

Vascular Flora of a Red Sandstone Hills Site Canadian County, Oklahoma

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This article reports the results of an inventory of the vascular plants from a site in central Oklahoma. Three hundred thirty-four species of vascular plants in 237 genera and 76 families were collected. The most species were collected from the families Poaceae (56) and Asteraceae (54). The genera with the most species were *Euphorbia* and *Eragrostis*, both with six species. One hundred six species were annuals, 227 perennials, and 1 biennial. Forty-nine species of woody plants were present. Forty-one species, or 12.3% of the flora, were exotic to Oklahoma. No species listed as threatened or endangered by the U.S. Fish and Wildlife Service were encountered, but two species (*Escobaria vivipara* and *Muhlenbergia bushii*) are tracked by the Oklahoma Natural Heritage Inventory.

INTRODUCTION

Canadian County has been the focus of botanical research for several decades. The first plant collections from the county were made by Shultz and Sawyer on January 10, 1917, when they collected *Helianthus maximiliani*, *Oenothera rhombipetala*, *Salsola iberica*, and *Senecio riddellii*. There was no further collecting until 1926, but in the 1930s botanical studies began in earnest. Botanical collections in Canadian County have focused on the “Caddo Canyons” in the western third of the county. Of the 1,121 species recorded in the Oklahoma Vascular Plants database (Hoagland et al. 2006) for Canadian County, 964 are from canyons such as Devil’s / Methodist, Grocket, Waters, and Widow-maker. On 29 May 1933, J. C. Shirley collected 38 specimens from Devil’s Canyon. Elbert Little collected 87 species from Devil’s Canyon in September, 1936. Several collectors visited Devils Canyon in 1937, but the most prolific was Milton Hopkins, who collected 145 in April and September of 1937 (Hoagland et al. 2006). Although collecting

continued in Devil’s Canyon, emphasis shifted to nearby Water Canyon when Connie Taylor gathered 321 specimens (see Taylor [1961] for a complete species list). Botanical collections outside the canyons have not focused on a particular locale in the county. Although 1,121 taxa of vascular plants have been reported from Canadian County, it is fewer than the taxa reported from adjacent Oklahoma (1,399) and Cleveland (1,426) counties. The current project was initiated on the assumption that focused collection effort at a given site would yield additional county records. It will also provide land managers with a working species list to help guide their activities.

STUDY AREA

The study area encompasses 64.7 ha in Canadian County (Figure) along the Canadian River. Latitudinal extent ranges from 35.34°N to 35.36°N and longitudinal extent from 97.67°W to 97.68°W. The study area is located within the subtropical humid (Cf) climate zone (Trewartha 1968). Summers are

warm (mean July temperature = 27.8°C) and humid, whereas winters are relatively short and mild (mean January temperature = 1.78°C). Mean annual precipitation is 87.6 cm, with periodic severe droughts (Oklahoma Climatological Survey 2006).

Physiographically, the study area is located within the Osage Plains section of the Central Lowlands province (Hunt 1974) and the Central Redbed Plains province of Oklahoma (Curtis and Ham 1979). The surface geology is primarily Permian red sandstone and shale with Quaternary silt, sand, and clay along the Canadian River floodplain (Branson and Johnson 1979). Elevation ranges from 411.5 m to 358.7 m. The predominant potential vegetation types are Tallgrass Prairie and Bottomland vegetation (Duck and Fletcher 1943).

METHODS

Collections were made monthly from March to June during the 2005 and 2006 growing seasons. The predominant vegetation association at the site were ascribed according to Hoagland (2000) and attributed to each collection. Vouchers for species exotic to North America were made from naturalized populations only, thus excluding cultivated and ornamental plants. Specimens were processed at the Robert Bebb Herbarium of the University of Oklahoma (OKL) following standard procedures. Manuals used for specimen identification included Waterfall (1969), Barkley (1986), and Diggs et al. (1999). Origin, either native or introduced, was determined by using Taylor and Taylor (1991) and US Department of Agriculture-Natural Resources Conservation Service (USDA-NRCS 2006). Nomenclature follows the USDA-NRCS (2006). Voucher specimens were deposited at OKL.

RESULTS AND DISCUSSION

Three hundred thirty-four species of vascular plants in 237 genera and 76 families were collected (appendix 1). The greatest numbers of species were from the Asteraceae (56) and Poaceae (54). The largest genera were *Euphorbia* and *Eragrostis* each with 6 species. There were three species of ferns, two gymnosperm, 78 monocots, and 252 dicots (Table). One hundred and six species were annuals, 227 perennials, and one biennial. Forty-nine species of woody plants were present. The absence of *Q. stellata* at the site is noteworthy. This study contributed an additional 84 species to the flora of Canadian County for a total of 1,205 species.

Forty-one species or 12.3% of the flora was non-native to North America. The Poaceae and Fabaceae had the greatest number of exotic species, 12 and 7 respectively. There were three exotic species in the genus *Bromus* and two in *Ulmus*. These values are consistent with other floristic studies from Oklahoma, in which exotic species constitute 9% - 15% of the flora (Hoagland and Buthod 2003, Hoagland and Buthod 2004, Hoagland and Johnson 2001, Hoagland and Johnson 2004a, Hoagland and Johnson 2004b, Hoagland et al. 2004a, Hoagland et al. 2004b, Hoagland and Wallick 2003). An exception is Red Slough and Grassy Slough, where exotic species constituted 6.6% (Hoagland and Johnson, 2004b).

No species listed as threatened or endangered by the U.S. Fish and Wildlife Service were encountered. However, *Escobaria vivipara* (G5S2S3) and *Muhlenbergia bushii* (G5S1S2), which are tracked by the Oklahoma Natural Heritage Inventory (2006), were present. Species are ranked by the ONHI according to level of imperilment at the global [G] and state [S] level on a scale of

pecies that is imperiled and 5 a species that is secure [Groves et al. 1995]).

Four vegetation associations/land cover types occurred at the study area. Each is described below with a brief list of associated species.

