

2015

Russell

NPAT MONITORING FORM

Name of Property Owner: George Russell

Location: 30.841830, -95.245272 (NAD83); east of the intersection of FM 980 and FM 135 and 20369 Bay Hill Dr. Huntsville, TX 77320

Mailing Address of Property Owner: 1401 19th Street, Huntsville, TX 77340

Acreage: 630 ac. and 201 ac.

CHECKLIST

1. Documents consulted prior to visit: 2014 Monitoring Report
2. Property owner notified of visit/date: Yes, 12/8/15
3. New aerial photos taken: Yes, 2014 NAIP imagery used; See Exhibit A – Property Map
4. New photos taken: See Exhibit B – Photo Point Photographs, Exhibit C – Additional Photographs
5. Prominent prairie plants seen: See Exhibit D – Flora List; No additions made to the list
6. Exotic plants seen-estimate of total coverage: See exhibit D – Vegetation Species List for exotic species noted during the 2015 monitoring visit and on previous visits.
7. Note any woody invasion: See exhibit D – Vegetation Species List for woody species noted during the 2015 monitoring visit and on previous visits.
8. RDM (Residual Dry Matter-indicator of soil erosion): varies depending on location
9. Note previous annual weather conditions with recommendations: Draught conditions persisted during 2015; Continue removal of understory of wooded areas and removal of trees from grassland areas.
10. Note changes to management of property-including: programs, cutting-height-time-frequency of cut, grazing (location-frequency-numbers-type of animals),

fertilizers or chemicals added, irrigation, fire, hunting, etc.: Mr. Russell and his crew have been actively removing the understory vegetation in wooded areas using controlled burning in many areas in the southern conservation easement. The removal of the understory vegetation has allowed the grasses and forbs to move into these once densely covered areas. Mr. Russell has also spread gravel on many of the roads in the southern easement to prevent his vehicles from getting stuck in wet conditions and to reduce erosion and rutting (See Photo Point #3 photographs for examples of the gravel roads).

11. Note encroachments to easement of any kind-including: fixtures, buildings, roads, and use: No encroachments noted during visit or during discussion with Mr. Russell.
12. Recommendations for management: Continue removal of understory of wooded areas and removal of trees from open grassland areas using fire and mechanical means.
13. Actions taken on visit: none
14. Note whether property owner accompanied the visit and/or nature of interaction with property owner or other parties: Mr. Russell accompanied Phillip Quast on the visit to the Russell Preserve.
15. Map attached outlining observations/points: See Exhibit A – Property Map

Signed by Monitor-including date

Phillip Quast 3/25/16

Signed by Executive Director

[Signature] 3/29/16

Signed by Board Member

Kirsti Harris, President

- Exhibit A – Property Map
- Exhibit B – Photo Point Photographs
- Exhibit C – Additional Photographs
- Exhibit D – Flora List

Exhibit A – Property Map




Native Prairies
Association of Texas
415 N Guadalupe Street PMB 385
San Marcos, TX 78666

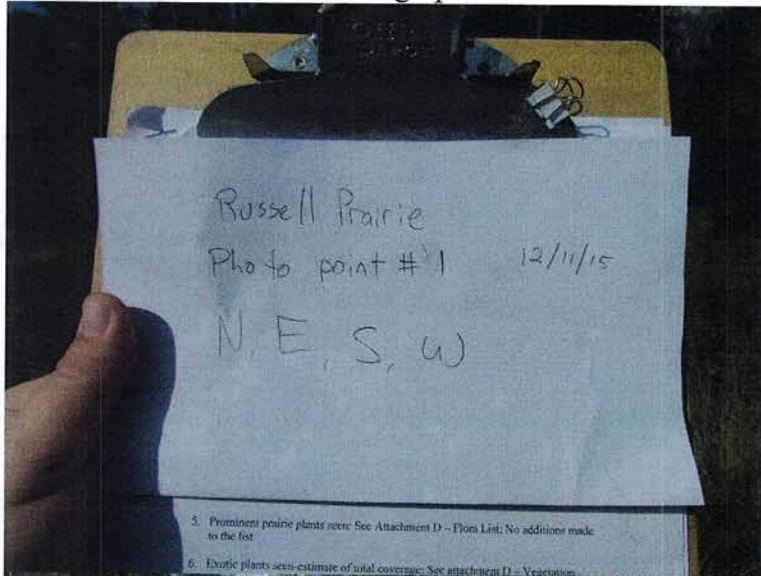
Legend

- Photo Points
- Roadways
- Conservation Easement Boundary

Native Prairies Association of Texas, 2016
For Reference Only
Data: TNRIS, TxDOT, NPAT

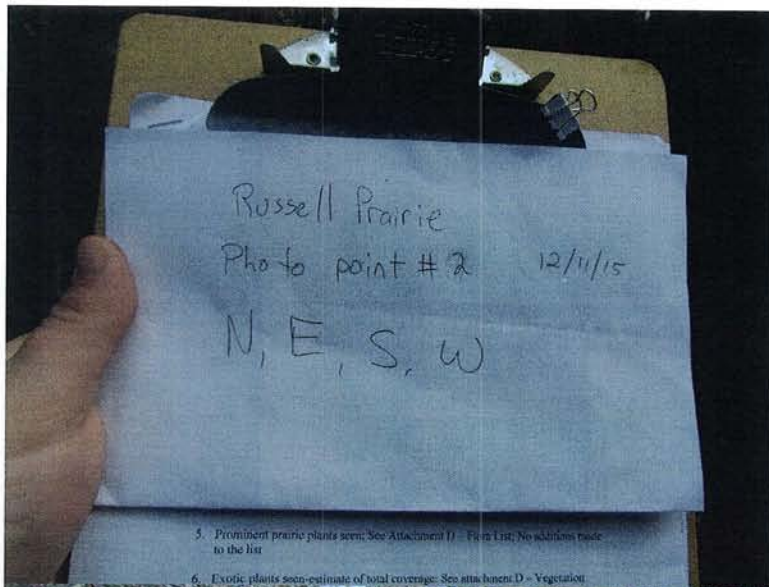


Exhibit B – Photo Point Photographs









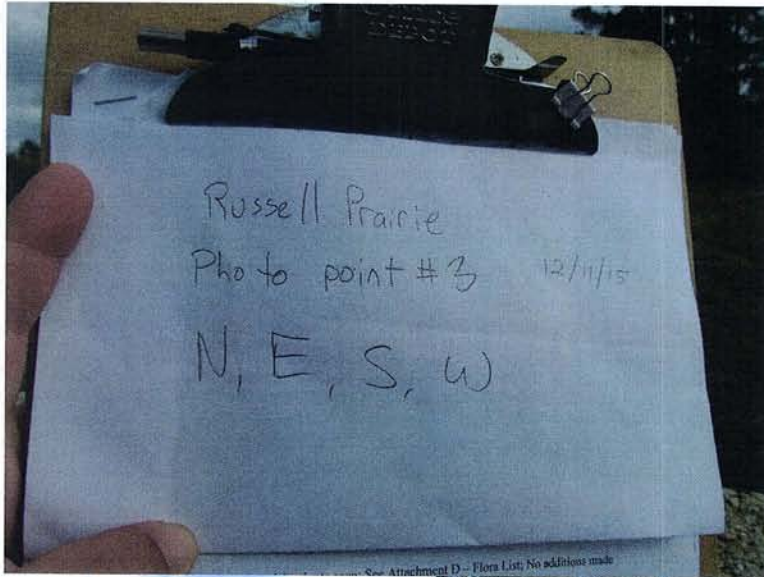
5. Prominent prairie plants seen; See Attachment D - Plant List; No additions made to the list

