

**Red River Botanical Survey; Cotton, Jefferson and Tillman
Counties: final report**

Submitted by

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The objective of this study was to develop plant lists for property owned by the Bureau of Land Management (BLM) along the Red River floodplain in southwest Oklahoma. Plants were collected from three BLM holdings (Table 1). At each site, one specimen was collected and prepared following standard herbarium procedures. Voucher specimens for each specimen and deposited at the Robert Bebb Herbarium at the University of Oklahoma. A total of 252 species were collected (Appendix 1). Only four of which were tracked by the Oklahoma Natural Heritage Inventory. None are federally listed as threatened or endangered.

Ecologically, all of the sites surveyed were considered to be old-fields. Although each site had an extensive grazing history, the cover of woody vegetation appears to have increased significantly. The vegetation of the Jefferson County site consisted of cottonwood dominated woodlands and sparsely vegetated sands. There was one slough at the site which harbored most of the wetland species collected. The cottonwood stand had a dense undergrowth of spiny aster. In total, 125 species were collected from this site.

Woody plant cover was greatest at the Cotton County site. Woody vegetation at was dominated by numerous species and was difficult to categorize. Nonetheless, the vegetation was typical of early successional bottomlands in south-central Oklahoma. One area of interest at this site was dominated by little bluestem grassland adjacent to the Red River. Bluestem plants at this site are widely spaced with several arenaceous species growing in between.

Much of the Tillman County site was also covered by woody vegetation. Areas of

herbaceous vegetation appeared to be heavily grazed. As a result, herbaceous communities at this site are very weedy in composition. Suttle Creek is an area of ecological interest at this site as well as the seeps which feed into it. Most of the wetland species encountered in this study were located there.

Table 1: Location of floristic sampling for the Bureau of Land Management project.

COUNTY	UTME	UTMN	Location	Township
Cotton	055490	3776697	Randlett; 3 miles south and 3 miles east on section line roads from intersection of Hwy 70 and Hwy 277/281.	T5S, R12W, sec. 13
Jefferson	058300	3777045	Waurika; southside of Hwy 79 bridge at the Red River crossing.	T5S, R9W, sec. 12
Tillman	050364	3786887	Davidson; 7 miles east of Hwy 70 from intersection with 183, 1.5 south on section line road.	T4S, R17W, sec. 11

Table 2: Plants collected for the BLM project which are tracked by the Oklahoma Natural Heritage Inventory. GRANK = global conservation rank, SRANK = state conservation rank. For additional information on the ONHI ranking system, visit www.biosurvey.ou.edu.

Specie Name	GRANK	SRANK	COUNTY
<i>Hymenopappus filifolius</i>	G5	S1S2	Cotton
<i>Abronia fragrans</i>	G5	S2S3	Tillman
<i>Cenchrus echinatus</i>	G5	S1	Tillman
<i>Vitis mustangensis</i>	G4?	S2S3	Cotton

Appendix 1: List of plant species found on Bureau of Land Management properties in Cotton, Jefferson, and Tillman counties. Each entry provides the species name, common name, habitat, and site where collected.

Aceraceae

Acer negundo L. boxelder
 Habitat: Oldfield on the Red River floodplain
 Locations: Cotton, Jefferson

Agavaceae

Yucca glauca Nutt. soapweed yucca
 Habitat: Oldfield on the Red River floodplain
 Locations: Cotton, Jefferson, Tillman

Alismataceae

Sagittaria brevirostra Mackenzie & Bush shortbeak arrowhead
 Habitat: Slough on the Red River floodplain
 Locations: Tillman

Amaranthaceae

Amaranthus rudis Sauer water hemp
 Habitat: Slough on the Red River floodplain
 Locations: Tillman

Anacardiaceae

Rhus trilobata Nutt. skunkbush sumac
 Habitat: Red sandstone outcrop
 Locations: Tillman

Apiaceae

Ammoselinum popei Torr. & Gray plains sandparsley
 Habitat: Oldfield on the Red River floodplain
 Locations: Jefferson

Chaerophyllum tainturieri Hook. hairyfruit chervil
 Habitat: Roadside and along red sandstone outcrop
 Locations: Jefferson, Tillman

Daucus pusillus Michx. American wild carrot
 Habitat: Oldfield on the Red River floodplain
 Locations: Tillman

Hydrocotyle verticillata Thunb. pennywort
 Habitat: Seep on the Red River floodplain
 Locations: Tillman

Sanicula canadensis L. snakeroot
 Habitat: Slough on the Red River floodplain
 Locations: Tillman

Apocynaceae

Apocynum cannabinum L. indianhemp
Habitat: Oldfield on the Red River floodplain
Locations: Cotton, Jefferson

Asclepiadaceae

Asclepias arenaria Torr. sand milkweed
Habitat: Oldfield on the Red River floodplain
Locations: Tillman

Asclepias viridis Walt. green antelopehorn
Habitat: Oldfield on the Red River floodplain
Locations: Cotton, Jefferson

Funastrum cynanchoides (Dcne.) Schlechter fringed twinevine
Habitat: Oldfield on the Red River floodplain
Locations: Cotton, Tillman

