

**Preliminary Checklist of
the Vascular Plants
of
The Heard Wildlife Sanctuary,
McKinney, Texas**

by

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This preliminary checklist is part of an ongoing effort to document the native and introduced vascular plants of the Heard Wildlife Sanctuary. The purpose of the checklist is to provide information to the scientific community as well as a variety of other individuals, institutions and agencies whose interests and activities involve the flora of Collin County.

As of this date, this checklist includes 401 species and subspecific taxa in 282 genera and 94 families. The list includes voucher specimens collected by the author, and others, that are deposited at the Heard Natural Science Museum and Wildlife Sanctuary Herbarium (156 species) or at the Collin College Herbarium (159 species). Species reported without voucher specimens (164 species) are from checklists published by the Heard Museum (“Checklist of Wildflowers of Collin County” and “Tree, Shrub, and Woody Vine Checklist”) as well as species recorded as personal observations (pers.obs.) are also included.

The checklist is arranged alphabetically by family, genus, and species. Taxonomy used mostly follows that of Diggs et al (1999), Diggs et al (2006), Correll and Johnston (1970), or the USDA Plants Database website (<http://plants.usda.gov>)

The following symbols are used:

NR = collected by Nelson Rich and followed by collector number

CC = collected by Casey Camarillo and followed by collector number

H = specimen in Heard Herbarium

R^H = Reported from a checklist, no voucher specimens known

NR, pers. obs. = species observed by Nelson Rich, voucher specimens not collected

The author realizes the implications of publishing a work in progress and hopes that all users will feel free to provide any input regarding corrections, additions or other changes that will add to our knowledge of the Heard Wildlife Sanctuary flora.

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Acanthaceae

R^H
 R^H, NR 3530
 NR 3531
 H
 R^H

Dicliptera brachiata
Justicia americana
Ruellia sp.
Ruellia humilis
Ruellia strepens

Aceraceae

H

Acer negundo

Agavaceae

R^H

Yucca arkansana

Alismataceae

NR 3641

R^H

R^H

Sagittaria
Sagittaria latifolia
Sagittaria platyphylla

Alliaceae

NR 3442

H, CC 100, NR 4227

NR 3989

H

(NR, pers. obs.)

Allium sp.
Allium canadense
Allium canadense var. *hyacinthoides*
Allium drummondii
Nothoscordum bivalve

Amaranthaceae

H

NR 3269

Amaranthus rudis
Iresine rhizomatosa

Amaryllidaceae

R^H

Cooperia drummondii

Anacardiaceae

NR 4268

R^H

Pistacia chinensis
Rhus glabra

Apiaceae

H

R^H

(NR, pers. obs.)

NR 3439

NR 3775

R^H, NR 3908

H

R^H

H

R^H

NR 3545

R^H

(NR, pers. obs.)

R^H

NR 4022

H, NR 3839

Ammoselinum popei
Anethum graveolens
Bifora americana
Chaerophyllum sp.
Chaerophyllum tainturieri var. *tainturieri*
Cicuta maculata
Daucus carota
Daucus pusillus
Eryngium leavenworthii
Eryngium yuccifolium
Hydrocotyle verticillata var. *triradiata*
Osmorhiza longistylis
Polytaenia nuttallii
Sanicula canadensis
Sanicula odorata
Zizia aurea

ApocynaceaeR^H*Amsonia ciliata*R^H*Amsonia tabernaemontana*R^H*Apocynum cannabinum***Aquifoliaceae**

H

*Ilex decidua***Araceae**R^H, NR 4245*Arisaema dracontium***Aristolochiaceae**R^H*Aristolochia tomentosa***Asclepiadaceae**R^H*Asclepias asperula* subsp. *capricornu*R^H*Asclepias tuberosa*R^H*Asclepias verticillata*

H

*Asclepias viridiflora*R^H*Asclepias viridis*R^H*Cynanchum leave*

NR 3308

Matelea sp.R^H, NR 3529*Matelea biflora*R^H, NR 3327*Matelea gonocarpus***Asteraceae**

(NR, pers. obs.)

