talinum parviflorum</i>	Washington	<i>Brant et al.</i> 927	MO	906.00

## Ranunculaceae

<i>Delphinium tricorne</i>	Holt	<i>McGregor</i> 36909	MO	972.00
<i>Delphinium carolinianum</i>	Ripley	<i>Ayers s.n.</i>	MO	975.99
<i>Delphinium virescens v. penardi</i> Buchanan		<i>Delozier &amp; Ellis</i> 7038	MO	976.10
<i>Delphinium virescens v. penardi</i> Lafayette		<i>Henderson 68-190</i>	MO	976.10
<i>Delphinium virescens v. penardi</i> Polk		<i>Currier</i> 89-032	MO	976.10
<i>Delphinium virescens v. penardi</i> Vernon		<i>Chang</i> 495	MO	976.10
<i>Isopyrum binternatum</i>	Holt	<i>McGregor</i> 36912	MO	977.00
<i>Isopyrum binternatum</i>	Ste. Gene- vieve	<i>Mohlenbrock 10335</i>	MO	977.00
<i>Ranunculus longirostris</i>	Carter	<i>Nellums et al. 90-388</i>	MO	978.00
<i>Ranunculus laxicaulis</i>	Vernon	<i>Chang</i> 443	MO	979.00
<i>Ranunculus abortivus</i>	Vernon	<i>Chang</i> 377	MO	982.99
<i>Ranunculus micranthus</i>	Audrain	<i>Brant et al.</i> 1779	MO	983.99
<i>Ranunculus micranthus</i>	Iron	<i>Solomon</i> 5803	MO	983.99
<i>Ranunculus micranthus</i>	Ste. Gene- vieve	<i>Mohlenbrock 10355</i>	MO	983.99
<i>Ranunculus micranthus</i>	Clinton	<i>Henderson</i> 65-154	MO	983.99
<i>Ranunculus harveyi</i>	Hickory	<i>Henderson</i> 68-103	MO	984.99
<i>Ranunculus recurvatus</i>	Montgomery	<i>Schuette</i> 1426	MO	987.00
<i>Ranunculus sardous</i>	Perry	<i>Brant et al.</i> 1911	MO	995.10
<i>Ranunculus sardous</i>	Wayne	<i>Summers</i> 2744	MO	995.10

<i>Ranunculus sardous</i>	Wright	<i>Summers</i> & Ryan 3877	MO	995.10
<i>Myosurus minimus</i>	Johnson	<i>Delozier 1655</i>	MO	997.00
<i>Myosurus minimus</i>	Cass	<i>Delozier 1654</i>	MO	997.00
<i>Myosurus minimus</i>	Holt	<i>McGregor 36887</i>	MO	997.00
<i>Anemone virginiana</i>	Monroe	<i>Hudson 594</i>	MO	1000.99
<i>Anemone virginiana</i>	St.Francois	<i>Mazanec 21</i>	MO	1000.99
<i>Anemone canadensis</i>	Perry	<i>Brant et al. 1899</i>	MO	1001.00
<i>Clematis virginiana</i>	Carroll	<i>Delozier 1397</i>	MO	1004.99
<i>Clematis pitcheri</i>	Lincoln	<i>Brant et al. 595</i>	MO	1008.00
<i>Clematis pitcheri</i>	McDonald	<i>Yatskievych &amp; Smith 90-224</i>	MO	1008.00
Resedaceae				
<i>Reseda luteola</i>	St.Louis	<i>Muehlenbach 3931</i>	MO	1110.00
Crassulaceae				
<i>Sedum ternatum</i>	Oregon	<i>Summers 3099</i>	MO	1114.00
<i>Sedum ternatum</i>	Texas	<i>Summers &amp; Ryan 3774</i>	MO	1114.00
Saxifragaceae				
<i>Penthorum sedoides</i>	Barry	<i>Hornberger 782</i>	MO	1116.00
<i>Saxifraga texana</i>	Lawrence	<i>Smith 2665</i>	MO	1119
<i>Heuchera americana</i> <i>v. hirsuticaulis</i>	Ste. Gene- vieve	<i>Mohlenbrock 21294</i>	MO	1124.10
<i>Heuchera americana</i>	Ralls	<i>Hudson 58</i>	MO	1124.99
<i>Heuchera americana</i>	Stoddard	<i>Summers 2862</i>	MO	1124.99
<i>Heuchera richardsonii</i> <i>v. grayana</i>	Clinton	<i>Currier s.n.</i>	MO	1125.00
<i>Heuchera richardsonii</i>	Carroll	<i>Summers 2890</i>	MO	1125.99
Rosaceae				
<i>Pyrus communis</i>	Calloway	<i>Brant et al. 1778</i>	MO	1146.00
<i>Pyrus communis</i>	Madison	<i>Summers 3156</i>	MO	1146.00
<i>Pyrus malus</i>	Audrain	<i>Brant et al. 1780</i>	MO	1147.00
<i>Pyrus angustifolia</i>	Shannon	<i>Summers 2835A</i>	MO	1148.00
<i>Pyrus angustifolia</i>	Stoddard	<i>Summers 2858</i>	MO	1148.00
<i>Pyrus coronaria</i>	Stoddard	<i>Summers 2869</i>	MO	1149.00

