

## Annotated Check List of

## The Compositae of Marshall County, Oklahoma

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The field work on the Compositae was done during the summers of 1958, 1959, and 1960, at the Oklahoma University Biological Station, which is located in Marshall County. The specimens were studied during the 1959-1960 school year in the Bebb Herbarium at the University of Oklahoma. This research was under the guidance of Dr. George J. Goodman.

Marshall County is located on the southern boundary of the state in the east central section. Lake Texoma borders the county on the south and east, while the Washita River flows less than 10 miles north of its entire northern border. The county seat is at Madill, where the mean annual precipitation is 39 inches and the mean annual temperature is 63.8° F. The elevation varies generally between 600 and 800 feet. The western and southern portions of the county are covered with Trinity sand; the Fredricksburg group, including the Goodland Limestone, cuts across the county running in a north-south direction with an arm running west by northwest. The Washita group is on the east side of the Fredricksburg group. The soils in the county are of three major types: (1) black and fertile upland prairie covers the east and south central sections, occupying half of the county, (2) sandy riverbottom covers about one-quarter of the area, (3) sandhills also occupy about one-quarter of the area and are composed of sandy loam with a reddish clay subsoil. The two major vegetation types are tall grass prairie, which covers about three-quarters of the county and is centrally located, and forest which occurs on the extreme periphery in all directions.

86 species, 6 varieties, and 1 form representing 52 genera are here recorded from the county. In addition 4 taxa are listed as very likely occurring. Below is a list of the taxa. This is accompanied by pertinent synonymy, and notes as to their abundance, habitat, and blooming season.

- Achillea lanulosa** Nutt. Abundant. Disturbed fields and wood clearings. May-July.
- Ambrosia artimisiifolia** L. Frequent. Waste places. Aug.-Oct.
- Ambrosia psilostachya** DC. var. **lindheimeriana** (Scheele) Blankinship. Abundant. Waste places, dry or sandy soil. July-Oct.
- Ambrosia trifida** L. var. **texana** Scheele (*A. aptera* DC.) Abundant. Moist soil and waste places. Aug.-Oct.
- Antennaria plantaginifolia** (L.) Richards. Infrequent. Open woodlands. April-Aug.
- Aphanostephus skirrobasis** (DC.) Trel. Frequent. Sandy, silty, open ground or open woods. April-Aug.
- Artemisia ludoviciana** Nutt. var. **ludoviciana** Common. Prairie. Aug.-Sept.
- Artemisia ludoviciana** Nutt. var. **mexicana** (Willd.) Fern. (*A. mexicana* Willd.) Common. Prairie. Aug.-Sept.
- Aster drummondii** Lindl. [*A. sagittifolius* Willd. var. **drummondii** (Lindl.) Shinnery] Infrequent. Stream banks, woodlands. Aug.-Oct.
- Aster ericoides** L. (*A. multiflorus* Ait.) Frequent. Dry open areas. July-Oct.

- Aster subulatus** Michx. var. **ligulatus** Shinners. (*A. exilis* Ell.) Abundant. Wetland species around ponds and lakes. Aug.-Oct.
- Bidens** sp. Rare. One immature specimen found at the edge of a pond. July.
- Cacalia plantaginea** (Raf.) Shinners (*C. tuberosa* Nutt.) Infrequent. Generally found on limestone hills. June-Aug.
- Centaurea americana** Nutt. Abundant. Disturbed prairie, over-grazed fields, disturbed roadsides. May-July.
- Chaetopappa asteroides** DC. Not yet found in county, but its distribution indicates it probably grows there. Apr.-July.
- Chrysopsis pilosa** Nutt. (*Heterotheca pilosa* (Nutt.) Shinners) Common. Dry sandy or waste places. June-Sept.
- Cirsium** sp. One specimen only collected in wooded area near Lake Texoma. Identification not yet verified. June-July.
- Cirsium terrac-nigrae** Shinners. Common. Blackland prairie. June-Aug.
- Cirsium undulatum** (Nutt.) Spreng. Common. Prairie, open disturbed areas. May-Aug. *forma album* Farwell occurs infrequently.
- Conyza canadensis** (L.) Cron. var. **canadensis** (L.) Cron. (*Erigeron canadensis* L.) Common. Weedy species in moist waste places. Wetland species around ponds and lakes. June-Sept.
- Conyza canadensis** (L.) Cron. var. **glabrata** (Gray) Cron. Common. Found with the typical variety. June-Sept.
- Conyza ramosissima** Cron. (*Erigeron divaricatum* Michx.) Infrequent. Weedy plant in waste places, particularly sandy soil. Summer and fall.
- Coreopsis palmata** Nutt. Not yet collected in the county. Several specimens were found on the Baum limestone outcrop in southwest Johnston Co. The outcrop is also exposed in northwest Marshall Co. This species is to be expected there. June-July.
- Coreopsis tinctoria** Nutt. Common. Wet ground and waste places. June-Aug.
- Dyssodia tagetoides** T. & G. Infrequent. Rocky limestone hillsides. May-Aug.
- Echinacea atrorubens** Nutt. Infrequent. Prairie and dry woods, usually on limestone derived soils. May-July.
- Echinacea pallida** Nutt. Infrequent. Prairie, dry slopes, and waste places, usually on limestone derived soils. May-Aug.
- Eclipta alba** (L.) Hassk. (*Verbesina alba* L.) Infrequent. Wetland species growing at the edge of lakes and ponds, or in a few inches of water. July-Oct.
- Elephantopus carolinianus** Willd. Infrequent. Sandy areas. Aug.-Sept.
- Engelmannia pinnatifida** T. & G. Frequent. Prairies or open hillsides. April-July.

