

## **Additions to the Flora of Garvin County, Oklahoma: Including a Complete Vascular Plant Checklist**

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**A species list created from the Oklahoma Vascular Plants Database (OVPD) indicated that Garvin County, Oklahoma had been neglected by botanists. Our objective was to collect all vascular plant species encountered during three growing seasons to increase our botanical knowledge of the county. A total of 387 species were collected; 174 of these species had not been previously recorded for Garvin County in the OVPD. As a result, 14 families and 62 genera were added to the known flora of Garvin County. The majority of the species collected during this survey are assigned to five families of flowering plants: Poaceae (70 species), Asteraceae (63), Fabaceae (39), Cyperaceae (17), and Euphorbiaceae (16). Forty eight species (representing 13% of the taxa collected during this study) were not native to the United States; the families Poaceae and Fabaceae (with 18 and 10 species, respectively) exhibited the greatest number of introduced species collected in this survey. Five taxa on the Oklahoma Natural Heritage Inventory working list of rare Oklahoma plants were encountered. This collection effort increased the total number of vascular plant species recorded in the Oklahoma Vascular Plants Database for Garvin County to 628 species.**

### **INTRODUCTION**

During the last few decades there has been a decline in the number of plant specimens deposited in herbaria across the U.S. (Prather et al. 2004). This trend in plant collecting has been evident in Oklahoma as well (Hoagland et al. 2004). Certain areas, such as Black Mesa, Wichita Mountains, Arbuckle Mountains, LeFlore and McCurtain Counties, and the counties housing universities are well represented in the floristic collections of the state. Inconveniently located and less glamorous regions of Oklahoma have been ignored by the majority of botanists depositing plants in the state's herbaria, creating gaps in the known geographic distribution of taxa within the state. The objective of our research was to fill an apparent gap in floristic data for south-central Oklahoma. G. W. Stevens made the first collections in Garvin County in 1913, and episodes of plant collecting in Garvin County

have occurred in each decade since the 1960s (Figure 1). However, no single effort was made to collect all of the species found in a variety of habitats in Garvin County. Prior to our collection effort only 456 species were documented in the Oklahoma Vascular Plants Database (OVPD) for Garvin County, Oklahoma, compared to over 900 species recorded for neighboring McClain County (Hoagland et al. 2004). We believed that the relatively short OVPD species list for Garvin County was most likely due to a deficiency of plant collecting, rather than a lack of floristic diversity in the county.

### **STUDY AREA**

The study area consisted of a privately owned farm and cattle ranch which covers 906.5 hectares (2240 acres) in the western portion of Garvin County, approximately 14.5 km (9 mi) south of Lindsay, Oklahoma (Fig. 2). Latitudinal extent ranges from 34.72°N to

34.68°N and longitudinal extent from 97.56°W to 97.52°W. The elevation ranges from 295-365 m (975-1195 ft). Rush Creek, which was straightened in this area in the early 1900s, transects the northernmost portion of the study site, which has been continuously managed for livestock and crop production since 1904. The study site is in the Prairie Parkland Province of the Central Great Plains (Bailey 1995), although approximately 150 hectares (371 acres) has been cleared for cropland or “improved” pasture.

Physiographically, the study site is located in the Central Redbed Plains. The soils that dominate the site are loamy alluvium in the floodplain, loamy in the bottomland forest, and loamy clay soils in the upland (Kichler et al. 1982). The parent material is of Permian age and is dominated by shallow-marine, deltaic, and alluvial deposits of red sandstone and shale (Johnson et al. 1972). The study area is located within the Subtropical Humid (cf) climatic zone (Trewartha 1968). Mean annual precipitation is 93.5 cm (36.8 in) with May, June, September, and October being the wettest months (21.6, 10.7, 10.2, and 9.7 cm respectively). The mean annual temperature is 15.8°C (60.4°F); July and August are the hottest months, with average temperatures above 26.7°C (80°F). Temperatures exceed 32°C (90° F) approximately 70 days each year (Oklahoma Climatological Survey 2005).

## METHODS

We conducted our survey during the growing seasons of 2001, 2003, and 2004. Although collections were made throughout the study site, areas for collection focus were selected with field reconnaissance and we returned to those specific areas at regular intervals during the growing season. A few collections were also made randomly throughout the county. The habitat type in which each plant was found was recorded, as was its relative abundance within the study site [see Palmer et al. (1995) for a detailed description of the abundance scale].

Specimens were identified using the following manuals: Waterfall (1969), Great Plains Flora Association (1986), Diggs et al. (1999), and Tyrl et al. (2002). Specimens from the Robert Bebb Herbarium at the University of Oklahoma (OKL) were consulted to confirm the identification of some collections. Nomenclature follows the National PLANTS Database (USDA, NRCS 2004). Voucher specimens for all species and, in certain cases, subspecific specimens were collected and deposited in the Robert Bebb Herbarium. Species were identified as native (originating in North America), introduced (originating outside of North America), or cultivated (species generally found only in cultivation; USDA, NRCS 2004). All non-native and agricultural species were collected from populations that had naturalized or were escaped from cultivation. Rarity status was determined using the Oklahoma Natural Heritage Inventory’s list of rare plants of Oklahoma (Oklahoma Natural Heritage Inventory 2003). We compared our species list with the plant collection records for Garvin County found in the OVPD (Hoagland et al. 2004).

## RESULTS and DISCUSSION

We collected 471 specimens representing 387 species of vascular plants; 174 of these species were not previously recorded in the OVPD for Garvin County (Appendix I). As a result, 14 families and 62 genera were added to the known flora of Garvin County. The greatest number of species collected during this study are assigned to the Poaceae (70 species), Asteraceae (63), Fabaceae (39), Cyperaceae (17), and Euphorbiaceae (16); these five families represented over 53% of the taxa collected at the study site. The remaining 83 families were each represented by 10 or fewer species. We combined our data with the floristic data found in the OVPD to produce a species list for Garvin County. There have been 628 species collected in Garvin County

since 1913 (Table 1). The Asteraceae (98), Poaceae (89), and Fabaceae (63) are the three families with the largest number of species collected. These three families represent 40% of the species known to occur in the county.

We encountered no federally listed threatened or endangered species. However, we found several species tracked by the Oklahoma Natural Heritage Inventory: *Eriogonum alatum* (G5 S2S3); *Muhlenbergia bushii* (G5 S1S2); *Quercus sinuata* var. *breviloba* (G5GT S?); *Quercus stellata* (G5 S?); and *Rhynchospora nivea* (G4 S2). Species are ranked according to their imperilment at both the global (G) and state (S) levels; on the 5-1 scale, 5 indicates a species is secure and 1 indicates it is imperiled (Oklahoma Natural Heritage Inventory 2003).

Because older botanical work generally ignores introduced or “weedy” plants, we expected our collection to have a significantly higher proportion of these species than those of previous collectors. Prior to our study, only 46 species of introduced plants were represented in the OVPD for Garvin County, comprising 10% of the taxa known to occur there. Our collection included 48 introduced species (including 26 species not previously recorded in the OVPD for Garvin County), representing 13% of the taxa collected during this study. Poaceae (18) and Fabaceae (10) were the families with the greatest number of introduced species.

We defined eight general habitat types found within the study area. Habitat type was recorded for each species (Appendix I). A brief description of each habitat type follows.

### Bottomland Forest (BF)

Bottomland forest occurred in the floodplain of Rush Creek and along its principal tributaries. Hardwood trees such as *Carya illinoensis*, *Celtis laevigata*, *Fraxinus pennsylvanica*, *Quercus macrocarpa*, *Q. muehlenbergii*, *Q. velutina*, and *Ulmus americana* dominated the canopy. The shrub layer consisted of many woody vines, including *Passiflora* spp., *Parthenocissus quinquefolia*, *Smilax* spp. and *Vitis*

spp. *Viola affinis*, *Chasmanthium latifolium*, and *Elymus canadensis* were often found in the herbaceous layer of the bottomland forest.

### Upland Forest (UF)

Upland forests differed from the bottomland forest by having a more open canopy and inhabiting coarser soils with less available moisture. Tree species dominating this forest were: *Gleditsia triacanthos*, *Quercus marilandica*, *Q. stellata*, and *Sideroxylon lanuginosum*. Common small trees and shrubs were: *Cercis canadensis*, *Cocculus carolinus*, *Maclura pomifera*, *Morus rubra*, *Prunus mexicana*, *Sapindus saponaria* var. *drummondii*, *Symphoricarpos orbiculatus*, and *Viburnum rufidulum*.

### Native Pasture (NP)

Native Pasture occurred in upland areas that were originally open grasslands or areas of Cross Timbers that had been cleared of much of the woody vegetation. Native grasses dominated this habitat type: *Andropogon gerardii*, *Bouteloua* spp., *Eragrostis* spp., *Schizachyrium scoparium*, and *Sorghastrum nutans*. Common forb species of the native pasture were *Ambrosia psilostachya*, *Amphibachyris dracunculoides*, *Desmanthus illinoensis*, and *Tetranneuris linearifolia*. Some native prairie plants found were *Asclepias tuberosa*, *Dalea enneandra*, *Gaillardia aestivalis*, *Liatris squarrosa*, *Ratibida columnifera*, and *Sabatia campestris*. Small patches of the woody shrubs *Prunus gracilis* and *Rhus glabra* could be found within the native pasture, as well as two species of cacti (*Escobaria missouriensis* and *Opuntia macrorhiza*). Outcroppings of native sandstone hosting a different suite of species occurred within this habitat; many of these species (including *Ceanothus americanus*, *Eriogonum alatum*, *Euphorbia longicuris*, *Oenothera macrocarpa* ssp. *oklahomensis*, and *Pellaea atropurpurea*) were only observed in association with these rock outcrops (RO).

### Cultivated Pasture (CP)

Cultivated pasture was typically found in areas previously inhabited by bottomland forest. These areas were cleared of woody

vegetation and planted in row crops in the late 1800s and early 1900s, and were planted with a monoculture of *Cynodon dactylon* (Bermuda grass) in the mid-1900s. Many “weedy” and introduced plants could be found within this habitat type. Other grasses encountered included *Bromus* spp., *Cenchrus spinifex*, and *Setaria viridis*. Typical forbs found in the cultivated pasture were *Capsella bursa-pastoris*, *Galium aparine*, *Geranium carolinianum*, and *Lamium amplexicaule*.

### Disturbed (D)

Disturbed areas occurred throughout the study site and included roadsides, edges of cultivated fields, mowed lawns, areas experiencing heavy cattle usage (near feeding areas, stock tanks, or shade trees) and other areas exhibiting signs of physical disturbance. Disturbed areas share many species with the cultivated pasture habitat. Common forb species encountered were *Ambrosia trifida*, *Cirsium undulatum*, *Conyza canadensis*, *Cucurbita foetidissima*, *Grindelia papposa*, and *Solanum elaeagnifolium*. *Aegilops cylindrica*, *Eragrostis cilianensis*, *Poa annua*, and *Sorghum halepense* were grasses typical of disturbed areas, as were the escaped cultivated plants *Secale cereale* and *Triticum aestivum*.