Asteraceae

Achillea millefolium L. yarrow
Habitat: Oldfields on the Red River floodplain
Locations: Cotton, Jefferson, Tillman

Ambrosia psilostachya DC. western ragweed
Habitat: Oldfield on the Red River floodplain
Locations: Cotton, Jefferson, Tillman

Amphiachyris dracunculoides (DC.) Nutt. prairie broomweed
Habitat: Oldfield on the Red River floodplain
Locations: Tillman

Aphanostephus ramosissimus DC. plains dozedaisy
Habitat: Bottomland forest on the Red River floodplain
Locations: Cotton, Jefferson, Tillman

Artemisia filifolia Torr. sand sagebrush
Habitat: Sandy oldfield on the Red River floodplain
Locations: Tillman

Aster subulatus Michx. saltmarsh aster
Habitat: Slough on the Red River floodplain
Locations: Jefferson, Tillman

Bidens frondosa L. beggars tick
Habitat: Slough on the Red River floodplain
Locations: Tillman

Chaetopappa ericoides (Torr.) Nesom rose heath
Habitat: Red sandstone outcrop
Locations: Tillman

Chloracantha spinosa (Benth.) Nesom spiny aster
Habitat: Oldfield on the Red River floodplain
Locations: Cotton, Jefferson, Tillman

<i>Cirsium undulatum</i> (Nutt.) Spreng. Habitat: Oldfield on the Red River floodplain Locations: Cotton, Jefferson, Tillman	wavyleaf thistle
<i>Conyza canadensis</i> (L.) Cronq. Habitat: Oldfield on the Red River floodplain Locations: Jefferson	horseweed
<i>Coreopsis tinctoria</i> Nutt. Habitat: Oldfield on the Red River floodplain Locations: Cotton	golden tickseed
<i>Croptilon divaricatum</i> (Nutt.) Raf. Habitat: Sandy oldfield on the Red River floodplain Locations: Cotton, Jefferson	slender scratchdaisy
<i>Eclipta prostrata</i> (L.) L. Habitat: Slough on the Red River floodplain Locations: Tillman	false daisy
<i>Engelmannia pinnatifida</i> Gray ex Nutt. Habitat: Red sandstone outcrop Locations: Tillman	Engelmann's daisy
<i>Erigeron strigosus</i> Muhl. ex Willd. Habitat: Oldfield on the Red River floodplain Locations: Cotton	prairie fleabane
<i>Eupatorium serotinum</i> Michx. Habitat: Oldfield on the Red River floodplain Locations: Jefferson, Tillman	thoroughwort
<i>Evax verna</i> Raf. Habitat: Red sandstone outcrop Locations: Tillman	rabbit tobacco
<i>Gaillardia pulchella</i> Foug. Habitat: Red sandstone outcrop Locations: Jefferson, Tillman	firewheel
<i>Gaillardia suavis</i> (Gray & Engelm.) Britt. & Rusby Habitat: Red sandstone outcrop Locations: Tillman	perfumeballs
<i>Grindelia papposa</i> Nesom & Suh Habitat: Oldfield on the Red River floodplain Locations: Jefferson, Tillman	Spanish gold
<i>Haplopappus spinulosus</i> (Pursh) DC. Habitat: Red sandstone outcrop Locations: Tillman	cutleaf ironplant
<i>Helianthus petiolaris</i> Nutt.	prairie sunflower

Habitat: Oldfield on the Red River floodplain Locations: Cotton, Jefferson, Tillman	
<i>Heterotheca subaxillaris</i> (Lam.) Britt. & Rusby Habitat: Oldfield on the Red River floodplain Locations: Jefferson	camphorweed
<i>Hymenopappus filifolius</i> Hook. Habitat: Oldfield on the Red River floodplain Locations: Cotton	old plainsman
<i>Hymenopappus flavescens</i> Gray Habitat: Red sandstone outcrop Locations: Tillman	collegeflower
<i>Hymenopappus tenuifolius</i> Pursh Habitat: Celtis-Ulmus gove on the Red River floodplain Locations: Tillman	hymenopappus
<i>Hymenoxys linearifolia</i> Hook. Habitat: Red sandstone outcrop Locations: Tillman	bitterweed
<i>Hymenoxys scaposa</i> (DC.) Parker Habitat: Red sandstone outcrop Locations: Tillman	bitterweed
<i>Iva annua</i> L. Habitat: Oldfield on the Red River floodplain Locations: Jefferson, Tillman	annual marshelder
<i>Liatris mucronata</i> DC. Habitat: Red sandstone outcrop Locations: Tillman	blazing star
<i>Pluchea odorata</i> (L.) Cass. Habitat: Slough on the Red River floodplain Locations: Jefferson, Tillman	sweetscent
<i>Pyrrhopappus carolinianus</i> (Walt.) DC. Habitat: Sandy oldfield on the Red River floodplain Locations: Jefferson	desert-chicory
<i>Pyrrhopappus grandiflorus</i> (Nutt.) Nutt. Habitat: Sandy oldfield on the Red River floodplain Locations: Tillman	false dandelion
<i>Rudbeckia hirta</i> L. Habitat: Oldfield on the Red River floodplain Locations: Jefferson	blackeyed Susan
<i>Solidago missouriensis</i> Nutt. Habitat: Oldfield on the Red River floodplain Locations: Tillman	Missouri goldenrod

