

MISSOURIENSIS

Journal of the Missouri Native Plant Society

Volume 13

1992

Number 2

CONTENTS

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

David Castaner and David LaPlante 27

CHICKEN SPIKE (*SPHENOCOCLEA ZELANDICA*, CAMPANULACEAE), NEW TO MISSOURI

Stanton Hudson 50

MISSOURI BOTANICAL RECORD 15

Wallace R. Weber and William Corcoran 53

ANNOUNCEMENT OF CHANGE IN EDITOR 71

Published for the Society
at
Southwest Missouri State University

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

David Castaner
Herbarium, Central Missouri State University
Warrensburg, MO 64093-5053

and

David LaPlante
Biology Dept., Central Missouri State University
Warrensburg, MO 64093-5053

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 north-west 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 synchnocephala (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 synchnocephala* 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 Yatskevych and Turner (1990). When different from Steyermark, referral pages to Yatskevych 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 berteroi* (Spreng.) Fassett, Burhead
var. *berteroi*, [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. *obtusata* (Muhl.) Wieg. - LaPlante 803

POACEAE (39)

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

- Ivar. *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 oligosanthos* Schultes, Panicum,
*var. *oligosanthos*, [YT258], S: *Panicum oligosanthos* Schultes var. *oligosanthos* - LaPlante 937
*var. *scribnerianum* (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* (Poir.) Roemer & Schultes, Yellow Foxtail, [YT270], S: *S. glauca* (L.) Beauv. - Castaner 8585, 10113
- 237 **S. parviflora* (Poir.) 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 **Lipocarpa 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. grvida* 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. *interior* - 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. deltoides* 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. *acuminata*
 f. *alexanderi* (Britt.) Steyer. - *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. stenophyllus* 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. *pratensis* (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) Gil. - LaPlante 782

CHENOPODIACEAE (4)

- 608 !**Chenopodium* cf. *pratericola* Rydb., Goosefoot, [YT91], S: *C. desiccatum* var. *leptophylloides* (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 rudis* 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* Andr., Littlepod False Flax - LaPlante 88
766 *Descurainia pinnata* (Walt.) Britt., Tansy Mustard
ssp. *brachycarpa* (Richardson) Detl., [YT70], S: *D. pinnata* var. *brachy-*
carpa (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. *occi-*
dentalis - 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. rivalis* Nutt. ex T. & G., Brook Cinquefoil
*var. *millegrana* (Engelm.) Wats. - Castaner 10073
*var. *pentrandra* (Engelm.) Wats. - Castaner 10115
- 832 *Geum canadense* Jacq., White Avena, [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 lupulina* L., Black Medick, [YT113], S: var. *glandulosa* Neill. - Castaner 10049
- 894 !*Melilotus officinalis* (L.) Pallas, Yellow Sweet Clover - LaPlante 96

- 894 *IM. 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* (Elliott) DC. - *Castaner* 10123
- 922 **D. paniculatum* (L.) DC., Tick Trefoil, [YT111], S: var. *paniculatum* - *LaPlante* 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.
 pyncocarpa (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. laciniata* Hill, Cut-leaved Evening Primrose, [YT154], S: var. *laciniata* -
 LaPlante 98
 1107 *Gaura parviflora* Doug., Velvety Gaura, [YT154], S: f. *glabra* Munz - *LaPlante* 100

APIACEAE (5)

- 1121 *Sanicula canadensis* L., Black Snakeroot
var. *canadensis* - *LaPlante* 620
- 1128 *Torilis arvensis* (Hudson) Link, Hedge Parsely, [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. *subintegririma* (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 & Steyer. - 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* - LaPlante 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 ptrycanthum* 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 *Dasistoma 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. circaeazans* Michx., Wild Licorice
 var. *hypomalacum* Fern. - LaPlante 863
 1398 *Cephalanthus occidentalis* L., Buttonbush, [YT190], S: var. *occidentalis* -
 Castaner 8559

CAPRIFOLIACEAE (1)

- 1410 *Symphoricarpos 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. *ludovidiana* 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.) Steyerl. - *LaPlante* 622
- 1496 **Solidago altissima* L., Tall Goldenrod
var. *altissima*, [YT55], S: *S. canadensis* L. var. *gilvocanescens* Rydb.;
also in Great Plains Flora Association (1986), var. *scabra* T. & G. -
LaPlante 848
var. *hargerii* 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. *philadelphicus* - *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* - *LaPlante* 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

This study was funded in part by a grant from the Missouri Department of Conservation. We are particularly grateful to James H. Wilson for his help in the project.