1. *Schizachyrium scoparium* - *Bouteloua curtipendula* herbaceous association occurred on shallow sandstone derived soils and was the predominant grassland vegetation at the site. Associated species included *Argythamnia mercurialiana*, *Baptisia australis*, *Bouteloua hirsuta*, *Dalea aurea*, *D. enneandra*, *D. multiflora*, *D. purpurea*, *Euphorbia corollata*, *Hedeoma drummondii*, *Ipomoea leptophylla*, *Krameria lanceolata*, *Lesquerella ovalifolia*, *Linum rigidum*, *Paronychia jamesii*, *Penstemon cobaea*, *Polygala alba*, *Stillingia sylvatica*, and *Tradescantia occidentalis*.

2. *Quercus muehlenbergii* - *Juniperus virginiana* forest association is a vegetation type not described in Hoagland (2000), but was the predominant forest vegetation at Camp Kickapoo. Two subtypes most likely exist, although further analysis is necessary. The first occupies drier habitats and is characterized by associated species such as *Carex albicans*, *Cornus drummondii*, *Opuntia macrorhiza*, *Q. marilandica*, *Rhus aromatica*, *Ruellia humilis*, *Sideroxylon lanuginosum*, *Symphoricarpos orbiculatus*, *Tridens flavus*, and *Viburnum rufidulum*. The moist or mesic subtypes occurred along streams and deep gullies. Associated species include *Arisaema dracontium*, *Bromus pubescens*, *Chasmanthium latifolium*, *Desmodium glutinosum*, *Elephantopus tomentosus*, *Juglans nigra*, *Phryma leptostachya*, *Polygonatum biflorum*, *Q. macrocarpa*, *Sanicula canadensis*, *Sapindus drummondii*, and *Verbesina alternifolia*.

3. Wetland and aquatic vegetation was restricted to a small human-made pond and swales on the Canadian River floodplain. Associated species included *Amorpha fruticosa*, *Cephalanthus occidentalis*, *Echinochloa crus-galli*, *Polygonum lapathifolium*, *Symphytotrichum subulatum*, and *Typha domingensis*

4. Disturbed areas and old-field vegetation included roadsides and areas exhibiting signs of physical disruption. Associated species included *Capsella bursa-pastoris*, *Chamaesyce maculata*, *C. missurica*, *Erodium cicutarium*, *Geranium carolinianum*, *Lamium amplexicaule*, *Mollugo verticillata*, *Oenothera biennis*, *O. laciniata*, *Oxalis stricta*, *Phytolacca americana*, *Portulaca pilosa*, *Sherardia arvensis*, *Solanum dimidiatum*, *S. elaeagnifolium*, *Sorghum halepense* and *Viola bicolor*.

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Table Summary of floristic collections from a study site in Canadian County, Oklahoma.*

Taxonomic group	Species	Native spp.	Introduced spp.
Pteridophyta	3	3	0
Coniferophyta	2	1	1
Magnoliophyta	329	289	40
Magnoliopsida	250	222	28
Liliopsida	79	67	12
Total	334	293	41

* Table format follows Palmer et al. (1995).

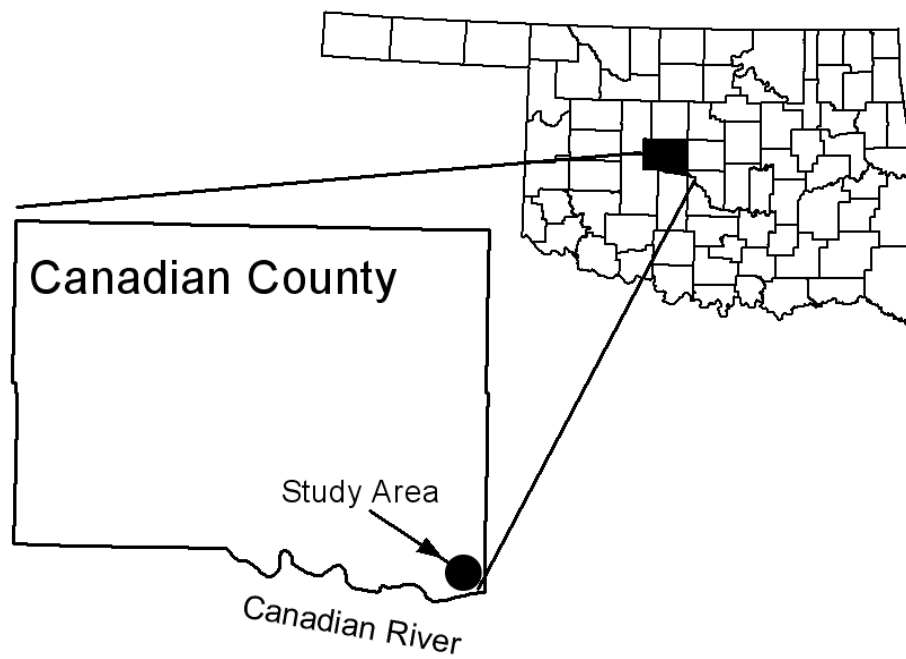


Figure Location of the Canadian County study area.

APPENDIX

Annotated species list. The first entry is habitat (QMJV-M = *Quercus muehlenbergii* - *Juniperus virginiana* forest association, mesic subtype; QMJV-X = *Q. muehlenbergii* - *J. virginiana* forest association, xeric subtype; SSBC = *Schizachyrium scoparium* - *Bouteloua curtipendula* herbaceous association, WETL = wetland and aquatic vegetation, DAOF = disturbed areas and old-field vegetation), followed by life history (A=annual, B=biennial, P=perennial), and collection number. Exotic species are denoted with an asterisk. Voucher specimens were deposited at the Robert Bebb Herbarium at the University of Oklahoma (OKL).