<i>Pyrus ioensis</i>	Lewis	<i>Brant</i> & O'Donnell 1868	MO	1150.00
<i>Crataegus marshallii</i>	Webster	<i>Smith</i> 2537	MO	1156.00
<i>Crataegus uniflora</i>				
x <i>C. engelmannii</i>	Douglas	<i>Smith</i> 2851	MO	1157.10
<i>Crataegus neobushii</i>	Barry	<i>Smith</i> 2802	MO	1158.00
<i>Crataegus neobushii</i>	Douglas	<i>Smith</i> 2924	MO	1158.00
<i>Crataegus viridis</i>	Shelby	<i>Brant</i> & O'Donnell 1891	MO	1162.99
<i>Crataegus viridis</i>	NewMadrid	<i>Gereau</i> & Brant 2355	MO	1162.99
<i>Crataegus viridis</i>	St.Charles	<i>Brant</i> & <i>Gereau</i> 963	MO	1162.99
<i>Crataegus margareta</i>	Howell	<i>Summers</i> 3219	MO	1165.00
<i>Crataegus crus galli</i>	Perry	<i>Brant et al.</i> 1904	MO	1167.99
<i>Crataegus crus galli</i>	Greene	<i>Smith</i> 3009	MO	1167.99
<i>Crataegus engelmannii</i>	Ripley	<i>Smith</i> & Nigh 2442	MO	1177.99
<i>Crataegus pruinosa</i>	Lincoln	<i>Schuette</i> 1408	MO	1191.99
<i>Crataegus pruinosa</i>	Osage	<i>Brant</i> & O'Donnell 1915	MO	1191.99
<i>Crataegus gattingeri</i>	Perry	<i>Brant et al.</i> 1906	MO	1193.00
<i>Crataegus calpodendron</i>	Howell	<i>Summers</i> 3242	MO	1200.99
<i>Fragaria virginiana</i>				
v. <i>illinoensis</i>	Vernon	<i>Chang</i> 415	MO	1205.10
<i>Fragaria virginiana</i>	Camden	<i>Henderson</i> 68-122	MO	1205.99
<i>Fragaria virginiana</i>	Hickory	<i>Henderson</i> 68-79	MO	1205.99
<i>Fragaria virginiana</i>	Holt	<i>McGregor</i> 36903	MO	1205.99
<i>Fragaria virginiana</i>	Monroe	<i>Hudson</i> 26	MO	1205.99
<i>Fragaria virginiana</i>	Polk	<i>Henderson</i> 68-97	MO	1205.99
<i>Fragaria virginiana</i>	St.Louis	<i>Muehlenbach</i> 3225	MO	1205.99
<i>Potentilla simplex</i>	Jefferson	<i>Miller</i> 5019	MO	1209.99
<i>Potentilla simplex</i>	Vernon	<i>Chang</i> 91	MO	1209.99
<i>Potentilla norvegica</i>	Holt	<i>Delozier</i> 2045	MO	1211.00
<i>Potentilla norvegica</i>	Lafayette	<i>Delozier</i> 1354	MO	1211.00
<i>Potentilla norvegica</i>	Monroe	<i>Hudson</i> 234	MO	1211.00
<i>Potentilla rivalis</i> v. <i>millegrana</i>	Platte	<i>Henderson</i> 68 377	MO	1212.10
<i>Potentilla rivalis</i>	Ray	<i>Henderson</i> 68-224	MO	1212.99
<i>Potentilla recta</i>	Andrew	<i>Henderson</i> 68-412	MO	1215.00
<i>Potentilla recta</i>	Bates	<i>Henderson</i> 69-180	MO	1215.00
<i>Potentilla recta</i>	Cass	<i>Henderson</i> 66-413	MO	1215.00
<i>Potentilla recta</i>	Chariton	<i>Henderson</i> 68-308	MO	1215.00
<i>Potentilla recta</i>	Clinton	<i>Henderson</i> 68-523	MO	1215.00
<i>Potentilla recta</i>	Howard	<i>Henderson</i> 68-287	MO	1215.00
<i>Potentilla recta</i>	Monroe	<i>Hudson</i> 46	MO	1215.00