LITERATURE CITED

- Castaner, D. 1984. Two additions to the flora of Missouri from Little Bean Marsh. *Missouriensis* 65(3):106-108
- _____. 1988. *Carex sychnocephala* (Cyperaceae), New to Missouri. *Sida* 13(2):261-262
- _____. and D. LaPlante, David. 1992. The vegetation of Little Bean Marsh. *Trans. Missouri Acad. Sci.* (In press)

of Kansas, Lawrence. vii + 1392 pp.

Steyermark, J. A. 1963. *Flora of Missouri*. Iowa State University Press, Ames, Iowa. lxxxiii + 1728 pp.

Thom, R. H. and J. H. Wilson. 1980. The Natural Divisions of Missouri. *Trans. Missouri Acad. of Sci.* 14:9-23.

Yatskievych, G. and J. Turner. 1990. *Catalogue of the Flora of Missouri*. Monographs in Systematic Botany. Vol. 37. Missouri Botanical Garden, St. Louis, MO.

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 Sphenocleeae 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).

LITERATURE CITED

- Mohandas, C., Y. S. Rao, and S. C. Sahu. 1981. Cultural control of rice root nematodes (*Hirschmanniella* spp.) with *Sphenoclea zeylanica*. Proc. Indian Acad. Sci., Animal Sci. 90: 373-376.
- Rosatti, T. J. 1986. The genera of Sphenocleaceae and Campanulaceae in the southeastern United States. J. Arnold Arbor. 67: 1-64.
- Smith, E. B. 1988. *An Atlas and Annotated Checklist of the Vascular Plants of Arkansas*, ed. 2. Published by author, Fayetteville, AR. iv, 489 pp.
- Uphof, J. T. C. 1968. *Dictionary of Economic Plants*, ed. 2. J. Cramer, New York. v, 591 pp.
- Ward, D. B. 1978. Keys to the flora of Florida--7, Campanulaceae. Phytologia 39: 1-12.

MISSOURI
BOTANICAL GARDEN
HERBARIUM

Nº 4074378



Sheet 2 of 2

MISSOURI DEPARTMENT OF CONSERVATION
FLORA OF MISSOURI PROJECT

Sphenoclea zeylanica Gaertner

BUTLER COUNTY: W side of County Road
1320, 1/4 mi E of State Highway 142, S of
Poplar Bluff, T24N R6E S33 SE1/4; 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

Wallace R. Weber
Department of Biology
Southwest Missouri State University
Springfield, MO 65804-0095

William Corcoran
Department of Geosciences
Southwest Missouri State University
Springfield, MO 65804-0095

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> <i>& Ryan 3857</i>	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	Brant & O'Donnell 1884	MO	78.99
<i>Potamogeton nodus</i>	Hickory	Summers 2830	MO	83.00
<i>Potamogeton nodosus</i>	Bates	Summers 2826	MO	83.00
<i>Zanichellia palustris</i>	Mercer	Summers 2809	MO	86.00
<i>Najas gracillima</i>	Lincoln	Schuetz s.n.	MO	87.00

Alismaceae

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

Hydrocharitaceae

<i>Limnobium spongia</i>	Stoddard	Summers 3922	MO	103.00
--------------------------	----------	--------------	----	--------

Gramineae

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

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

Cyperaceae

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

Cyperus esculentus v. *esculentus*

<i>f. angustispicatus</i>	Vernon	Chang 602	MO	378.10
---------------------------	--------	-----------	----	--------

<i>Cyperus strigosus</i>	Howell	Summers 3474	MO	379.99
--------------------------	--------	--------------	----	--------

<i>Cyperus strigosus</i>	Callaway	Brant & Gereau 1826	MO	379.00
--------------------------	----------	------------------------	----	--------