6. Exotic plants seen-estimate of total coverage: See attachment D - Vegetation



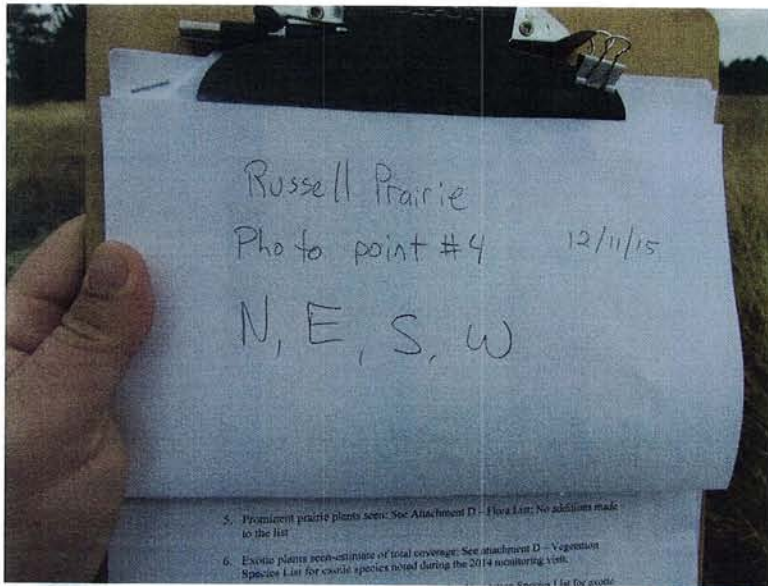






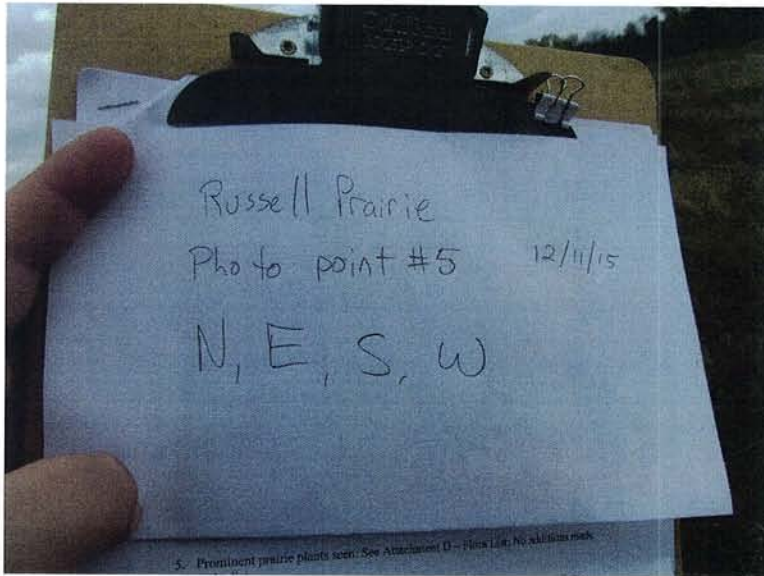






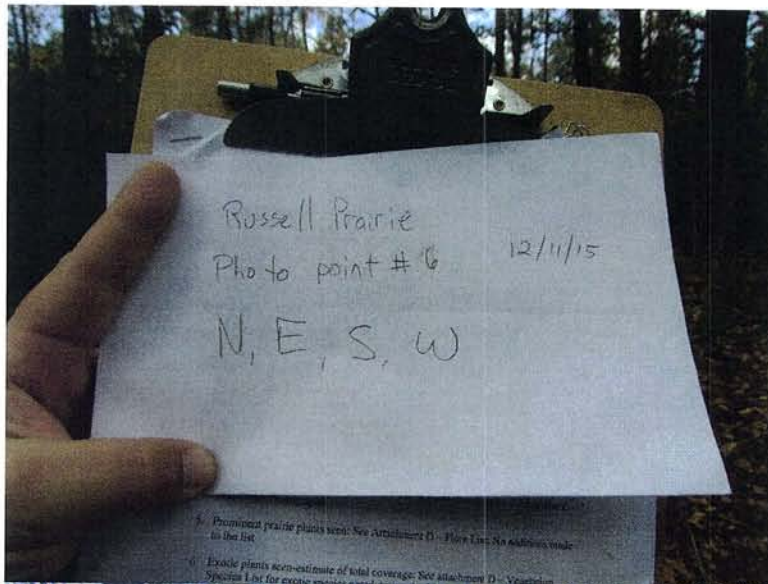






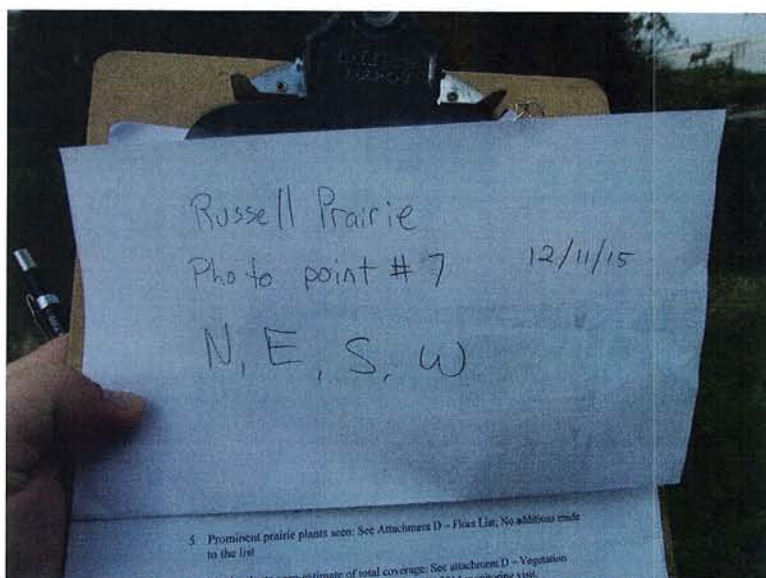












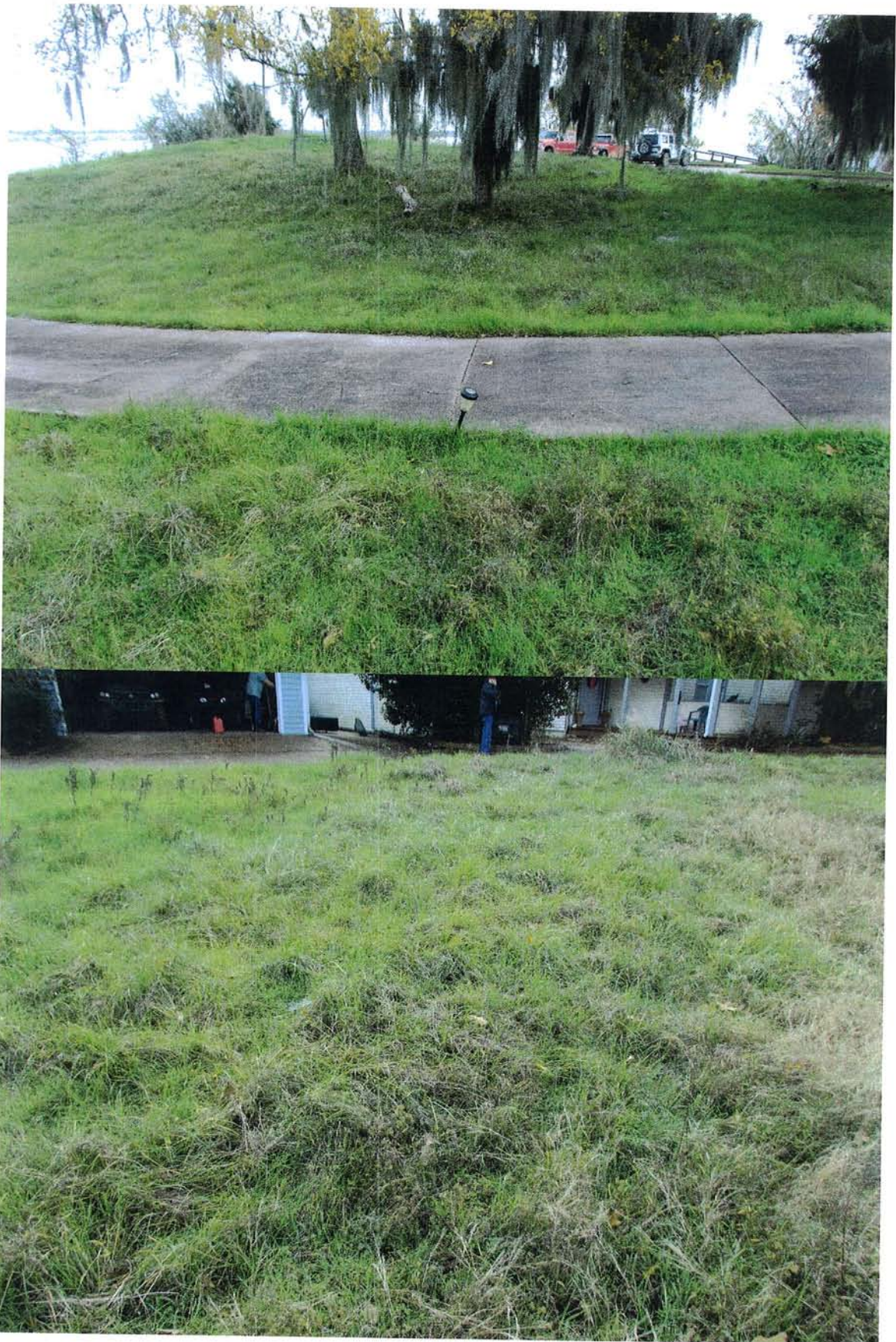




Exhibit C – Additional Photographs



Fire containment vehicle used during controlled burns



Fungus near photo point #2



Fungus near photo point #2

Exhibit D – Flora List

Family	Botanic name	Abundance	G rank	S rank	Botanist	Notes
Acanthaceae	Hygrophila lacustris	Occasional			K	
Acanthaceae	Justicia ovata	Uncommon			K	
Acanthaceae	Ruellia humilis	Common			K&S	
Acanthaceae	Ruellia nudiflora	Uncommon			K	
Acanthaceae	Ruellia pedunculata	Occasional			K	
Aceraceae	Acer rubrum	Occasional			K	
Aceraceae	Acer saccharum subsp. floridanum				S	
Agavaceae	Manfreda virginica				S	
Aiozaceae	Molluga verticillata	Occasional			K	
Alismataceae	Echinodorus cordifolius	Occasional			K	
Alismataceae	Sagittaria papillosa	Rare			K	
Alismataceae	Sagittaria platyphylla	Uncommon			K	
Alliaceae	Allium canadense var. canadense	Occasional			K	
Alliaceae	Allium canadense var. mobile	Occasional			K	
Amaranthaceae	Alternanthera philoxeroides	Common			K	
Amaryllidaceae	Hymenocallis lirioides	Uncommon			K	
Anacardiaceae	Rhus aromatica	Uncommon			K	
Anacardiaceae	Rhus copallinum	Occasional			K&S	
Anacardiaceae	Toxicodendron radicans	Frequent			K&S	
Apiaceae	Bifora americana	Common			K	
Apiaceae	Centella erecta	Uncommon			K	
Apiaceae	Chaerophyllum tainturieri	Uncommon			K	
Apiaceae	Cicuta maculatum	Uncommon			K	
Apiaceae	Cynoscium digitatum	Uncommon			K	
Apiaceae	Daucus pusillus				S	
Apiaceae	Hydrocotyle verticillata	Occasional			K	
Apiaceae	Limnoscium pinnatum				S	
Apiaceae	Polytaenia nuttallii	Frequent			K&S	

Apiaceae	Ptilimnium nuttallii	Common			K
Apiaceae	Spermolepis echinata				S
Apiaceae	Spermolepis inermis	Common			K
Apiaceae	Torilis arvensis	Occasional			K
Apocynaceae	Apocynum cannabinum	Occasional			K&S
Aquifoliaceae	Ilex americana	Common			K
Aquifoliaceae	Ilex decidua	Common			K&S
Aquifoliaceae	Ilex vomitoria	Abundant			K&S
Araceae	Arisaema dracontium	Rare			K
Araceae	Arisaema triphyllum	Rare			K
Araceae	Colcasia esculenta	Uncommon			K
Araceae	Pistia stratiotes	Uncommon			K