### Riparian (R)

The riparian zone was found along Rush Creek and its principal tributaries. *Acer negundo*, *Celtis laevigata*, *Salix nigra*, and *Ulmus americana* were the most abundant arborescent species in the riparian zone; *Tamarix chinensis* and *Salix exigua* were common along Rush Creek. Fruticose and herbaceous species abundant in the riparian zone included *Amorpha fruticosa*, *Cephalanthus occidentalis*, *Erigeron philadelphicus*, *Eupatorium serotinum*, *Symphotrichum oolentangiense*, and *Teucrium canadense*.

### Seeps (S)

Seeps occur sporadically within the native pasture, in areas where sloping rock strata carrying ground water from higher elevations intersect the soil surface. The flora

of these seeps was conspicuously different from that of other wetland areas within the study site and that of the surrounding pastureland. This flora was dominated by graminoids, including several genera of sedges and rushes (*Cyperus*, *Eleocharis*, *Fuirena*, *Juncus*, *Rhynchospora*, *Schoenoplectus*, and *Scirpus*). A few grass species also occurred in this habitat (*Andropogon glomeratus*, *Panicum anceps*, and *P. virgatum*), as did several dicotyledonous forbs (*Lobelia siphilitica*, *Marshallia caespitosa*, and *Valerianella amarella*).

### Wetland and Aquatic (WA)

Wetland and aquatic habitats were formed in and around farm ponds, beaver ponds on small drainages, springs, and in small depressions in native and cultivated pastures. Farm ponds and small depressions in pastures were typically bordered by a narrow fringe of herbaceous species common to frequently-flooded and disturbed habitats, and were subject to frequent trampling by cattle. The flora of these areas included *Alopecurus carolinianus*, *Ammannia coccinea*, *Echinochloa crus-galli*, *Eclipta prostrata*, *Leucospora multifida*, *Mollugo verticillata*, *Phyla lanceolata*, and *Symphotrichum subulatum*. The few springs within the study site and several small impoundments created by beavers (*Castor canadensis*) on unnamed tributaries of Rush Creek were relatively undisturbed; these areas were flanked by woody vegetation similar to that of the above-described riparian zone. The beaver ponds were bordered by a narrow fringe of herbaceous vegetation, including *Bidens frondosa*, *Equisetum hyemale*, *E. laevigatum*, *Leersia oryzoides*, *L. virginica*, *Leptochloa fusca*, *Polygonum* spp., and *Ranunculus sceleratus*. The springs were vegetated with the aquatic plants *Potamogeton nodosus*, *Rorippa nasturtium-aquaticum*, and *Samolus valerandi*.

### ACKNOWLEDGMENTS

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Table 1 Summary of Garvin County floristic collections since 1913

Taxonomic Group	Families	Genera	Native Spp.	Exotic Spp.	Total Spp.
Filicopsida	4	5	6	0	6
Equisteopsida	1	1	3	0	3
Pinopsida	1	1	1	0	1
Magnoliopsida	79	273	413	41	454
Liliopsida	16	73	143	21	164
<b>TOTALS</b>	<b>101</b>	<b>353</b>	<b>566</b>	<b>62</b>	<b>628</b>

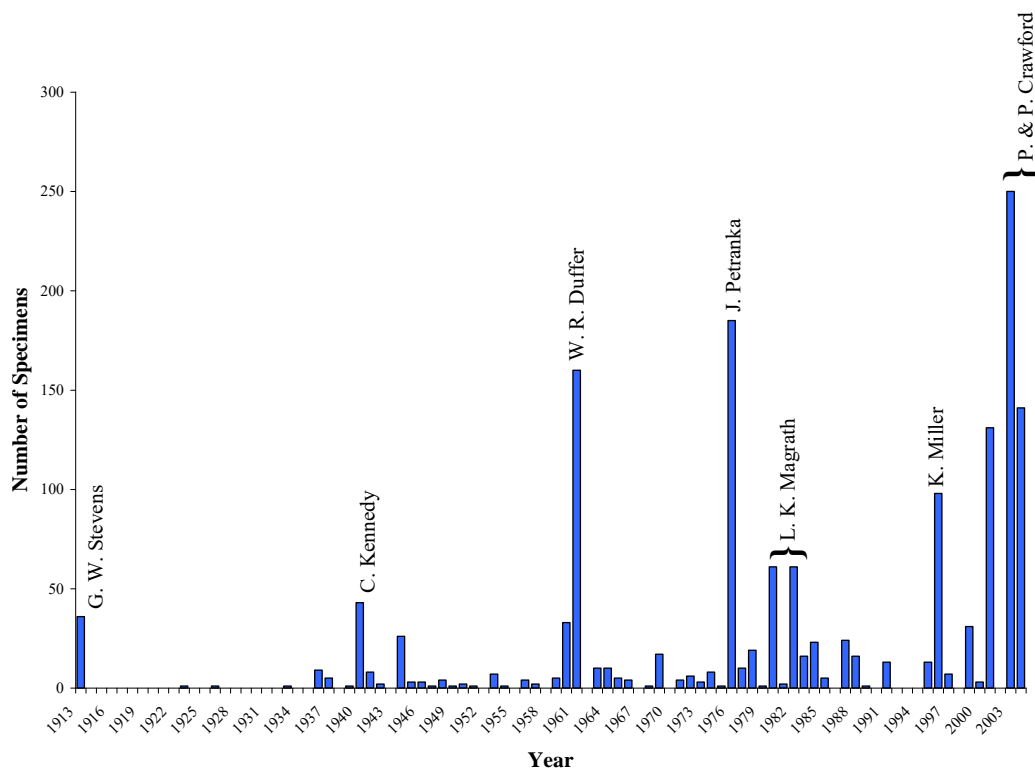


Figure 1 Number of specimens collected per year in Garvin County as represented in the Oklahoma Vascular Plants Database (Hoagland et al. 2004). Collectors responsible for the majority of the collections are listed above the bars.

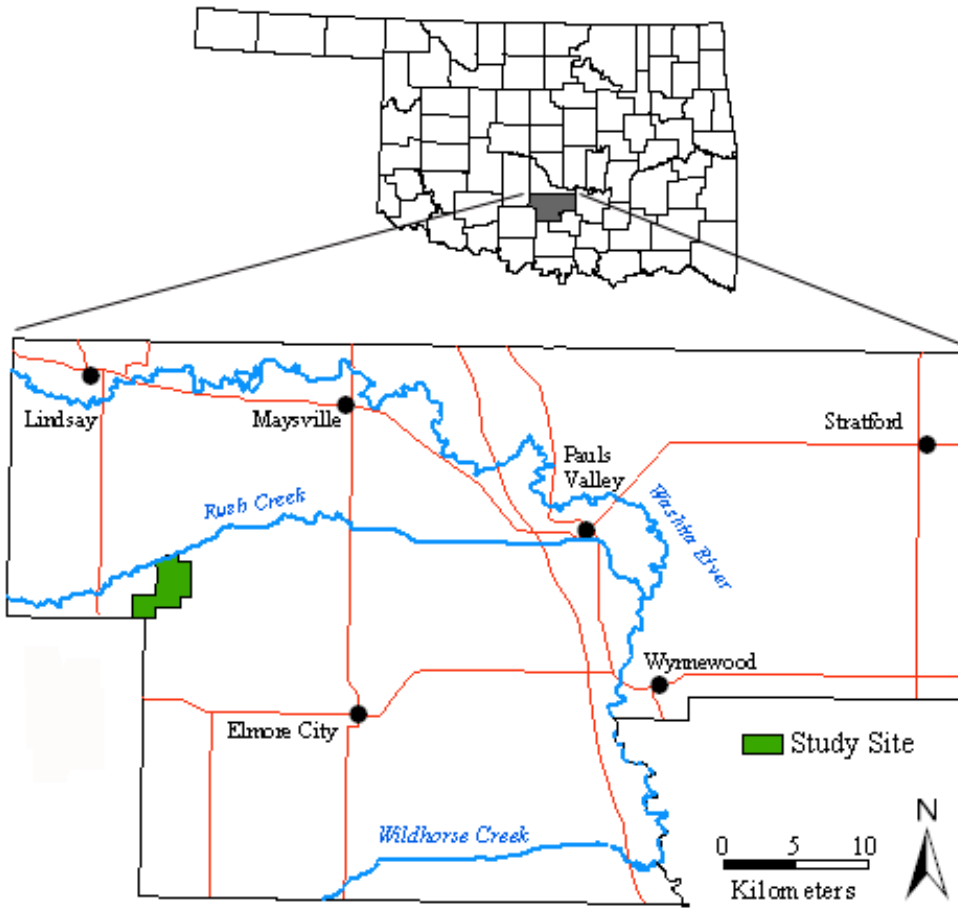


Figure 2 Location of the study site in Garvin County, Oklahoma

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**APPENDIX 1. Annotated species list for Garvin County, Oklahoma**

After taxon, the collection number is listed. The herbarium symbol is listed for those species collected in the county by individuals other than Crawford and Crawford and deposited in those herbaria.

\* Taxon not previously recorded in the OVPD for Garvin County

<sup>1</sup> BRIT = Herbarium at the Botanical Research Institute of Texas; OCLA = Herbarium at University of Science and Arts of Oklahoma; OKL = Bebb Herbarium, University of Oklahoma; OKLA = Herbarium at Oklahoma State University.

<sup>2</sup> BF = bottomland forest; CP = cultivated pasture; D = disturbed; NP = native prairie; R = riparian; RO = rock outcrop [within the native pasture habitat]; S = seep; UF = upland forest; and WA = wetland/aquatic.

<sup>3</sup> 5 = abundant, 1 = rare, see Palmer et al. (1995) for a detailed description of scale; n/a indicates the taxon was collected outside of the study site and abundance could not be determined.

<sup>4</sup> n = native; i = introduced, c = cultivated (USDA, NRCS 2004).

<sup>5</sup> see Oklahoma Natural Heritage Inventory (2005) for detailed description of rarity rankings.