<i>Cyperus lancastricensis</i>	New Madrid/ Scott line	Carter 8277	MO	381.00
--------------------------------	---------------------------	-------------	----	--------

<i>Cyperus filiculmis</i>	Scotland	Brant & O'Donnell 1875	MO	385.99
---------------------------	----------	---------------------------	----	--------

<i>Eleocharis acicularis</i>	St. Charles	Carter et al. 7957	MO	393.00
------------------------------	-------------	--------------------	----	--------

<i>Eleocharis obtusa</i> v. <i>obtusa</i>	Wright	Summers 3439	MO	396.00
---	--------	--------------	----	--------

<i>Eleocharis macrostachya</i>	Wright	Summers 3838	MO	399.00
--------------------------------	--------	--------------	----	--------

<i>Bulbostylis capillaris</i>	Texas	Summers 3840	MO	403.00
-------------------------------	-------	--------------	----	--------

<i>Bulbostylis capillaris</i>	Wright	Summers 3435A	MO	403.00
-------------------------------	--------	---------------	----	--------

<i>Fimbristylis caroliniana</i>	Howell	Summers 3267	MO	404.00
---------------------------------	--------	--------------	----	--------

<i>Scirpus verecundus</i>	Howell	Summers 3212	MO	408.00
---------------------------	--------	--------------	----	--------

<i>Scirpus koilolepis</i>	Howell	Summers 3283	MO	409.00
---------------------------	--------	--------------	----	--------

<i>Scirpus koilolepis</i>	Howell	Summers 3283	MO	409.00
---------------------------	--------	--------------	----	--------

<i>Scirpus acutus</i>	Howell	Summers 3476	MO	416.00
-----------------------	--------	--------------	----	--------

<i>Scirpus atrovirens</i> v. <i>georgianus</i>	Stoddard	Summers 3051	MO	421.2
---	----------	--------------	----	-------

<i>Scirpus atrovirens</i>	Jefferson	Miller 5214	MO	421.99
---------------------------	-----------	-------------	----	--------

<i>Scirpus lineatus</i>	Vernon	Chang 470	MO	424.00
-------------------------	--------	-----------	----	--------

<i>Scirpus cyperinus</i>	Texas	Summers & Ryan 3765	MO	425.99
--------------------------	-------	------------------------	----	--------

<i>Hemicarpha micrantha</i>	Texas	Summers & Ryan 3759	MO	429.00
-----------------------------	-------	------------------------	----	--------

Rhynchospora corniculata

v. <i>corniculata</i>	Howell	Summers 2837	MO	431.00
-----------------------	--------	--------------	----	--------

<i>Scleria pauciflora</i>	Howell	Summers 3465	MO	439.99
---------------------------	--------	--------------	----	--------

<i>Scleria pauciflora</i>	Oregon	Summers 2996	MO	439.99
---------------------------	--------	--------------	----	--------

<i>Scleria ciliata</i> v. <i>ciliata</i>	Perry	Brant, Carter, & Noyes 1902	MO	440.00
--	-------	--------------------------------	----	--------

<i>Carex rosea</i>	Audrain	Summers 2723	MO	448.00
--------------------	---------	--------------	----	--------

<i>Carex cephalophora</i>	Crawford	Brant & O'Donnell 1791	MO	449.99
---------------------------	----------	---------------------------	----	--------

<i>Carex cephalophora</i>	Linn	Summers & Dodds 3413	MO	449.99
---------------------------	------	-------------------------	----	--------

<i>Carex cephalospora</i>	Perry	Carter, Brant & Noyes 7904	MO	449.99
---------------------------	-------	-------------------------------	----	--------

<i>Carex leavenworthii</i>	Howell	Summers 3380	MO	450.00
----------------------------	--------	--------------	----	--------

<i>Carex muhlenbergii</i> v. <i>muhlenbergii</i>	Howell	Summers 3234	MO	452.00
---	--------	--------------	----	--------

<i>Carex muhlenbergii</i> v. <i>australis</i>	McDonald	Smith & Yatskievych 3022	MO	452.20
---	----------	-----------------------------	----	--------