Araliaceae	Aralia spinosa	Occasional			K
Areaceae	Sabal minor	Common			K&S
Asclepiadaceae	Asclepias asperula				S
Asclepiadaceae	Asclepias obovata				S
Asclepiadaceae	Asclepias tuberosa	Occasional			K
Asclepiadaceae	Asclepias viridiflora	Uncommon			K&S
Asclepiadaceae	Asclepias viridis	Common			K&S
Asclepiadaceae	Matelea decipiens	Uncommon			K
Asclepiadaceae	Matelea gonocarpa	Uncommon			K
Aspleniaceae	Asplenium platyneuron	Common			K
Asteraceae	Ambrosia artemisiifolia				S
Asteraceae	Ambrosia psilostachya	Common			K
Asteraceae	Ambrosia trifida	Common			K
Asteraceae	Arnoglossum plantagineum				S
Asteraceae	Aster drummondii	Abundant			K
Asteraceae	Aster ericoides (Keith 43)	Uncommon			K
Asteraceae	Aster paludosus	Rare			K
Asteraceae	Aster patens	Common			K
Asteraceae	Aster subulatus	Uncommon			K
Asteraceae	Baccharis halimifolia	Occasional			K&S

Asteraceae	Berlandiera pumila	Uncommon			K&S
Asteraceae	Bidens bipinnata	Occasional			K
Asteraceae	Bigelovia nuttallii	Uncommon			K&S
Asteraceae	Boltonia diffusa	Common			K
Asteraceae	Brickellia eupatorioides	Uncommon			K&S
Asteraceae	Cacalia plantaginea	Common			K
Asteraceae	Chaetopappa asteroides (Keith 39)	Uncommon			K
Asteraceae	Chrysopsis pilosa	Uncommon			K
Asteraceae	Chrysopsis texana	Uncommon			K
Asteraceae	Cirsium carolinianum	Rare			K
Asteraceae	Cirsium horridulum	Uncommon			K
Asteraceae	Cirsium texanum				S
Asteraceae	Conyza canadensis	Uncommon			K
Asteraceae	Coreopsis basalis	Uncommon			K
Asteraceae	Coreopsis lanceolata	Uncommon			K
Asteraceae	Croptilon divaricata	Uncommon			K
Asteraceae	Dracopsis amplexicaulis	Uncommon			K
Asteraceae	Echinacea atrorubens				S
Asteraceae	Echinacea pallida	Uncommon			K
Asteraceae	Echinacea sanguinea	Occasional			K
Asteraceae	Eclipta prostrata	Occasional			K
Asteraceae	Elephantopus carolinianus	Uncommon			K
Asteraceae	Elephantopus nudatus	Occasional			K
Asteraceae	Elephantopus tomentosus	Occasional			K
Asteraceae	Englemannia peristenia	Uncommon			K&S
Asteraceae	Erigeron strigosus	Occasional			K&S
Asteraceae	Erigeron tenuis	Occasional			K
Asteraceae	Eupatorium capillifolium	Uncommon			K&S
Asteraceae	Eupatorium coelestinum	Common			K
Asteraceae	Eupatorium semiserratum	Occasional			K
Asteraceae	Eupatorium serotinum	Occasional			K&S
Asteraceae	Euthamia leptocephala	Occasional			K&S