PTERIDOPHYTA

Dryopteridaceae

Woodsia obtusa (Spreng.) Torr. (bluntlobe cliff fern) - QMSJV-M; P; H; AB-6788

Ophioglossaceae

Botrychium virginianum (L.) Sw. (Rattlesnake fern) - QMJV-M; P; H; AB-6766

Pteridaceae

Pellaea atropurpurea (L.) Link (purple cliffbreak) - QMJV-X; P; H; AB-6261

CONIFEROPHYTA

Cupressaceae

Juniperus virginiana L. (Eastern redcedar) - QMJV-X; P; T; AB-6206

Thuja occidentalis L.* (arborvitae) - DAOF; P; T; AB-6630

MAGNOLIOPHYTA

Magnoliopsdia

Acanthaceae

Ruellia humilis Nutt. (wild petunia)- QMJV-X, SSBC; P; H; Ab-6559

Aceraceae

Acer negundo L. (boxelder) - QMJV-M, WETL; P; T; AB-6209

Amaranthaceae

Amaranthus palmeri S. Wats. (Carlessweed) - DAOF; A; H; AB-6608

Iresine rhizomatosa Standl. (Juda's bush) - QSVJ-M; P; H; AB-6584

Anacardiaceae

Rhus aromatica Ait. (fragrant sumac)- QMJV-X; P; S; AB-6887

R. glabra L. (smooth sumac) - DAOF, QMJV-X; P; S; AB-6204

Toxicodendron radicans (L.) Kuntze (poison ivy) - QMJV-M; P; S; AB-6252

Apiaceae

Chaerophyllum tainturieri Hook. (hairyfruit chervil) - DAOF; A; H; AB-6922

Sanicula canadensis L. (blacksnakeroot) - QMJV-M; P; H; AB-6198

Spermolepis echinata (Nutt. ex DC.) Heller (bristly scaleseed) - SSBC; A; H; AB-6861

Torilis arvensis (Huds.) Link* (spreading hedgeparsley) - DAOF; A; H; AB-7148

Apocynaceae

Apocynum cannabinum L. (Indianhemp) - SSBC; P; H; AB-6791

Asclepiadaceae

Asclepias amplexicaulis Sm. (clasping milkweed) - WETL; P; H; AB-6806

A. stenophylla Gray (slimleaf milkweed) - SSBC; P; H; AB-6555

A. viridiflora Raf. (green comet milkweed) - SSBC; P; H; AB-7149

A. viridis Walt. (green antelopehorn) - DAOF, SSBC; P; H; AB-6821

Asteraceae

Achillea millefolium L. (common yarrow) - DAOF, SSBC; P; H; AB-6775

- Ambrosia psilostachya* DC. (Plains ragweed) -
DAOF, SSBC; P; H; AB-6551
- A. trifida* L. (giant ragweed) - DAOF; A; H;
AB-6233
- Amphichyris dracunculoides* (DC.) Nutt. (prairie
broomweed) - DAOF; A; H; AB-6254
- Aphanostephus skirrhobasis* (DC.) Trel.
(Arkansas dozedaisy) - SSBC; A; H; AB-
6800
- Artemisia ludoviciana* Nutt. (white sagebrush) -
SSBC; P; H; AB-6631
- Baccharis salicina* Torr. & Gray (false willow) -
WETL; P; S; AB-6548
- Bidens bipinnata* L. (Spanish needles) - DAOF,
QMJV-m; A; H; AB-6585
- Carduus nutans* L.* (nodding thistle) - DAOF;
B; H; AB-6801
- Chrysopsis pilosa* Nutt. (goldenaster) - SSBC; A;
H; AB-6889
- Cirsium altissimum* (L.) Hill (tall thistle) -
QMJV-M; P; H; AB-6599
- C. undulatum* (Nutt.) Spreng. (wavyleaf thistle)
- SSBC; P; H; AB-7166
- Coryza canadensis* (L.) Cronq. (Canadian
horseweed) - DAOF; A; H; AB-6894
- C. ramosissima* Cronq. (dwarf horseweed) -
DAOF; A; H; AB-6244
- Echinacea angustifolia* DC. (Blacksamson) -
SSBC; P; H; AB-6811
- Elephantopus carolinianus* Raesch. (Carolina
elephantsfoot) - QMJV-M; P; H; AB-
6629
- Engelmannia peristenia* (Raf.) Goodman &
Lawson (Engelmann's daisy) - SSBC; P;
H; AB-6787
- Erigeron strigosus* Muhl. ex Willd. (prairie
fleabane) - QMJV-M; A; H; AB-6552
- Eupatorium serotinum* Michx. (thoughtwort)-
QMJV-M, WETL; P; H; AB-6632
- Evax prolifera* Nutt. ex DC. (bighead
pygmycudweed) - DAOF; A; H; AB-6860
- E. verna* Raf. (spring pygmycudweed) -
DAOF; A; H; AB-6938
- Gaillardia aestivalis* (Walt.) H. Rock (lanceleaf
blanketflower) - SSBC; P; H; AB-6633
- G. suavis* (Gray & Engelm.) Britt. & Rusby
(perfumeballs) - DAOF, SSBC; P; H; AB-
6218
- Gamochaeta purpurea* (L.) Cabrera (purple
everlasting) - DAOF: P; H; AB-6769
- Grindelia papposa* Nesom & Sun (Spanish gold)
- SSBC; A; H; AB-6553
- Gutierrezia sarothrae* (Pursh) Britt. & Rusby
(broom snakeweed) - DAOF, SSBC; P; H;
AB-6588
- Helianthus annuus* L. (common sunflower) -
DAOF; A; H; AB-6219
- H. petiolaris* Nutt. (prairie sunflower) - SSBC;
A; H; AB-6590
- Heterotheca subaxillaris* (Lam.) Britt. & Rusby
(camphorweed) - SSBC; A; H; AB-6616
- Hieracium longipilum* Torr. (hairy hawkweed) -
QMJV-X; P; H; AB-6872
- Hymenopappus tenuifolius* Pursh (Chalk Hill
hymenopappus) - SSBC; P; H; AB-6592
- Iva annua* L. (annual marshelder) - WETL; A;
H; AB-6202
- Lactuca canadensis* L. (Canada lettuce) - DAOF;
A; H; AB-6900
- Liatris mucronata* DC. (cusp blazing star) -
SSBC; P; H; AB-6596
- L. squarrosa* (L.) Michx. (scaly blazing star) -
SSBC; P; H; AB-6595
- Machaeranthera pinnatifida* (Hook.) Shinnars
(Lacy tansyaster) - SSBC; P; H; AB-6278
- Oligoneuron rigidum* (L.) Small var. *rigidum* (stiff
goldenrod) - QMJV-M; P; H; AB-6598
- Palafoxia rosea* (Bush) Cory (rosy palafox) -
SSBC; A; H; AB-6549
- Pyrrhopappus grandiflorus* (Nutt.) Nutt. (tuberous
desert-chicory) - DAOF; P H; AB-6919
- Ratibida columnifera* (Nutt.) Woot. & Standl.
(upright prairie coneflower) - SSBC; P; H;
AB-6269
- Rudbeckia hirta* L. (blackeyed susan) - SSBC; P;
H; AB-6257