- Erigeron philadelphicus** L. Infrequent. Moist places, spring slopes. Apr.-Aug.
- Erigeron strigosus** Muhl. Abundant. Weedy areas, sign of overgrazing. May-Sept.
- Eupatorium altissimum** L. Infrequent. Woodlands. Aug.-Oct.
- Eupatorium coelestinum** L. Common. Woods, stream banks, moist meadows. July-Oct.
- Eupatorium perfoliatum** L. Infrequent. Moist shaded habitat. July-Oct.
- Eupatorium serotinum** Michx. Common. Bottomland and moist woods. July-Oct.
- Evax multicaulis** DC. Infrequent. Found on sand beach, closely mowed lawn, and sheepgrazed field. April-June.
- Gaillardia fastigiata** Greene. Frequent. Sandy open woods, roadsides. May-Oct.
- Gaillardia pulchella** Foug. Abundant. Dry disturbed areas, prairies, fields. May-Sept.
- Gnaphalium purpureum** L. Abundant. Found in moist ground at the edge of lakes and ponds and dryer sandy areas. April-June. There are two vegetative forms found in the county. Whether these are varieties of the same species or different species is not yet known.
- Grindelia lanceolata** Nutt. var. *texana* (Scheele) Shinnery (*G. texana* Scheele) Frequent. Dry open places, particularly along roads. Aug.-Oct.
- Gutierrezia dracunculoides** (DC.) Blake. (*Amphiachyris dracunculoides* (DC.) Nutt.) (*Xanthocephalum dracunculoides* (DC.) Shinnery) Common. Moist disturbed places, particularly abundant around pond edges. Aug.-Sept.
- Haplopappus ciliatus** (Nutt.) DC. (*Prionopsis ciliata* Nutt.) Common. Ravines and hillsides. Aug.-Sept.
- Haplopappus divaricatus** (Nutt.) Gray var. *hookerianus* (T. & G.) Waterfall. [*Croptilon divaricatum* Raf. var. *hookerianum* (T. & G.) Shinnery] Frequent. Waste places and sandy soil. July-Sept.
- Helenium amarum** Nutt. Abundant. Open places and disturbed areas. Occurring in prairies on ground which is moist, yet it is not a definite wetland species. May-Oct.
- Helenium autumnale** L. Infrequent. Moist low areas. Sept.-Oct.
- Helenium microcephalum** DC. Infrequent. Lake edges, moist areas. June-Aug.
- Helianthus annuus** L. Abundant. Prairie and disturbed areas, very weedy. July-Sept.
- Helianthus hirsutus** Raf. var. *stenophyllus* T. & G. Frequent. Dry woodlands, roadsides. July-Sept. The variety *trachyphyllus* T. & G. probably grows in the county.