Taxon	Co#/Herb <sup>1</sup>	Habitat <sup>2</sup>	Abundance <sup>3</sup>	Origin <sup>4</sup>	Rarity <sup>5</sup>
<b>EQUISETOPSIDA</b>					
<b>EQUISETACEAE</b>					
<i>Equisetum hyemale</i> L. var. <i>affine</i> (Engelm.) A.A. Eat.	OKL 1513*	WA	2	n	n
<i>Equisetum laevigatum</i> A. Braun	1470*	WA	2	n	n
<i>Equisetum X ferrissii</i> Clute (pro.sp.)	OKLA			n	n
<b>FILICOPSIDA</b>					
<b>DRYOPTERIDACEAE</b>					
<i>Woodsia obtusa</i> (Spreng.) Torr.	1102*	UF	3	n	n
<b>MARSILEACEAE</b>					
<i>Marsilea vestita</i> Hook. & Grev.	OKLA			n	G5 S1
<b>OPHIOGLOSSACEAE</b>					
<i>Botrychium biternatum</i> (Sav.) Underwood	1552*	BF	n/a	n	n
<i>Botrychium virginianum</i> (L.) Sw.	1215*	BF	1	n	n
<i>Ophioglossum engelmannii</i> Prantl	1216*	BF	1	n	n
<b>PTERIDACEAE</b>					
<i>Pellaea atropurpurea</i> (L.) Link	1087*	NP (RO)	2	n	n
<b>PINOPSIDA</b>					
<b>CUPRESSACEAE</b>					
<i>Juniperus virginiana</i> L.	1183	UF	3	n	n
<b>MAGNOLIOPSIDA</b>					
<b>ACANTHACEAE</b>					
<i>Justicia americana</i> (L.) Vahl	OKLA			n	n
<i>Ruellia humilis</i> Nutt.	1329	NP	4	n	n
<i>Ruellia strepens</i> L.	1131	BF	2	n	n
<b>ACERACEAE</b>					
<i>Acer negundo</i> L.	OKL			n	n
<i>Acer negundo</i> L. var. <i>texanum</i> Pax	1335	BF	3	n	n



Taxon	Co#/Herb <sup>1</sup>	Habitat <sup>2</sup>	Abundance <sup>3</sup>	Origin <sup>4</sup>	Rarity <sup>5</sup>
<b>AIZOACEAE</b>					
<i>Trianthema portulacastrum</i> L.	OKLA			n	
<b>AMARANTHACEAE</b>					
<i>Amaranthus palmeri</i> S. Wats.	1340	D	4	n	
<i>Froelichia floridana</i> (Nutt.) Moq.	OCLA			n	
<i>Gossypianthus lanuginosus</i> (Poir.) Moq.	OKL			n	
<i>Iresine rhizomatosa</i> Standl.	1577*	R	1	n	
<b>ANACARDIACEAE</b>					
<i>Rhus aromatica</i> Ait.	1212	NP (RO)	4	n	
<i>Rhus copallinum</i> L.	OKL			n	
<i>Rhus glabra</i> L.	1293	NP	4	n	
<i>Rhus lanceolata</i> (Gray) Britt.	OKL			n	G4G5 S1S2
<i>Rhus trilobata</i> Nutt.	OKLA			n	
<i>Toxicodendron pubescens</i> P. Mill.	1496*	UF	2	n	
<i>Toxicodendron radicans</i> (L.) Kuntze	1547	D, BF, UF	4	n	
<b>APIACEAE</b>					
<i>Ammoselinum butleri</i> (Engelm. ex S. Wats.) Coul. & Rose	OKL			n	
<i>Ammoselinum popei</i> Torr. & Gray	OKLA			n	
<i>Chaerophyllum tainturieri</i> Hook.	OKL			n	
<i>Chaerophyllum tainturieri</i> Hook. var. <i>tainturieri</i>	1209	CP, UF	4	n	
<i>Cicuta maculata</i> L.	OKLA			n	
<i>Daucus pusillus</i> Michx.	1301	NP	2	n	
<i>Eryngium leavenworthii</i> Torr. & Gray	OKLA			n	
<i>Eryngium yuccifolium</i> Michx.	OCLA			n	
<i>Lomatium foeniculaceum</i> (Nutt.) Coul. & Rose	1084	NP (RO)	2	n	
<i>Polytaenia nuttallii</i> DC.	1310	NP	2	n	
<i>Ptilimnium nuttallii</i> (DC.) Britt.	OKLA			n	
<i>Sanicula canadensis</i> L.	OKLA			n	
<i>Spermolepis echinata</i> (Nutt. ex DC.) Heller	OKLA			n	
<i>Torilis arvensis</i> (Huds.) Link	1300*	BF, UF	4	i	
<i>Torilis japonica</i> (Houtt.) DC.	OKLA			i	
<i>Zizia aurea</i> (L.) W.D.J. Koch	OKLA			n	
<b>APOCYNACEAE</b>					
<i>Apocynum cannabinum</i> L.	1245	S	2	n	
<b>ARISTOLOCHIACEAE</b>					
<i>Aristolochia tomentosa</i> Sims	1440	BF	2	n	
<b>ASCLEPIADACEAE</b>					
<i>Asclepias amplexicaulis</i> Sm.	OCLA			n	
<i>Asclepias asperula</i> (Dcne.) Woods.	1309	NP	3	n	
<i>Asclepias asperula</i> (Dcne.) Woods. ssp. <i>capricornu</i> (Woods.) Woods.	OCLA			n	
<i>Asclepias stenophylla</i> Gray	OKL			n	
<i>Asclepias tuberosa</i> L.	OCLA			n	
<i>Asclepias tuberosa</i> L. ssp. <i>interior</i> Woods.	1259	NP	3	n	
<i>Asclepias verticillata</i> L.	OKL			n	
<i>Asclepias viridiflora</i> Raf.	1372	NP	3	n	
<i>Asclepias viridis</i> Walt.	1352	NP	3	n	

Taxon	Co#/Herb <sup>1</sup>	Habitat <sup>2</sup>	Abundance <sup>3</sup>	Origin <sup>4</sup>	Rarity <sup>5</sup>
<i>Cynanchum laeve</i> (Michx.) Pers.	1584*	BF	2	n	
<i>Matelea decipiens</i> (Alexander) Woods.	OCLA			n	
<b>ASTERACEAE</b>					
<i>Achillea millefolium</i> L.	1236	D, NP	4	n/i	
<i>Achillea millefolium</i> L. var. <i>occidentalis</i> DC.	OCLA			n	
<i>Ambrosia artemisiifolia</i> L.	1395	NP	4	n	
<i>Ambrosia psilostachya</i> DC.	1522	NP	5	n	
<i>Ambrosia trifida</i> L.	OKL			n	
<i>Ambrosia trifida</i> L. var. <i>texana</i> Scheele	1435	D	4	n	
<i>Amphiachyris dracunculoides</i> (DC.) Nutt.	1405*	NP	5	n	
<i>Antennaria plantaginifolia</i> (L.) Richards.	1214*	UF	3	n	
<i>Arnoglossum plantagineum</i> Raf.	OKLA			n	
<i>Artemisia ludoviciana</i> Nutt.	OKL			n	
<i>Artemisia ludoviciana</i> Nutt. ssp. <i>mexicana</i> (Willd. ex Spreng.) Keck	1466	NP	4	n	
<i>Berlandiera texana</i> DC.	OCLA			n	
<i>Berlandiera X betonicifolia</i> (Hook.) Small (pro sp.)	1163*	NP	3	n	
<i>Bidens bipinnata</i> L.	1411*	BF	3	n	
<i>Bidens frondosa</i> L.	1535*	WA	2	n	
<i>Brickellia eupatorioides</i> (L.) Shinners	OKL			n	
<i>Centaurea americana</i> Nutt.	OKLA			n	
<i>Chrysopsis pilosa</i> Nutt.	1531	NP	4	n	
<i>Cirsium altissimum</i> (L.) Hill	1509*	D	3	n	
<i>Cirsium undulatum</i> (Nutt.) Spreng.	1320	D	3	n	
<i>Conyza canadensis</i> (L.) Cronq.	OKLA			n	
<i>Conyza canadensis</i> (L.) Cronq. var. <i>canadensis</i>	1390	D	4	n	
<i>Conyza ramosissima</i> Cronq.	1518*	D, CP	3	n	
<i>Coreopsis grandiflora</i> Hogg ex Sweet	OKLA			n	
<i>Coreopsis lanceolata</i> L.	1461	NP	2	n	
<i>Coreopsis tinctoria</i> Nutt.	OKLA			n	
<i>Dracopis amplexicaulis</i> (Vahl) Cass.	OKLA			n	
<i>Echinacea angustifolia</i> DC.	1265	NP	4	n	
<i>Echinacea pallida</i> (Nutt.) Nutt.	OKL			i	
<i>Eclipta prostrata</i> (L.) L.	1420*	WA	3	n	
<i>Elephantopus carolinianus</i> Raeusch.	1473	BF	3	n	
<i>Erigeron philadelphicus</i> L.	1106	R	3	n	
<i>Erigeron strigosus</i> Muhl. ex Willd.	1238	NP	4	n	
<i>Eupatorium serotinum</i> Michx.	1432*	R	3	n	
<i>Evax verna</i> Raf. var. <i>verna</i>	OCLA			n	
<i>Gaillardia aestivalis</i> (Walt.) H. Rock	1294*	NP	4	n	
<i>Gaillardia pulchella</i> Foug.	OCLA			n	
<i>Gaillardia suavis</i> (Gray & Engelm.) Britt. & Rusby	1446*	NP	2	n	
<i>Gamochaeta purpurea</i> (L.) Cabrera	1318	UF	3	n	
<i>Grindelia lanceolata</i> Nutt. var. <i>texana</i> (Scheele) Shinners	OKL			n	
<i>Grindelia papposa</i> Nesom & Suh	1475	D	4	n	
<i>Helenium amarum</i> (Raf.) H. Rock	OKL			n	
<i>Helianthus annuus</i> L.	1428	D	4	n	
<i>Helianthus hirsutus</i> Raf.	1543*	NP	3	n	
<i>Helianthus maximiliani</i> Schrad.	1558	NP	2	n	
<i>Helianthus pauciflorus</i> Nutt.	1491*	NP	2	n	
<i>Helianthus petiolaris</i> Nutt.	OKL			n	
<i>Heterotheca subaxillaris</i> (Lam.) Britt. & Rusby	1391*	D, NP	4	n	

