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A FLORISTIC STUDY OF DAWES COUNTY, NEBRASKA

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ABSTRACT: Physical features pertinent to the flora of Dawes County are summarized. A checklist of the known taxa with notes on ecology and origin of each form follows the Literature cited.

This study was undertaken because the need for a reasonably complete list of flowering plants and for a plant collection of the Chadron vicinity has been felt in the botany courses taught at Chadron State College.

The plants reported in this annotated list were collected from several sites throughout the county by the authors during the 1970 and 1971 growing seasons. However, in order to make the list more complete, plants which were already in the collection at Chadron State College are included, as are those reported from a nearby site in Sioux County.

Little floristic research has been published specifically on this area. Tolstead (1947) presented a general survey of the vegetation for the Pine Ridge, and Nixon (1967) did a vegetational study of a site in Sheridan County.

Dawes County is located in northwestern Nebraska. It borders South Dakota on the north and only Sioux County separates it from Wyoming on the west.

The climate is dry continental. The normal, annual amount of precipitation is about 19 inches. Seventy percent of this falls during the growing season. The winters are cold, with January having the lowest mean temperatures of about 25° F. The mean summer temperature is in the 70's. The warmest temperatures occur during late July when the mean highs range from 90 to 92° F. The growing season averages about 130 days in length. Normally, the latest "killing" frost in spring occurs during mid May, while the earliest in fall occurs during late September (Visher, 1954).

Dawes County lies, in part, in two different physiographic provinces. The Pine Ridge Escarpment, the county's most prominent geologic feature, marks the northern boundary of the Northern High Plains and the southern boundary of the unglaciated Missouri Plateau. The Pine Ridge is characterized by buttes, ridges, vertical slopes, and deep canyons. The Missouri Plateau is distinguished from the High Plains by deep erosion and has badlands developed at some sites (Fenneman, 1931). The White and Niobrara Rivers are the two major streams which cross the county (Fig. 1).

The soils of Dawes County have a tremendous range from "gumbo clays" to sands with an intermittance of badlands and fairly fertile soils. The gumbo
clays (Pierre Series) developed from shales in the northern part of the county where badlands, outcrops of tertiary sandstone, and alkaline “flats” also occur. Eppling soils which have a silty loam texture also occur on the long downslope north of the Pine Ridge. The soils south of the Pine Ridge on the Box Butte Table (the Dawes and Rosebud Series) are of sandstone and silt loam origin and are generally deep with a loamy texture. Much of this area is in cultivation. Laural type soils are developed from loamy and sandy alluvium at many sites along streams (Elder, 1969).

Dawes County is centrally located in the Mixed Prairie Grassland Formation. The dominant grasses on the plains are species of *Stipa* and *Bouteloua* (Gould, 1968). *Agropyron smithii*, *Koeleria cristata*, *Schizachyrium scoparium*, *Andropogon gerardii*, *Calamovilfa longifolia*, and the sedge *Carex filifolia* are other important elements of the prairie. Much of the area is still occupied by the native prairie, but wheat, grain sorghum, and
alfalfa are cultivated on more favorable sites. The dry slopes and ridges of the Pine Ridge Escarpment serve as a refugium for *Pinus ponderosa* and associated woody species, such as *Juniperus scopulorum*, *Prunus virginiana*, and *Shepherdia argentea*. Interspersed among the pine and woody shrubs are elements of the mixed-grass prairie (Nixon, 1967). The moist canyons of the Pine Ridge provide favorable habitats for *Ulmus americana*, *Fraxinus pensylvanica*, and *Populus sargentii*. Occasionally, *Celtis occidentalis* and *Populus tremuloides* are encountered. These moist, shady ecotones contain a number of herbs characteristic of the more mesic eastern flora.

The families, genera, and species of the checklist are arranged alphabetically for easier reference by students. An attempt was made to use the most current nomenclature for the included taxa by reference to recent monographs and regional floras. Synonyms are given only for recent nomenclatural changes for common plants. Voucher specimens for most taxa are deposited in the plant collection at Chadron State College. While the checklist is still incomplete, it is hoped that this effort will serve as a basis for still more intensive and complete studies of the Western Nebraska flora.