- Helianthus maximiliani** Schrader. Frequent. Prairies and waste places, sandy soil. Aug.-Oct.
- Helianthus mollis** Lam. Infrequent. Dry sandy places. July-Sept.
- Heterotheca subaxillaris** (Lam.) Britt. & Rusby (*H. latifolia* Buckl.) Infrequent. Dry sandy places. July-Sept.
- Hymenopappus scabiosaeus** L'Her var. **corymbosus** (T. & G.) Turner (*H. corymbosus* T. & G.) Infrequent. Prairie and dry open woods. April-May.
- Hymenoxys linearifolia** Hook. Frequent. In open disturbed areas. June-Aug.
- Krigia dandelion** (L.) Nutt. Infrequent. Low prairie and other moist open places, preferring sandy soil. April-June.
- Krigia occidentalis** Nutt. Infrequent. Prairie and open dry places. March-May.
- Kuhnia eupatorioides** L. var. **corymbulosa** T. & G. Rare. Open woods, thickets, clearings, and rocky slopes. Aug.-Oct.
- Kuhnia eupatorioides** L. var. **texana** Shinners Rare. Open woods, clearings. Aug.-Oct.
- Lactuca canadensis** L. var. **canadensis** (*L. integrifolia* Bigel.) (*L. sagittifolia* Ell.) Frequent. Moist fields and woodlands. July-Sept.
- Lactuca canadensis** L. var. **latifolia** Kuntz. Frequent. Fields, disturbed areas, woodlands. July-Sept.
- Lactuca canadensis** L. var. **longifolia** (Michx.) Farw. Infrequent. Moist wooded area. July-Sept.
- Lactuca scariola** L. Common. Fields and disturbed areas. July-Sept.
- Liatris angustifolia** (Bush) Gaiser. This species has not been collected in the county, however, two specimens just north and just west of the county line have been collected. Species should occur infrequently in the northwest section. Dry prairie, rocky slopes. Aug.-Sept.
- Liatris squarrosa** (L.) Mich. var. **glabrata** (Rydb.) Gaiser. Infrequent. Open places. July-Oct. There is no record for var. *hirsuta* Rydb., but it should occur.
- Lindheimera texana** Gray & Engelm. Frequent. Open woods and prairie. May-July.
- Mikania scandens** (L.) Willd. Rare. Found in moist wooded area. July-Oct.
- Parthenium hysterophorus** L. Infrequent. Overgrazed pastures, disturbed areas. July-Sept.
- Pluchea purpurascens** (Sw.) DC. Abundant around the edges of Lake Texoma during the summer of 1959. In 1960 only one specimen was seen. June-Aug.
- Pyrrhoppappus carolinianus** (Walt.) DC. Common. Plant of sandy soils, growing on prairies and in woodland clearings. June-Sept.

- Pyrrhopappus geiseri** Shinn. Rare. However, these two species frequently hybridize, and their intergrades were frequent. June-Sept.
- Ratibida columnifera** (Nutt.) Woot. & Stand. Infrequent. Prairie and waste places. June-Aug.
- Rudbeckia amplexicaulis** Vahl. (*Dracopis amplexicaulis* (Vahl.) Cass.) Common. Grows in moist areas on the prairie, and in moist waste places. May-Aug.
- Rudbeckia hirta** L. var. **pulcherrima** Farwell (*R. serotina* Nutt.) This species is the most common member of the Compositae in Marshall Co. It grows in open places, disturbed areas, and prairie. May-Aug.
- Senecio imparipinnatus** Klatt. Infrequent. Low prairies and stream bottoms. April-May.
- Senecio obovatus** Muhl. var. **rotundus** Britt. Infrequent. Rich woods and rock outcrops in calcareous situations. March-May.
- Senecio plattensis** Nutt. Infrequent. Dry, open places. May-July.
- Serinia oppositifolia** (Raf.) Ktze. (*Krigia oppositifolia* Raf.) Infrequent. Damp places. Apr.-June.
- Silphium asperum** Hook. Frequent. Dry woods, prairies, waste places. July-Sept.
- Silphium laciniatum** L. Frequent. Prairie. July-Sept.
- Solidago canadensis** L. var. **gilvocanescens** Rydb. Rare. Prairie. Aug.-Oct.
- Solidago canadensis** L. var. **scabra** (Muhl.) T. & G. (*S. altissima* L.) Common. Moist or dry open or disturbed areas. Aug.-Oct.
- Solidago delicatula** Small. Frequent. Prairie and disturbed areas. Aug.-Oct.
- Solidago gigantea** Ait. var. **leiophylla** Fern. (*S. serotina* Ait.) Frequent. Prairie and disturbed areas. Aug.-Oct.
- Solidago missouriensis** Nutt. var. **fasciculata** Holz. (*S. glaberrima* Martens) Frequent. Prairie and disturbed areas. Aug.-Oct.
- Sonchus asper** (L.) Hill forma **glandulosa** Beckh. Frequent. Waste places, disturbed areas, prairie. June-Sept.
- Thelesperma filifolium** (Hook) Gray (*T. intermedium* var. *rubrodiscum* Shinn.) Infrequent. Gravelly or sandy soil. Summer.
- Thelesperma intermedium** Rydb. var. **intermedium** (*T. trifidum* of auths.) (*T. ambiguum* Gray) Infrequent. Gravelly or sandy soil. This species and the above species appear to intergrade.
- Taraxacum erythrospermum** Andr. [*T. laevigatum* (Willd.) DC.] Frequent in lawns around towns. May-Sept.
- Taraxacum officinale** Wiggers. Frequent in lawns around towns. May-Sept.
- Verbesina encelioides** (Cav.) Benth. & Hook. var. **encelioides** Common. Open, dry disturbed areas. June-Oct.

**Verbesina helianthoides** Michx. Frequent. Prairie and woods. June-Oct.

**Vernonia baldwini** Torr. var. *interior* (Small) Schub. Abundant. Open wooded areas and along roadsides where there is partial shade. July-Sept.

**Xanthium spinosum** L. Rare. Waste places. July-Oct.

**Xanthium strumarium** L. Common around ponds and lakes and other rather bare moist areas. This is a very variable and complex genus. Whether the variations are of specific or variative rank has not yet been determined. July-Nov.

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