Taxon	Co#/Herb <sup>1</sup>	Habitat <sup>2</sup>	Abundance <sup>3</sup>	Origin <sup>4</sup>	Rarity <sup>5</sup>
<i>Hieracium longipilum</i> Torr.	OCLA			n	
<i>Hymenopappus scabiosaeus</i> L'Hér. var. <i>corymbosus</i> (Torr. & Gray) B.L. Turner	OKLA			n	
<i>Hymenopappus tenuifolius</i> Pursh	1271	NP (RO)	3	n	
<i>Iva annua</i> L.	OKL			n	
<i>Iva annua</i> L. var. <i>annua</i>	OKLA			n	
<i>Lactuca floridana</i> (L.) Gaertn.	1545*	R	3	n	
<i>Lactuca ludoviciana</i> (Nutt.) Riddell	1343	D	3	n	
<i>Lactuca serriola</i> L.	1512*	R	2	i	
<i>Liatris punctata</i> Hook.	1392*	NP	4	n	
<i>Liatris squarrosa</i> (L.) Michx.	1486	NP	3	n	
<i>Liatris squarrosa</i> (L.) Michx. var. <i>glabrata</i> (Rydb.) Gaiser	OCLA			n	
<i>Marshallia caespitosa</i> Nutt. ex DC.	1154	S	2	n	
<i>Oligoneuron rigidum</i> (L.) Small var. <i>rigidum</i>	1430*	UF	3	n	
<i>Packera plattensis</i> (Nutt.) W.A. Weber & A. Löve	OKLA			n	
<i>Packera tampicana</i> (DC.) C. Jeffrey	OKL			n	
<i>Palafoxia rosea</i> (Bush) Cory var. <i>macrolepis</i> (Rydb.) B.L. Turner & Morris	OCLA			n	
<i>Palafoxia rosea</i> (Bush) Cory var. <i>rosea</i>	1566	NP	2	n	
<i>Parthenium hysterophorus</i> L.	1521	D	3	i	
<i>Pluchea odorata</i> (L.) Cass.	1482	WA	3	n	
<i>Pseudognaphalium obtusifolium</i> (L.) Hilliard & Burt	1515*	NP	3	n	
<i>Pyrrhopappus carolinianus</i> (Walt.) DC.	OCLA			n	
<i>Pyrrhopappus grandiflorus</i> (Nutt.) Nutt.	1457	NP, CP	3	n	
<i>Ratibida columnifera</i> (Nutt.) Woot. & Standl.	1267	NP	3	n	
<i>Rudbeckia hirta</i> L.	1160	NP	3	n	
<i>Rudbeckia hirta</i> L. var. <i>pulcherrima</i> Farw.	OKLA			n	
<i>Rudbeckia missouriensis</i> Engelm. ex C.L. Boynt. & Beadle	OKL			n	
<i>Silphium laciniatum</i> L.	1481*	NP	2	n	
<i>Solidago canadensis</i> L. var. <i>scabra</i> Torr. & Gray	OKLA			n	
<i>Solidago gigantea</i> Ait.	OKLA			n	
<i>Solidago ludoviciana</i> (Gray) Small	1476*	UF	3	n	
<i>Solidago nemoralis</i> Ait.	1417*	UF	3	n	
<i>Solidago ulmifolia</i> Muhl. ex Willd.	1501*	UF	3	n	
<i>Sonchus asper</i> (L.) Hill	OKLA			i	
<i>Symphotrichum divaricatum</i> (Nutt.) Nesom	OCLA			n	
<i>Symphotrichum drummondii</i> (Lindl.) Nesom var. <i>texanum</i> (Burgess) Nesom	1387*	UF	3	n	
<i>Symphotrichum ericoides</i> (L.) Nesom var. <i>ericoides</i>	1398	NP	4	n	
<i>Symphotrichum oblongifolium</i> (Nutt.) Nesom	1400*	UF	3	n	
<i>Symphotrichum oolentangiense</i> (Riddell) Nesom var. <i>oolentangiense</i>	1575*	R	3	n	
<i>Symphotrichum patens</i> (Ait.) Nesom var. <i>patens</i>	1503	UF	3	n	
<i>Symphotrichum subulatum</i> (Michx.) Nesom	1422*	WA	3	n	
<i>Taraxacum officinale</i> G.H. Weber ex Wiggers	OKL			n/i	
<i>Tetranneuris linearifolia</i> (Hook.) Greene var. <i>linearifolia</i>	1090	NP	4	n	
<i>Thelesperma filifolium</i> (Hook.) Gray	1171	NP	4	n	
<i>Tragopogon dubius</i> Scop.	1378*	D	2	i	

Taxon	Co#/Herb <sup>1</sup>	Habitat <sup>2</sup>	Abundance <sup>3</sup>	Origin <sup>4</sup>	Rarity <sup>5</sup>
<i>Verbesina encelioides</i> (Cav.) Benth. & Hook. f. ex Gray	1277	R	2	n	
<i>Verbesina virginica</i> L.	1536*	R	2	n	
<i>Vernonia baldwinii</i> Torr.	1162	D, NP	4	n	
<i>Xanthium strumarium</i> L.	1326	D, WA	4	n	
<b>BIGNONIACEAE</b>					
<i>Campsis radicans</i> (L.) Seem. ex Bureau	1167	UF	3	n	
<b>BORAGINACEAE</b>					
<i>Buglossoides arvensis</i> (L.) I.M. Johnston	OKLA			i	
<i>Heliotropium tenellum</i> (Nutt.) Torr.	1280	NP	4	n	
<i>Lithospermum incisum</i> Lehm.	1200	NP	3	n	
<i>Onosmodium molle</i> Michx. ssp. <i>bejariense</i> (DC. ex A. DC.) Cochrane	OKLA			n	
<b>BRASSICACEAE</b>					
<i>Brassica juncea</i> (L.) Czern.	OKL			i	
<i>Camelina microcarpa</i> DC.	OKL			i	
<i>Capsella bursa-pastoris</i> (L.) Medik.	1195	CP, D	4	i	
<i>Cardamine hirsuta</i> L.	OKL			i	
<i>Descurainia pinnata</i> (Walt.) Britt.	1217	CP, D	3	n	
<i>Draba brachycarpa</i> Nutt. ex Torr. & Gray	OKL			n	
<i>Draba cuneifolia</i> Nutt. ex Torr. & Gray	1193	NP (RO)	4	n	
<i>Lepidium austrinum</i> Small	OKLA			n	
<i>Lepidium densiflorum</i> Schrad.	OCLA			n	
<i>Lepidium virginicum</i> L.	OKLA			n	
<i>Lesquerella gracilis</i> (Hook.) S. Wats. ssp. <i>nuttallii</i> (Torr. & Gray) Rollins & Shaw	OKLA			n	
<i>Lesquerella ovalifolia</i> Rydb. ex Britt.	OCLA			n	
<i>Lesquerella ovalifolia</i> Rydb. ex Britt. ssp. <i>alba</i> (Goodman) Rollins & Shaw	OKL			n	
<i>Lesquerella ovalifolia</i> Rydb. ex Britt. ssp. <i>ovalifolia</i>	1189	NP (RO)	4	n	
<i>Rorippa nasturtium-aquaticum</i> (L.) Hayek	1204*	WA	2	n/i	
<i>Sibara virginica</i> (L.) Rollins	OKL			n	
<b>CACTACEAE</b>					
<i>Echinocereus reichenbachii</i> (Terscheck ex Walp.) Haage f. var. <i>reichenbachii</i>	OKL			n	
<i>Escobaria missouriensis</i> (Sweet) D.R. Hunt	1272*	NP	2	n	
<i>Escobaria missouriensis</i> (Sweet) D.R. Hunt var. <i>missouriensis</i>	1149*	NP	2	n	
<i>Opuntia macrorhiza</i> Engelm.	1490	NP	2	n	
<b>CAMPANULACEAE</b>					
<i>Lobelia cardinalis</i> L.	1555*	R	2	n	
<i>Lobelia siphilitica</i> L.	1418*	S	2	n	
<i>Triodanis holzingeri</i> McVaugh	OKLA			n	
<b>CAPRIFOLIACEAE</b>					
<i>Lonicera albiflora</i> Torr. & Gray	OKLA			n	
<i>Lonicera flava</i> Sims	1061	UF	3	n	
<i>Lonicera japonica</i> Thunb.	OKL			i	
<i>Sambucus nigra</i> L. ssp. <i>canadensis</i> (L.) R. Bolli	1275	R	3	n	

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<i>Symphoricarpos orbiculatus</i> Moench	1349	UF	5	n	
<i>Viburnum rufidulum</i> Raf.	1099	UF	3	n	
<b>CARYOPHYLLACEAE</b>					
<i>Arenaria serpyllifolia</i> L.	1210*	CP, D	3	i	
<i>Cerastium glomeratum</i> Thuill.	OCLA			i	
<i>Cerastium nutans</i> Raf.	OKL			n	
<i>Minuartia michauxii</i> (Fenzl) Farw. var. <i>michauxii</i>	OKL			n	
<i>Minuartia michauxii</i> (Fenzl) Farw. var. <i>texana</i> (B.L. Robins.) Mattf.	1144*	NP (RO)	3	n	
<i>Paronychia jamesii</i> Torr. & Gray	1407	NP	4	n	
<i>Paronychia virginica</i> Spreng.	OCLA			n	
<i>Spergularia salina</i> J.& K. Presl	BRIT			n	
<i>Stellaria media</i> (L.) Vill.	OKLA			i	
<b>CELASTRACEAE</b>					
<i>Celastrus scandens</i> L.	1289	BF	2	n	
<b>CHENOPODIACEAE</b>					
<i>Chenopodium album</i> L.	1464*	D	4	n/i	
<i>Chenopodium pratericola</i> Rydb.	1276*	D	3	n	
<i>Chenopodium simplex</i> (Torr.) Raf.	1465*	D	2	n	
<i>Chenopodium standleyanum</i> Aellen	1520*	D	3	n	
<i>Cycloloma atriplicifolium</i> (Spreng.) Coult.	OKLA			n	
<i>Salsola tragus</i> L.	1541*	D	3	i	
<b>CONVOLVULACEAE</b>					
<i>Convolvulus arvensis</i> L.	OCLA			i	
<i>Evolvulus nuttallianus</i> J.A. Schultes	1231	NP	3	n	
<i>Ipomoea hederacea</i> Jacq.	1548	D	3	i	
<i>Ipomoea pandurata</i> (L.) G.F.W. Mey.	OKLA			n	
<i>Ipomoea purpurea</i> (L.) Roth	1546*	D	3	i	
<i>Ipomoea shumardiana</i> (Torr.) Shinnery	OCLA			n	
<b>CORNACEAE</b>					
<i>Cornus drummondii</i> C.A. Mey.	1225	UF	4	n	
<b>CUCURBITACEAE</b>					
<i>Cucurbita foetidissima</i> Kunth	1353	D	3	n	
<i>Melothria pendula</i> L.	1517*	UF	2	n	
<b>CUSCUTACEAE</b>					
<i>Cuscuta pentagona</i> Engelm.	1258*	NP	3	n	
<b>EBENACEAE</b>					
<i>Diospyros virginiana</i> L.	1227	UF, R	3	n	
<b>EUPHORBIACEAE</b>					
<i>Acalypha ostryifolia</i> Riddell	1346*	D	3	n	
<i>Acalypha virginica</i> L.	1556*	R	2	n	
<i>Argythamnia mercurialina</i> (Nutt.) Muell.-Arg. var. <i>mercurialina</i>	1358*	NP	2	n	
<i>Chamaesyce maculata</i> (L.) Small	1344	D	3	n	
<i>Chamaesyce missurica</i> (Raf.) Shinnery	1463*	D	3	n	