- Silphium laciniatum* L. (compassplant) - SSBC; P; H; AB-6223
Solidago missouriensis Nutt. (Missouri goldenrod) - SSBC; P; H; AB-6550
Sonchus asper (L.) Hill* (spiny sowthistle) - DAOF; A; H; AB-6852
Symphotrichum drummondii (Lindl.) Nesom var. *drummondii* (Drummond's aster) - QMJV-M; P; H; AB-6597
S. subulatum (Michx.) Nesom (annual saltmarsh aster) - WETL; A; H; AB-6273
Taraxacum officinale G. H. Weber ex Wiggers* (common dandelion) - DAOF; P; H; AB-7155
Thelesperma filifolium (Hook.) Gray var. *filifolium* (stiff greenthread) - SSBC; P; H; AB-6617
Tragopogon dubius Scop.* (yellow salsify) - DAOF; A; H; AB-6907
Verbesina alternifolia (L.) Britt. ex Kearney (wingstem) - QMJV-M; P; H; AB-6601
V. enceloides (Cav.) Benth. & Hook. f. ex Gray (golden crownbeard) - DAOF, SSBC; P; H; AB-6222
V. virginica L. (white crownbeard) - QMJV-M; P; H; AB-6255
Vernonia baldwinii Torr. (Baldwin's ironweed) - SSBC; P; H; AB-6600
Xanthium strumarium L. (rough cocklebur) - DAOF, WETL; A; H; AB-6225

Bignoniaceae

- Campsis radicans* (L.) Seem. ex Bureau (trumpet creeper) - DAOF; P; V; AB-7152
Catalpa bignonioides Walt. (southern catalpa) - DAOF; P; T; AB-6790
C. speciosa (Warder) Warder ex Engelm. (northern catalpa) - DAOF; P; T; AB-6611

Boraginaceae

- Hackelia virginiana* (L.) I. M. Johnston (beggarslice) - QMJV-M; P; H; AB-6201

- Lithospermum carolinense* (Walt. Ex J. F. Gmel.) MacM. (Carolina puccoon) - SSBC; P; H; AB-6916
L. incisum Lehm. (narrowleaf stoneseed) - DAOF, SSBC; P; H; AB-7168
Myosotis macrosperma Engelm. (largeseed forget-me-not) - QMJV-M; A; H; AB-6842

Brassicaceae

- Brassica rapa* L.* (field mustard) - DAOF; A; H; AB-6816a
Camelina microcarpa DC.* (littlepod false flax) - DAOF; A; H; AB-6823
Capsella bursa-pastoris (L.) Medik.* (shepherd's purse) - DAOF; A; H; AB-6924
Descurainia pinnata (Walt.) Britt. (western tansymustard) - DAOF; A; H; AB-6942
Draba brachycarpa Nutt. ex Torr. & Gray (shortpod draba) - DAOF; A; H; AB-6943
Lepidium virginicum L. (Virginia pepperweed) - DAOF; A; H; AB-6935
Lesquerella ovalifolia Rydb. ex Britt. subsp. *alba* (Goodman) Rollins & Shaw (roundleaf bladderpod) - SSBC; P; H; AB-6840

Cactaceae

- Escobaria missouriense* (Sweet) D. R. Hunt (spinystar) - SSBC; P; H; AB-6960
Opuntia macrorhiza Engelm. (twistspine pricklypear) - QMJV-X, SSBC; P; S; AB-6954

Campanulaceae

- Triodanis biflora* (Ruiz & Pavón) Greene (clasping Venus' looking-glass) - DAOF, SSBC; A; H; AB-6940

Caprifoliaceae

- Symphoricarpos orbiculatus* Moench (coralberry) - QMJV-X; P; S; AB-6236
Viburnum rufidulum Raf. (rusty blackhaw) - QMJV-X; P; S; AB-6226

Caryophyllaceae

- Arenaria serpyllifolia* L.* (thymeleaf sandwort) - DAOF; A; H; AB-6911

Cerastium pumilum W. Curtis* (European chickweed) - DAOF; A; H; AB-6948

Paronychia jamesii Torr. & Gray (James' nailwort) - SSBC; P; H; AB-6567

Stellaria media (L.) Vill.* (Common chickweed) - DAOF, QMJV-M;A; H; AB-6918

Celastraceae

Celastrus scandens L. (American bitterweet) - QMJV-M; P; S; AB-6634

Chenopodiaceae

Chenopodium murale L.* (nettleleaf goosefoot) - DAOF; A; H; AB-6565

C. pratericola Rydb. (desert goosefoot) - DAOF; A; H; AB-6606

C. simplex (Torr.) Raf. (mapleleaf goosefoot) - DAOF; A; H; AB-6566

Convolvulaceae

Ipomoea leptophylla Torr. (bush morning-glory) - SSBC; P; H; AB-6893

Cornaceae

Cornus drummondii C. A. Mey. (roughleaf dogwood) - DAOF, QMJV-X; P; T; AB-6871

Cucurbitaceae

Cucurbita foetidissima Kunth (Missouri gourd) - DAOF; P; H; AB-6883

Melothria pendula L. (Guadeloupe cucumber) - DAOF; P; H; AB-6253

Elaeagnaceae

Elaeagnus angustifolia L.* (Russian olive) - DAOF; P; T; AB-6558

Euphorbiaceae

Acalphya virginica L. (Virginia threeseed mercury) - DAOF; A; H; AB-6876

Argythamnia mercurialiana (Nutt.) Muell.-Arg. var. *mercurilaiana* (tall silverbush) - SSBC; P; H; AB-6815