Achillea millefolium

H, NR 4198

Acmella oppositifolia var. *repens*R^H*Ambrosia artemisiifolia*R^H*Ambrosia philostachya*R^H*Ambrosia trifida*

(NR, pers. obs.)

Arnoglossum plantagineum

H

Artemisia ludoviciana

H, NR 3946

Bidens frondosa

(NR, pers. obs.)

*Brickellia eupatorioides*R^H*Carduus nutans* subsp. *macrocephalus*R^H*Centaurea americana*R^H*Cichorium intybus*R^H, NR 4078*Cirsium altissimum*

H

*Cirsium engelmannii*R^H*Cirsium texanum*R^H*Cirsium undulatum*R^H*Conyza canadensis*

NR 3546

Dracopis amplexicaulis

H, NR 4149

Dysodiopsis tagetoides

NR 3248

Eclipta prostrata

NR 3705

*Elephantopus carolinianus*R^H*Engelmannia peristenia*

NR 3537

Erigeron sp.

(NR, pers. obs.)

*Erigeron strigosus*R^H, NR 4205*Eupatorium coelestinum*R^H*Evax prolifera*

H

*Gaillardia pulchella*R^H*Grindelia lanceolata*R^H*Grindelia papposa*

H

Gutierrezia sphaerocephala

R ^H	<i>Helenium amarum</i>
R ^H , NR 4247	<i>Helenium elegans</i>
(NR, pers. obs.)	<i>Helianthus annuus</i>
R ^H	<i>Helianthus grosseserratus</i>
R ^H , NR 4269	<i>Helianthus hirsutus</i>
H	<i>Helianthus maximiliani</i>
R ^H	<i>Helianthus salicifolius</i>
R ^H	<i>Helianthus tuberosus</i>
R ^H	<i>Hymenopappus scabiosaeus</i>
R ^H	<i>Hymenopappus tenuifolius</i>
H	<i>Iva annua</i>
R ^H	<i>Lactuca serriola</i>
NR 3955	<i>Liatris sp.</i>
R ^H	<i>Liatris mucronata</i>
H	<i>Lindheimera texana</i>
H, NR 3117	<i>Marshallia caespitosa</i>
NR 3246	<i>Mikania scandens</i>
R ^H	<i>Packera obovata</i>
H	<i>Packera plattensis</i>
H	<i>Packera tampicana</i>
NR 3326	<i>Palafoxia sp.</i>
H	<i>Palafoxia callosa</i>
NR 3110	<i>Parthenium hysterophorus</i>
NR 3954	<i>Pluchea camphorata</i>
H	<i>Pluchea odorata</i>
NR 3539	<i>Pyrrhopappus sp.</i>
H	<i>Ratibida columnifera</i>
H, NR 4244	<i>Silphium gracile</i>
R ^H	<i>Silphium laciniatum</i>
R ^H	<i>Silphium radula</i>
R ^H	<i>Smallanthus uvedalia</i>
R ^H	<i>Solidago gigantea</i>
R ^H	<i>Solidago nemoralis</i>
H	<i>Symphiotrichum drummondii</i> var. <i>texanum</i>
H	<i>Symphiotrichum ericoides</i>
H	<i>Symphiotrichum patens</i>
R ^H	<i>Symphiotrichum praealtus</i>
R ^H	<i>Taraxacum officinale</i>
H	<i>Tetraneuris linearifolia</i>
H	<i>Tetraneuris scaposa</i>
R ^H	<i>Tragopogon dubius</i>
R ^H , NR 3268	<i>Verbesina helianthoides</i>
H, NR 4293	<i>Vernonia baldwinii</i>
R ^H	<i>Vernonia lindheimeri</i>
H	<i>Xanthium strumarium</i> var. <i>canadense</i>
Berberidaceae	
R ^H	<i>Podophyllum peltatum</i>
Bignoniaceae	
R ^H	<i>Campsis radicans</i>
Boraginaceae	
NR 3364	<i>Buglossoides arvensis</i>
NR 3712	<i>Heliotropium tenellum</i>
H, NR 3438	<i>Lithospermum incisum</i>