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<i>Chamaesyce nutans</i> (Lag.) Small	1478*	NP, D	3	n	
<i>Chamaesyce prostrata</i> (Ait.) Small	1519*	D	3	n	
<i>Cnidoscolus texanus</i> (Muell.-Arg.) Small	OKLA			n	
<i>Croton capitatus</i> Michx. var. <i>capitatus</i>	1173*	NP	3	n	
<i>Croton glandulosus</i> L.	OCLA			n	
<i>Croton glandulosus</i> L. var. <i>lindheimeri</i> Muell.-Arg.	1492	NP	3	n	
<i>Croton glandulosus</i> L. var. <i>septentrionalis</i> Muell.-Arg.	OKLA			n	
<i>Croton monanthogynus</i> Michx.	1328	D, NP	4	n	
<i>Euphorbia bicolor</i> Engelm. & Gray	OKL			n	
<i>Euphorbia commutata</i> Engelm.	OCLA			n	G5 S1S2
<i>Euphorbia corollata</i> L.	1427	D	3	n	
<i>Euphorbia dentata</i> Michx.	1345	D	3	n/i	
<i>Euphorbia longicuris</i> Scheele	1207*	NP (RO)	4	n	
<i>Euphorbia marginata</i> Pursh	1469	NP, D	3	n	
<i>Euphorbia pubentissima</i> Michx.	OKLA			n	
<i>Euphorbia spathulata</i> Lam.	OKLA			n	
<i>Phyllanthus polygonoides</i> Nutt. ex Spreng.	OKLA			n	
<i>Stillingia sylvatica</i> Garden ex L.	1229	NP	3	n	
<i>Tragia brevispica</i> Engelm. & Gray	1148*	NP	4	n	
<i>Tragia ramosa</i> Torr.	OKL			n	
<b>FABACEAE</b>					
<i>Acacia angustissima</i> (P. Mill.) Kuntze	OKLA			n	
<i>Acacia angustissima</i> (P. Mill.) Kuntze var. <i>hirta</i> (Nutt.) B.L. Robins.	OCLA			n	
<i>Albizia julibrissin</i> Durazz.	1523	D	2	i	
<i>Amorpha canescens</i> Pursh	1528	NP	3	n	
<i>Amorpha fruticosa</i> L.	1357	WA	3	n	
<i>Amphicarpaea bracteata</i> (L.) Fern.	1537*	UF	2	n	
<i>Apios americana</i> Medik.	1576	R	2	n	
<i>Astragalus crassicaarpus</i> Nutt. var. <i>crassicaarpus</i>	OKL			n	
<i>Astragalus nuttallianus</i> DC.	1091*	NP	4	n	
<i>Astragalus racemosus</i> Pursh	OKLA			n	
<i>Baptisia australis</i> (L.) R. Br. ex Ait. f. var. <i>minor</i> (Lehm.) Fern.	1445	NP	3	n	
<i>Baptisia bracteata</i> Muhl. ex Ell. var. <i>leucophaea</i> (Nutt.) Kartesz & Gandhi	OKLA			n	
<i>Baptisia sphaerocarpa</i> Nutt.	OKL			n	
<i>Cercis canadensis</i> L.	1186	UF	4	n	
<i>Cercis canadensis</i> L. var. <i>texensis</i> (S. Wats.) M. Hopkins	OKLA			n	
<i>Chamaecrista fasciculata</i> (Michx.) Greene	1156	D, NP	4	n	
<i>Clitoria mariana</i> L.	OKL			n	
<i>Dalea aurea</i> Nutt. ex Pursh	1264	NP	3	n	
<i>Dalea candida</i> Michx. ex Willd.	OKLA			n	
<i>Dalea candida</i> Michx. ex Willd. var. <i>oligophylla</i> (Torr.) Shinnery	1170	NP	4	n	
<i>Dalea compacta</i> Spreng. var. <i>compacta</i>	OKL			n	G5 S1S2
<i>Dalea enneandra</i> Nutt.	1370	NP	3	n	
<i>Dalea purpurea</i> Vent.	1263	NP	3	n	
<i>Desmanthus illinoensis</i> (Michx.) MacM. ex B.L. Robins. & Fern.	1333*	NP	4	n	
<i>Desmodium sessilifolium</i> (Torr.) Torr. & Gray	1169	NP	3	n	

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<i>Desmodium tweedyi</i> Britt.	1161*	NP	3	n	
<i>Gleditsia triacanthos</i> L.	1306	UF	4	n	
<i>Glottidium vesicarium</i> (Jacq.) Harper	1573	R, WA	3	n	
<i>Indigofera miniata</i> Ortega	1281	NP	3	n	
<i>Indigofera miniata</i> Ortega var. <i>leptosepala</i> (Nutt. ex Torr. & Gray) B.L. Turner	1174	NP	3	n	
<i>Kummerowia stipulacea</i> (Maxim.) Makino	1474*	CP, D	2	i	
<i>Lathyrus hirsutus</i> L.	1138*	CP	3	i	
<i>Lespedeza procumbens</i> Michx.	1530*	UF	3	n	
<i>Lespedeza stuevei</i> Nutt.	1479*	NP	3	n	
<i>Lespedeza virginica</i> (L.) Britt.	1494*	NP	3	n	
<i>Lotus unifoliolatus</i> (Hook.) Benth.	1302	NP	2	n	
<i>Medicago lupulina</i> L.	1298*	NP	3	i	
<i>Medicago minima</i> (L.) L.	1456	CP, D	3	i	
<i>Medicago sativa</i> L.	1542*	D	3	i	
<i>Melilotus alba</i> Medikus	OKL			c	
<i>Melilotus officinalis</i> (L.) Lam.	1330	D	3	i	
<i>Mimosa nuttallii</i> (DC.) B.L. Turner	1239	NP	3	n	
<i>Neptunia lutea</i> (Leavenworth) Benth.	OKLA			n	
<i>Oxytropis lambertii</i> Pursh	1143	NP	2	n	
<i>Oxytropis lambertii</i> Pursh var. <i>articulata</i> (Greene) Barneby	OKLA			n	
<i>Pediomelum cuspidatum</i> (Pursh) Rydb.	OKLA			n	
<i>Pediomelum digitatum</i> (Nutt. ex Torr. & Gray) Isely	1359*	NP	2	n	
<i>Pediomelum linearifolium</i> (Torr. & Gray) J. Grimes	OKLA			n	
<i>Pediomelum reverchonii</i> (S. Wats.) Rydb.	OKL			n	G3 S2
<i>Prosopis glandulosa</i> Torr.	OKL			n	
<i>Psoralidium tenuiflorum</i> (Pursh) Rydb.	1175	NP	4	n	
<i>Pueraria montana</i> (Lour.) Merr.	1563	D	n/a	i	
<i>Pueraria montana</i> (Lour.) Merr. var. <i>lobata</i> (Willd.) Maesen & S. Almeida	OKLA			i	
<i>Robinia pseudoacacia</i> L.	1103	UF	3	n	
<i>Sophora affinis</i> Torr. & Gray	OKL			n	
<i>Strophostyles helvula</i> (L.) Ell.	1477*	D	4	n	
<i>Strophostyles leiosperma</i> (Torr. & Gray) Piper	OKLA			n	
<i>Trifolium vesiculosum</i> Savi	1321	CP	3	i	
<i>Vicia americana</i> Muhl. ex Willd. ssp. <i>minor</i> (Hook.) C.R. Gunn	OKLA			n	
<i>Vicia sativa</i> L.	1196	CP, D	4	i	
<b>FAGACEAE</b>					
<i>Quercus macrocarpa</i> Michx.	1296	BF	3	n	
<i>Quercus margarettiae</i> Ashe ex Small	1270*	UF	2	n	
<i>Quercus marilandica</i> Muenchh.	1202	UF	5	n	
<i>Quercus muehlenbergii</i> Engelm.	1286	UF, BF	4	n	
<i>Quercus prinoides</i> Willd.	OKLA			n	
<i>Quercus rubra</i> L.	OKL			n	
<i>Quercus shumardii</i> Buckl.	OKL			n	
<i>Quercus sinuata</i> Walt.	OKL			n	G5 S1S2
<i>Quercus sinuata</i> Walt. var. <i>breviloba</i> (Torr.) C.H. Muller	1269	UF	2	n	G5GT S?
<i>Quercus stellata</i> Wangenh.	1213	UF	5	n	G5 S?

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<i>Quercus velutina</i> Lam.	1185*	UF	4	n	
<b>FUMARIACEAE</b>					
<i>Corydalis curvisiliqua</i> Engelm.	1182*	D	3	n	
<b>GENTIANACEAE</b>					
<i>Centaurium beyrichii</i> (Torr. & Gray ex Torr.) B.L. Robins.	1180	NP	2	n	
<i>Eustoma exaltatum</i> (L.) Salisb. ex G. Don ssp. <i>russellianum</i> (Hook) Kartesz, comb. nov. ined.	OKLA			n	
<i>Sabatia campestris</i> Nutt.	1254	NP	3	n	
<b>GERANIACEAE</b>					
<i>Geranium carolinianum</i> L.	1132*	CP, D	4	n	
<i>Geranium molle</i> L.	OKL			i	
<b>HALORAGACEAE</b>					
<i>Myriophyllum heterophyllum</i> Michx.	OKL			n	
<b>HIPPOCASTANACEAE</b>					
<i>Aesculus glabra</i> Willd. var. <i>arguta</i> (Buckl.) B.L. Robins.	OKLA			n	
<b>HYDROPHYLLACEAE</b>					
<i>Ellisia nyctelea</i> (L.) L.	1101*	UF	2	n	
<b>JUGLANDACEAE</b>					
<i>Carya illinoensis</i> (Wangenh.) K. Koch	1348	BF	4	n	
<i>Juglans nigra</i> L.	1334	BF	3	n	
<b>KRAMERIACEAE</b>					
<i>Krameria lanceolata</i> Torr.	1150	NP	3	n	
<b>LAMIACEAE</b>					
<i>Hedeoma drummondii</i> Benth.	1172	NP	3	n	
<i>Hedeoma hispida</i> Pursh	1242	NP	3	n	
<i>Lamium amplexicaule</i> L.	1085	CP, D	4	i	
<i>Lycopus americanus</i> Muhl. ex W. Bart.	OKL			n	
<i>Monarda citriodora</i> Cerv. ex Lag.	OKLA			n	
<i>Monarda clinopodioides</i> Gray	1248	NP	3	n	
<i>Monarda fistulosa</i> L.	1256	NP	3	n	
<i>Monarda fistulosa</i> L. ssp. <i>fistulosa</i> var. <i>mollis</i> (L.) Benth.	OKL			n	
<i>Monarda pectinata</i> Nutt.	OKLA			n	G5 S1S3
<i>Physostegia virginiana</i> (L.) Benth.	OKLA			n	
<i>Salvia azurea</i> Michx. ex Lam.	OKL			n	
<i>Salvia azurea</i> Michx. ex Lam. var. <i>grandiflora</i> Benth.	1397	NP	4	n	
<i>Salvia reflexa</i> Hornem.	1376*	CP	2	n	
<i>Scutellaria ovata</i> Hill ssp. <i>bracteata</i> (Benth.) Epling	OKL			n	
<i>Teucrium canadense</i> L. var. <i>canadense</i>	1159	R	3	n	
<b>LAURACEAE</b>					
<i>Sassafras albidum</i> (Nutt.) Nees	OKLA			n	