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

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

Lemnaceae

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

Commelinaceae

<i>Commelina diffusa</i>	Calloway	Brant & Gereau 1824	MO	577.00
--------------------------	----------	------------------------	----	--------

Pontederiaceae

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

Juncaceae

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

Liliaceae

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

<i>Polygonatum biflorum</i>	Crawford	Miller, Meyers, & Rohrbach 4918	MO	642.00
<i>Trillium viride</i>	Crawford	Miller, Meyers, & Rohrbach 4915	MO	646.00
<i>Smilax tamnoides</i> v. <i>hispida</i>	Lincoln	Miller, Noyes, & Pool 5427	MO	655.00

Amaryllidaceae

<i>Hypoxis hirsuta</i>	Vernon	Chang 364	MO	663.00
------------------------	--------	-----------	----	--------

Iridaceae

<i>Iris cristata</i>	Howell	Summers 3514	MO	666.00
<i>Sisyrinchium albidum</i>	Vernon	Chang 358	MO	677.00
<i>Sisyrinchium compestre</i> f. <i>kansanum</i>	Vernon	Chang 410	MO	678.10
<i>Sisyrinchium bermudiana</i>	Vernon	Chang 126	MO	679.00

Orchidaceae

<i>Spiranthes tuberosa</i>	Madison	Summers 2754	MO	699.00
<i>Spiranthes tuberosa</i> v. <i>tuberosa</i>	Butler	Summers 3073	MO	699.00
<i>Spiranthes tuberosa</i>	Pulaski	Figg s.n.	MO	699.00
<i>Spiranthes gracilis</i>	Ripley	Summers 3616	MO	700.00
<i>Spiranthes gracilis</i>	Gasconade	Brant et al. 1919	MO	700.00
<i>Spiranthes vernalis</i>	Butler	Summers 3363	MO	701.00
<i>Spiranthes vernalis</i>	Wright	Summers 3435	MO	701.00
<i>Spiranthes cernua</i>	Stoddard	Summers 3108	MO	702.00
<i>Spiranthes cernua</i>	Wright	Summers et al 3897	MO	702.99
<i>Spiranthes cernua</i>	Macon	Hein 44	MO	702.99
<i>Spiranthes ovalis</i>	Livingston	Kramer s.n.	MO	703.00
<i>Spiranthes ovalis</i>	Oregon	Summers 3100	MO	703.00
<i>Goodyera pubescens</i>	Texas	Summers & Ryan 3579	MO	705.00
<i>Goodyera pubescens</i>	Madison	Summers 2937	MO	705.00
<i>Corallorhiza odontorhiza</i> f. <i>odontorhiza</i>	Butler	Summers & Dodd 3072	MO	708.00
<i>Corallorhiza odontorhiza</i> f. <i>odontorhiza</i>	Howell	Summers 3704	MO	708.00
<i>Corallorhiza odontorhiza</i> f. <i>odontorhiza</i>	Texas	Summers		

		& 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
<i>Aplectrum hyemale</i>	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 & 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>		
		<i>& O'Donnell 1867</i>	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. Genevieve	<i>Mohlenbrock</i>		
		<i>21312</i>	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. Genevieve	<i>Mohlenbrock</i>		
		<i>21267</i>	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>		
		<i>67-1634</i>	MO	820.00
<i>Polygonum erectum</i>	Pulaski	<i>Summers 1560</i>	MO	821.00
<i>Polygonum arenastrum</i>	New Madrid	<i>Gereau</i>		
		<i>& Brant 2356</i>	MO	823.09

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

Chenopodiaceae

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

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

Portulacaceae

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

Ranunculaceae

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

<i>Ranunculus sardous</i>	Wright	Summers & Ryan 3877	MO	995.10
<i>Myosurus minimus</i>	Johnson	Delozier 1655	MO	997.00
<i>Myosurus minimus</i>	Cass	Delozier 1654	MO	997.00
<i>Myosurus minimus</i>	Holt	McGregor 36887	MO	997.00
<i>Anemone virginiana</i>	Monroe	Hudson 594	MO	1000.99
<i>Anemone virginiana</i>	St. Francois	Mazanec 21	MO	1000.99
<i>Anemone canadensis</i>	Perry	Brant et al. 1899	MO	1001.00
<i>Clematis virginiana</i>	Carroll	Delozier 1397	MO	1004.99
<i>Clematis pitcheri</i>	Lincoln	Brant et al. 595	MO	1008.00
<i>Clematis pitcheri</i>	McDonald	Yatskievych & Smith 90-224	MO	1008.00