NR 3993
NR 3475
R^H, NR 3528

Myosotis sp.
Myosotis macrosperma
Onosmodium bejariense

Brassicaceae

R^H, NR 3032
NR 3019
H, NR 3324
NR 3363
R^H, NR 3349
R^H
H
NR 3350

Capsella bursa-pastoris
Cardamine hirsuta
Diplotaxis muralis
Draba sp.
Draba cuneifolia
Draba reptans
Lepidium virginicum
Myagrimum perfoliatum

Campanulaceae

R^H
R^H

Lobelia cardinalis
Lobelia siphilitica

Caprifoliaceae

NR 3024
R^H
NR 3250
R^H, NR 4290
R^H
H, NR 4080
R^H
H, CC 102

Lonicera sp.
Lonicera albiflora
Lonicera fragrantissima
Lonicera japonica
Lonicera sempervirens
Sambucus nigra var. *canadensis*
Symphoricarpos orbiculatus
Virburnum rufidulum

Caryophyllaceae

H
R^H
R^H
H, NR 3343

Paronychia jamesii
Paronychia virginica
Silene stellata
Stellaria media

Celastraceae

H, NR 3284

Euonymus atropurpurea

Commelinaceae

R^H
R^H
CC 105
NR 4226
H
H

Commelina erecta
Commelina virginica
Tradescantia sp.
Tradescantia edwardsiana
Tradescantia gigantea
Tradescantia ohioensis

Convolvulaceae

R^H
H
H
H

Convolvulus arvensis
Convolvulus equitans
Evolvulus nuttallianus
Ipomoea hereracea

Cornaceae

H, NR 3118

Cornus drummondii

Crassulaceae

NR 4020

*Penthorum sedoides***Cucurbitaceae**R^H*Melothria pendula***Cupressaceae**

H

*Juniperus virginiana***Cuscutaceae**

NR 3901

R^HR^H*Cuscuta* sp.*Cuscuta gronovii**Cuscuta pentagona***Cyperaceae**

NR 3501

NR 3889

H

H

NR 3888

Carex sp.*Cyperus* sp.*Cyperus strigosus**Fuirena simplex**Scirpus* sp.**Dipsacaceae**R^H*Scabiosa atropurpurea***Ebenaceae**R^H*Diospyros virginiana***Euphorbiaceae**R^HR^H, NR 3906R^H, NR 4079

NR 3904

R^H*Croton monanthogynous**Ditaxis mercurialina**Euphorbia bicolor**Euphorbia corollata**Stillingia texana***Fabaceae**R^H

NR 3437

H

NR 4231

H

H

R^H

H

NR 4242

R^H

(NR, pers. obs.)

(NR, pers. obs.)

R^H

(NR, pers. obs.)

R^HR^H

H

H

R^HR^HR^H*Amorpha fruticosa**Astragalus* sp.*Astragalus carnosus**Astragalus crassicaarpus* var. *crassicaarpus**Astragalus lotiflorus**Baptisia australis**Baptisia sphaerocarpa**Cercis canadensis**Chamaecrista fasciculata**Dalea compacta**Dalea purpurea**Desmanthus illinoensis**Desmodium glutinosum**Desmodium tweedyi**Gleditsia triacanthos**Lespedeza violacea**Lupinus texensis**Medicago minima**Medicago sativa**Melilotus albus**Mimosa roemeriana*