Taxon	Co#/Herb <sup>1</sup>	Habitat <sup>2</sup>	Abundance <sup>3</sup>	Origin <sup>4</sup>	Rarity <sup>5</sup>
<b>LINACEAE</b>					
<i>Linum alatum</i> (Small) Winkl.	1145*	NP	2	n	
<i>Linum berlandieri</i> Hook. var. <i>berlandieri</i>	1240*	NP	4	n	
<i>Linum pratense</i> (J.B.S. Norton) Small	OKLA			n	
<i>Linum rigidum</i> Pursh	OKLA			n	
<i>Linum sulcatum</i> Riddell	OKLA			n	
<b>LOASACEAE</b>					
<i>Mentzelia oligosperma</i> Nutt. ex Sims	OKL			n	
<b>LYTHRACEAE</b>					
<i>Ammannia coccinea</i> Rottb.	1421	WA	3	n	
<i>Lythrum alatum</i> Pursh	OKLA			n	
<i>Lythrum alatum</i> Pursh var. <i>alatum</i>	OKL			n	
<i>Lythrum alatum</i> Pursh var. <i>lanceolatum</i> (Ell.) Torr. & Gray ex Rothrock	OKLA			n	
<i>Lythrum californicum</i> Torr. & Gray	1369*	S	2	n	
<b>MALVACEAE</b>					
<i>Callirhoe alcaeoides</i> (Michx.) Gray	OKLA			n	
<i>Callirhoe involucrata</i> (Torr. & Gray) Gray	1140	D, CP, NP	4	n	
<i>Sida spinosa</i> L.	OKL			n	
<b>MENISPERMACEAE</b>					
<i>Cocculus carolinus</i> (L.) DC.	1368	UF	4	n	
<i>Menispermum canadense</i> L.	OCLA			n	
<b>MOLLUGINACEAE</b>					
<i>Mollugo verticillata</i> L.	1425*	WA, D	3	n	
<b>MORACEAE</b>					
<i>Maclura pomifera</i> (Raf.) Schneid.	1246	UF	4	n	
<i>Morus alba</i> L.	1544*	UF	2	i	
<i>Morus rubra</i> L.	1307	UF	3	n	
<b>NELUMBONACEAE</b>					
<i>Nelumbo lutea</i> Willd.	1550*	WA	n/a	n	
<b>NYCTAGINACEAE</b>					
<i>Mirabilis albida</i> (Walt.) Heimerl	1385*	D, UF	3	n	
<i>Mirabilis linearis</i> (Pursh) Heimerl	OKLA			n	
<b>OLEACEAE</b>					
<i>Forestiera pubescens</i> Nutt. var. <i>pubescens</i>	OCLA			n	
<i>Fraxinus americana</i> L.	1292	BF, R	2	n	
<i>Fraxinus pennsylvanica</i> Marsh.	1221	BF, R	4	n	
<i>Fraxinus texensis</i> (Gray) Sarg.	OKL			n	
<b>ONAGRACEAE</b>					
<i>Calylophus berlandieri</i> Spach	1153*	NP	4	n	
<i>Calylophus berlandieri</i> Spach ssp. <i>berlandieri</i>	1241	NP	4	n	
<i>Calylophus serrulatus</i> (Nutt.) Raven	OKLA			n	
<i>Gaura mollis</i> James	1341*	D, NP	3	n	
<i>Ludwigia peploides</i> (Kunth) Raven	OKL			n	

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<i>Ludwigia peploides</i> (Kunth) Raven ssp. <i>glabrescens</i> (Kuntze) Raven	OKLA				n
<i>Oenothera laciniata</i> Hill	1255	D	3		n
<i>Oenothera macrocarpa</i> Nutt.	1443*	D, NP	3		n
<i>Oenothera macrocarpa</i> Nutt. ssp. <i>oklahomensis</i> (J.B.S. Norton) Wagner	1224	D, NP (RO)	3		n
<i>Oenothera speciosa</i> Nutt.	OCLA				n
<i>Stenosiphon linifolius</i> (Nutt. ex James) Heynh.	1404	D, NP	4		n
<b>OXALIDACEAE</b>					
<i>Oxalis corniculata</i> L.	1582	CP, D, NP	3		n
<i>Oxalis stricta</i> L.	OKLA				n
<i>Oxalis violacea</i> L.	1092	NP	3		n
<b>PAPAVERACEAE</b>					
<i>Argemone polyanthemus</i> (Fedde) G.B. Ownbey	1223	D	4		n
<b>PASSIFLORACEAE</b>					
<i>Passiflora incarnata</i> L.	1431*	UF, BF	2		n
<i>Passiflora lutea</i> L.	1565*	UF, BF	2		n
<b>PEDALIACEAE</b>					
<i>Proboscidea louisianica</i> (P. Mill.) Thellung	1436*	D	3		n
<b>PHYTOLACCACEAE</b>					
<i>Phytolacca americana</i> L.	1342	UF, D	3		n
<b>PLANTAGINACEAE</b>					
<i>Plantago patagonica</i> Jacq.	1233*	NP	3		n
<i>Plantago rhodosperma</i> Dcne.	OKL				n
<i>Plantago virginica</i> L.	1208*	NP	3		n
<b>PLATANACEAE</b>					
<i>Platanus occidentalis</i> L.	OKLA				n
<b>POLEMONIACEAE</b>					
<i>Ipomopsis rubra</i> (L.) Wherry	OKL				n
<i>Phlox pilosa</i> L.	1139	NP	2		n
<b>POLYGALACEAE</b>					
<i>Polygala alba</i> Nutt.	1093	NP (RO)	4		n
<b>POLYGONACEAE</b>					
<i>Eriogonum alatum</i> Torr.	1406	NP (RO)	3		n
<i>Eriogonum alatum</i> Torr. var. <i>glabriusculum</i> Torr.	OCLA				n
<i>Eriogonum annuum</i> Nutt.	1559*	NP, D	3		n
<i>Eriogonum longifolium</i> Nutt.	1402*	NP	3		n
<i>Polygonum aviculare</i> L.	1386	D	3		i
<i>Polygonum hydropiperoides</i> Michx.	1471	WA	3		n
<i>Polygonum lapathifolium</i> L.	1308	WA	3		n
<i>Polygonum pensylvanicum</i> L.	1412	WA	3		n
<i>Polygonum punctatum</i> Ell.	OKLA				n
<i>Polygonum ramosissimum</i> Michx.	1525*	WA	2		n

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<i>Polygonum scandens</i> L. var. <i>cristatum</i> (Engelm. & Gray) Gleason	1557*	R	2	n	
<i>Polygonum virginianum</i> L.	OKLA			n	
<i>Rumex altissimus</i> Wood	1327	D, WA	3	n	
<i>Rumex crispus</i> L.	OKLA			i	
<i>Rumex hastatulus</i> Baldw.	OKLA			n	
<b>PORTULACACEAE</b>					
<i>Claytonia virginica</i> L.	OKL			n	
<b>PRIMULACEAE</b>					
<i>Dodecatheon meadia</i> L.	1086	NP	2	n	
<i>Samolus valerandi</i> L. ssp. <i>parviflorus</i> (Raf.) Hultén	1506*	WA	3	n	
<b>RANUNCULACEAE</b>					
<i>Anemone berlandieri</i> Pritz.	1188	NP	3	n	
<i>Clematis pitcheri</i> Torr. & Gray	OKLA			n	
<i>Delphinium carolinianum</i> Walt.	1244	NP	3	n	
<i>Ranunculus hispidus</i> Michx.	OKL			n	
<i>Ranunculus sceleratus</i> L.	1569*	WA	2	n	
<i>Thalictrum dasycarpum</i> Fisch. & Avé-Lall.	1578	BF	2	n	
<i>Thalictrum revolutum</i> DC.	OKLA			n	
<b>RHAMNACEAE</b>					
<i>Ceanothus americanus</i> L.	1444	NP (RO)	2	n	
<i>Ceanothus herbaceus</i> Raf.	OKL			n	
<b>ROSACEAE</b>					
<i>Crataegus crus-galli</i> L.	OCLA			n	
<i>Crataegus mollis</i> Scheele	OKL			n	
<i>Crataegus viridis</i> L.	OKLA			n	
<i>Geum canadense</i> Jacq.	1363	BF	3	n	
<i>Geum canadense</i> Jacq. var. <i>texanum</i> Fern. & Weatherby	OKLA			n	
<i>Prunus angustifolia</i> Marsh.	OKL			n	
<i>Prunus gracilis</i> Engelm. & Gray	1203	NP	4	n	
<i>Prunus mexicana</i> S. Wats.	1371	UF	3	n	
<i>Rosa foliolosa</i> Nutt. ex Torr. & Gray	OKL			n	
<i>Rosa multiflora</i> Thunb. ex Murr.	1097	UF, NP	3	i	
<i>Rubus oklahomus</i> Bailey	OKLA			n	
<b>RUBIACEAE</b>					
<i>Cephalanthus occidentalis</i> L.	1303	WA	3	n	
<i>Diodia teres</i> Walt.	1493	NP	3	n	
<i>Galium aparine</i> L.	1218	CP, UF	4	n	
<i>Galium pilosum</i> Ait.	1502*	UF	3	n	
<i>Hedyotis nigricans</i> (Lam.) Fosberg	1279	NP	4	n	
<i>Houstonia pusilla</i> Schoepf	1199	NP	4	n	
<b>RUTACEAE</b>					
<i>Ptelea trifoliata</i> L.	OKL			n	
<i>Zanthoxylum americanum</i> P. Mill.	OKL			n	