**ACKNOWLEDGEMENTS**

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**LITERATURE CITED**


**A LIST OF THE FLOWERING PLANTS FOR DAWES COUNTY**

**ACERACEAE**

+ *Acer glabrum* Torr., canyons
+ *A. negundo* L., occasional in moist areas near streams; also cultivated
LIFE SCIENCES

ALISMATACEAE
   *Alisma gramineum* Gmel. var. *angustissimum* (DC.) Hendricks, shallow water around the edges of ponds
   *A. plantago-aquatica* L., in shallow water and mud
   *Sagittaria cuneata* Sheld., usually in shallow water

AMARANTHACEAE
   *Amaranthus albus* L., fields and waste ground
   *A. graecizans* L., disturbed areas, weedy; found in Europe, Asia, Africa and South America
   *A. hybridus* L., disturbed areas, weedy; occurs throughout the world
   *A. retroflexus* L., disturbed areas, weedy; occurs also in Eurasia

ANACARDIACEAE
   *Rhus aromatica* Ait., hillsides and canyons
   *R. glabra* L., moist valleys
   *R. toxicodendron* L., open woods and hillsides
   *R. tri/obata* Nutt. ex T. & G., dry hillsides and plains

APOCYNACEAE
   *Apocynum androsaemifolium* L., woods and fields
   *A. sibiricum* Jacq., moist soil, near streams or in ditches

ASCLEPIADACEAE
   *Asclepias pumila* (A. Gray) Vail, dry plains and hills
   *A. speciosa* Torr., plains and valleys
   *A. stenophylla* Gray, dry prairies and plains
   *A. viridiflora* Raf., dry plains

BERBERIDACEAE
   *Mahonia aquifolium* (Pursh.) Nutt., hills and slopes, often in partial shade

BORAGINACEAE
   *Cryptantha jamesii* (Torr.) Payson, dry ground
   *Cynoglossum officinalis* L., weedy, fields and meadows
   *Hackelia deflexa* (Wahl.) Opiz., moist, shady woods
   *H. floribunda* (Lehm.) Johnston, open, moist woods
   *Lappula echinata* Gilib., weedy in open ground; introduced from Europe
   *L. redowskii* (Hornem.) Greene, dry or sandy ground; from Eurasia
   *Lithospermum incisum* Lehm., dry plains and slopes
   *Onosmodium molle* Michx., plains and slopes

CACTACEAE
   *Mammillaria vivipara* (Nutt.) Haw., dry prairies and plains
   *Opuntia fragilis* (Nutt.) Haw., dry prairies and plains
   *O. humifusa* Raf., dry prairies and plains

CAMPANULACEAE
   *Campanula rotundifolia* L., dry woods and meadows
   *Lobelia siphilitica* L., along streams, wet ground

CAPPARIDACEAE
   *Cleome serrulata* Pursh, open ground, plains, roadsides

CAPRIFOLIACEAE
   *Sambucus canadensis* L., moist fields and woods
   *Symphoricarpos occidentalis* Hook., dry prairies and low moist ground
CAR YO PHYLIACEAE

_Arenaria hookeri_ Nutt. ex T. & G., rocky habitats
_Cerastium arvense_ L., rocky, gravelly areas
_C. vulgatum_ L., weedy; native of Eurasia
_Holosteum umbellatum_ L., lawn weed; from Eurasia
_Lychnis alba_ Mill., waste places
+ _Paronychia jamesii_ T. & G., dry plains and hills
_Stellaria media_ (L.) Cyrill., weedy; from the Old World

CELASTRACEAE

_Celastrus scandens_ L., thickets, deeper soils

CHENOPODIACEAE

_Atriplex patula_ L., alkaline soil
_Chenopodium album_ L., weedy, disturbed habitats
_C. fremontii_ S. Wats., canyons and slopes
_C. gigantosperrum_ Aellen, moist woods
_C. leptophyllum_ (Mog.) Nutt. ex Wats. (_C. pratericola_ Rydb.), prairies, barrens, and waste grounds
_Kochia scoparia_ (L.) Schrad., weedy; from Europe
_Monolepis nuttalliana_ (Schult.) Greene, dry, alkaline places
_Salsola kali_ L., weedy, dry, disturbed areas; from Asia