<i>Sonchus asper</i> (L.) Hill Habitat: Oldfield on the Red River floodplain Locations: Cotton, Jefferson, Tillman	spiny sowthistle
<i>Thelesperma filifolium</i> (Hook.) Gray Habitat: Oldfield on the Red River floodplain Locations: Cotton, Jefferson, Tillman	stiff greenthread
<i>Thelesperma megapotamicum</i> (Spreng.) Kuntze Habitat: Roadside Locations: Jefferson, Tillman	greenthread
<i>Tragopogon dubius</i> Scop. Habitat: Sandy oldfield on the Red River floodplain Locations: Tillman	goats beard
<i>Xanthisma texanum</i> DC. Habitat: Oldfield on the Red River floodplain Locations: Jefferson, Tillman	Texas sleepydaisy
<i>Xanthium strumarium</i> L. Habitat: Oldfield on the Red River floodplain Locations: Cotton, Jefferson, Tillman	rough cocklebur

Boraginaceae

<i>Buglossoides arvensis</i> (L.) I.M. Johnston Habitat: Oldfield on the Red River floodplain Locations: Jefferson, Tillman	corn gromwell
<i>Heliotropium convolvulaceum</i> (Nutt.) Gray Habitat: Sandy oldfield on the Red River floodplain Locations: Cotton, Jefferson	phlox heliotrope
<i>Heliotropium curassavicum</i> L. Habitat: Sandbar on the Red River Locations: Tillman	salt heliotrope

Brassicaceae

<i>Camelina microcarpa</i> DC. Habitat: Oldfield on the Red River floodplain Locations: Cotton, Jefferson	littlepod false flax
<i>Capsella bursa-pastoris</i> (L.) Medik. Habitat: Oldfield on the Red River floodplain Locations: Cotton, Jefferson	shepherd's purse
<i>Descurainia pinnata</i> (Walt.) Britt. Habitat: Oldfield on the Red River floodplain Locations: Cotton, Jefferson, Tillman	tansymustard

<i>Dimorphocarpa candicans</i> (Raf.) Rollins Habitat: Sand dunes on the Red River floodplain Locations: Cotton, Jefferson	spectaclepod
<i>Erysimum repandum</i> L. Habitat: Sandy oldfield on the Red River floodplain Locations: Cotton	bushy wallflower
<i>Lepidium austrinum</i> Small Habitat: Roadside Locations: Jefferson	southern pepperwort
<i>Lepidium virginicum</i> L. Habitat: Oldfield on the Red River floodplain Locations: Cotton	Virginia pepperweed
<i>Lesquerella gordonii</i> (Gray) S. Wats. Habitat: Red sandstone outcrop Locations: Jefferson, Tillman	Gordon's bladderpod
<i>Nasturtium officinale</i> Ait. f. Habitat: In a seep located above Suttle Creek Locations: Tillman	watercress
Cactaceae <i>Opuntia leptocaulis</i> DC. Habitat: Red sandstone breaks along Red River Locations: Tillman	pencil cholla
Campanulaceae <i>Lobelia cardinalis</i> L. Habitat: Slough on the Red River floodplain Locations: Tillman	cardinalflower
<i>Triodanus perfoliata</i> (L.) Nieuw. Habitat: Sandy oldfield on the Red River floodplain Locations: Tillman	Venus looking-glass
Caryophyllaceae <i>Paronychia jamesii</i> Torr. & Gray Habitat: Red sandstone outcrop Locations: Tillman	James' nailwort
Caryophyllaceae <i>Stellaria media</i> (L.) Vill. Habitat: Bottomland forest on the Red River floodplain Locations: Tillman	common chickweed
Chenopodiaceae <i>Cycloloma atriplicifolium</i> (Spreng.) Coult. Habitat: Oldfield on the Red River floodplain	winged pigweed

Locations: Cotton, Jefferson, Tillman

Clusiaceae

Hypericum perforatum L.

Habitat: Oldfield on the Red River floodplain

Locations: Cotton

St. Johnswort

Cornaceae

Cornus drummondii C.A. Mey.

Habitat: Oldfield on the Red River floodplain

Locations: Cotton

roughleaf dogwood

Cucurbitaceae

Cucurbita foetidissima Kunth

Habitat: Sandy oldfield on the Red River floodplain

Locations: Cotton, Jefferson

Missouri gourd

Melothria pendula L.

Habitat: Oldfield on the Red River floodplain

Locations: Jefferson

creeping cucumber

Cupressaceae

Juniperus virginiana L.

Habitat: Sandy oldfield on the Red River floodplain

Locations: Cotton, Jefferson, Tillman

eastern redcedar

Cyperaceae

Carex brittoniana Bailey

Habitat: Populus deltoides woodland

Locations: Jefferson, Tillman

sedge

Carex crus-corvi Shuttlew. Ex Kunze

Habitat: Bottomland forest on the Red River floodplain

Locations: Jefferson

crowfoot sedge

Carex grisea Wahlenb.