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<b>SALICACEAE</b>					
<i>Populus deltoides</i> Bartr. ex Marsh.	1228*	R, S	3	n	
<i>Salix caroliniana</i> Michx.	OKL			n	
<i>Salix exigua</i> Nutt.	1572	R, WA	3	n	
<i>Salix nigra</i> Marsh.	1105	R	3	n	
<b>SAPINDACEAE</b>					
<i>Sapindus saponaria</i> L. var. <i>drummondii</i> (Hook. & Arn.) L. Benson	1331	UF	4	n	
<b>SAPOTACEAE</b>					
<i>Sideroxylon lanuginosum</i> Michx. ssp. <i>oblongifolium</i> (Nutt.) T.D. Pennington	1257*	BF, UF	3	n	
<b>SCROPHULARIACEAE</b>					
<i>Agalinis heterophylla</i> (Nutt.) Small ex Britt.	1505	NP	3	n	
<i>Bacopa rotundifolia</i> (Michx.) Wettst.	OCLA			n	
<i>Buchnera americana</i> L.	1278	NP	2	n	
<i>Castilleja indivisa</i> Engelm.	1151	NP	4	n	
<i>Castilleja purpurea</i> (Nutt.) G. Don var. <i>citrina</i> (Pennell) Shinnery	OKL			n	
<i>Castilleja sessiliflora</i> Pursh	OKL			n	
<i>Leucospora multifida</i> (Michx.) Nutt.	1499*	D, WA	3	n	
<i>Nuttallanthus texanus</i> (Scheele) D.A. Sutton	30	D, NP	3	n	
<i>Penstemon cobaea</i> Nutt.	1152	NP	3	n	
<i>Penstemon oklahomensis</i> Pennell	OKLA			n	G3 S3
<i>Scrophularia marilandica</i> L.	OKLA			n	
<i>Verbascum thapsus</i> L.	OKLA			i	
<i>Veronica anagallis-aquatica</i> L.	1570*	WA	2	n	
<i>Veronica peregrina</i> L. ssp. <i>xalapensis</i> (Kunth) Pennell	1108*	D	2	n	
<b>SOLANACEAE</b>					
<i>Physalis angulata</i> L.	OKL			n	
<i>Physalis cinerascens</i> (Dunal) A.S. Hitchc.	1311	D	3	n	
<i>Physalis longifolia</i> Nutt. var. <i>longifolia</i>	1347*	D	3	n	
<i>Physalis mollis</i> Nutt. var. <i>mollis</i>	OKLA			n	
<i>Physalis pubescens</i> L. var. <i>pubescens</i>	1434*	D	3	n	
<i>Physalis pumila</i> Nutt.	OKL			n	
<i>Solanum americanum</i> P. Mill.	OKLA			n	
<i>Solanum carolinense</i> L.	OKLA			n	
<i>Solanum dimidiatum</i> Raf.	1319	D	4	n	
<i>Solanum elaeagnifolium</i> Cav.	1268	D, NP	4	n	
<i>Solanum ptychanthum</i> Dunal	OKL			n	
<i>Solanum rostratum</i> Dunal	1350	D	4	n	
<b>TAMARICACEAE</b>					
<i>Tamarix chinensis</i> Lour.	1220*	R	3	i	
<i>Tamarix gallica</i> L.	OKLA			i	
<b>ULMACEAE</b>					
<i>Celtis laevigata</i> Willd.	1197	BF, UF	5	n	
<i>Celtis laevigata</i> Willd. var. <i>reticulata</i> (Torr.) L. Benson	1365	UF	4	n	
<i>Celtis laevigata</i> Willd. var. <i>texana</i> Sarg.	OKL			n	

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<i>Celtis tenuifolia</i> Nutt.	OKL			n	
<i>Ulmus americana</i> L.	1184	BF, UF	5	n	
<i>Ulmus rubra</i> Muhl.	1201*	BF	3	n	
<b>URTICACEAE</b>					
<i>Boehmeria cylindrica</i> (L.) Sw.	OKLA			n	
<i>Parietaria pensylvanica</i> Muhl. ex Willd.	OKLA			n	
<i>Urtica dioica</i> L.	OKLA			n	G5 S2
<b>VALERIANACEAE</b>					
<i>Valerianella amarella</i> (Lindheimer ex Engelm.) Krok	1107*	S, R	3	n	
<b>VERBENACEAE</b>					
<i>Glandularia bipinnatifida</i> (Nutt.) Nutt.	1351	NP	3	n	
<i>Glandularia canadensis</i> (L.) Nutt.	OKL			n	
<i>Glandularia pumila</i> (Rydb.) Ueber	1190	NP	4	n	
<i>Phyla lanceolata</i> (Michx.) Greene	1510*	WA	2	n	
<i>Phyla nodiflora</i> (L.) Greene	OKLA			n	
<i>Verbena bracteata</i> Lag. & Rodr.	1458*	NP	3	n	
<i>Verbena halei</i> Small	1455*	D	3	n	
<i>Verbena scabra</i> Vahl.	1579*	R	2	n	
<i>Verbena stricta</i> Vent.	1168	NP	3	n	
<b>VIOLACEAE</b>					
<i>Viola affinis</i> Le Conte	1274	BF, UF	4	n	
<i>Viola bicolor</i> Pursh	1198	CP, D	3	n	
<i>Viola sororia</i> Willd.	OKLA			n	
<b>VISCACEAE</b>					
<i>Phoradendron leucarpum</i> (Raf.) Reveal & M.C. Johnston	OKL			n	
<i>Phoradendron tomentosum</i> (DC.) Engelm. ex Gray	1305*	BF, UF	3	n	
<b>VITACEAE</b>					
<i>Cissus incisa</i> auct. non Des Moulins	1562*	NP (RO), R	2	n	
<i>Cissus trifoliata</i> (L.) L.	OKL			n	
<i>Parthenocissus quinquefolia</i> (L.) Planch.	1364	BF, UF	4	n	
<i>Vitis cinerea</i> (Engelm.) Millard	1222*	BF, UF	4	n	
<i>Vitis cinerea</i> (Engelm.) Millard var. <i>cinerea</i>	1366*	BF, UF	4	n	
<i>Vitis vulpina</i> L.	1336*	BF, UF	4	n	
<b>ZYGOPHYLLACEAE</b>					
<i>Tribulus terrestris</i> L.	1468	D	3	i	
<b>LILIOPSIDA</b>					
<b>AGAVACEAE</b>					
<i>Yucca arkansana</i> Trel.	1147	NP	3	n	
<b>ALISMATACEAE</b>					
<i>Alisma subcordatum</i> Raf.	OKL			n	
<i>Echinodorus berteroi</i> (Spreng.) Fassett	OCLA			n	
<i>Sagittaria brevirostra</i> Mackenzie & Bush	OKL			n	
<i>Sagittaria calycina</i> Engelm.	OKLA			n	

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<i>Sagittaria platyphylla</i> (Engelm.) J.G. Sm.	1551	WA	n/a	n	
<b>COMMELINACEAE</b>					
<i>Commelina erecta</i> L.	1332	D	4	n	
<i>Commelina erecta</i> L. var. <i>deamiana</i> Fern.	OKLA			n	
<i>Tradescantia occidentalis</i> (Britt.) Smyth	OCLA			n	
<i>Tradescantia ohiensis</i> Raf.	OCLA			n	
<b>CYPERACEAE</b>					
<i>Carex brevior</i> (Dewey) Mackenzie	OKL			n	
<i>Carex bushii</i> Mackenzie	OCLA			n	
<i>Carex crus-corvi</i> Shuttlw. ex Kunze	OKLA			n	
<i>Carex flaccosperma</i> Dewey	OCLA			n	
<i>Carex gravida</i> Bailey var. <i>lunelliana</i> (Mackenzie) F.J. Herm.	OKLA			n	
<i>Carex leavenworthii</i> Dewey	OCLA			n	
<i>Carex meadii</i> Dewey	OKLA			n	
<i>Carex microdonta</i> Torr. & Hook.	OKL			n	
<i>Carex muehlenbergii</i> Schkuhr ex Willd.	OKLA			n	
<i>Carex muehlenbergii</i> Schkuhr ex Willd. var. <i>enervis</i> Boott	OCLA			n	
<i>Carex retroflexa</i> Muhl. ex Willd.	OCLA			n	
<i>Carex tetrastachya</i> Scheele	OKLA			n	
<i>Cyperus acuminatus</i> Torr. & Hook. ex Torr.	1356	WA	3	n	
<i>Cyperus echinatus</i> (L.) Wood	1529	S	3	n	
<i>Cyperus esculentus</i> L.	1488	D	3	n/i	
<i>Cyperus lupulinus</i> (Spreng.) Marcks	1325	S	3	n	
<i>Cyperus odoratus</i> L.	1526*	D	3	n	
<i>Cyperus reflexus</i> Vahl	1178*	S	3	n	
<i>Cyperus setigerus</i> Torr. & Hook.	1581	WA	1	n	
<i>Cyperus squarrosus</i> L.	OCLA			n	
<i>Cyperus virens</i> Michx.	OKLA			n	
<i>Eleocharis acutisquamata</i> Buckl.	1205*	S	3	n	
<i>Eleocharis compressa</i> Sullivant	OKLA			n	
<i>Eleocharis montevidensis</i> Kunth	OKLA			n	
<i>Eleocharis palustris</i> (L.) Roemer & J.A. Schultes	1514	WA, S	3	n	
<i>Fimbristylis annua</i> (All.) Roemer & J.A. Schultes	OCLA			n	
<i>Fimbristylis puberula</i> (Michx.) Vahl	OKL			n	
<i>Fimbristylis puberula</i> (Michx.) Vahl var. <i>puberula</i>	1232	NP	4	n	
<i>Fimbristylis vahlii</i> (Lam.) Link	1571	WA	2	n	
<i>Fuirena simplex</i> Vahl	1419	S	3	n	
<i>Fuirena simplex</i> Vahl var. <i>aristulata</i> (Torr.) Kral	1487	S	3	n	
<i>Fuirena simplex</i> Vahl var. <i>simplex</i>	1498	S	3	n	
<i>Fuirena squarrosa</i> Michx.	OCLA			n	
<i>Lipocarpa aristulata</i> (Coville) G. Tucker	OCLA			n	
<i>Rhynchospora nivea</i> Boeckl.	1235	S	4	n	G4 S2
<i>Schoenoplectus americanus</i> (Pers.) Volk. ex Schinz & R. Keller	OKLA			n	
<i>Schoenoplectus pungens</i> (Vahl) Palla	1285*	WA, S	3	n	
<i>Schoenoplectus tabernaemontani</i> (K.C. Gmel.) Palla	OKLA			n	
<i>Scirpus lineatus</i> Michx.	OKLA			n	
<i>Scirpus pendulus</i> Muhl.	1322*	WA, S	3	n	