Asteraceae	<i>Evax candida</i>	Occasional			K	
Asteraceae	<i>Facelis retusa</i>	Uncommon			K	
Asteraceae	<i>Gaillardia aestivalis</i> var. <i>flavovirens</i>				S	
Asteraceae	<i>Gaillardia pulchella</i>	Uncommon			K	
Asteraceae	<i>Grindelia lanceolata</i>	Uncommon			K&S	
Asteraceae	<i>Gutierrezia dranunculoides</i>	Occasional			K	
Asteraceae	<i>Helenium amarum</i>	Occasional			K	
Asteraceae	<i>Helenium flexuosum</i>	Occasional			K	
Asteraceae	<i>Helianthus hirsutus</i>	Common			K	
Asteraceae	<i>Helianthus maximiliani</i>	Common			K&S	
Asteraceae	<i>Hieracium gronovii</i>	Occasional			K	
Asteraceae	<i>Hymenopappus artemisiifolius</i>	Uncommon			K	
Asteraceae	<i>Iva angustifolia</i>	Common			K	
Asteraceae	<i>Iva annua</i>	Common			K&S	
Asteraceae	<i>Krigia caespitosa</i>	Common			K	
Asteraceae	<i>Krigia dandelion</i>	Occasional			K	
Asteraceae	<i>Krigia occidentalis</i>	Common			K	
Asteraceae	<i>Krigia wrightii</i>	Uncommon			K	
Asteraceae	<i>Liatris aspera</i>	Occasional			K	
Asteraceae	<i>Liatris cymosa</i>	Occasional	G2	S2	K	Very rare endemic restricted to Catahoula outcrops
Asteraceae	<i>Liatris elegans</i>	Uncommon			K	
Asteraceae	<i>Liatris mucronata</i>	Common			K&S	
Asteraceae	<i>Liatris pycnostachya</i>	Uncommon			K	
Asteraceae	<i>Liatris squarrosa</i>	Uncommon			K	
Asteraceae	<i>Lindheimera texana</i>				S	
Asteraceae	<i>Mikania scandens</i>	Uncommon			K	
Asteraceae	<i>Packera obovata</i>	Common			K	
Asteraceae	<i>Palafoxia callosa</i>	Common			K	
Asteraceae	<i>Pityopsis graminifolia</i>	Occasional			K	
Asteraceae	<i>Pluchea camphorata</i>	Uncommon			K	
Asteraceae	<i>Pluchea odorata</i>	Common			K	

Asteraceae	<i>Pseudognaphalium obtusifolium</i>	Uncommon			K	
Asteraceae	<i>Pyrrhopappus carolinianus</i>	Uncommon			K&S	
Asteraceae	<i>Rudbeckia hirta</i>	Common			K&S	
Asteraceae	<i>Rudbeckia maxima</i>	Frequent			K	
Asteraceae	<i>Rudbeckia missouriensis</i>	Uncommon			K	
Asteraceae	<i>Solidago altissima</i>				S	
Asteraceae	<i>Solidago canadensis</i>	Common			K	
Asteraceae	<i>Solidago radula</i>	Uncommon			K	
Asteraceae	<i>Solidago ulmifolia</i>	Common			K	
Asteraceae	<i>Soliva pterosperma</i>	Occasional			K	
Asteraceae	<i>Symphotrichum lateriflorum</i>	Common			K&S	
Asteraceae	<i>Symphotrichum oolentangiense</i>	Rare			K&S	
Asteraceae	<i>Symphotrichum praealtum</i> var. <i>praealtum</i>	Uncommon			K&S	
Asteraceae	<i>Tetaneuris linearifolia</i>	Common	G5	S5	K	Easternmost distribution in Texas
Asteraceae	<i>Verbesina virginica</i>	Common			K&S	
Asteraceae	<i>Vernonia baldwiniana</i>	Uncommon			K	
Asteraceae	<i>Vernonia texana</i>	Uncommon			K	
Asteraceae	<i>Youngia japonica</i>	Occasional			K	
Azollaceae	<i>Azolla caroliniana</i>	Occasional			K	
Berberidiaceae	<i>Nandina domestica</i>	Uncommon			K	
Berberidiaceae	<i>Podophyllum peltatum</i>	Uncommon			K	
Betulaceae	<i>Carpinus caroliniana</i>	Common			K	
Betulaceae	<i>Ostrya virginiana</i>	Common			K	
Bignoniaceae	<i>Bignonia capreolata</i>	Occasional			K&S	
Bignoniaceae	<i>Campsis radicans</i>	Frequent			K&S	
Bignoniaceae	<i>Catalpa bignonioides</i>	Uncommon			K	
Boraginaceae	<i>Heliotropium indica</i>	Uncommon			K	
Boraginaceae	<i>Heliotropium procumbens</i> (Keith 22)	Rare			K	
Boraginaceae	<i>Heliotropium tenellum</i>	Uncommon			K&S	
Boraginaceae	<i>Lithospermum incisum</i>	Uncommon			K	
Boraginaceae	<i>Myosotis macrosperma</i>	Common			K	

Boraginaceae	Onosmodium bejariense					S	
Brassicaceae	Cardamine parviflora	Uncommon				K	
Brassicaceae	Lepidium virginicum	Common				K	
Brassicaceae	Sibara virginica	Rare				K	
Bromeliaceae	Tillandsia recurvata	Rare				K	
Bromeliaceae	Tillandsia usneoides	Common				K	
Cactaceae	Opuntia humifusa	Uncommon				K	
Callitrichaceae	Callitriche heterophylla	Uncommon				K	
Callitrichaceae	Callitriche nuttallii	Rare				K	
Callitrichaceae	Callitriche peploides	Uncommon				K	
Callitrichaceae	Callitriche terrestris	Uncommon				K	
Campanulaceae	Triodanis biflora	Common				K	
Caprifoliaceae	Lonicera japonica	Uncommon				K&S	
Caprifoliaceae	Lonicera sempervirens	Occasional				K	
Caprifoliaceae	Sambucus canadensis	Frequent				K	
Caprifoliaceae	Symphicarpus orbiculatus	Uncommon				K&S	
Caprifoliaceae	Viburnum rufidulum	Common				K&S	
Caryophyllaceae	Cerastium glomeratum	Uncommon				K	
Caryophyllaceae	Minuartia muscorum (Keith 126)	Occasional				K	
Caryophyllaceae	Minuartia patula	Rare				K	
Caryophyllaceae	Paronychia virginica	Uncommon	G4	S5		K	Easternmost distribution in Texas
Caryophyllaceae	Silene antirrhina	Rare				K	
Caryophyllaceae	Spergularia salina	Rare				K	
Caryophyllaceae	Stellaria media	Frequent				K	
Chenopodiaceae	Chenopodium ambrosioides	Uncommon				K	
Cistaceae	Helianthemum carolinianum	Common				K	
Cistaceae	Lechea san-sabeana (Keith 150)	Uncommon	G4	S4		K	Uncommon endemic in Texas associated with Catahoula formation
Cistaceae	Lechea tenuifolia	Occasional				K	
Clusiaceae	Hypericum drummondii	Uncommon				K	