<i>Potentilla recta</i>	St.Charles	<i>Davidse, Bell, &amp; Niblett 198B</i>	MO	1215.00
<i>Filipendula rubra</i>	Howell	<i>Summers &amp; Ryan 3712</i>	MO	1217.00
<i>Filipendula rubra</i>	St.Francois	<i>Christ 126</i>	MO	1217.00
<i>Geum vernum</i>	Johnson	<i>Oskins 98</i>	MO	1218.00
<i>Geum vernum</i>	Monroe	<i>Hudson 405</i>	MO	1218.00
<i>Geum vernum</i>	Ralls	<i>Hudson 189</i>	MO	1218.00
<i>Geum vernum</i>	St.Francois	<i>Solomon 5790</i>	MO	1218.00
<i>Geum vernum</i>	Ste. Gene- vieve	<i>Mohlenbrock 21327</i>	MO	1218.00
<i>Geum laciniatum</i>	Buchanan	<i>Delozier 2037</i>	MO	1220.00
v. <i>trichocarpum</i>	Greene	<i>Currier 89 017</i>	MO	1221.00
<i>Rubus idaeus v. strigosus</i>	Gasconade	<i>Gereau &amp; Brunner 2301</i>	MO	1227.99
<i>Rubus flagellaris</i>	Franklin	<i>Shea 145</i>	MO	1228.00
<i>Rubus enslenii</i>	Lewis	<i>Brant &amp; O'Donnell 1870</i>	MO	1228.00
<i>Rubus enslenii</i>	Madison	<i>Solomon, Bell, &amp; Niblett 455</i>	MO	1228.00
<i>Rubus invisus</i>	Dallas	<i>Conrad 3603</i>	MO	1229.00
<i>Rubus allegheniensis</i>	Franklin	<i>Carbol 20</i>	MO	1231.99
<i>Rubus orarius</i>	Dade	<i>R. &amp; A. Collett 180</i>	MO	1232.00
<i>Rubus mollior</i>	Lewis	<i>Brant &amp; O'Donnell 1869</i>	MO	1234.00
<i>Rubus mollior</i>	Saline	<i>Brant &amp; O'Donnell 2049</i>	MO	1234.00
<i>Rubus pensylvanica</i>	Franklin	<i>Berg 80</i>	MO	1235.00
<i>Rubus pensylvanica</i>	Franklin	<i>Berg 80</i>	MO	1235.99
<i>Rubus ostryifolius</i>	Dade	<i>Yatskievych 90-161</i>	MO	1236.00
<i>Agrimonia pubescens</i>	Callaway	<i>Brant &amp; Gereau 1822</i>	MO	1241.00
<i>Agrimonia pubescens</i>	Perry	<i>Brant, Hannon, &amp; Gereau 941</i>	MO	1241.00
<i>Agrimonia pubescens</i>	Ste. Gene- vieve	<i>Mohlenbrock 21292</i>	MO	1241.00
<i>Rosa multiflora</i>	Gasconade	<i>Gereau &amp; Hannon 2311</i>	MO	1242.00
<i>Rosa multiflora</i>	Ray	<i>Delozier &amp; Raveill 1067</i>	MO	1242.00
<i>Rosa multiflora</i>	Ste. Gene-			