R ^H , CC 98	<i>Oxytropis lambertii</i>
R ^H	<i>Pediomelum cuspidatum</i>
NR 4271	<i>Pediomelum linearifolium</i>
R ^H	<i>Prosopis glandulosa</i>
R ^H	<i>Psoraleidum tenuiflorum</i>
H, NR 3950	<i>Sophora affinis</i>
R ^H	<i>Trifolium incarnatum</i>
R ^H	<i>Trifolium repens</i>
CC 99	<i>Vicia sp.</i>
H	<i>Vicia sativa</i>
Fagaceae	
NR 3952	<i>Quercus sp.</i>
H	<i>Quercus buckleyi</i>
H	<i>Quercus macrocarpa</i>
R ^H	<i>Quercus sinuata</i> var. <i>breviloba</i>
R ^H	<i>Quercus stellata</i>
Fumariaceae	
H	<i>Corydalis micrantha</i>
Gentianaceae	
NR 4270	<i>Centaurium floribundum</i>
Geraniaceae	
H, NR 3022	<i>Erodium cicutarium</i>
NR 3540	<i>Geranium sp.</i>
R ^H , NR 3827	<i>Geranium carolinianum</i>
NR 3828	<i>Geranium dissectum</i>
H	<i>Geranium texanum</i>
Hyacinthaceae	
H, NR 4015	<i>Camassia scilloides</i>
H	<i>Muscari neglectum</i>
Hydrophyllaceae	
NR 4233	<i>Nemophila phacelioides</i>
Iridaceae	
R ^H	<i>Nemastylis geminiflora</i>
CC 101	<i>Sisyrinchium sp.</i>
R ^H	<i>Sisyrinchium albidum</i>
Juglandaceae	
R ^H	<i>Carya illinoensis</i>
R ^H	<i>Juglans nigra</i>
Juncaceae	
NR 3890	<i>Juncus sp.</i>
Krameriaceae	
H, NR 3396	<i>Krameria lanceolata</i>
Lamiaceae	
NR 3945	<i>Hedeoma sp.</i>
H	<i>Hedeoma drummondii</i>

R ^H	<i>Hedeoma hispida</i>
H, NR 3362	<i>Lamium amplexicaule</i>
R ^H	<i>Marrubium vulgare</i>
R ^H , NR 3902	<i>Monarda fistulosa</i> var. <i>mollis</i>
R ^H	<i>Monarda punctata</i>
NR 3896	<i>Physostegia</i> sp.
H, NR 3895	<i>Physostegia intermedia</i>
NR 3120	<i>Salvia</i> sp.
H, NR 3502	<i>Salvia farinacea</i>
NR 3114	<i>Scutellaria</i> sp.
H, NR 4016	<i>Scutellaria drummondii</i>
H	<i>Scutellaria wrightii</i>
R ^H , NR 4243	<i>Teucrium canadense</i>
Lemnaceae	
NR 3643	<i>Spirodela polyrhiza</i>
Lentibulariaceae	
NR 3244	<i>Utricularia gibba</i>
Liliaceae	
H, NR 3018	<i>Erythronium albidum</i>
Linaceae	
NR 4232	<i>Linum</i> sp.
H, NR 4225	<i>Linum pratense</i>
Lythraceae	
H, NR 3245	<i>Ammania coccinea</i>
R ^H , NR 4081	<i>Lythrum alatum</i> var. <i>lanceolatum</i>
Malvaceae	
R ^H	<i>Abutilon theophrasti</i>
H	<i>Callirhoe involucrata</i>
H, CC 109	<i>Callirhoe pedata</i>
R ^H	<i>Malva neglecta</i>
H	<i>Sida spinosa</i>
Melastomataceae	
R ^H	<i>Rhexia mariana</i>
Meliaceae	
H	<i>Melia azedarach</i>
Menispermaceae	
R ^H	<i>Cocculus carolinus</i>
Moraceae	
H	<i>Maclura pomifera</i>
R ^H	<i>Morus alba</i>
H	<i>Morus rubra</i>
Nyctaginaceae	
CC 87	<i>Mirabilis</i> sp.
R ^H	<i>Mirabilis nyctaginea</i>