Chamaesyce glyptosperma (Englem.) Small (ribseed sandmat) - SSBC; A; H; AB-6618

C. maculata (L.) Small (spotted sandmat) - DAOF; A; H; AB-6576

C. missurica (Raf.) Shinnery (prairie sandmat) - DAOF; A; H; AB-6897

C. nutans (Lag.) Small (eyebane) - DAOF; A; H; AB-6247

Croton glandulosus L. (Vente conmigo) - SSBC; A; H; AB-6258

C. lindbeimerianus Scheele (threeseed croton) - SSBC; A; H; AB-6615

C. monanthogynus Michx. (prairie tea) - DAOF, SSBC; A; H; AB-6614

C. texensis (Klotzsch) Muell.-Arg. (Texas croton) - SSBC; A; H; AB-6593

Euphorbia corollata L. (flowering spurge) - SSBC; P; H; AB-6260

E. cyathophora Murr. (fire-on-the-mountain) - DAOF; A; H; AB-6604

E. dentata Michx. (toothed spurge) - DAOF; A; H; AB-6241

E. hexagona Nutt. ex Spreng. (sixangle spurge) - DAOF; A; H; AB-6249

E. marginata Pursh (snow-on-the-mountain) - DAOF; A; H; AB-6216

E. spathulata Lam. (warty spurge) - DAOF; A; H; AB-6844

Stillingia sylvatica Garden ex L. (Queen's delight) - SSBC; P; H; AB-6767

Fabaceae

Amorpha canescens Pursh (leadplant) - WETL; P; S; AB-6772

A. fruticosa L. (desert false indigo) - SSBC; P; S; AB-6272

Amphicarpaea bracteata (L.) Fern. (American hogpeanut) - QMJV-X; A; H; AB-7158

Astragalus lotiflorus Hook. (lotus milkvetch) - QMJV-X; P; H; AB-6945

Baptisia australis (L.) R. Br. ex Ait. f. (blue wild indigo) - SSBC; P; H; AB-6773

Cercis canadensis L. (eastern redbud) - QMJV-M, QMJV-X; P; T; AB-6279

Dalea aurea Nutt. ex Pursh (golden prairie clover) - SSBC; P; H; AB-6268

D. enneandra Nutt. (nineanther prairie clover) - SSBC; P; H; AB-6229

D. multiflora (Nutt.) Shinnery (roundhead prairie clover) - SSBC; P; H; AB-6577
D. purpurea Vent. (purple prairie clover) - SSBC; P; H; AB-6881
Desmanthus illinoensis (Michx.) MacM. ex B. L. Robins. & Fern. (prairie bundleflower) - DAOF, WETL; P; H; AB-6230
Desmodium canescens (L.) DC. (hoary ticktrefoil) - QMJV-M; P; H; AB-6568
D. glutinosum (Muhl.) ex Willd. Wood (pointedleaf ticktrefoil) - QMJV-M; P; H; AB-7164
D. nudiflorum (L.) DC. (nakedflower ticktrefoil) - QMJV-M; P; H; AB-6896
D. sessilifolium (Torr.) Torr. & Gray (sessileleaf ticktrefoil) - SSBC; P; H; AB-6571
Gleditsia triacanthos L. (honeylocust) - DAOF; P; T; AB-7159
Gymnocladus dioica (L.) K. Koch (kentucky coffeetree) - QMJV-M; P; T; AB-7159
Indigofera miniata Ortega (coastal indigo) - SSBC; P; H; AB-6853
Kummerowia stipulacea (Maxim.) Makino* (Korean clover) - DAOF; A; H; AB-3232
Lespedeza cuneata (Dum.-Cours.) G. Don* (Chinese lespedeza) - DAOF; P; H; AB-6265
L. stuevei Nutt. (tall lespedeza) - QMJV-X; P; H; AB-6562
Medicago minima (L.) L.* (burr medick) - DAOF; A; H; AB-6846
Melilotus officinalis (L.) Lam.* (yellow sweetclover) - DAOF; A; H; AB-6792
Mimosa nuttallii (DC.) B. L. Turner (Nuttall's sensitive-briar) - SSBC; P; H; AB-6774
Neptunia lutea (Leavenw.) Benth. (yellow puff) - SSBC; P; H; AB-6959
Oxytropis lambertii Pursh (purple locoweed) - SSBC; P; H; AB-6822
Pisum sativum L.* (garden pea) - DAOF; A; H; AB-6816

Psoralidium tenuiflorum (Pursh) Rydb. (Slimflower scurfpea) - SSBC; P; H; AB-6828
Robinia pseudoacacia L.* (black locust) - DAOF, QMJV-X; P; T; AB-6899
Strophostyles helvula (L.) Ell. (trailing fuzzybean) - DAOF; P; H; AB-6573
Vicia villosa Roth* (winter vetch) - DAOF; A; H; AB-6817

Fagaceae

Quercus macrocarpa Michx. (bur oak) - QMJV-M; P; T; AB-6275
Q. marilandica Muenchh. (blackjack oak) - QMJV-X; P; T; AB-6771
Q. muehlenbergii Engelm. (chinkapin oak) - QMJV-M, QMJV-X; P; T; AB-6207

Geraniaceae

Erodium cicutarium (L.) L'Hér. Ex Ait.* (redstem stork's beak) - DAOF; A; H; AB-6913
Geranium carolinianum L. (Carolina geranium) - DAOF; A; H; AB-6786
G. pusillum L.* (small geranium) - DAOF; A; H; AB-6850

Juglandaceae

Juglans nigra L. (black walnut) - QMJV-M; P; T; AB-7147

Krameriaceae

Krameria lanceolata Torr. (trailing krameria) - SSBC; P; H; AB-6803

Lamiaceae

Hedeoma drummondii Benth. (Drummond's false pennyroyal) - SSBC; P; H; AB-6610
H. hispida Pursh (rough false pennyroyal) - SSBC; A; H; AB-6858
Lamium amplexicaule L.* (henbit) - DAOF; A; H; AB-6926
Salvia azurea Michx. ex Lam. (azure blue sage) - SSBC; P; H; AB-6271
S. lyrata L. (lyreleaf sage) - QMJV-M; P; H; AB-6886

Teucrium canadense L. (Canada germander) -
QMJV-M; P; H; AB-6215

Linaceae

Linum rigidum Pursh (stiffstem flax) - SSBC; A;
H; AB-6845

Loasaceae

Mentzelia oligosperma Nutt. ex Sims
(chickenthiel) - SSBC; P; H; AB-6221

Malvaceae

Callirhoe involucrata (Torr. & Gray) Gray
(purple poppymallow) - DAOF; P; H;
AB-6799