	vieve	<i>Mohlenbrock</i>		
		21361	MO	1242.00
<i>Rosa multiflora</i>	Texas	<i>Summers</i>		
		& Ryan 3847	MO	1242.00
<i>Rosa multiflora</i>	Vernon	<i>Chang 478</i>	MO	1242.00
<i>Rosa multiflora</i>	Jackson	<i>Currier 208</i>	MO	1242.00
<i>Rosa setigera v. tomentosa</i>	Cass	<i>Brant 2047</i>	MO	1243.99
<i>Rosa setigera</i>	Cass	<i>Henderson 72-71</i>	MO	1243.99
<i>Rosa setigera</i>	Jefferson	<i>Sweet s.n.</i>	MO	1243.99
<i>Rosa setigera</i>	NewMadrid	<i>Lewis 2350</i>	MO	1243.99
<i>Rosa setigera</i>	St.Charles	<i>Davidse et al. 183</i>	MO	1243.99
<i>Rosa xcentifolia</i>	McDonald	<i>Bush 208</i>	MO	1245.00
<i>Rosa arkansana v. suffulta</i>	Lincoln	<i>Faber</i>		
		-Langendoen 64	MO	1254.00
<i>Rosa arkansana v. suffulta</i>	Ripley	<i>Lewis 2360</i>	MO	1254.00
<i>Prunus mexicana</i>	Lincoln	<i>Schuette s.n.</i>	MO	1258.00
<i>Prunus mexicana</i>	Warren	<i>Raechal</i>		
		& Steyermark 99	MO	1258.00
<i>Prunus americana</i>	Ste. Gene-vieve	<i>Mohlenbrock</i>		
		21324	MO	1259.00
<i>Prunus americana</i>	Vernon	<i>Chang 583</i>	MO	1259.00
<i>Prunus hortulana</i>	Ste. Gene-vieve	<i>Mohlenbrock</i>		
		21358	MO	1260.00
<i>Prunus hortulana</i>	Warren	<i>Raechal</i>		
		& Steyermark 109	MO	1260.00
<i>Prunus munsoniana</i>	Cass	<i>Summers 2825</i>	MO	1261.00
<i>Prunus munsoniana</i>	Warren	<i>Raechal et al. 110</i>	MO	1261.00
<i>Prunus mahaleb</i>	Stone	<i>Smith &amp; Kurz 2659</i>	MO	1265.00
<i>Prunus mahaleb</i>	Taney	<i>Smith 2871</i>	MO	1265.00
<i>Prunus serotina</i>	Dent	<i>Nee 27326</i>	MO	1266.00
		Simaroubaceae		
<i>Ailanthus altissima</i>	Barry	<i>Hornberger 963</i>	MO	1423.00
		Sapindaceae		
<i>Cardiospermum halicacabum</i>	Ste. Gene-vieve			
		<i>Brant</i>		
		& Holst 973	MO	1489.00

## Rhamnaceae

<i>Rhamnus cathartica</i>	Lincoln	<i>Ebinger 25166</i>	MO	1495.00
<i>Ceanothus americanus</i>	Polk	<i>Currier 89019</i>	MO	1498.99

## Vitaceae

<i>Ampelopsis cordata</i>	Perry	<i>Brant, Carter, &amp; Noyes 1895</i>	MO	1500.00
<i>Parthenocissus inserta</i>	Washington	<i>Haller &amp; Molyneux 18</i>	MO	1504.99
<i>Vitis rupestris</i>	Lincoln	<i>Miller, Noyes, &amp; Pool 5431</i>	MO	1511.99

## Malvaceae

<i>Sida elliptii</i>	Oregon	<i>Summers 3088</i>	MO	1528.00
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## Umbelliferae

<i>Ptilimnium costatum</i>	Stoddard	<i>Summers &amp; Dodds 3521</i>	MO	1664.00
<i>Oxypolis rigidior</i>	Butler	<i>Summers 3116</i>	MO	1673.90