COMMELINACEAE

_Tradescantia occidentalis_ (Britt.) Smyth., dry prairies and plains

COMPOSITAE

_Achillea millefolium_ L., weedy; from Europe
_Agoseris glauca_ (Pursh) D. Dietr., prairie hillsides
_Ambrosia artemisifolia_ L., widespread weed, wastelands
_A. psilostachya_ DC., plains and hills
_A. trifida_ L., wastelands and fields, moist ground
+ _Antennaria campestris_ Rydb., prairies
_A. neglecta_ Greene, fields and pastures
_A. neodivica_ Greene, dry fields, pastures, and open woods
_A. obovata_ E. Nels. plains and hills
_A. rosea_ (D.C. Eat.) Greene, meadows and hills
_Arctium minus_ (Hill) Bernh., wastelands, weedy; from Europe
_Artemisia frigida_ Willd., dry plains and hills
_A. glauca_ Pallas, plains
_A. ludoviciana_ Nutt., plains and hills
_Aster ericoides_ L., plains, roadsides
_A. hesperius_ Gray, meadows and thickets
_A. occidentalis_ (Nutt.) T. & G., plains and hills
_A. simplex_ Willd. (_A. paniculatus_ Lam.), moist soil
_Bahia oppositifolia_ (Nutt.) DC., dry plains and hills
_Bidens cernua_ L., wet ground
+ _B. frondosa_ L., wastelands, usually wet soil
_Carduus nutans_ L., weedy; native to Europe
_Chrysothamnus nauseosus_ (Pallas) Britt., dry hills and plains
_Cirsium arvense_ (L.) Scop., weedy; introduced from Europe
* _C. lanceolatum_ (L.) Hill, pastures and roadsides

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*C. plattense* (Rydb.) Fernald, plains
*C. undulatum* (Nutt.) Spreng., dry open soil  
*Conyza canadensis* (L.) Cronquist, dry hills and plains, wasteplaces; Europe  
*Crepis runcinata* T. & G., moist meadows  
*Echinacea angustifolia* DC., plains and hills  
*Erigeron annuus* (L.) Pers., weedy  
*E. flagellaris* A. Gray, open banks and slopes  
*E. glabellus* Nutt. var. *glabellus* Cronq., dry plains and hills  
*E. philadelphicus* L., somewhat weedy, woods and fields  
*E. pumilus* Nutt., dry hills  
*E. strigosus* Muhl. ex Willd., fields and hillsides  
*Grindelia squarrosa* (Pursh) Dunal, prairies, plains, roadsides  
*Gutierrezia sarothrae* (Pursh) Britt. & Rusby, dry plains and hills  
*Haplopappus grindelioides* (Nutt.) Shinners, dry plains and hills  
*H. spinulosus* (Pursh) DC., dry hills  
*Helianthus annuus* L., weedy, prairies and dry places  
*H. laetiflorus* Pers. (*H. rigidus* (Cass.) Desf.), dry prairies and plains  
*H. nuttallii* T. & G., moist soil  
*H. petiolaris* Nutt., prairies, plains, wasteplaces  
*H. tuberosus* L., moist rich thickets  
*Heterotheca villosa* (Pursh) Shinners (*Chrysopsis villosa* (Pursh) Nutt.) dry ground  
*Hymenopappus filifolius* Hook., dry hills and plains  
*Hymenoxys acaulis* (Pursh) Parker, rocky slopes, plains  
*Iva xanthifolia* Nutt., moist places, fields  
*Kuhnia eupatorioides* L., dry prairies and hills  
*Lactuca canadensis* (Pursh) DC., dry hills  
*L. pulchella* (Pursh) DC., meadows and roadsides, moist ground  
*L. serriola* L., wasteplaces and fields, weedy  
*Liatris punctata* Hook., dry soil and on dry hillsides  
*Lygodesmia juncea* (Pursh) D. Don, dry ground, plains and hills  
*Machaeranthera sessiliflora* (Nutt.) Greene, plains, usually near streams  
*Ratibida columnaris* (Sims) D. Don, plains and hills  
*Rudbeckia hirta* L., plains and hills  
*Senecio canus* Hook., dry hills  
*S. integrerrimus* Nutt., meadows, moist slopes  
*Senecio pseudoaureus* Rydb., meadows and valleys  
*S. riddellii* T. & G., plains  
*Solidago altissima* L., often along streams  
*S. gigantea* Ait., meadows, valleys, and plains, moist  
*S. missouriensis* Nutt., plains and hills  
*S. mollis* Bartl., dry plains and hills  
*S. rigidus* L., prairies  
*Taraxacum officinale* Wiggers, weedy, lawns and roadsides  
*Thelesperma megapotamicum* (Spreng.) Kuntze, plains and hills  
*T. trifidum* (Poir.) Britt., dry plains and hills  
*Townsendia exscapa* (Rich.) Porter, plains and hills  
*Tragopogon dubius* Scop., wasteplaces; from Europe  
*Xanthium strumarium* L., fields, wasteplaces, flood plains  
*Ximenia encelioides* Cav. (*Verbesina encelioides* (Cav.) Benth. & Hook. ex Gray), plains
CONVOLVULACEAE