Menispermaceae

Cocculus carolinus (L.) DC. (Carolina coralbead)
- QMJV-M; P; H; AB-6199

Menispermum canadense L. (common moonseed)
- QMJV-M; P; H; AB-6797

Molluginaceae

Mollugo verticillata L. (carpetweed) - DAOF; A;
H; AB-6888

Moraceae

Maclura pomifera (Raf.) Schneid. (Osage orange)
- DAOF, QMJV-X; P; T; AB-6195

Morus rubra L. (red mulberry) - QMJV-M; P;
T; AB-6620

Nyctaginaceae

Mirabilis albida (Walt.) Heimerl (white four
o'clock) - SSBC; P; H; AB-6578

M. nyctaginea (Michx.) MacM. (heartleaf four
o'clock) - DAOF; P; H; AB-6833

Oleaceae

Fraxinus pennsylvanica Marsh. (green ash) -
QMJV-M; P; T; AB-6560

Onagraceae

Calylophus berlandieri Spach (Berlandier's
sundrops) - SSBC; P; H; AB-6825

Gaura sinuata Nutt. ex Ser. (wavyleaf
beeblossom) - SSBC; P; H; AB-6827

Oenothera biennis L. (common evening-
primrose) - DAOF; P; H; AB-6213

O. laciniata Hill (cutleaf evening-primrose) -
DAOF; P; H; AB-6785

O. macrocarpa Nutt. (bigfruit evening-primrose)
- SSBC; P; H; AB-6781

O. speciosa Nutt. (pinkladies) - SSBC; P; H;
AB-6851

Stenosiphon linifolius (Nutt. ex James) Heynh.
(false gaura) - SSBC; P; H; AB-6234

Oxalidaceae

Oxalis stricta L. (common yellow oxalis) -
DAOF, SSBC; P; H; AB-6923

Papaveraceae

Argemone polyanthemis (Fedde) G. B. Ownbey
(crested pricklypoppy) - SSBC; A; H; AB-
6793

Passifloraceae

Passiflora lutea L. (yellow passionflower) -
QMJV-M; P; H; AB-6264

Phytolaccaceae

Phytolacca americana L. (American pokeweed) -
DAOF; P; H; AB

Plantaginaceae

Plantago heterophylla Nutt. (slender plantain) -
SSBC; A; H; AB-6937

P. patagonica Jacq. (wooly plantain) - SSBC; A;
H; AB-6859

P. rhodosperma Dcne. (redseed plantain) -
SSBC; A; H; AB-6837

Polygalaceae

Polygala alba Nutt. (white milkwort) - SSBC; P;
H; AB-6224

Polygonaceae

Eriogonum annuum Nutt. (annual buckwheat) -
SSBC; A; H; AB-6256

E. longifolium Nutt. (longleaf buckwheat) -
SSBC; P; H; AB-6262

Polygonum aviculare L. (prostrate knotweed) -
DAOF; A; H; AB-6609

P. lapathifolium L. (curlytop knotweed) -
WETL; A; H; AB-6895

- P. punctatum* Ell. (dotted smartweed) - WETL;
A; H; AB-6563
P. scandens L. (climbing false buckwheat) -
QMJV-M; P; H; AB-6605
P. virginianum L. (jumpseed) - QMJV-M; P; H;
AB-6214
Rumex crispus L.* (curly dock) - DAOF,
WETL; P; H; AB-6780

Portulacaceae

- Portulaca pilosa* L. (kiss me quick) - DAOF; A;
H; AB-6304

Ranunculaceae

- Clematis pitcheri* Torr. & Gray (bluebill) -
QMJV-M; P; H; AB-6819
Delphinium carolinianum Walt. subsp. *virescens*
(Nutt.) Brooks (Carolina larkspur) - SSBC;
P; H; AB-6802

Rosaceae

- Geum canadense* Jacq. (white avens) - QMJV-
M; P; H; AB-6809
Prunus angustifolia Marsh. (Chickasaw plum) -
DAOF, SSBC; P; S; AB-6277
P. mexicana S. Wats. (Mexican plum) - QMJV-
X; P; T; AB-6557

Rubiaceae

- Cephalanthus occidentalis* L. (buttonbush) -
WETL; P; S; AB-6228
Galium aparine L. (stickywilly) - QMJV-M; A;
H; AB-6765
G. circaezans Michx. (licorice bedstraw) -
QMJV-M; P; H; AB-6810
G. virgatum Nutt. (southwestern bedstraw) -
DAOF; A; H; AB-6856
Hedyotis nigricans (Lam.) Fosberg
(diamondflowers) - SSBC; P; H; AB-6240
Houstonia pusilla Schoepf (tiny bluet) - DAOF;
A; H; AB-6912
Sherardia arvensis L.* (blue fieldmadder) -
DAOF; A; H; AB-6843

Rutaceae

- Ptelea trifoliata* L. (common hoptree) - SSBC; P;
T; AB-6770
Zanthoxylum hirsutum Buckl. (Texas Hercules'
club) - QMJV-M; P; T; AB-6820

Salicaceae

- Populus deltoides* Bartr. ex Marsh. (eastern
cottonwood) - WETL; P; T; AB-6200
Salix exigua Nutt. (sandbar willow) - WETL;
P; T; AB-6561
S. nigra Marsh. (black willow) - WETL; P; T;
AB-6267

Santalaceae

- Comandra umbellata* (L.) Nutt. subsp. *pallida* (A.
DC.) Piehl (pale bastard toadflax) - SSBC;
P; H; AB-6866

Sapindaceae

- Sapindus drummondii* Hook. & Arn. (soapberry)
- QMJV-M; P; T; AB-6280

Sapotaceae

- Sideroxylon lanuginosum* Michx. (gum bully) -
QMJV-X; P; T; AB-6890

Scrophulariaceae

- Agalinis densiflora* (Benth.) Blake (Osage false
foxglove) - SSBC; A; H; AB-6570
A. heterophylla (Nutt.) Small ex Britt. (prairie
false foxglove) - SSBC; A; H; AB-6569
Castilleja indivisa Engelm. (Indian paintbrush) -
SSBC; A; H; AB-6259
Nuttallanthus texanus (Scheele) D. A. Sutton
(Texas toadflax) - DAOF, SSBC; A; H;
AB-684
Penstemon cobaea Nutt. (cobaea beardtongue) -
SSBC; P; H; AB-6783
Veronica arvensis L.* (corn speedwell) - DAOF;
A; H; AB-6941
V. peregrina L. (neckweed) - DAOF; A; H; AB-
6857