## Primulaceae

<i>Androsace occidentalis</i>	Holt	<i>McGregor 36915A</i>	MO	1697.00
<i>Dodecatheon frenchii</i>	Ste. Gene- vieve	<i>Nelson 1809</i>	MO	1698.09
<i>Dodecatheon meadia</i> <i>v. meadia f. album</i>	Vernon	<i>Chang 406</i>	MO	1698.2
<i>Dodecatheon meadia</i>	Camden	<i>Henderson 68-145</i>	MO	1698.99
<i>Dodecatheon meadia</i>	Cass	<i>Henderson 66-235</i>	MO	1698.99
<i>Dodecatheon meadia</i>	St.Clair	<i>Henderson 66-235</i>	MO	1698.99
<i>Lysimachia nummularia</i>	Christian	<i>Redfearn 32982</i>	MO	1700.00
<i>Lysimachia nummularia</i>	Lincoln	<i>Brant et al. 576</i>	MO	1700.00
<i>Lysimachia ciliata</i>	Perry	<i>Brant et al. 657</i>	MO	1703.00
<i>Lysimachia ciliata</i>	St. Charles	<i>Brant &amp; Summers 967</i>	MO	1703.00
<i>Lysimachia ciliata</i>	Vernon	<i>Sweet s.n.</i>	MO	1703.00
<i>Lysimachia ciliata</i>	Madison	<i>Solomon, Bell, &amp; Niblett 444</i>	MO	1703.00
<i>Lysimachia ciliata</i>	Platte	<i>Henderson 68-374</i>	MO	1703.00
<i>Anagallis arvensis</i>	Ripley	<i>Ayers s.n.</i>	MO	+-

<i>Centunculus minima</i>	Montgomery	Brant & Gereau 586	MO	1708.00
Verbenaceae				
<i>Verbena stricta f. albiflora</i>	Barry	<i>Summers</i> 2960	MO	1842.1
Solanaceae				
<i>Solanum americanum</i>	Ozark	<i>Smith</i> 2997	MO	1921.00
<i>Solanum sarachoides</i>	St.Charles	<i>Sullivan s.n.</i>	MO	1923.00
<i>Solanum sarachoides</i>	Dallas	<i>Sullivan s.n.</i>	MO	1923.00
<i>Solanum carolinense</i>				
<i>f. albiflorum</i>	Vernon	<i>Chang</i> 136	MO	1924.10
<i>Lycopersicon esculentum</i>	St.Louis	<i>Miller</i> 5421	MO	1928.00
<i>Physalis pubescens</i>				
<i>var.pubescens</i>	Oregon	<i>Summers</i> 3094	MO	1936.00
<i>Physalis missouriensis</i>	Texas	<i>Summers</i> 3841	MO	1937.00
Scrophulariaceae				
<i>Bacopa acuminata</i>	Howell	<i>Summers</i> 3815	MO	1949.00
<i>Bacopa acuminata</i>	Stoddard	<i>Summers</i> 2752	MO	1949.00
<i>Gratiola virginiana</i>				
<i>v. virginiana</i>	Dent	<i>Steyermark</i> 18930	MO	1952.00
<i>Verbascum blattaria</i>				
<i>f. blattaria</i>	Montgomery	<i>Schuette</i> 2079	MO	1961.00
<i>Chelone obliqua v. speciosa</i>	Butler	<i>Summers</i> 3069	MO	1963.00
<i>Chelone obliqua v. speciosa</i>	Dunklin	<i>Pelton s.n.</i>	MO	1963.00
<i>Scrophularia marilandica</i>	Barry	<i>Hornberger</i> 493	MO	1971.99
<i>Collinsia verna</i>	St.Clair	<i>DeLozier</i> 1913	MO	1973
<i>Seymeria macrophylla</i>	Linn	<i>Schuette</i> 2080	MO	1990.00
<i>Buchnera americana</i>	Cass	<i>Smith</i> 2572	MO	2003
Rubiaceae				
<i>Galium arkansanum</i>	Cedar	<i>Summers s.n.</i>	MO	2043.00
<i>Galium tinctorium</i>	Howell	<i>Summer</i> 3568	MO	2046.00
<i>Diodia virginiana</i>	Hickory	<i>Summers</i> 2828	MO	2050.99
<i>Cephaelanthus occidentalis</i>	Perry	<i>Brant et al.</i> 1910	MO	2053.99
<i>Houstonia pusilla</i>	Vernon	<i>Chang</i> 357	MO	2055.99

**ANNOUNCEMENT  
CHANGE IN EDITOR**

Effective with Volume 14, the new editor of *Missouriensis* will be George Yatskievych. Future manuscripts should be sent to him at the following address: Flora of Missouri Project, Missouri Botanical Garden, P. O. Box 299, St. Louis, MO 63166.