*Convolvulus arvensis* L., common weed; from Europe
*C. sepium* L., thickets along streams

CORNACEAE

*Coriaria stolonifera* Michx., slopes, woods, moist areas, near streams

CRASSULACEAE

+ *Sedum stenopetalum* Pursh, rocky slopes and ridges

CRUCIFERAE

*Alyssum alyssoides* L., weedy; from Europe
*Arabis holboellii* Hornem., dry hillsides
*Berteroa incana* (L.) DC., along stream; native to Europe
*Brassica kaber* (DC.) L. Wheeler, weedy
*Camelina microcarpa* Andrz., weedy; from Europe
*Capsella bursa-pastoris* (L.) Medic., common weed in gardens and lawns; naturalized from Europe
*Cardaria draba* (L.) Desv., weedy, roadsides
*Chorispora tenella* DC., weed in disturbed lawns and fields; from Asia
*Conringia orientalis* (L.) Andrz., weedy; from Europe
*Descurainia pinnata* (Walt.) Britt., weedy, lawns, roadsides, and fields
*D. sophia* (L.) Webb ex Prantl., weedy; from Europe
*Draba reptans* (Lam.) Fernald, dry sandy soil, hills and ridges
*Erysimum asperum* (Nutt.) DC., roadsides and plains
*E. cheiranthoides* L., moist shady valleys
*E. repandum* L., wasteplaces and roadsides
*Lepidium virginicum* L., banks, plains, weedy
*Lesquerella ludoviciana* (Nutt.) S. Wats., rocky slopes, hills and plains
*Nasturtium officinale* R. Br., aquatic, clear water; from Eurasia
*Rorippa amoracia* (L.) A.S. Hitchc., moist ground; naturalized from Europe
*R. sinuata* (Nutt.) A.S. Hitchc., wasteplaces, moist
*Sisymbrium altissimum* L., weedy; from Europe
*Stanleya pinnata* (Pursh) Britt., dry, rocky soil
*Thlaspi arvense* L., weedy; from Europe

CUCURBITACEAE

*Echinocystis lobata* (Michx.) T. & G., banks, wasteplaces

CYPERACEAE

*Carex aquatilis* Wahl. var. *altior* (Rydb.) Fern., stream & pond margins
*C. brevior* (Dewey) Mack., dry open soil
*C. filifolia* Nutt., hillsides and plains
*C. hysterica* Muhl., swales and swamps
*C. lanuginosa* Michx., rich meadows and swamps
*C. molesta* Mack., moist open grounds, borders of woods
*C. nebraskensis* Dewey, moist ground
*C. praegracilis* W. Boott., low open ground and prairies
*C. spengelli* Dewey, thickets and woods
*Cyperus aristatus* Rothb., damp silts and alluvium
*C. rivalavis* Knuth., wet muddy places
*Eleocharis palustris* (L.) R. & S. (E. macrostachya Britt.), wet ground, near ponds and in wet roadside ditches
*Scirpus americanus* Pers., wet ground, edges of ponds and streams

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S. atrovirens Willd., wet ground, edges of ponds and streams
S. maritimus var. paludosus (A. Nels.) Kukenth., fresh water of alkaline marshes
S. validus Vahl., wet ground, shallow water

ELAEAGNACEAE
Elaeagnus angustifolia L., mostly cultivated; native to Europe
Shepherdia argentea (Pursh) Nutt., banks and valleys along streams

LATINACEAE
Bergia texana (Hook.) Seubert., muddy shores of ponds

EUPHORBIACEAE
Croton texensis (Klotzsch) Muell., dry prairies
Euphorbia esula L., moist disturbed habitats, weedy; from Eurasia
E. geyeri Engelm., sandy soils
E. glyptosperma Engelm., dry, sandy soil
E. hexagona Nutt., prairies, plains, usually sandy soils
E. marginata Pursh, prairies and plains
E. missurica Raf., rocky or sandy soil
E. robusta (Engelm.) Small, very dry hillsides
E. serpyllifolia Pers., weedy