Solanaceae

- Physalis cinerascens* (Dunal) A. S. Hitchc.
(smallflower groundcherry) - DAOFF; P;
H; AB-6814
- P. heterophylla* Nees (clammy groundcherry) -
DAOFF; P; H; AB-6835
- P. longifolia* Nutt. (longleaf groundcherry) -
DAOFF; P; H; AB-6589
- Solanum dimidiatum* Raf. (western horsenettle) -
DAOFF; A; H; AB-6831
- S. elaeagnifolium* Cav. (silverleaf nightshade) -
DAOFF; P; H; AB-6197

Ulmaceae

- Celtis laevigata* Willd. var. *reticulata* (Torr.) L.
Benson (netleaf hackberry) - QMJV-X,
SSBC; P; T; AB-6591
- C. laevigata* Willd. var. *texana* Sarg. (Texan
sugarberry) - QMJV-M; P; T; AB-6838
- Ulmus americana* L. (American elm) - QMJV-
M; P; T; AB-6266
- U. parvifolia* Jacq.* (Chinese elm) - DAOFF; P;
T; AB-7153
- U. pumila* L.* (Siberian elm) - DAOFF; P; T;
AB-6789
- U. rubra* Muhl. (slippery elm) - DAOFF; P; T;
AB-6208

Valerianaceae

- Valerianella radiata* (L.) Dufr. (beaked
cornsalad) - WETL; A; H; AB-6863

Verbenaceae

- Phryma leptostachya* L. (American lopseed) -
QMJV-M; P; H; AB-6898
- Phyla nodiflora* (L.) Greene (turkey tangle
fogfruit) - QMJV-M; P; H; AB-6812
- Verbena bracteata* Lag. & Rodr. (bigbract
verbena) - DAOFF, SSBC; A; H; AB-6865
- V. urtricifolia* L. (white vervain) - WETL; A; H;
AB-6217

Violaceae

- Viola bicolor* Pursh (johnny jump-up) - DAOFF;
A; H; AB-6915

Viscaceae

- Phoradendron tomentosum* (DC.) Engelm. ex
Gray (Christmas mistletoe) - QMJV-M,
QMJV-X; P; S; AB-6839

Vitaceae

- Ampelopsis cordata* Michx. (heartleaf
peppervine) - WETL; P; V; AB-6196
- Parthenocissus quinquefolia* (L.) Planch. (Virginia
creeper) - QMJV-M; P; V; AB-6276
- Vitis acerifolia* Raf. (mapleleaf grape) - WETL;
P; V; AB-6582
- V. aestivalis* Michx. (summer grape) - QMJV-
M; P; V; AB-6817a
- V. cinerea* (Engelm.) Millard var. *cinerea*
(graybark grape) - QMJV-M; P; V; AB-
6930
- V. vulpina* L. (frost grape) - QMJV-M; P; V;
AB-6818

Liliopsida**Agavaceae**

- Yucca glauca* Nutt. (soapweed) - SSBC; P; T;
AB-6796

Araceae

- Arisaema dracontium* (L.) Schott (green dragon)
- QMJV-M; P; H; AB-6782

Commelinaceae

- Commelina erecta* L. var. *angustifolia* (Michx.)
Fern. (whitemouth dayflower) - QMJV-
M; P; H; AB-6575
- Tradescantia occidentalis* (Britt.) Smyth (prairie
spiderwort) - SSBC; P; H; AB-6829

Cyperaceae

- Carex albicans* Willd. ex Spreng. (whitetinge
sedge) - QMJV-X; P; G; AB-6952
- C. blanda* Dewey (eastern woodland sedge) -
QMJV-M; P; G; AB-6950
- C. brevior* (Dewey) Mackenzie (shortbeak
sedge) - QMJV-M; P; G; AB-6951
- C. leavenworthii* Dewey (Leavenworth's sedge) -
QMJV-M; P; G; AB-6870

- C. oligocarpa* Schkuhr ex Willd. (richwoods sedge) - QSVJ-M; P; G; AB-6869
Cyperus acuminatus Torr. & Hook. ex Torr. (tapertip flatsedge) - DAOF, SSBC; P; G; AB-6868
C. lupulinus (Spreng.) Marcks (Great Plains flagsedge) - DAOF, SSBC; P; G; AB-7165
C. schweinitzii Torr. (Schweinitz's flatsedge) - SSBC; P; G; AB-6579
Fimbristylis puberula (Michx.) Vahl (hairy fimbry) - SSBC; P; G; AB-6949

Iridaceae

- Sisyrinchium angustifolium* P. Mill. (narrowleaf blue-eyed grass) - DAOF; P; H; AB-6864

Juncaceae

- Juncus bufonius* L. (toad rush) - WETL; A; G; AB-6867
J. tenuis Willd. (poverty rush) - QMJV-M; P; G; AB-7157

Liliaceae

- Allium canadense* L. var. *fraseri* Ownbey (fraser meadow garlic) - SSBC; P; H; AB-6807
Polygonatum biflorum (Walt.) Ell. (smooth Solomon's seal) - QMJV-M; P; H; AB-6794

Orchidaceae

- Spiranthes lacera* (Raf.) Raf. (northern slender ladies'-tresses) - SSBC; P; H; AB-6581

Poaceae

- Agrostis hyemalis* (Walt.) B. S. P. (winter bentgrass) - WETL; P; G; AB-6936
Andropogon gerardii Vitman (big bluestem) - SSBC; P; G; AB-6892
Aristida longespica Poir. var. *geniculata* (Raf.) Fern. (slimspike threeawn) - DAOF; A; G; AB-6594
A. oligantha Michx. (prairie threeawn) - DAOF, SSBC; A; G; AB-6622
Bothriochloa laguroides (DC.) Herter (silver beardgrass) - DAOF; P; G; AB-7163
Bouteloua curtipendula (Michx.) Torr. (sideoats grama) - SSBC; P; G; AB-6884