Oleaceae

NR 3023
 R^H
 H
 R^H
 H
 R^H, NR 4083
 NR 3119
 NR 3031
 R^H
 H

Forestiera sp.
Forestiera acuminata
Forestiera pubescens
Fraxinus americana
Fraxinus pennsylvanica
Fraxinus texensis
Ligustrum sp.
Ligustrum japonicum
Ligustrum quihoui
Ligustrum sinense

Onagraceae

R^H
 NR 3267
 R^H
 NR 4197
 NR 3639
 R^H
 NR 3113
 R^H
 R^H
 H
 R^H
 R^H, NR 3266

Calylophus serrulatus
Gaura sp.
Gaura parviflora
Ludwigia octovallis
Ludwigia peploides
Ludwigia repens
Oenothera sp.
Oenothera biennis
Oenothera macrocarpa
Oenothera speciosa
Oenothera triloba
Stenosiphon linifolius

Orchidaceae

R^H

Spiranthes cernua

Oxalidaceae

H, CC 103
 R^H

Oxalis stricta
Oxalis violacea

Papaveraceae

R^H

Papaver rhoeas

Passifloraceae

R^H
 R^H, NR 4148

Passiflora incarnata
Passiflora lutea

Phrymaceae

R^H, NR 4272

Phryma leptostachya

Phytolaccaceae

R^H
 R^H

Phytolacca americana
Rivina humilis

Plantaginaceae

NR 3122

Plantago sp.

Platanaceae

H

Platanus occidentalis

Poaceae

H
 H

Aegilops cylindrica
Andropogon gerardii

H	<i>Andropogon glomeratus</i>
H	<i>Andropogon virginicus</i>
H	<i>Aristida purpurea</i> var. <i>purpurea</i>
H	<i>Bothriochloa ischaemum</i>
H	<i>Bothriochloa laguroides</i> subsp. <i>torreyana</i>
H	<i>Bouteloua curtipendula</i>
H	<i>Bouteloua rigidseta</i>
H	<i>Bromus catharticus</i>
H	<i>Bromus japonicus</i>
H	<i>Buchloe dactyloides</i>
H	<i>Chloris verticillata</i>
NR 3900	<i>Echinochloa</i> sp.
H	<i>Echinochloa colona</i>
H, NR 3640	<i>Echinochloa crus-galli</i>
H	<i>Elymus virginicus</i>
H	<i>Eriochloa sericea</i>
H	<i>Festuca arundinacea</i>
NR 3891	<i>Leersia</i> sp.
NR 4196	<i>Leersia oryzoides</i>
H, NR 3702	<i>Leptochloa mucronata</i>
H	<i>Lolium perenne</i>
H	<i>Lolium temulentum</i>
H	<i>Nassella leucotricha</i>
H	<i>Panicum capillare</i>
H	<i>Panicum oligosanthos</i>
H	<i>Paspalum dilatatum</i>
H	<i>Paspalum distichum</i>
H	<i>Phalaris caroliniana</i>
H	<i>Poa annua</i>
H	<i>Poa sylvestris</i>
H	<i>Schedonnardus paniculatus</i>
H	<i>Schizachyrium scoparium</i>
H	<i>Setaria parviflora</i>
H	<i>Setaria pumila</i>
H	<i>Sporobolus compositus</i>
H	<i>Tridens flavus</i>
NR 4201	<i>Urochloa platyphylla</i>
H	<i>Vulpia octoflora</i>

Polemoniaceae

H, NR 4246

NR 4017

*Ipomopsis rubra**Phlox drummondii***Polygonaceae**

NR 3704

H, NR 4204

NR 4202

NR 4203

NR 3638

R^H*Polygonum* sp.*Polygonum amphibium* var. *emersum**Polygonum lapathifolium**Polygonum punctatum**Polygonum setaceum**Rumex hymenosepalus***Pontederiaceae**