FUMARIACEAE
Corydalis aurea Willd., along banks

GRAMINEAE
Agropyron cristatum (L.) Gaertn., prairies; introduced from Europe
A. dasystachyum (Hook.) Scribn., roadsides and in fields
A. elosiatum (Host.) Beauv., moist soil along streams
A. interme (Scribn. & Smith) Rydb., low prairie
A. repens (L.) Beauv., roadsides and along fences; from Europe
A. smithii Rydb., hills and plains
A. trachycaulum (Link) Malte., various habitats
Agrostis elba L., moist meadows, escaped from cultivation
Alopecurus aequalis Sobol., in water and wet banks along streams
Andropogon gerardi Vitman, prairies and meadows
A. hallii Hack., sandy soil
Aristida longiseta Steud., dry rocky slopes
A. oligantha Michx., dry soil
Beckmannia syzigachne (Steud.) Fern., marshes and wet ditches
Bouteloua curtipendula (Michx.) Torr., plains and hillsides
B. gracilis (HBK.) Lag., plains and sand hills
B. hirsuta Lag., plains, rocky hills, and open ground
Bromus inermis Leyss., roadside ditches, escaped from cultivation
B. kalmii A. Gray, open soil or thickets
B. japonicus Thunb., fields and wastelands, weedy
B. racemosus L., disturbed sites; native to Europe
B. squarrosus L., waste places; introduced from Europe
B. tectorum L., waste places and disturbed areas, weedy
Buchloe dactyloides (Nutt.) Engelm., dry plains, prairies
Calamagrostis inexpecta A. Gray, along streams
C. neglecta (Enrhn.) Gaertn., marshes
Calamovilfa longifolia (Hook.) Scribn., sandy prairies
Cenchrus longispinus (Hack.) Fern., open and disturbed ground, weedy
Dactylis glomerata L., prairies, escaping from cultivation; from Europe
Digitaria sanguinalis (L.) Scop., gardens, lawns, and fields, weedy; native of Europe
Distichlis stricta (Torr.) Ryd., alkaline soil
Echinochloa crus-galli (L.) Beauv., moist open places and waste ground, weedy; native of Europe
Elymus canadensis L., river banks and in woods
Eragrostis cilianensis (All.) Link., cultivated ground, waste places; gardens and fields; naturalized from Europe
E. pilosa (L.) Beauv., weed in waste places; naturalized from Europe
Glyceria striata (Lam.) Hitch., moist ground; naturalized from Europe
+ Hesperochloa kingii (S. Wats.) Ryd., dry hillsides
Hordeum jubatum L., moist, open prairies, and waste grounds
Koeleria cristata (L.) Pers., prairies, open woods, and rocky hillsides
+ Leersia oryzoides (L.) Swartz., edges of ponds and creeks
+ Muhlenbergia cuspidata (Torr.) Ryd., prairies and plains, often on stony soil
M. racemosa (Michx.) B.S.P., moist, low ground along streams
Oryzopsis hymenoides (R. & S.) Ricker, hillsides and in open woods
O. microstachys (Trin. & Rupr.) Thurb., open dry woods and rocky slopes
+ Panicum capillare L., open ground, fields, gardens and waste places
P. scribnerianum Nash, meadows, dry prairies, rocky slopes
P. virgatum L., prairies and meadows
P. villosianum Vasey, dry prairies
+ Paspalum stramineum Nash, open woods, mainly in sandy soil
+ Phalaris arundinacea L., marshes, wet river banks, and wet meadows
Phleum pratense L., along roadsides and in fields, escaped from cultivation
Poa compressa L., open ground and in thin woods; from Europe
P. nemoralis L., various habitats; from Eurasia
P. pratensis L., meadows and fields; from Europe
P. scabrella (Thurb.) Benth., pastures
Puccinellia distans (L.) Parl., moist soils near streams; naturalized from Europe
Schizachyrium scoparium (Michx.) Nash (Andropogon scoparius Michx.), prairies, hills, and open woods
Setaria lutescens (Weigel) Hubb., weedy, disturbed habitats
S. verticillata (L.) Beauv., cultivated ground, gardens and waste places
S. viridis (L.) Beauv., cultivated ground of fields and gardens, weedy
Sorghastrum nutans (L.) Nash, meadows and bottom lands
Spartina pectinata Link, marshes, sloughs, and wet meadows
Sphenopholis obtusa (Michx.) Scribn., in meadows or damp woods
* Sporobolus cryptandrus (Torr.) A. Gray, sandy, open ground of prairies and plains
Stipa comata Trin. & Rupr., prairies and plains
S. viridula Trin., plains, dry slopes and hills
Triticum aestivum L., waif from cultivation
Vulpia octoflora (Walt.) Rydb. (Festuca octoflora Walt.), dry, sandy soil