Habitat: Oldfield on the Red River floodplain

Locations: Cotton

sedge

Carex hyalinolepis Steud.

Habitat: Populus deltoides woodland

Locations: Jefferson

shoreline sedge

Carex perdentata S.D. Jones

Habitat: Bottomland forest on the Red River floodplain

Locations: Tillman

sand sedge

Cyperus odoratus L.

Habitat: Sandy oldfield on the Red River floodplain

Locations: Tillman

fragrant flatsedge

Cyperus retroflexus Buckl.

Habitat: Slough on the Red River floodplain

Locations: Jefferson

oneflower flatsedge

<i>Cyperus setigerus</i> Torr. & Hook. Habitat: Sandy oldfield on the Red River floodplain Locations: Jefferson	lean flatsedge
<i>Eleocharis montevidensis</i> Kunth Habitat: Slough on the Red River floodplain Locations: Tillman	sand spikerush
<i>Fimbristylis vahlii</i> (Lam.) Link Habitat: Slough on the Red River floodplain Locations: Jefferson	Vahl's fimbry
<i>Fuirena simplex</i> Vahl Habitat: Slough on the Red River floodplain Locations: Tillman	umbrella-sedge
<i>Schoenoplectus americanus</i> (Pers.) Volk. ex Schinz & R. Keller Habitat: Slough on the Red River floodplain Locations: Cotton, Jefferson, Tillman	American bulrush

Euphorbiaceae

<i>Chamaesyce missurica</i> (Raf.) Shinnery Habitat: Oldfield on the Red River floodplain Locations: Cotton, Jefferson, Tillman	prairie sandmat
<i>Cnidocolus texanus</i> (Muell.-Arg.) Small Habitat: Oldfield on the Red River floodplain Locations: Cotton, Tillman	Texas bullnettle
<i>Croton texensis</i> (Klotzsch) Muell.-Arg. Habitat: Sandy oldfield on the Red River floodplain Locations: Tillman	Texas croton
<i>Euphorbia marginata</i> Pursh Habitat: Oldfield on the Red River floodplain Locations: Jefferson, Tillman	snow on the mountain
<i>Euphorbia spathulata</i> Lam. Habitat: Oldfield on the Red River floodplain Locations: Tillman	warty spurge
<i>Stillingia sylvatica</i> Garden ex L. Habitat: Red sandstone outcrop Locations: Tillman	queen's-delight

Fabaceae

<i>Amorpha fruticosa</i> L. Habitat: Oldfield on the Red River floodplain Locations: Cotton, Jefferson, Tillman	false indigo
<i>Astragalus lindheimeri</i> Engelm. ex Gray Habitat: Roadside Locations: Jefferson	Lindheimer's milkvetch

<i>Chamaecrista fasciculata</i> (Michx.) Greene Habitat: Sand dunes on the Red River floodplain Locations: Jefferson	sleepingplant
<i>Dalea candida</i> Michx. ex Willd. Habitat: Oldfield on the Red River floodplain Locations: Tillman	white prairie clover
<i>Dalea enneandra</i> Nutt. Habitat: Oldfield on the Red River floodplain Locations: Tillman	nineanther prairie clover
<i>Dalea lanata</i> Spreng. Habitat: Sand dunes on the Red River floodplain Locations: Cotton, Jefferson, Tillman	woolly prairie clover
<i>Dalea villosa</i> (Nutt.) Spreng. Habitat: Oldfield on the Red River floodplain Locations: Tillman	silky prairie clover
<i>Desmanthus illinoensis</i> (Michx.) MacM. ex B.L. Robins. & Fern. prairie bundleflower Habitat: Oldfield on the Red River floodplain Locations: Cotton, Jefferson, Tillman	
<i>Diomorphocarpa candicans</i> (Raf.) Rollins Habitat: Oldfield on the Red River floodplain Locations: Cotton, Jefferson	spectaclepod
<i>Gleditsia triacanthos</i> L. Habitat: Oldfield on the Red River floodplain Locations: Jefferson, Tillman	honeylocust
<i>Glycyrrhiza lepidota</i> Pursh Habitat: Oldfield on the Red River floodplain Locations: Cotton, Jefferson, Tillman	wild licorice
<i>Hoffmannseggia glauca</i> (Ortega) Eifert Habitat: Oldfield on the Red River floodplain Locations: Jefferson	rushpea
<i>Indigofera miniata</i> Ortega Habitat: Sand dunes on the Red River floodplain Locations: Cotton, Jefferson, Tillman	coastal indigo
<i>Melilotus officinalis</i> (L.) Lam. Habitat: Oldfield on the Red River floodplain Locations: Cotton, Jefferson, Tillman	sweetclover
<i>Mimosa nuttalli</i> (D.C.) B. L. Turner Habitat: Oldfield on the Red River floodplain Locations: Tillman	sensitive brier
<i>Prosopis glandulosa</i> Torr.	honey mesquite