Resedaceae

<i>Reseda luteola</i>	St. Louis	Muehlenbach 3931	MO	1110.00
-----------------------	-----------	------------------	----	---------

Crassulaceae

<i>Sedum ternatum</i>	Oregon	Summers 3099	MO	1114.00
<i>Sedum ternatum</i>	Texas	Summers & Ryan 3774	MO	1114.00

Saxifragaceae

<i>Penthorum sedoides</i>	Barry	Hornberger 782	MO	1116.00
<i>Saxifraga texana</i>	Lawrence	Smith 2665	MO	1119
<i>Heuchera americana</i> v. <i>hirsuticaulis</i>	Ste. Gene- vieve	Mohlenbrock 21294	MO	1124.10
<i>Heuchera americana</i>	Ralls	Hudson 58	MO	1124.99
<i>Heuchera americana</i>	Stoddard	Summers 2862	MO	1124.99
<i>Heuchera richardsoni</i> v. <i>grayana</i>	Clinton	Currier s.n.	MO	1125.00
<i>Heuchera richardsonii</i>	Carroll	Summers 2890	MO	1125.99

Rosaceae

<i>Pyrus communis</i>	Calloway	Brant et al. 1778	MO	1146.00
<i>Pyrus communis</i>	Madison	Summers 3156	MO	1146.00
<i>Pyrus malus</i>	Audrain	Brant et al. 1780	MO	1147.00
<i>Pyrus angustifolia</i>	Shannon	Summers 2835A	MO	1148.00
<i>Pyrus angustifolia</i>	Stoddard	Summers 2858	MO	1148.00
<i>Pyrus coronaria</i>	Stoddard	Summers 2869	MO	1149.00

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

<i>Potentilla recta</i>	St. Charles	Davidse, Bell, & Niblett 198B	MO	1215.00
<i>Filipendula rubra</i>	Howell	Summers & Ryan 3712	MO	1217.00
<i>Filipendula rubra</i>	St. Francois	Christ 126	MO	1217.00
<i>Geum vernum</i>	Johnson	Oskins 98	MO	1218.00
<i>Geum vernum</i>	Monroe	Hudson 405	MO	1218.00
<i>Geum vernum</i>	Ralls	Hudson 189	MO	1218.00
<i>Geum vernum</i>	St. Francois	Solomon 5790	MO	1218.00
<i>Geum vernum</i>	Ste. Gene- vieve	Mohlenbrock 21327	MO	1218.00
<i>Geum laciniatum</i>				
<i>v. trichocarpum</i>	Buchanan	Delozier 2037	MO	1220.00
<i>Rubus idaeus v. strigosus</i>	Greene	Currier 89 017	MO	1221.00
<i>Rubus flagellaris</i>	Gasconade	Gereau & Brunner 2301	MO	1227.99
<i>Rubus enslenii</i>	Franklin	Shea 145	MO	1228.00
<i>Rubus enslenii</i>	Lewis	Brant & O'Donnell 1870	MO	1228.00
<i>Rubus enslenii</i>	Madison	Solomon, Bell, & Niblett 455	MO	1228.00
<i>Rubus invisus</i>	Dallas	Conrad 3603	MO	1229.00
<i>Rubus allegheniensis</i>	Franklin	Carbol 20	MO	1231.99
<i>Rubus orarius</i>	Dade	R. & A. Collett 180	MO	1232.00
<i>Rubus mollior</i>	Lewis	Brant & O'Donnell 1869	MO	1234.00
<i>Rubus mollior</i>	Saline	Brant & O'Donnell 2049	MO	1234.00
<i>Rubus pensylvanica</i>	Franklin	Berg 80	MO	1235.00
<i>Rubus pensylvanica</i>	Franklin	Berg 80	MO	1235.99
<i>Rubus ostryifolius</i>	Dade	Yatskievych 90-161	MO	1236.00
<i>Agrimonia pubescens</i>	Callaway	Brant & Gereau 1822	MO	1241.00
<i>Agrimonia pubescens</i>	Perry	Brant, Hannon, & Gereau 941	MO	1241.00
<i>Agrimonia pubescens</i>	Ste. Gene- vieve	Mohlenbrock 21292	MO	1241.00
<i>Rosa multiflora</i>	Gasconade	Gereau & Hannon 2311	MO	1242.00
<i>Rosa multiflora</i>	Ray	Delozier & Raveill 1067	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 mutliflora</i>	Jackson	<i>Currier 208</i>	MO	1242.00
<i>Rosa setigera</i> v. <i>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</i> v. <i>suffulta</i>	Lincoln	<i>Faber</i>		
		-Langendoen 64	MO	1254.00
<i>Rosa arkansana</i> v. <i>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 & 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 89 019</i>	MO	1498.99