HYDROPHYLLIACEAE
Ellisia nyctelea L., moist, richer soils

IRIDACEAE
Sisyrinchium montanum Greene, sandy, open ground and meadows

JUNCAGINACEAE
Triglochin maritima L., marshes and moist meadows
LIFE SCIENCES

JUNCAEAE

Juncus balticus Willd., moist meadows and in marshes
J. bufonius L., shallow water at the edges of ponds
J. torreyi Coville., low, wet usually sandy places

LABIATAE

Glecoma hederacea L., moist areas around gardens
Lamium amplexicaule L., wasteplaces and open ground, lawns, weedy; from Eurasia
Lamium cardia L., disturbed areas in moist woods; native of Asia
Lycopus americanus Muhl., along weedy stream banks
Menha arvensis L., moist places, along streams
M. gentilis L. var. cardia (Baker) Biovin, rich damp soil; from Europe
Monarda fistulosa L., upland woods, thickets, and prairies
+ M. pectinata Nutt., dry prairies
Nepeta cataria L., moist disturbed habitats; native of Eurasia
Selvia reflexa Hornem., dry, gravelly soil along roadsides
* Teucrium canadense L., moist ground of swamps and thickets

LEGUMINOSAE

Amorpha fruticosa L., banks of streams
Astragalus adsurgens Pall. var. robusta, dry areas
A. bisulcatus (Hook.) Gray, dry, rocky soil
A. crassicarpus Nutt., prairies and plains
A. drummondii Doug., dry hills and roadsides
A. gigilorum Sheld., prairie hillsides
A. gracilis Nutt., dry hillsides
+ A. missouriensis Nutt., dry areas
A. platensis Nutt., plains and prairies
A. sericoleucus Gray, dry, open soil
A. spatulatus Sheld., dry, rocky soil
Dalea aurea Nutt., pastures
D. enneandra Nutt., plains and hills
Gleditsia triacanthos L., cultivated
Glycyrrhiza lepidota Pursh, meadows and roadsides
Lathyrus ochroleucus Hook., dry woods and thickets
L. polymorphus Nutt., plains and hills
Lupinus argenteus Pursh, hills and plains
L. platensis S. Wats., plains and hills
* L. pusillus Pursh, sandy plains
Medicago lupulina L., lawns and wasteplaces
M. sativa L., waif from cultivation
Melilotus alba Desr., roadsides and disturbed areas, weedy, escaping from cultivation
M. officinalis (L.) Lam., roadsides and disturbed areas, weedy, escaping from cultivation
Oxytropis lambertii Pursh, dry prairies and hills
O. sericea Nutt. var. sericea, dry, rocky hillsides
Petalostemon candidus Michx., plains and hills
P. purpureum (Vent.) Rydb., plains and hills
Psoralea argophylla Pursh, plains and hills
P. cuspidata Pursh, plains and hills
P. esculenta Pursh, plains and hills

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P. lanceolata Pursh, plains and hills
P. tenelliflora Pursh, plains and hills
Thermopsis rhombifolia Nutt. ex Rich., dry hills and plains
Trifolium repens L., escaping from cultivation
Vicia americana Muhl. ex Willd., plains and thickets, valleys, roadsides

LEMNACEAE
Lemna minor L., aquatic, ponds and creeks

LILIACEAE
Allium textile Nels. & Macbr., dry plains and prairies
Asparagus officinalis L., wasteplaces; from Europe
Calochortus gunnisonii Watson, meadows and open slopes
C. nuttallii Torrey, dry plains and hillsides
Fritillaria atropurpurea Nutt., grassy hillsides
Leucocrinum montanum Nutt., sandy, prairie hillsides
Polygonatum biflorum (Walt.) Ell., moist woods
Smilacina stellata (L.) Desf., moist, shaded or open ground
Smilax herbacea L., woods and edges of clearings
Yucca glauca Nutt., dry prairies and plains
Zigadenus venenosus S. Wats., plains and prairies

LINACEAE
Linum lewisii Pursh, dry, rocky soil
L. rigidum Pursh, prairies and plains

LOASACEAE
Mentzelia decapetala (Pursh) Urb. & Gilg., plains and canyons
M. nuda (Pursh) T. & G., plains and hills, usually sandy soil

MALVACEAE
Althaea rosea L., waif from cultivation
Malva neglecta Wallr., wasteplaces, gardens and fields
*M. rotundifolia L., weedy; native of Europe
M. sylvestris L., in disturbed habitats; native of Eurasia
Sphaeralcea coccinea (Pursh) Rydb., dry plains and hills