- B. hirsuta* Lag. (hairy grama) - SSBC; P; G; AB-6245
Bromus catharticus Vahl* (rescuegrass) - DAOF; A; G; AB-6910
B. japonicus Thumb. ex Murr.* (Japanese brome) - DAOF; A; G; AB-6826
B. pubescens Muhl. ex Willd. (hairy woodland brome) - QMJV-M; P; G; AB-6778
B. tectorum L.* (cheatgrass) - DAOF; A; G; AB-6920
Cenchrus spinifex Cav. (coastal sandbur) - DAOF; A; G; AB-6612
Chasmanthium latifolium (Michx.) Yates (Indian woodoats) - QMJV-M; P; G; AB-6235
Chloris verticillata Nutt. (tumble windmill grass) - DAOF; P; G; AB-6231
Cynodon dactylon (L.) Pers.* (bermudagrass) - DAOF; P; G; AB-6891
Dactylis glomerata L.* (orchardgrass) - DAOF; P; G; AB-6798
Dichantheium aciculare (Desv. ex Poir.) Gould & C. A. Clark (needleleaf rosette grass) - QMJV-M; P; G; AB-6586
D. malacophyllum (Nash) Gould (softleaf rosette grass) - QMJV-M; P; G; AB-6836
D. oligoanthes (J. A. Schultes) Gould var. *scribnerianum* (Nash) Gould (Scribner's rosette grass) - SSBC; P; G; AB-6946
Digitaria cognata (J. A. Schultes) Pilger (Carolina crabgrass) - DAOF; WETL; P; G; AB-6626
Echinochloa muricata (Beauv.) Fern.* (rough barnyardgrass) - WETL; A; G; AB-6587
Elymus canadensis L. (Canada wildrye) - QMJV-M; P; G; AB-7162
Eragrostis curtispedicellata Buckl. (gummy lovegrass) - SSBC; P; G; AB-6879
E. intermedia A. S. Hitchc. (plains lovegrass) - SSBC; P; G; AB-6944
E. secundiflora J. Presl. subsp. *oxylepis* (Torr.) S. D. Koch (red lovegrass) - DAOF; P; G; AB-6613
E. sessilis Poir. (tumble lovegrass) - SSBC; P; G; AB-6878

- E. spectabilis* (Pursh) Steud. (purple lovegrass) - SSBC; P; G; AB-6904
- E. trichodes* (Nutt.) Wood (sand lovegrass) - SSBC; P; G; AB-6602
- Hordeum pusillum* Nutt. (little barley) - DAOFF; A; G; AB-6779
- Leersia virginica* Willd. (whitegrass) - QMJV-M; P; G; AB-6628
- Lolium perenne* L.* (perennial ryegrass) - DAOFF; P; G; AB-6824
- Muhlenbergia bushii* Pohl (nodding muhly) - QMJV-M; P; G; AB-6624
- M. sylvatica* Torr. ex Gray (woodland muhly) - QMJV-M; P; G; AB-6603
- Panicum anceps* Michx. (beaked panicgrass) - QMJV-M; P; G; AB-6227
- P. capillare* L. (witchgrass) - DAOFF; A; G; AB-6903
- P. virgatum* L. (switchgrass) - DAOFF, WETL; P; G; AB-6270
- Paspalum dilatatum* Poir.* (Dallisgrass) - SSBC; P; G; AB-7150
- P. setaceum* Michx. (thin paspalum) - WETL; P; G; AB-6621
- Phalaris caroliniana* Walt. (Carolina canarygrass) - WETL; A; G; AB-6925
- Phragmites australis* (Cav.) Trin. Ex Steud.* (common reed) - WETL; P; G; AB-7160
- Poa annua* L.* (annual bluegrass) - DAOFF; A; G; AB-6928
- P. arachnifera* Torr. (Texas bluegrass) - SSBC; P; G; AB-6909
- P. chapmaniana* Scribn. (Chapman's bluegrass) - SSBC; A; G; AB-6808
- Saccharum giganteum* (Walt.) Pers. (sugarcane plumegrass) - WETL; P; G; AB-6953
- Schedonnardus paniculatus* (Nutt.) Trel. (tumblegrass) - DAOFF, SSBC; P; G; AB-6882
- Schedonorus phoenix* (Scop.) Holub.* (tall fescue) - DAOFF; P; G; AB-6813
- Schizachyrium scoparium* (Michx.) Nash (little bluestem) - QMJV-X, SSBC; P; G; AB-6251
- Setaria pumila* (Poir.) Roemer & J.A. Schultes (yellow foxtail) - DAOFF; A; G; AB-6583
- S. viridis* (L.) Beauv.* (green bristlegrass) - DAOFF; A; G; AB-6873
- Sorghastrum nutans* (L.) Nash (Indiangrass) - SSBC; P; G; AB-6248
- Sorghum halepense* (L.) Pers.* (Johnsongrass) - DAOFF; P; G; AB-7151
- Spartina pectinata* Bosc ex Link (prairie cordgrass) - WETL; P; G; AB-6203
- Sporobolus cryptandrus* (Torr.) Gray (sand dropseed) - DAOFF, SSBC; P; G; AB-6627
- S. vaginiflorus* (Torr. ex Gray) Wood var. *ozarkanus* (Fern.) Shinnery (Ozark dropseed) - SSBC; P; G; AB-6625
- Tridens flavus* (L.) A. S. Hitchc. (purpletop tridens) - DAOFF, QMJV-X; P; G; AB-6242
- Vulpia eliotea* (Raf.) Fern. (squirreltail fescue) - DAOFF; A; G; AB-6935a
- Smilacaceae**
- Smilax bona-nox* L. (saw greenbriar) - QMJV-M, QMJV-X; P; H; AB-6211
- S. rotundifolia* L. (roundleaf greenbriar) - QMJV-M, QMJV-X; P; H; AB-7154
- S. tammoides* L. (bristly greenbriar) - QMJV-M; P; H; AB-6556
- Typhaceae**
- Typha domingensis* Pers. (Southern cattail) - WETL; P; H; AB-6875