Habitat: Red sandstone outcrop Locations: Jefferson, Tillman	
<i>Trifolium dubium</i> Sibthorp Habitat: Roadside Locations: Jefferson	suckling clover
<i>Vicia sativa</i> L. Habitat: Margins of a small slough along Suttle Creek Locations: Jefferson, Tillman	garden vetch
Fumariaceae <i>Corydalis curvisiliqua</i> Engelm. Habitat: Oldfield on the Red River floodplain Locations: Cotton	curvepod fumewort
Gentianaceae <i>Eustoma exaltatum</i> (L.) Salisb. ex G. Don Habitat: Slough on the Red River floodplain Locations: Cotton, Jefferson, Tillman	prairie gentian
<i>Sabatia campestris</i> Nutt. Habitat: Sand dunes on the Red River floodplain Locations: Jefferson	Texas star
Geraniaceae <i>Erodium cicutarium</i> (L.) L'Hér. ex Ait. Habitat: Oldfield on the Red River floodplain Locations: Cotton, Tillman	redstem stork's bill
Hydrophyllaceae <i>Nama hispidum</i> Gray Habitat: Oldfield on the Red River floodplain Locations: Jefferson, Tillman	bristly nama
Iridaceae <i>Sisyrinchium angustifolium</i> P. Mill. Habitat: Populus deltoides woodland Locations: Jefferson	blue-eyed grass
Juglandaceae <i>Carya illinoensis</i> (Wangenh.) K. Koch Habitat: Oldfield on the Red River floodplain Locations: Cotton, Jefferson	pecan
Juncaceae <i>Juncus torreyi</i> Cov. Habitat: Slough on the Red River floodplain Locations: Tillman	Torrey's rush
Krameriaceae <i>Krameria lanceolata</i> Torr. Habitat: Red sandstone outcrop Locations: Tillman	trailing krameria

Lamiaceae

Lamium amplexicaule L.

Habitat: Bottomland forest on the Red River floodplain

Locations: Cotton, Tillman

henbit

Monarda clinopodioides A. Gray

Habitat: Oldfield on the Red River floodplain

Locations: Tillman

beebalm

Teucrium canadense L.

Habitat: Oldfield on the Red River floodplain

Locations: Cotton, Jefferson, Tillman

wood germander

Teucrium laciniatum Torr.

Habitat: Red sandstone outcrop

Locations: Tillman

cutleaf germander

Liliaceae

Allium canadense L.

Habitat: Red sandstone outcrop

Locations: Tillman

wild onion

Linaceae

Linum lewisii Pursh

Habitat: Red sandstone outcrop

Locations: Tillman

prairie flax

Loasaceae

Mentzelia nuda (Pursh) Torr. & Gray

Habitat: Oldfield on the Red River floodplain

Locations: Tillman

bractless blazingstar

Lythraceae

Lythrum alatum Pursh

Habitat: Oldfield on the Red River floodplain

Locations: Cotton, Jefferson

winged lythrum

Malvaceae

Callirhoe involucrata Nutt.

Habitat: Bottomland forest on the Red River floodplain

Locations: Tillman

poppymallow

Menispermaceae

Cocculus carolinus (L.) DC.

Habitat: Oldfield on the Red River floodplain

Locations: Tillman

snailseed

Moraceae

Maclura pomifera (Raf.) Schneid.

Habitat: Oldfield on the Red River floodplain

Locations: Jefferson, Tillman

osage orange

<i>Morus alba</i> L. Habitat: Oldfield on the Red River floodplain Locations: Cotton, Tillman	white mulberry
Nyctaginaceae	
<i>Abronia fragrans</i> Nutt. ex Hook. Habitat: Red sandstone outcrop Locations: Tillman	sand verbena
<i>Mirabilis albida</i> (Walt.) Heimerl Habitat: Oldfield on the Red River floodplain Locations: Tillman	white four o'clock
Oleaceae	
<i>Fraxinus pennsylvanica</i> Marsh. Habitat: Oldfield on the Red River floodplain Locations: Jefferson	green ash
Onagraceae	
<i>Calylophus serrulatus</i> (Nutt.) Raven Habitat: Red sandstone outcrop Locations: Tillman	yellow sundrops
<i>Gaura coccinea</i> Nutt. ex Pursh Habitat: Red sandstone outcrop Locations: Tillman	scarlet beeblossom
<i>Gaura villosa</i> Torr. Habitat: Oldfield on the Red River floodplain Locations: Cotton, Jefferson, Tillman	woolly beeblossom
<i>Ludwigia repens</i> Forst. Habitat: Slough on the Red River floodplain Locations: Tillman	seedbox
<i>Oenothera biennis</i> L. Habitat: Roadside Locations: Cotton, Jefferson	evening-primrose
<i>Oenothera grandis</i> (Britt.) Smyth primrose Habitat: Oldfield on the Red River floodplain Locations: Cotton, Jefferson, Tillman	showy evening-
<i>Oenothera rhombipetala</i> Nutt. ex Torr. & Gray Habitat: Sandy oldfield on the Red River floodplain Locations: Jefferson, Tillman	fourpoint evening-primrose
<i>Stenosiphon linifolius</i> (Nutt. ex James) Heynh. Habitat: Red sandstone outcrop Locations: Tillman	false gaura
Oxalidaceae	
<i>Oxalis stricta</i> L. Habitat: Oldfield on the Red River floodplain	common yellow oxalis