MORACEAE
Cannabis sativa L., probably cultivated; native of Asia
Humulus lupulus Nutt. (H. americanus Nutt.), shaded canyon
Morus rubra L., cultivated

NYCTAGINACEAE
Mirabilis hirsuta (Pursh) Macm., dry, sandy ground
M. linearis (Pursh) Heimerl., dry ground
M. nyctaginea (Michx.) Macm., usually moist, open ground

OLEACEAE
Fraxinus pensylvanica Marsh., moist woods

ONAGRACEAE
Circaea quadrirame (Maxim.) Franch. & Sav., moist woods
+Epilobium adenocaulon Hausskn., along stream banks
E. glandulosum Lehmn., wet places along streams
Gaura coccinea Nutt. ex Pursh, plains and prairies, often in disturbed ground
G. parviflora Dougl. ex Hooker, roadsides and open ground

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LIFE SCIENCES

*Oenothera albicaulis* Pursh, plains and hills
*O. biennis* L., wasteplaces in fields and prairies
*O. caespitosa* Nutt. ex Fraser, dry ground
*O. lavendulaeefolia* T. & G., plains and hills
*O. nuttallii* Sweet., plains and slopes, often sandy soil
*O. serrulata* Nutt., dry plains and hills

**OXALIDACEAE**
*Oxalis stricta* L., woods and cultivated ground

**PAPAVERACEAE**
*Argemone intermedia* Sweet, plains and slopes

**PHRYMACEAE**
*Phryma leptostachya* L., moist woods

**PLANTAGINACEAE**
*Plantago elongata* Pursh, usually moist ground
*P. eriopoda* Torr., meadows and plains
*P. major* L., wasteplaces, lawns and gardens; naturalized from Europe
*P. purshii* Roem. & Schult., plains and slopes often sandy soil

**POLEMONIACEAE**
*Collomia linearis* Nutt., open ground in sandy soil
*Microsteris humilis* (Dougl.) Greene, pine wooded hillsides
*Phlox austromontana* Coville., dry plains and hills

**POLYGALACEAE**
*Polygala alba* Nutt., dry hills and plains

**POLYGONACEAE**
*Eriogonum annuum* Nutt., sandy hills and plains
*E. flavum* Nutt., dry hills and plains
*E. multiceps* Nees., dry ground, badlands
*Polygonum aviculare* L., waste ground, around gardens and in lawns
*P. coccineum* Muhl. ex Willd., shallow water at edge of ponds
*P. convolvulus* L., wasteplaces around gardens and lawns
*P. erectum* L., wasteplaces
*P. lapathifolium* L., wet ground along streams
*P. persicaria* L., moist ground along streams
*P. punctatum* Ell., wet soil and shallow water
*P. ramosissimum* Michx., roadsides
*Rumex altilissimus* Wood, moist, open ground
*K. crispus* L., moist, waste ground
*R. maritimus* L., stream banks and wet ground
*R. obtusifolius* L., moist, waste ground
*R. venosus* Pursh, wasteplaces, dry ground

**PRIMULACEAE**
*Androsace occidentalis* Pursh, dry, usually sandy soil

**RANUNCULACEAE**
*Actaea rubra* (Ait.) Willd. f. *neglecta* (Gillman) Robins, moist woods
*Anemone cynthrida* A. Gray, meadows and slopes
*A. paeonis* (L.) Mill., pine wooded hillsides
*Aquilgia canadensis* L., moist woods
*Clematis ligusticifolia* Nutt. ex T. & G., roadsides and thickets
TRANSACTIONS OF THE NEBRASKA ACADEMY OF SCIENCES

Delphinium nelsoni Greene, prairies
D. virescens Nutt., prairies
Ranunculus abortivus L., moist woods
R. macounii Britt., marshes and wet meadows
R. pennsylvanicus L., marshes and wet ditch banks
R. testiculatus Crantz., weedy; from the Old World
Thalictrum dasycarpum Fisch. and Lall. ex Fisch., moist woods

ROSACEAE
Agrimonia striata Michx., moist woods
Amelanchier alnifolia Nutt., dry hillsides
Cercocarpus montanus Raf., on dry hills
Crataegus susculenta Link., dry open woods
Fragaria vesca L., wooded hillsides
Geum canadense Jacq., dry or moist woods
Potentilla arguta Pursh, dry woods and prairies
P. norvegica L., moist meadows and woods
P. paradoxa Nutt. ex T. & G., moist or wet soil
P. pennsylvanica L., dry hillsides
Prunus americana Marsh., slopes and valleys
P. virginiana L., hills, valleys, and banks
*Rosa woodsii Lindl., plains and hills
Rubus occidentalis L., wooded slopes