Vitaceae

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

Malvaceae

<i>Sida elliotii</i>	Oregon	<i>Summers 3088</i>	MO	1528.00
----------------------	--------	---------------------	----	---------

Umbelliferae

<i>Ptilimnium costatum</i>	Stoddard	<i>Summers & 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. Genevieve	<i>Nelson 1809</i>	MO	1698.09
<i>Dodecatheon meadia</i> v. <i>meadia</i> f. <i>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 & 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, & 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	1703.00

<i>Gentunculus minima</i>	Montgomery	Brant & Gereau 586	MO	1708.00
---------------------------	------------	-----------------------	----	---------

Verbenaceae

<i>Verbena stricta f. albiflora</i>	Barry	Summers 2960	MO	1842.1
-------------------------------------	-------	--------------	----	--------

Solanaceae

<i>Solanum americanum</i>	Ozark	Smith 2997	MO	1921.00
<i>Solanum sarachoides</i>	St. Charles	Sullivan s.n.	MO	1923.00
<i>Solanum sarachoides</i>	Dallas	Sullivan s.n.	MO	1923.00
<i>Solanum carolinense</i> <i>f. albiflorum</i>	Vernon	Chang 136	MO	1924.10
<i>Lycopersicon esculentum</i>	St. Louis	Miller 5421	MO	1928.00
<i>Physalis pubescens</i> <i>var. pubescens</i>	Oregon	Summers 3094	MO	1936.00
<i>Physalis missouriensis</i>	Texas	Summers 3841	MO	1937.00

Scrophulariaceae

<i>Bacopa acuminata</i>	Howell	Summers 3815	MO	1949.00
<i>Bacopa acuminata</i>	Stoddard	Summers 2752	MO	1949.00
<i>Gratiola virginiana</i> <i>v. virginiana</i>	Dent	Steyermark 18930	MO	1952.00
<i>Verbascum blattaria</i> <i>f. blattaria</i>	Montgomery	Schuette 2079	MO	1961.00
<i>Chelone obliqua v. speciosa</i>	Butler	Summers 3069	MO	1963.00
<i>Chelone obliqua v. speciosa</i>	Dunklin	Pelton s.n.	MO	1963.00
<i>Scrophularia marilandica</i>	Barry	Hornberger 493	MO	1971.99
<i>Collinsia verna</i>	St. Clair	DeLozier 1913	MO	1973
<i>Seymeria macrophylla</i>	Linn	Schuette 2080	MO	1990.00
<i>Buchnera americana</i>	Cass	Smith 2572	MO	2003

Rubiaceae

<i>Galium arkansanum</i>	Cedar	Summers s.n.	MO	2043.00
<i>Galium tinctorium</i>	Howell	Summer 3568	MO	2046.00
<i>Diodia virginiana</i>	Hickory	Summers 2828	MO	2050.99
<i>Cephalanthus occidentalis</i>	Perry	Brant et al. 1910	MO	2053.99
<i>Houstonia pusilla</i>	Vernon	Chang 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.