Locations: Cotton, Jefferson

Papaveraceae

Argemone polyanthemos (Fedde) G.B. Ownbey crested pricklypoppy
Habitat: Oldfield on the Red River floodplain
Locations: Cotton, Jefferson, Tillman

Phytolaccaceae

Phytolacca americana L. American pokeweed
Habitat: Oldfield on the Red River floodplain
Locations: Jefferson

Plantaginaceae

Plantago rhodosperma Dcne. redseed plantain
Habitat: Red sandstone outcrop
Locations: Cotton, Tillman

Poaceae

Andropogon gerardii Vitman big bluestem
Habitat: Sandy oldfield on the Red River floodplain
Locations: Cotton, Jefferson, Tillman

Andropogon glomeratus (Walt.) B.S.P. bush bluestem
Habitat: Slough on the Red River floodplain
Locations: Tillman

Aristida purpurascens Poir. arrowfeather threeawn
Habitat: Oldfield on the Red River floodplain
Locations: Tillman

Aristida purpurea Nutt. purple threeawn
Habitat: Oldfield on the Red River floodplain
Locations: Cotton, Tillman

Arundo donax L. giant reed
Habitat: Sand dunes on the Red River floodplain
Locations: Cotton, Jefferson

Bothriochloa saccharoides (Sw.) Rydb. silver bluestem
Habitat: Oldfield on the Red River floodplain
Locations: Cotton, Jefferson

Bouteloua curtipendula (Michx.) Torr. sideoats grama
Habitat: Red sandstone outcrop
Locations: Tillman

Bouteloua rigidisetata (Steud.) A.S. Hitchc. Texas grama
Habitat: Red sandstone outcrop
Locations: Tillman

Bromus catharticus Vahl rescuegrass
Habitat: Populus deltoides woodland
Locations: Cotton, Jefferson, Tillman

<i>Bromus tectorum</i> L. Habitat: Oldfield on the Red River floodplain Locations: Cotton, Jefferson	cheatgrass
<i>Buchloe dactyloides</i> (Nutt.) Engelm. Habitat: Oldfield on the Red River floodplain Locations: Cotton, Jefferson	buffalograss
<i>Cenchrus echinatus</i> L. Habitat: Oldfield on the Red River floodplain Locations: Jefferson, Tillman	southern sandbur
<i>Chloris cucullata</i> Bisch. Habitat: Red sandstone outcrop Locations: Cotton, Tillman	hooded windmill grass
<i>Chloris verticillata</i> Nutt. Habitat: Oldfield on the Red River floodplain Locations: Cotton	windmill grass
<i>Cynodon dactylon</i> (L.) Pers. Habitat: Oldfield on the Red River floodplain Locations: Cotton, Jefferson, Tillman	Bermudagrass
<i>Digitaria sanguinalis</i> (L.) Scop. Habitat: Oldfield on the Red River floodplain Locations: Tillman	hairy crabgrass
<i>Distichlis spicata</i> (L.) Greene Habitat: Oldfield on the Red River floodplain Locations: Tillman	saltgrass
<i>Echinochloa colona</i> (L.) Link Habitat: Slough on the Red River floodplain Locations: Tillman	jungle rice
<i>Echinochloa crus-galli</i> (L.) Beauv. Habitat: Slough on the Red River floodplain Locations: Jefferson, Tillman	barnyardgrass
<i>Elymus virginicus</i> L. Habitat: Bottomland forest on the Red River floodplain Locations: Tillman	Virginia wildrye
<i>Eragrostis cilianensis</i> (All.) E. Mosher Habitat: Oldfield on the Red River floodplain Locations: Tillman	stinkgrass
<i>Eragrostis hirsuta</i> (Michx.) Nees Habitat: Oldfield on the Red River floodplain Locations: Jefferson, Tillman	bigtop lovegrass
<i>Eragrostis secundiflora</i> Presl. Habitat: Oldfield on the Red River floodplain	red lovegrass

Locations: Jefferson

<i>Erioneuron pilosum</i> (Buckl.) Nash Habitat: Red sandstone breaks along Red River Locations: Tillman	hairy woollygrass
<i>Hordeum pusillum</i> Nutt. Habitat: Roadside Locations: Jefferson, Tillman	little barley
<i>Leersia oryzoides</i> (L.) Sw. Habitat: Slough on the Red River floodplain Locations: Tillman	rice cutgrass
<i>Leptochloa fusca</i> (L.) Kunth Habitat: Slough on the Red River floodplain Locations: Cotton, Jefferson	Mexican sprangletop
<i>Nassella leucotricha</i> (Trin. & Rupr.) Phol Habitat: Oldfield on the Red River floodplain Locations: Tillman	needle and thread
<i>Panicum obtusum</i> Kunth Habitat: Oldfield on the Red River floodplain Locations: Cotton	vine mesquite
<i>Panicum virgatum</i> L. Habitat: Sandy oldfield on the Red River floodplain Locations: Cotton, Jefferson, Tillman	switchgrass
<i>Paspalum setaceum</i> Michx. Habitat: Oldfield on the Red River floodplain Locations: Tillman	thin paspalum
<i>Phalaris caroliniana</i> Walt. Habitat: Margins of a small slough along Suttle Creek Locations: Tillman	Carolina canarygrass
<i>Poa annua</i> L. Habitat: Red sandstone outcrop Locations: Tillman	annual bluegrass
<i>Poa arachnifera</i> Torr. Habitat: Margins of a small slough along Suttle Creek Locations: Jefferson, Tillman	Texas bluegrass
<i>Polypogon monspeliensis</i> (L.) Desf. Habitat: Oldfield on the Red River floodplain Locations: Jefferson, Tillman	rabbitsfoot grass
<i>Saccharum giganteum</i> (Walt.) Pers. Habitat: Sand dunes on the Red River floodplain Locations: Cotton, Jefferson	sugarcane plumegrass
<i>Setaria glauca</i> (L.) Beauv.	foxtail