Clusiaceae	Hypericum hypericoides	Common				K	
Commelinaceae	Commelina diffusa	Rare				K	
Commelinaceae	Commelina erecta	Occasional				K	
Commelinaceae	Commelina virginica	Common				K	
Commelinaceae	Tradescantia hirsutiflora	Common				K	
Commelinaceae	Tradescantia ohioensis	Uncommon				K	
Convolvulaceae	Cuscuta cuspidata					S	
Convolvulaceae	Dichondra carolinense	Common				K	
Convolvulaceae	Evolvulus sericeus					S	
Convolvulaceae	Ipomoea cordatotriloba	Uncommon				K	
Convolvulaceae	Ipomoea wrightii (Keith 37)	Rare	G4	S5		K	Easternmost distribution in Texas
Convolvulaceae	Stylisma humistrata	Frequent				K	
Cornaceae	Cornus drummondii	Common				K&S	
Cornaceae	Cornus florida	Frequent				K&S	
Crassulaceae	Crassula aquatica (Keith 91)	Uncommon				K	
Crassulaceae	Sedum nuttallianum (Keith 151)	Uncommon	G4	S5		K&S	Easternmost distribution in Texas
Cucurbitaceae	Melothria pendula	Occasional				K	
Cupressaceae	Juniperus virginiana	Frequent				K&S	
Cyperaceae	Bulbostylis ciliatifolia var. ciliatifolia (Keith 40)	Uncommon				K	
Cyperaceae	Carex albicans	Common				K	
Cyperaceae	Carex annectans	Uncommon				K	
Cyperaceae	Carex bulbostylis (Keith 118)	Uncommon				K	
Cyperaceae	Carex bushii	Common				K	
Cyperaceae	Carex caroliniana (Keith 120)	Uncommon				K	
Cyperaceae	Carex cherokeensis	Common				K&S	
Cyperaceae	Carex complanata	Common				K	
Cyperaceae	Carex crinita	Rare				K	
Cyperaceae	Carex crus-corvi	Uncommon				K	
Cyperaceae	Carex decomposita (Keith 158)	Rare	G3	S1		K	Very rare sedge known from only 2 other localities in Texas

Cyperaceae	Carex flaccosperma	Occasional	G4	S4	K&S	Restricted to blackland prairies
Cyperaceae	Carex frankii	Uncommon			K	
Cyperaceae	Carex hyalinolepis (Keith 154)	Rare			K	
Cyperaceae	Carex leavenworthii	Common			K	
Cyperaceae	Carex lupulina	Uncommon			K	
Cyperaceae	Carex meadii (Keith 149)	Rare			K	
Cyperaceae	Carex microdonta	Occasional			K	
Cyperaceae	Carex oxylepis (Keith 117)	Uncommon			K	
Cyperaceae	Carex reniformis	Occasional			K	
Cyperaceae	Carex reniformis (Keith 157)	Rare			K	
Cyperaceae	Carex striatula (Keith 119)	Uncommon			K	
Cyperaceae	Carex texensis (Keith 116)	Occasional			K	
Cyperaceae	Carex triangularis	Occasional			K	
Cyperaceae	Carex tribuloides (Keith 152)	Uncommon			K	
Cyperaceae	Cyperus compressus (Keith 38)	Rare			K	
Cyperaceae	Cyperus erythrorhizos (Keith 262)	Occasional			K	
Cyperaceae	Cyperus haspan (Keith 262)	Common			K	
Cyperaceae	Cyperus odoratus	Common			K	
Cyperaceae	Cyperus pseudovegetus	Common			K	
Cyperaceae	Cyperus reflexus (Keith 19)	Rare			K	
Cyperaceae	Cyperus retroflexus	Common			K	
Cyperaceae	Cyperus retrosus	Common			K	
Cyperaceae	Cyperus squarrosus	Occasional			K	
Cyperaceae	Cyperus strigosus	Uncommon			K	
Cyperaceae	Cyperus virens	Common			K	
Cyperaceae	Eleocharis montevidensis	Frequent			K	
Cyperaceae	Eleocharis montevidensis (Keith 125)	Common			K	
Cyperaceae	Fimbristylis autumnalis (Keith 258)	Common			K	
Cyperaceae	Fimbristylis puberla	Occasional			K	
Cyperaceae	Fuirena simplex var. aristulata (BRIT)	Rare			K	
Cyperaceae	Fuirena simplex var. simplex (Keith 37))	Rare			K	
Cyperaceae	Isolepis carinata	Common			K	

Cyperaceae	Isolepis molesta (Keith 121)	Uncommon			K
Cyperaceae	Rhynchospora caduca	Occasional			K
Cyperaceae	Rhynchospora corniculata	Occasional			K
Cyperaceae	Rhynchospora elliottii	Occasional			K
Cyperaceae	Rhynchospora globularis	Frequent			K&S
Cyperaceae	Rhynchospora inexpansa	Uncommon			K
Cyperaceae	Scleria oligantha	Frequent			K
Cyperaceae	Scleria pauciflora	Rare			K&S
Cyperaceae	Scleria triglomerata				S
Dennstaedtiaceae	Pteridium aquilinum	Frequent			K
Dioscoreaceae	Dioscorea villosa	Uncommon			K
Droseraceae	Drosera annua	Rare			K
Dryopteridaceae	Cyrtomium falcatum (Keith 3)	Rare			K
Dryopteridaceae	Onoclea sensibilis	Uncommon			K
Dryopteridaceae	Polystichum acrostichoides	Occasional			K
Ebenaceae	Diospyros virginiana	Frequent			K&S
Eleagaceae	Eleangus pungens	Rare			K
Equisetaceae	Equisetum hyemale	Uncommon			K
Ericaceae	Vaccinium arboreum	Uncommon			K
Ericaceae	Vaccinium reticulatum	Uncommon			K
Euphorbiaceae	Acalypha gracilens	Uncommon			K
Euphorbiaceae	Chamaesyce cordifolia	Occasional			K
Euphorbiaceae	Chamaesyce maculata	Uncommon			K
Euphorbiaceae	Chamaesyce nutans	Common			K
Euphorbiaceae	Cnidocolus texanus	Uncommon			K
Euphorbiaceae	Croton capitatus	Frequent			K
Euphorbiaceae	Croton glandulosus	Frequent			K
Euphorbiaceae	Croton michauxii	Uncommon			K
Euphorbiaceae	Croton monathogynus	Abundant			K&S
Euphorbiaceae	Euphorbia bicolor	Common			K&S
Euphorbiaceae	Euphorbia corollata	Common			K
Euphorbiaceae	Euphorbia dentata	Common			K

Euphorbiaceae	Euphorbia marginata				S	
Euphorbiaceae	Euphorbia spathulata	Uncommon			K&S	
Euphorbiaceae	Stylingia sylvatica	Occasional			K	
Euphorbiaceae	Tragia urens	Occasional			K	
Euphorbiaceae	Tragia urticifolia	Uncommon			K&S	
Fabaceae	Acacia hirta	Uncommon			K	
Fabaceae	Albizia julibrissin	Uncommon			K	
Fabaceae	Apios americana	Occasional			K	
Fabaceae	Astralagus distortus	Occasional			K	
Fabaceae	Astragalus crassicaupus				S	
Fabaceae	Astragalus distortus var. engelmannii				S	
Fabaceae	Baptisia bracteata	Common			K	
Fabaceae	Baptisia nuttalliana	Uncommon			K	
Fabaceae	Cassia fasciculata	Occasional			K	
Fabaceae	Centrosema virginiana	Occasional			K	
Fabaceae	Cercis canadensis	Uncommon			K&S	
Fabaceae	Chamaecrista fasciculata				S	
Fabaceae	Clitoria mariana	Occasional			K	
Fabaceae	Dalea compacta	Occasional			K&S	
Fabaceae	Dalea multiflora	Uncommon			K	
Fabaceae	Dalea purpurea				S	
Fabaceae	Desmanthus illinoensis	Uncommon			K&S	
Fabaceae	Desmodium glutinosum	Occasional			K	
Fabaceae	Desmodium nudiflorum	Uncommon			K	
Fabaceae	Desmodium obtusum	Rare			K	
Fabaceae	Desmodium paniculatum	Common			K	
Fabaceae	Erythrina herbacea	Uncommon			K	
Fabaceae	Galactia volubilis	Uncommon			K&S	
Fabaceae	Gleditsia aquatica	Occasional			K	
Fabaceae	Gleditsia triacanthos	Occasional			K&S	
Fabaceae	Indigofera miniata	Occasional			K&S	
Fabaceae	Indigofera suffruticosa	Rare			K	