NR 3642

*Pontederia cordata***Portulacaceae**R^H*Portulaca oleracea*

Primulaceae

NR 3527

Samolus valerandi subsp. *parviflorus***Ranunculaceae**

H, NR 3348

NR 3497

R^HR^H

NR 3774

H, NR 3994

*Anemone berlandieri**Clematis* sp.*Clematis pitcheri**Delphinium carolinianum**Ranunculus* sp.*Ranunculus abortivus***Rhamnaceae**R^H

H, NR 4230

H

*Berchemia scandens**Ceanothus herbaceus**Frangula caroliniana***Rosaceae**R^H

H

R^H, NR 3476

NR 3036

H

H

R^HR^H

CC 106

R^HR^HR^H

H

R^H*Crataegus crus-galli**Crataegus mollis**Geum canadense**Prunus* sp.*Prunus angustifolia**Prunus mexicana**Prunus munsoniana**Prunus rivularis**Rosa* sp.*Rosa bracteata**Rosa foliolosa**Rosa setigera* var. *tomentosa**Rubus flagellaris**Rubus trivialis***Rubiaceae**R^H

NR 3887

H, NR 3440

R^H

NR 4013

R^H, NR 3948R^H*Cephalanthus occidentalis**Diodia virginiana**Galium aparine**Galium tinctorium**Galium virgatum**Hedyotis nigricans**Houstonia pusilla***Rutaceae**

H

*Zanthoxylum clava-herculis***Salicaceae**

H

H

*Populus deltoides**Salix nigra***Sapindaceae**

H

H

*Cardiospermum halicacabum**Sapindus saponaria* var. *drummondii***Sapotaceae**

H

Sideroxylon lanuginosum subsp. *oblongifolium*

Scrophulariaceae

NR 3702

H

H, CC 107

R^H

H

R^HR^HR^HR^HR^H

NR 4014

NR 3826

H

R^H*Agalinis* sp.*Agalinis heterophylla**Castilleja indivisa**Dasistoma macrophylla**Leucospora multifida**Mimulus alatus**Penstemon cobaea**Penstemon digitalis**Verbascum blattaria**Verbascum thapsus**Veronica peregrina**Veronica peregrina* subsp. *xalapensis**Veronica persica**Veronica polita***Simaroubaceae**

NR 4076

*Ailanthus altissima***Smilacaceae**R^HR^H*Smilax bona-nox**Smilax tamnoides***Solanaceae**

NR 3325

H

R^HR^HR^HR^HR^H

H

Physalis sp.*Physalis angulata**Physalis cinerascens**Physalis virginiana**Solanum carolinense**Solanum dimidiatum**Solanum elaeagnifolium**Solanum rostratum***Themidaceae**R^H*Androstephium coeruleum***Typhaceae**R^H*Typha latifolia***Ulmaceae**

H

R^H

H

H, NR 3953

H

Celtis laevigata var. *laevigata**Celtis laevigata* var. *reticulata**Ulmus americana**Ulmus crassifolia**Ulmus rubra***Urticaceae**

H, NR 3992

*Urtica chamaedryoides***Valerianaceae**

NR 3033

H

H, NR 3449

Valerianella sp.*Valerianella amarelle**Valerianella radiata***Verbenaceae**

H, NR 3441

Glandularia bipinnatifida

NR 3637

R^H

NR 4292

R^H

NR 3636

*Lippia lanceolata**Lippia nodiflora**Verbena brasiliensis**Verbena halei**Verbena urticifolia***Violaceae**

NR 3035

H

*Viola sp.**Viola missouriensis***Viscaceae**R^H, NR 3743*Phoradendron tomentosum***Vitaceae**R^H, NR 4082R^H, NR 4294R^HR^HR^HR^H*Ampelopsis arborea**Ampelopsis cordata**Cissus incisa**Parthenocissus quinquefolia**Vitis mustangensis**Vitis vulpina*