Habitat: Sandy oldfield on the Red River floodplain
Locations: Tillman

Setaria parviflora (Poir.) Kerguélen marsh bristlegrass
Habitat: Oldfield on the Red River floodplain
Locations: Cotton, Tillman

Setaria viridis (L.) Beauv. green foxtail
Habitat: Oldfield on the Red River floodplain
Locations: Tillman

Sorghastrum nutans (L.) Nash Indiangrass
Habitat: Sandy oldfield on the Red River floodplain
Locations: Tillman

Sorghum halepense (L.) Pers. Johnsongrass
Habitat: Oldfield on the Red River floodplain
Locations: Cotton, Jefferson, Tillman

Sphenopholis obtusata (Michx.) Scribn. prairie wedgescale
Habitat: Oldfield on the Red River floodplain
Locations: Cotton, Jefferson

Sporobolus cryptandrus (Torr.) Gray sand dropseed
Habitat: Oldfield on the Red River floodplain
Locations: Jefferson, Tillman

Tridens albescens (Vasey) Woot. & Standl. white tridens
Habitat: Oldfield on the Red River floodplain
Locations: Cotton, Tillman

Triplasis purpurea (Walt.) Chapm. purple sandgrass
Habitat: Red sandstone outcrop
Locations: Tillman

Vulpia octoflora (Walt.) Rydb. sixweeks fescue
Habitat: Red sandstone outcrop
Locations: Cotton, Tillman

Polygalaceae

Polygala alba Nutt. white milkwort
Habitat: Red sandstone outcrop
Locations: Tillman

Polygonaceae

Eriogonum annuum Nutt. annual buckwheat
Habitat: Sandy oldfield on the Red River floodplain
Locations: Cotton, Jefferson, Tillman

Polygonum hydropiperoides Michx. swamp smartweed
Habitat: Slough on the Red River floodplain
Locations: Tillman

Rumex altissimus Wood pale dock

Habitat: Populus deltoides woodland
Locations: Cotton, Jefferson

Rumex crispus L. curly dock
Habitat: Seep on the Red River floodplain
Locations: Jefferson

Primulaceae

Samolus ebracteatus Kunth brookweed
Habitat: Seep on the Red River floodplain
Locations: Jefferson, Tillman

Samolus valerandi L. seaside brookweed
Habitat: Seep on the Red River floodplain
Locations: Tillman

Ranunculaceae

Anemone caroliniana Walt. Carolina anemone
Habitat: Bottomland forest on the Red River floodplain
Locations: Tillman

Ranunculus sceleratus L. cursed buttercup
Habitat: Slough on the Red River floodplain
Locations: Tillman

Rhamnaceae

Ziziphus obtusifolia (Hook. ex Torr. & Gray) Gray lotebush
Habitat: Red sandstone outcrop
Locations: Tillman

Rosaceae

Crataegus viridis L. green hawthorn
Habitat: Populus deltoides woodland
Locations: Cotton, Jefferson

Prunus angustifolia Marsh. Chickasaw plum
Habitat: Oldfield on the Red River floodplain
Locations: Cotton, Jefferson, Tillman

Rubus trivialis Michx. dewberry
Habitat: Oldfield on the Red River floodplain
Locations: Cotton, Tillman

Rubiaceae

Cephalanthus occidentalis L. buttonbush
Habitat: Slough on the Red River floodplain
Locations: Cotton, Tillman

Galium aparine L. stickywilly
Habitat: Bottomland forest on the Red River floodplain
Locations: Jefferson, Tillman

Hedyotis nigricans (Lam.) Fosberg diamondflowers

Habitat: Red sandstone outcrop
Locations: Tillman

Rutaceae

Zanthoxylum hirsutum Buckl. Texas Hercules' club
Habitat: Oldfield on the Red River floodplain
Locations: Cotton, Tillman

Salicaceae

Populus deltoides Bartr. ex Marsh. eastern cottonwood
Habitat: Oldfield on the Red River floodplain
Locations: Cotton, Jefferson, Tillman

Salix exigua Nutt. sandbar willow
Habitat: Slough on the Red River floodplain
Locations: Cotton, Jefferson, Tillman

Salix nigra Marsh. black willow
Habitat: Oldfield on the Red River floodplain
Locations: Cotton, Tillman