Fabaceae	Kummerowia stipulacea	Uncommon			K	
Fabaceae	Kummerowia striata	Occasional			K	
Fabaceae	Lathyrus pusillus	Occasional			K	
Fabaceae	Lespedeza hirta	Occasional			K	
Fabaceae	Lespedeza procumbens	Occasional			K	
Fabaceae	Lespedeza repens	Uncommon			K	
Fabaceae	Lespedeza virginica	Uncommon			K	
Fabaceae	Mimosa latidens	Common			K	
Fabaceae	Mimosa nuttallii	Common			K	
Fabaceae	Mimosa strigillosa	Common			K	
Fabaceae	Neptunia lutea	Occasional			K&S	
Fabaceae	Prosopis glandulosa	Rare			K	
Fabaceae	Rhynchosia latifolia	Common			K&S	
Fabaceae	Rhynchosia minima				S	
Fabaceae	Sesbania drummondii	Occasional			K	
Fabaceae	Sesbania vesicaria	Uncommon			K&S	
Fabaceae	Strophostyles helvola	Uncommon			K	
Fabaceae	Strophostyles leiosperma				S	
Fabaceae	Strophostyles umbellata	Common			K	
Fabaceae	Tephrosia onobrychoides	Uncommon			K	
Fabaceae	Trifolium campestre	Common			K	
Fabaceae	Trifolium carolinianum	Uncommon			K	
Fabaceae	Trifolium dubium	Common			K	
Fabaceae	Trifolium repens	Uncommon			K	
Fabaceae	Vicia ludoviciana	Common			K	
Fabaceae	Vicia sativa	Common			K	
Fagaceae	Quercus alba	Occasional			K	
Fagaceae	Quercus falcata	Uncommon			K	
Fagaceae	Quercus lyrata	Common			K	
Fagaceae	Quercus nigra	Uncommon			K&S	
Fagaceae	Quercus pagoda	Frequent			K	
Fagaceae	Quercus phellos	Common			K	

Fagaceae	Quercus shumardii	Occasional			K&S	
Fagaceae	Quercus stellata	Abundant			K&S	
Fagaceae	Quercus velutina				S	
Gentianaceae	Eustoma exaltatum				S	
Gentianaceae	Sabatia campestris	Common			K&S	
Geraniaceae	Geranium carolinianum	Common			K	
Haloragaceae	Myriophyllum aquaticum	Uncommon			K	
Haloragaceae	Proserpinaca palustris	Occasional			K	
Hamamelidaceae	Liquidambar styraciflua	Abundant			K&S	
Hippocastanaceae	Aesculus pavia	Uncommon			K	
Hydrocharitaceae	Limnobiium spongia (Keith 198)	Uncommon			K	
Hydrophyllaceae	Hydrolea ovata	Uncommon			K	
Hydrophyllaceae	Nemophila microcalyx (Keith 92)	Uncommon			K	
Hydrophyllaceae	Nemophila phacelioides (Keith 131)	Uncommon			K	
Iridaceae	Herbertia lahue	Rare			K	
Iridaceae	Hypoxis hirsuta (Keith 123)	Common			K	
Iridaceae	Sisyrinchium angustifolium	Common			K	
Iridaceae	Sisyrinchium langosii (Keith 134)	Occasional			K	
Iridaceae	Sisyrinchium minus (Keith 127)	Rare			K	
Iridaceae	Sisyrinchium sagittiferum	Occasional			K	
Juglandaceae	Carya aquatica	Uncommon			K	
Juglandaceae	Carya illinoensis	Occasional			K	
Juglandaceae	Carya texana	Uncommon			K	
Juglandaceae	Carya tomentosa	Common			K	
Juglandaceae	Juglans nigra	Occasional			K	
Juncaceae	Juncus acuminatus	Uncommon			K	
Juncaceae	Juncus brachycarpus	Common			K	
Juncaceae	Juncus dichotoma	Occasional			K	
Juncaceae	Juncus diffusissimus	Uncommon			K	
Juncaceae	Juncus effusus	Common			K	
Juncaceae	Juncus marginatus	Common			K	
Juncaceae	Juncus tenuis	Common			K	

Juncaceae	<i>Juncus torreyi</i>	Rare				K	Easternmost distribution in Texas
Juncaceae	<i>Juncus validus</i>	Rare				K	
Juncaceae	<i>Luzula bulbosa</i>	Common				K	
Krameriaceae	<i>Krameria lanceolata</i>	Uncommon				K&S	
Lamiaceae	<i>Hedeoma hispida</i>					S	
Lamiaceae	<i>Lycopus rubellus</i>	Uncommon				K	
Lamiaceae	<i>Monarda citriodora</i>	Occasional				K&S	
Lamiaceae	<i>Monarda fistulosa</i>	Uncommon				K&S	
Lamiaceae	<i>Monarda punctata</i>	Common				K	
Lamiaceae	<i>Perilla frutescens</i>	Uncommon				K	
Lamiaceae	<i>Physostegia digitalis</i>	Uncommon				K	
Lamiaceae	<i>Prunella vulgaris</i>	Common				K&S	
Lamiaceae	<i>Salvia azurea</i>	Common				K&S	
Lamiaceae	<i>Salvia lyrata</i>	Common				K&S	
Lamiaceae	<i>Scutellaria drummondii</i> (Keith 197)	Uncommon				K&S	
Lamiaceae	<i>Scutellaria elliptica</i>	Common				K	
Lamiaceae	<i>Scutellaria ovata</i>	Uncommon				K	
Lamiaceae	<i>Scutellaria parvula</i>					S	
Lamiaceae	<i>Stachys crenata</i>	Occasional				K	
Lamiaceae	<i>Teucrium canadense</i>	Uncommon				K	
Lauraceae	<i>Sassafras albidum</i>	Common				K	
Lemnaceae	<i>Lemna aequinoctialis</i>	Common				K	
Lemnaceae	<i>Lemna minuta</i>	Common				K	
Lemnaceae	<i>Lemna obscura</i>	Common				K	
Lemnaceae	<i>Lemna valdiviana</i>	Uncommon				K	
Lemnaceae	<i>Spirodela polyrrhiza</i>	Uncommon				K	
Lemnaceae	<i>Wolffia columbiana</i>	Common				K	
Lemnaceae	<i>Wolffia globosa</i>	Common				K	
Liliaceae	<i>Narcissus jonquilla</i>	Occasional				K	
Liliaceae	<i>Allium drummondii</i> (Keith 96, 124)	Uncommon				K	
Liliaceae	<i>Cooperia drummondii</i>	Uncommon				K	

Liliaceae	Crinum americanum	Rare					
Liliaceae	Habenaria tubispithus	Uncommon				K	
Liliaceae	Nothoscordum bivalve	Abundant				K	
							Rare species usually associated with rock outcroppings with Catahoula geology
Liliaceae	Schoenolirion wrightii (Keith 129)	Uncommon	G3	S2	K		
Liliaceae	Yucca louisianensis	Uncommon			K&S		
Linaceae	Linum medium var. texanum	Uncommon			K&S		
Linaceae	Linum rigidum var. berlandieri	Uncommon			K		
Loganiaceae	Gelsemium sempervirens	Abundant			K		
Loganiaceae	Mitreola petiolata	Uncommon			K		
Loganiaceae	Polypremum procumbens	Common			K		
Lythraceae	Lagerstroemia indica	Uncommon			K		
Magnoliaceae	Magnolia grandiflora	Occasional			K		
Malvaceae	Callirhoe papaver	Occasional			K&S		
Malvaceae	Hibiscus laevis	Common			K		
Malvaceae	Hibiscus moscheutos	Common			K		
Malvaceae	Malvaviscus drummondii	Occasional			K&S		
Malvaceae	Modiola caroliniana	Common			K		
Malvaceae	Sida rhombifolia	Common			K		
Marsileaceae	Marsilea vestitata	Rare			K		
Meliaceae	Melia azedarach	Uncommon			K		
Menispermaceae	Cocculus caroliniana	Frequent			K&S		
Menyanthaceae	Nymphaeoides aquatica	Common			K		
Moraceae	Maclura pomifera	Uncommon			K		
Moraceae	Morus rubra	Common			K		
Myricaceae	Myrica cerifera	Uncommon			K&S		
Nyssaceae	Nyssa sylvatica	Uncommon			K		
Oleaceae	Chionanthus virginica	Occasional			K		
Oleaceae	Foresteria ligustrina	Uncommon			K&S		
Oleaceae	Forestiera pubescens				S		
Oleaceae	Fraxinus americana	Common			K&S		