Taxon	Co#/Herb <sup>1</sup>	Habitat <sup>2</sup>	Abundance <sup>3</sup>	Origin <sup>4</sup>	Rarity <sup>5</sup>
<b>IRIDACEAE</b>					
<i>Hypoxis hirsuta</i> (L.) Coville	OKL			n	
<i>Nemastylis geminiflora</i> Nutt.	OKL			n	
<i>Nemastylis nuttallii</i> Pickering ex R.C. Foster	OCLA			n	
<i>Sisyrinchium angustifolium</i> P. Mill.	1243	NP	4	n	
<i>Sisyrinchium campestre</i> Bickn.	OKLA			n	
<b>JUNCACEAE</b>					
<i>Juncus bufonius</i> L.	OCLA			n	
<i>Juncus dudleyi</i> Wieg.	1460*	WA	2	n	
<i>Juncus interior</i> Wieg.	1284*	WA	2	n	
<i>Juncus marginatus</i> Rostk.	1176	S	2	n	
<i>Juncus nodatus</i> Coville	OKLA			n	
<i>Juncus scirpoides</i> Lam.	OKLA			n	
<i>Juncus tenuis</i> Willd.	1374*	BF	3	n	
<i>Juncus torreyi</i> Coville	1472	WA, S	3	n	
<b>LEMNACEAE</b>					
<i>Lemna aequinoctialis</i> Welw.	1549*	WA	3	n	
<b>LILIACEAE</b>					
<i>Allium canadense</i> L.	OCLA			n	
<i>Allium canadense</i> L. var. <i>fraseri</i> Ownbey	1095	NP	3	n	
<i>Allium drummondii</i> Regel	1096*	NP	3	n	
<i>Allium stellatum</i> Nutt. ex Ker-Gawl.	OCLA			n	
<i>Androstaphium caeruleum</i> (Scheele) Greene	1191	NP	4	n	
<i>Nothoscordum bivalve</i> (L.) Britte.	1192	NP	4	n	
<i>Polygonatum biflorum</i> (Walt.) Ell.	1129*	BF	2	n	
<b>NAJADACEAE</b>					
<i>Najas guadalupensis</i> (Spreng.) Magnus	OCLA			n	
<b>ORCHIDACEAE</b>					
<i>Spiranthes cernua</i> (L.) L.C. Rich.	1564*	NP	2	n	
<i>Spiranthes lacera</i> (Raf.) Raf.	OCLA			n	
<i>Spiranthes magnicamporum</i> Sheviak	1410	NP	3	n	
<i>Spiranthes vernalis</i> Engelm. & Gray	OCLA			n	
<b>POACEAE</b>					
<i>Aegilops cylindrica</i> Host	1135*	D	4	i	
<i>Agrostis hyemalis</i> (Walt.) B.S.P.	OKL			n	
<i>Agrostis perennans</i> (Walt.) Tuckerman	1452*	NP	3	n	
<i>Alopecurus carolinianus</i> Walt.	1459*	WA	3	n	
<i>Andropogon gerardii</i> Vitman	1426	NP	4	n	
<i>Andropogon hallii</i> Hack.	OKL			n	
<i>Andropogon glomeratus</i> (Walt.) B. S. P. var. <i>hirsutior</i> (Hack.) C. Mohr	1415*	S, R	3	n	
<i>Aristida oligantha</i> Michx.	1401	NP	4	n	
<i>Aristida purpurea</i> Nutt. var. <i>purpurea</i>	1266*	NP	4	n	
<i>Bothriochloa ischaemum</i> (L.) Keng var. <i>songarica</i> (Rupr. ex Fisch. & C.A. Mey.) Celarier & Harlan	1394*	NP	3	i	
<i>Bothriochloa laguroides</i> (DC.) Herter ssp. <i>torreyana</i> (Steud.) Allred & Gould	1297*	NP	4	n	
<i>Bothriochloa saccharoides</i> (Sw.) Rydb.	OKLA			n	

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<i>Bouteloua curtipendula</i> (Michx.) Torr.	1317	NP	5	n	
<i>Bouteloua hirsuta</i> Lag.	1316	NP	5	n	
<i>Bouteloua hirsuta</i> Lag. var. <i>pectinata</i> (Featherly) Cory	1532*	NP	3	n	
<i>Bouteloua rigidiseta</i> (Steud.) A.S. Hitchc.	OKLA			n	
<i>Bromus catharticus</i> Vahl	1136	CP, D	3	i	
<i>Bromus japonicus</i> Thunb. ex Murr.	1135	CP, D	3	i	
<i>Bromus secalinus</i> L.	OKLA			i	
<i>Bromus tectorum</i> L.	1137	CP, D	4	i	
<i>Buchloe dactyloides</i> (Nutt.) Engelm.	1393	NP	4	n	
<i>Cenchrus spinifex</i> Cav.	1165	CP, D	4	n	
<i>Chasmanthium latifolium</i> (Michx.) Yates	1375	R, BF	4	n	
<i>Chloris verticillata</i> Nutt.	1315	NP	3	n	
<i>Coelorachis cylindrica</i> (Michx.) Nash	1252	NP	3	n	
<i>Cynodon dactylon</i> (L.) Pers.	1377*	CP, D	5	i	
<i>Dichanthelium acuminatum</i> (Sw.) Gould & C.A. Clark var. <i>fasciculatum</i> (Torr.) Freckmann	OKLA			n	
<i>Dichanthelium malacophyllum</i> (Nash) Gould	1062	UF	3	n	
<i>Dichanthelium oligosanthes</i> (J.A. Schultes) Gould var. <i>scribnerianum</i> (Nash) Gould	1362*	NP	4	n	
<i>Dichanthelium scoparium</i> (Lam.) Gould	OKL			n	
<i>Dichanthelium sphaerocarpon</i> (Ell.) Gould var. <i>sphaerocarpon</i>	1295*	UF, NP	3	n	
<i>Dichanthelium villosissimum</i> (Nash) Freckmann var. <i>praecocius</i> (A.S. Hitchc. & Chase)	OKLA			n	
<i>Digitaria ciliaris</i> (Retz.) Koel.	1423*	D, CP	3	n	
<i>Digitaria cognata</i> (J.A. Schultes) Pilger var. <i>cognata</i>	OKLA			n	
<i>Digitaria sanguinalis</i> (L.) Scop.	1484*	CP, D	4	n	
<i>Echinochloa colona</i> (L.) Link	1574*	R	2	i	
<i>Echinochloa crus-galli</i> (L.) Beauv.	1354*	WA	3	i	
<i>Eleusine indica</i> (L.) Gaertn.	1438*	CP, D	3	i	
<i>Elymus canadensis</i> L.	1157	BF	4	n	
<i>Eragrostis cilianensis</i> (All.) Vign. ex Janchen	1437*	D	3	i	
<i>Eragrostis curtipedicellata</i> Buckl.	1312*	NP	3	n	
<i>Eragrostis pectinacea</i> (Michx.) Nees ex Steud. var. <i>pectinacea</i>	1339*	NP	3	n	
<i>Eragrostis secundiflora</i> J. Presl	OKLA			n	
<i>Eragrostis secundiflora</i> J. Presl ssp. <i>oxylepis</i> (Torr.) S.D. Koch	1314	NP	4	n	
<i>Eragrostis sessilispica</i> Buckl.	1261	NP	2	n	
<i>Eragrostis spectabilis</i> (Pursh) Steud.	1485	NP	3	n	
<i>Hordeum pusillum</i> Nutt.	1234	NP	4	n	
<i>Leersia oryzoides</i> (L.) Sw.	1534	WA	2	n	
<i>Leersia virginica</i> Willd.	1538*	WA	2	n	
<i>Leptochloa fusca</i> (L.) Kunth ssp. <i>fascicularis</i> (Lam.) N. Snow	1355*	WA	2	n	
<i>Lolium perenne</i> L.	OKLA			i	
<i>Lolium perenne</i> L. ssp. <i>multiflorum</i> (Lam.) Husnot	1133	CP, D	3	i	
<i>Muhlenbergia bushii</i> Pohl	1539*	R	2	n	G5 S1S2
<i>Muhlenbergia capillaris</i> (Lam.) Trin.	1533*	UF	3	n	
<i>Nassella leucotricha</i> (Trin. & Rupr.) Pohl	1447*	NP	3	n	
<i>Neeragrostis reptans</i> (Michx.) Nicora	OKLA			n	



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<i>Panicum acuminatum</i> Sw. var. <i>lindheimeri</i> (Nash) Lelong	1553*	R	2	n	
<i>Panicum anceps</i> Michx.	1414	S, WA	3	n	
<i>Panicum capillare</i> L.	1483*	NP	4	n	
<i>Panicum dichotomiflorum</i> Michx.	1527	NP	3	n	
<i>Panicum obtusum</i> Kunth	1373	NP	3	n	
<i>Panicum philadelphicum</i> Bernh. ex Trin.	1433*	BF	2	n	
<i>Panicum virgatum</i> L.	1462	S, R	3	n	
<i>Pascopyrum smithii</i> (Rydb.) A. Löve	1164*	NP	4	n	
<i>Paspalum distichum</i> L.	OKL			n	
<i>Paspalum floridanum</i> Michx.	OKLA			n	
<i>Paspalum laeve</i> Michx.	1424*	R, D	3	n	
<i>Paspalum notatum</i> Flueggé	OKLA			n/i	
<i>Paspalum pubiflorum</i> Rupr. ex Fourn.	1313	R, D	3	n	
<i>Paspalum setaceum</i> Michx.	1500	D	3	n	
<i>Poa annua</i> L.	1449*	D	4	i	
<i>Poa arachnifera</i> Torr.	1451	BF	3	n	
<i>Poa bulbosa</i> L.	OKL			i	
<i>Poa pratensis</i> L.	OKL			n/i	
<i>Polypogon monspeliensis</i> (L.) Desf.	OKLA			i	
<i>Schizachyrium scoparium</i> (Michx.) Nash	1403*	NP	5	n	
<i>Sclerochloa dura</i> (L.) Beauv.	1067*	NP	2	i	
<i>Secale cereale</i> L.	1454*	D	2	i	
<i>Setaria parviflora</i> (Poir.) Kerguélen	OKLA			n	
<i>Setaria pumila</i> (Poir.) Roemer & J.A. Schultes	1158*	CP, D	3	i	
<i>Setaria viridis</i> (L.) Beauv.	1337	CP, D	4	i	
<i>Sorghastrum nutans</i> (L.) Nash	1396	NP	5	n	
<i>Sorghum halepense</i> (L.) Pers.	1166	D	4	i	
<i>Sporobolus clandestinus</i> (Biehler) A.S. Hitchc.	1416*	NP	3	n	
<i>Sporobolus compositus</i> (Poir.) Merr.	1409*	NP	3	n	
<i>Sporobolus cryptandrus</i> (Torr.) Gray	1338	NP	3	n	
<i>Tridens flavus</i> (L.) A.S. Hitchc.	1408*	NP	4	n	
<i>Triticum aestivum</i> L.	1453*	D	3	i	
<i>Urochloa texana</i> (Buckl.) R. Webster	1540*	R	2	n	
<b>PONTEDERIACEAE</b>					
<i>Heteranthera limosa</i> (Sw.) Willd.	OCLA			n	
<b>POTAMOGETONACEAE</b>					
<i>Potamogeton nodosus</i> Poir.	1507*	WA	2	n	
<b>SMILACACEAE</b>					
<i>Smilax bona-nox</i> L.	1098	BF, UF	4	n	
<i>Smilax rotundifolia</i> L.	OKL			n	
<i>Smilax tamnoides</i> L.	1554*	BF, UF	3	n	
<b>TYPHACEAE</b>					
<i>Typha angustifolia</i> L.	OKL			n	
<b>ZANNICHELLIACEAE</b>					
<i>Zannichellia palustris</i> L.	OCLA			n	