Sapindaceae

Cardiospermum halicacabum L. love in a puff
Habitat: Oldfield on the Red River floodplain
Locations: Tillman

Sapindus saponaria L. soapberry
Habitat: Oldfield on the Red River floodplain
Locations: Cotton, Jefferson, Tillman

Sapotaceae

Sideroxylon lanuginosum Michx. gum bully
Habitat: Sandy oldfield on the Red River floodplain
Locations: Cotton, Jefferson, Tillman

Scrophulariaceae

Castilleja indivisa Engelm. Indian paintbrush
Habitat: Oldfield on the Red River floodplain
Locations: Cotton, Jefferson

Veronica anagallis-aquatica L. water speedwell
Habitat: Margins of a small slough along Suttle Creek
Locations: Tillman

Veronica arvensis L. speedwell
Habitat: Oldfield on the Red River floodplain
Locations: Jefferson

Veronica peregrina L. purslane speedwell
Habitat: Oldfield on the Red River floodplain
Locations: Tillman

Smilacaceae

Smilax bona-nox L. saw greenbrier

Habitat: Oldfield on the Red River floodplain
Locations: Cotton, Tillman

Solanaceae

Physalis longifolia Nutt. longleaf groundcherry

Habitat: Oldfield on the Red River floodplain
Locations: Tillman

Physalis virginiana P. Mill. Virginia groundcherry

Habitat: Sand dunes on the Red River floodplain
Locations: Jefferson

Solanum dimidiatum Raf. western horsenettle

Habitat: Bottomland forest on the Red River floodplain
Locations: Jefferson, Tillman

Solanum elaeagnifolium Cav. silverleaf nightshade

Habitat: Oldfield on the Red River floodplain
Locations: Jefferson, Tillman

Solanum rostratum Dunal buffalobur nightshade

Habitat: Oldfield on the Red River floodplain
Locations: Tillman

Solanum torreyi A. Gray horsenettle

Habitat: Oldfield on the Red River floodplain
Locations: Cotton

Tamaricaceae

Tamarix chinensis Lour. fivestamen tamarisk

Habitat: Sand dunes along the Red River
Locations: Cotton, Jefferson, Tillman

Typhaceae

Typha domingensis Pers. southern cattail

Habitat: Slough on the Red River floodplain
Locations: Tillman

Ulmaceae

Celtis laevigata Willd. sugarberry

Habitat: Sandy oldfield on the Red River floodplain
Locations: Cotton, Jefferson, Tillman

Celtis tenuifolia Nutt. dwarf hackberry

Habitat: Red sandstone outcrop
Locations: Tillman

Ulmus americana L. American elm

Habitat: Oldfield on the Red River floodplain
Locations: Tillman

Ulmus rubra Muhl. slippery elm

Habitat: Sandy oldfield on the Red River floodplain
Locations: Cotton, Jefferson

Urticaceae

Parietaria pennsylvanica Muhl. ex Willd. Pennsylvania pellitory
Habitat: Bottomland forest on the Red River floodplain
Locations: Tillman

Valerianaceae

Valerianella radiata (L.) Dufr. beaked cornsalad
Habitat: Red sandstone outcrop
Locations: Tillman

Verbenaceae

Lippia nodiflora (L.) Michx. frogfruit
Habitat: Oldfield on the Red River floodplain
Locations: Cotton, Jefferson, Tillman

Lippia lanceolata (Michx.) Greene lanceleaf fogfruit
Habitat: In a seep located above Suttle Creek
Locations: Tillman

Verbena bipinnatifida Nutt. vervain
Habitat: Red sandstone outcrop
Locations: Tillman

Verbena plicata Greene fanleaf vervain
Habitat: Red sandstone outcrop
Locations: Tillman

Viscaceae

Phoradendron tomentosum (DC.) Engelm. ex Gray Christmas mistletoe
Habitat: Red sandstone breaks along Red River. Growing on *Ulmus rubra*.
Locations: Cotton, Tillman

Vitaceae

Ampelopsis cordata Michx. heartleaf peppervine
Habitat: Oldfield on the Red River floodplain
Locations: Cotton, Jefferson, Tillman

Cissus incisa auct. non Des Moulins Possum grape
Habitat: Oldfield on the Red River floodplain
Locations: Cotton, Jefferson, Tillman

Parthenocissus quinquefolia (L.) Planch. Virginia creeper
Habitat: Oldfield on the Red River floodplain
Locations: Cotton, Jefferson, Tillman

Vitis acerifolia Raf. mapleleaf grape
Habitat: Oldfield on the Red River floodplain
Locations: Cotton, Jefferson, Tillman

Vitis cinerea (Engelm.) Millard graybark grape
Habitat: Oldfield on the Red River floodplain
Locations: Jefferson

Vitis mustangensis Buckl.

Habitat: Oldfield on the Red River floodplain

Locations: Cotton

mustang grape

Vitis riparia Michx.

Habitat: Oldfield on the Red River floodplain

Locations: Tillman

frost grape

Zannichelliaceae

Zannichellia palustris L.

Habitat: In a small slough along Suttle Creek

Locations: Tillman

horned pondweed