Oleaceae	Fraxinus pennsylvanica	Common			K
Onagraceae	Gaura angustifolia				S
Onagraceae	Gaura brachycarpa (Keith 133)	Uncommon			K
Onagraceae	Gaura longiflora	Uncommon			K
Onagraceae	Ludwigia alternifolia	Uncommon			K
Onagraceae	Ludwigia peploides	Common			K
Onagraceae	Oenothera laciniata	Common			K
Onagraceae	Oenothera linifolia	Occasional			K
Onagraceae	Oenothera speciosa	Frequent			K&S
Onagraceae	Stenosiphon linifolius (?)				S
Ophioglossaceae	Ophioglossum crotaophoroides	Uncommon			K
Ophioglossaceae	Ophioglossum nudicaule	Rare			K
Orchidaceae	Spiranthes cernua	Common			K
Orchidaceae	Spiranthes lacera	Rare			K
Orchidaceae	Spiranthes vernalis	Occasional			K
Osmundaceae	Osmunda regalis	Uncommon			K
Oxalidaceae	Oxalis dilleni	Frequent			K
Oxalidaceae	Oxalis pricea	Uncommon			K
Oxalidaceae	Oxalis violacea	Uncommon			K
Passifloraceae	Passiflora incarnata	Uncommon			K&S
Passifloraceae	Passiflora lutea	Uncommon			K
Phytolaccaceae	Phytolacca americana	Common			K
Pinaceae	Pinus echinata	Common			K
Pinaceae	Pinus palustris	Occasional			K
Pinaceae	Pinus taeda	Abundant			K&S
Plantaginaceae	Plantago aristata	Occasional			K
Plantaginaceae	Plantago heterophylla	Rare			K
Plantaginaceae	Plantago patagonica	Occasional			K
Plantaginaceae	Plantago virginica	Frequent			K&S
Platanaceae	Platanus occidentalis	Occasional			K
Poaceae	Agrostis eliottiana	Uncommon			K
Poaceae	Andropogon gerardii	Occasional			K

Poaceae	Andropogon glomeratus	Common			K&S	
Poaceae	Andropogon ternarius	Uncommon			K	
Poaceae	Andropogon virginicus	Common			K&S	
Poaceae	Aristida longespica	Occasional			K&S	
Poaceae	Aristida oligantha	Abundant			K	
Poaceae	Aristida purpurascens var. virgata	Occasional			K	
Poaceae	Arundinaria gigantea	Occasional			K	
Poaceae	Bothriochloa ischaemum	Frequent			K&S	
Poaceae	Bothriochloa laguroides	Common			K	
Poaceae	Bothriochloa saccharoides				S	
Poaceae	Bouteloua curtipendula (BRIT)	Occasional			K&S	
Poaceae	Bouteloua hirsuta (BRIT)	Occasional			K&S	
Poaceae	Bouteloua rigidiseta (Keith 27)	Uncommon			K	
Poaceae	Briza minor	Common			K	
Poaceae	Bromus catharticus				S	
Poaceae	Bromus japonicus	Occasional			K	
Poaceae	Bromus pubescens (Keith 114)	Rare			K&S	
Poaceae	Cenchrus incertus	Uncommon			K	
Poaceae	Chasmanthium latifolium	Common			K	
Poaceae	Chasmanthium laxum	Occasional			K&S	
Poaceae	Chasmanthium sessiliflorum	Common			K	
Poaceae	Digitaria ciliaris	Common			K	
Poaceae	Elymus virginicus	Common			K	
Poaceae	Eragrostis intermedia	Uncommon			K	
Poaceae	Eragrostis spectabilis	Occasional			K	
Poaceae	Hordeum pusillum	Common			K	
Poaceae	Leersia oryzoides	Occasional			K	
Poaceae	Leersia virginica	Uncommon			K	
Poaceae	Leptochloa filiformis	Occasional			K	
Poaceae	Melica mutica	Occasional			K	
Poaceae	Muhlenbergia capillaris	Common			K&S	
Poaceae	Nassella leucotricha	Occasional			K	

Poaceae	Oplimenus hirtellus	Occasional				
Poaceae	Panicum acuminatum	Uncommon			K	
Poaceae	Panicum anceps	Frequent			K	
Poaceae	Panicum boscii	Uncommon			K&S	
Poaceae	Panicum brachyanthum	Uncommon			K	
Poaceae	Panicum commutatum	Occasional			K	
Poaceae	Panicum depauperatum (V)	Common			K	
Poaceae	Panicum dichotomiflorum	Uncommon			K	
Poaceae	Panicum dichotomum	Common			K	
Poaceae	Panicum gymnocarpon	Occasional			K	
Poaceae	Panicum hemitomum	Frequent			K	
Poaceae	Panicum hians	Occasional			K	
Poaceae	Panicum laxiflorum	Common			K	
Poaceae	Panicum oligosanthos	Uncommon			K&S	
Poaceae	Panicum rigidulum	Frequent			K	
Poaceae	Panicum sphaerocarpon	Common			K	
Poaceae	Paspalum dilatatum	Uncommon			K	
Poaceae	Paspalum distichum	Occasional			K	
Poaceae	Paspalum floridanum	Common			K&S	
Poaceae	Paspalum langei	Common			K	
Poaceae	Paspalum notatum	Common			K	
Poaceae	Paspalum plicatum	Common			K&S	
Poaceae	Paspalum setaceum	Common			K&S	
Poaceae	Paspalum urvillei	Common			K	
Poaceae	Phalaris caroliniana	Uncommon			K	
Poaceae	Piptochaetium avenaceum				S	
Poaceae	Poa annua	Frequent			K	
Poaceae	Poa autumnalis (Keith 132)	Uncommon			K	
Poaceae	Saccharum strictus	Uncommon			K	
Poaceae	Schizachyrium scoparium	Uncommon			K&S	
Poaceae	Setaria geniculata				S	
Poaceae	Setaria parviflora (Keith 196)	Frequent			K&S	