RUBIACEAE
Galium aparine L., moist, shady habitats
G. boreale L., slopes and valleys along streams

SALICACEAE
Populus sargentii Dode, along streams
P. tremuloides Michx., canyons
Salix amygdaloides Anderss., moist, alluvial soil
S. exigera Nutt. var. interior (Rowlee)
*S. interior Rowlee, moist, alluvial soil
S. lucida Muhl. low ground

SANTALACEAE
Comandra pallida A. DC., dry hills and plains

SAXIFRAGACEAE
Huechera richardsonii R. Br., sandy soil, in woods
Ribes americanum Mill., woods and thickets
R. aureum Pursh, hills and plains usually near streams
*R. cereum Dougl., dry slopes
R. missouriense Nutt., upland woods near streams
R. odoratum Wendl., rocky hillsides
R. setosum Lindl., woods and thickets

SCROPHULARIACEAE
Besseya cinerea (Raf.) Pennell, dry pine wooded hillsides
Castilleja sessiliflora Pursh, dry, rocky, or sandy hills and plains
*Collinsia parviflora Dougl., dry soil, introduced
Linaria vulgaris Mill., roadsides, escaped; from Europe
Orthocarpus huteus Nutt., plains and hills

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Penstemon albidus Nutt., dry, sandy hills and plains
P. angustifolius Nutt., dry, sandy hillsides
P. eriantherus Pursh, plains
P. gracilis Nutt., meadows and plains
P. glaber Pursh, dry, sandy habitats near streams
Schrophularia lanceolata Pursh, open woods
Verbasum thapsus L., fields, roadsides, and wasteplaces; naturalized from Europe
Veronica americana Schwein. ex Benth., edges of streams
V. polita Fries, weed around lawns and gardens

SOLANACEAE
Hyoscyamus niger L., along roadsides; from Europe
*Physalis heterophylla* Nees., dry, sandy prairies
P. virginiana Mill., prairies and woodlands
Solanum nigrum L., disturbed habitats, weedy, gardens
S. rostratus Pursh, dry prairies and plains

TAMARICACEAE
Tamarix gallica L., marshy areas, also cultivated; European

TYPHACEAE
Typha angustifolia L., wet soil, edges of ponds
T. latifolia L., wet soil, edges of ponds

ULMACEAE
+Celtis occidentalis L., along streams; also cultivated
Ulmus americana L., along streams, also cultivated
U. pumila L., cultivated, sometimes escaping

UMBELLIFERAE
Borrelia erecta (Huds.) Cov., wet ground along streams
Cicuta maculata L., moist roadside ditches
Cotonum maculatum L., moist meadows and ditches
Cymopterus acaulis (Pursh) Raf., dry open ground
+ Lomatium nuttallii (A. Gray) Macbr., plains
L. orientale Coult. & Rose, dry hillsides
Musineon divaricatum (Pursh) Nutt., dry hills and plains
Osmorhiza longistylis (Torr.) DC., moist woods
Sanicula canadensis L., moist woods
S. marilandica L., woods and thickets

URTICACEAE
Parietaria pensylvanica MuH., disturbed, shady areas
Urtica dioica procera (Muhl.) Wedd., moist open ground and in thickets

VERBENACEAE
Verbena bracteata Lag. & Rodr., roadsides, fields, and wasteplaces
V. hastata L., moist pastures and meadows
V. stricta Vent., dry hills and plains
V. urticifolia L., moist, sandy soil

VIOLACEAE
Viola cuculloita Ait., wet meadows and swamps
V. nuttallii Pursh, valleys and slopes
V. papilionacea Pursh, damp woods, meadows, and lawns
TRANSACTIONS OF THE NEBRASKA ACADEMY OF SCIENCES

*V. rugulosa* Greene, moist woods
*V. tricolor* L., persisting from cultivation

**VITACEAE**

*Parthenocissus vitacea* (Knerr) Hitchc., banks and woods
*Vitis riparia* Michx., moist woods, along roadsides
*V. vulpina* L., banks, roadsides, and edges of woods

**ZYGOPHYLLACEAE**

*Tribulus terrestris* L., wastepaces and fields

Taxa reported by other persons:


+ LeMaire, Robert. 1966. Preliminary checklist of the plants of Rimrock Ranch (Sioux County). Unpublished. Specimens cited were not examined by the authors.

⊕ Plants collected by or under the direction of Miss Doris Gates, Chadron State College.