Poaceae	<i>Sorghastrum nutans</i>	Frequent				K&S	
Poaceae	<i>Sorghum halapense</i>	Frequent				K	
Poaceae	<i>Sphenopholis obtusata</i> (Keith 115)	Uncommon				K	
Poaceae	<i>Sporobolus indicus</i>	Frequent				K	
Poaceae	<i>Sporobolus macer</i>	Occasional				K	
Poaceae	<i>Sporobolus ozarkanus</i> (Keith 20)	Occasional				K	
Poaceae	<i>Stenotaphrum secundatum</i>	Occasional				K	
Poaceae	<i>Stipa avenacea</i>	Common				K	
Poaceae	<i>Tridens flavus</i>	Frequent				K&S	
Poaceae	<i>Tripasacum dactyloides</i>	Common				K	
Poaceae	<i>Vulpia myuros</i>	Common				K	
Poaceae	<i>Vulpia octoflora</i>	Common				K	
Poaceae	<i>Zizaniopsis miliacea</i>	Occasional				K	
Polemoniaceae	<i>Phlox pilosa</i>	Common				K	
Polygalaceae	<i>Polygala verticillata</i> var. <i>verticillata</i>					S	
Polygonaceae	<i>Eriogonum longifolium</i> (Keith 50)	Rare				K	
Polygonaceae	<i>Polygonum hydropiperoides</i>	Occasional				K	
Polygonaceae	<i>Polygonum punctatum</i>	Uncommon				K	
Polygonaceae	<i>Rumex crispus</i>	Uncommon				K	
Polygonaceae	<i>Rumex pulcher</i>	Uncommon				K	
Polypodiaceae	<i>Pleopeltis polypodioides</i>	Uncommon				K	
Pontederiaceae	<i>Eichornia crassipes</i>	Abundant				K	
Portulacaceae	<i>Phemeranthus parviflorus</i>					S	
Portulacaceae	<i>Portulaca pilosa</i>	Rare				K	
Portulacaceae	<i>Talinum parviflorum</i> (Keith <i>s.n.</i>)	Uncommon				K	
Portulacaceae	<i>Portulaca oleracea</i>	Rare				K	
Primulaceae	<i>Anagallis arvensis</i>	Common				K	
Primulaceae	<i>Anagallis minima</i>	Uncommon				K	
Primulaceae	<i>Samolus valerandi</i>	Uncommon				K	
Pteridaceae	<i>Cheilanthes alabamensis</i>	Rare	G5	S5	K		Easternmost distribution in Texa

Pteridaceae	Cheilanthes tomentosa	Rare	G5	S5	K	Easternmost distribution in Texa
Ranunculaceae	Anenome berlandieri	Frequent			K	
Ranunculaceae	Delphinium carolinianum ssp. vimineum	Rare			K&S	
Ranunculaceae	Ranunculus fascicularis	Occasional			K	
Rhamnaceae	Berchemia scandens	Frequent			K&S	
Rhamnaceae	Rhamnus caroliniana	Frequent			K&S	
Rosaceae	Agrimonia rostellata	Rare			K	
Rosaceae	Crataegus brachyacantha	Uncommon			K	
Rosaceae	Crataegus brazoria	Uncommon			K	
Rosaceae	Crataegus crus-gallii	Uncommon			K&S	
Rosaceae	Crataegus marshallii	Uncommon			K&S	
Rosaceae	Crataegus spathulata	Common			K	
Rosaceae	Crataegus viridis	Occasional			K	
Rosaceae	Geum canadense	Occasional			K	
Rosaceae	Prunus mexicana	Occasional			K&S	
Rosaceae	Prunus angustifolia	Occasional			K	
Rosaceae	Rubus louisianus	Uncommon			K	
Rosaceae	Rubus trivialis	Common			K&S	
Rubiaceae	Diodia teres	Common			K	
Rubiaceae	Diodia virginiana	Common			K	
Rubiaceae	Galium aparine	Common			K	
Rubiaceae	Galium circaezans	Uncommon			K	
Rubiaceae	Galium pilosa	Common			K	
Rubiaceae	Galium tinctorium	Occasional			K	
Rubiaceae	Galium uniflorum	Uncommon			K	
Rubiaceae	Galium virgatum	Uncommon			K&S	
Rubiaceae	Houstonia micrantha	Uncommon			K	
Rubiaceae	Houstonia pusilla	Common			K	
Rubiaceae	Houstonia rosea	Uncommon			K	
Rubiaceae	Mitchella repens	Common			K	
Rubiaceae	Sherardia arvensis	Common			K	

Rubiaceae	<i>Stenaria nigricans</i> var. <i>nigricans</i>	Occasional			K&S	
Rutaceae	<i>Zanthoxylum clava-herculis</i>	Uncommon			K&S	
Salicaceae	<i>Populus deltoides</i>	Uncommon			K&S	
Salicaceae	<i>Salix nigra</i>	Common			K	
Sapindaceae	<i>Cardiospermum halicacabum</i>	Uncommon			K	
Sapindaceae	<i>Sapindus saponaria</i> var. <i>drummondii</i>	Rare			K	
Sapotaceae	<i>Sideroxylon lanuginosum</i>	Frequent			K&S	
Saururaceae	<i>Saururus cernuus</i>	Occasional			K	
Saxifragaceae	<i>Lepuropetalon spathulatum</i>	Uncommon			K	
Saxifragaceae	<i>Saxifraga texana</i>	Uncommon			K	
Schizaeaceae	<i>Lygodium japonicum</i>	Occasional			K	
Scrophulariaceae	<i>Agalinis heterophylla</i>	Occasional			K	
Scrophulariaceae	<i>Bacopa monnieri</i>	Rare			K	
Scrophulariaceae	<i>Castilleja indivisa</i>	Common			K	
Scrophulariaceae	<i>Gratiola flava</i>	Uncommon	G4	S3	K	Rare species associated with Catahoula formation
Scrophulariaceae	<i>Nuttallanthus texana</i>	Common			K	
Scrophulariaceae	<i>Pedicularis canadensis</i>	Rare			K	
Scrophulariaceae	<i>Penstemon cobaea</i>	Rare	G5	S5	K&S	Easternmost distribution in Texa
Scrophulariaceae	<i>Penstemon laxiflorus</i>	Uncommon			K	
Scrophulariaceae	<i>Veronica arvensis</i>	Occasional			K&S	
Scrophulariaceae	<i>Veronica peregrina</i>	Uncommon			K	
Asteraceae	<i>Silphium gracile</i>				S	
Smilacaceae	<i>Smilax bona-nox</i>	Frequent			K&S	
Smilacaceae	<i>Smilax glauca</i>	Common			K	
Smilacaceae	<i>Smilax rotundifolia</i>	Uncommon			K&S	
Smilacaceae	<i>Smilax smallii</i>	Uncommon			K	
Smilacaceae	<i>Smilax laurifolia</i>	Uncommon			K	
Smilacaceae	<i>Smilax tamnifolia</i>	Uncommon			K	
Solanaceae	<i>Physalis cinerascens</i>	Uncommon			K	
Solanaceae	<i>Solanum carolinense</i>	Abundant			K	

Symplocaceae	Symplocos tinctoria	Common				K	
Taxodiaceae	Taxodium distichum	Uncommon				K	
Thelypteridaceae	Thelypteris kunthii	Occasional				K	
Typhaceae	Typha domingensis	Uncommon				K	
Ulmaceae	Celtis laevigata	Frequent				K&S	
Ulmaceae	Ulmus alata	Frequent				K&S	
Ulmaceae	Ulmus crassifolia	Occasional				K	
Ulmaceae	Ulmus rubra	Uncommon				K	
Urticaceae	Boehmeria cylindrica	Common				K	
Urticaceae	Parietaria pennsylvanica var. obtusa	Rare				K	
Valerianaceae	Valerianella radiata	Common				K	
Verbenaceae	Callicarpa americana	Frequent				K&S	
Verbenaceae	Glandularia bipinnatifida					S	
Verbenaceae	Phyla lanceolata	Common				K	
Verbenaceae	Phyla nodiflora	Common				K	
Verbenaceae	Verbena brasiliensis	Uncommon				K	
Verbenaceae	Verbena halei	Common				K&S	
Verbenaceae	Verbena simplex					S	
Verbenaceae	Verbena xutha	Common				K	
Violaceae	Viola pedata	Rare	G5	S5		K	Westernmost distribution in Texas
Violaceae	Viola sagittata	Uncommon				K	
Violaceae	Viola sororia	Common				K	
Vitaceae	Ampelopsis arborea	Common				K&S	
Vitaceae	Cissus incisa	Uncommon				K	
Vitaceae	Parthenocissus quinquefolia	Frequent				K&S	
Vitaceae	Vitis aestivalis	Uncommon				K&S	
Vitaceae	Vitis mustangensis	Uncommon				K&S	
Vitaceae	Vitis rotundifolia var. rotundifolia	Uncommon				K&S	
Woodsiaceae	Woodsia obtusa (Keith 93)	Uncommon				K	

