

Development of a Web-accessible Database for Herbarium Specimens in Oklahoma

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URL: <http://geo.ou.edu/botanical/>

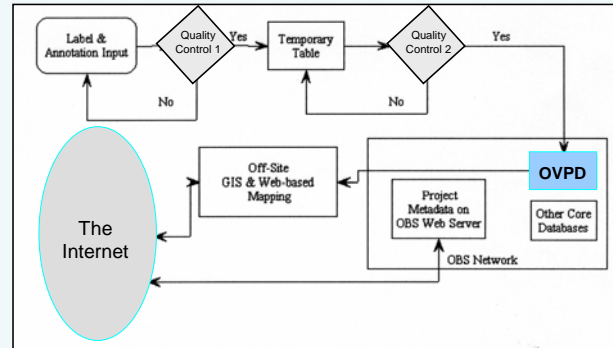
ABSTRACT. The vascular flora of Oklahoma encompasses more than 2500 plant species in 173 families, which reflect the diversity of ecoregional and floristic provinces in the state. To organize and disseminate information on the research collections representing the Oklahoma vascular flora, we have constructed a centralized database that is accessible via the internet and that will be interoperable with regional and national databases. To date, the *Oklahoma Vascular Plants* database, which supersedes the *Atlas of the Flora of Oklahoma* database, has data from over 150,000 accessioned specimens from 13 Oklahoma herbaria. These data are accessible through a web-based interface on a secure web server that supports remote querying and that eventually will provide for remote data entry. An automated E-mail alert system also will be added to notify researchers and agency personnel when new records of interest have been entered into the database. Oklahoma's botanical research collections represent an important regional and North American resource for many groups of plants and contain significant historical exsiccatae. The *Oklahoma Vascular Plants* database and website make Oklahoma's herbarium records available to the wider scientific community.

Project Goal: To database all Oklahoma plant specimens housed in 13 state herbaria and create a centralized, interoperable vascular plant database for the state of Oklahoma.

Entries to date: over 160,000 out of an expected 260,000 specimens

Queries for the *Oklahoma Vascular Plants* database

Flow of data through the *Oklahoma Vascular Plants* database (OVPD) and the Oklahoma Biological Survey (OBS) information system



Search Page

County:

County:

Family:

Genus: * any word / all words / whole phrase

Species: * any word / all words / whole phrase

Common Name: * any word / all words / whole phrase

Collector: * any word / all words / whole phrase

Collection Date (MM/DD/YYYY):

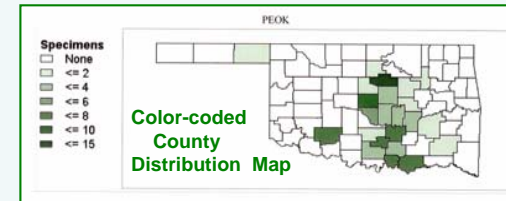
Records per page: 50 100 150

Search Results Record(s) 1 - 100 of 101

Click on Species Name to view full Taxonomic Information
Click on County to obtain a County Species List
Click on Herbaria to view Herbarium information
Click on Annotations to view annotations

Accepted Symbol Name: PEOK

Species Name	Collector	Collection Date	County	Herbarium Annotations
<i>Penstemon albidovenosus</i>	A. McWilliam	4/25/1968	Mayfield	OKL, No
<i>Penstemon albidovenosus</i>	A. McWilliam	4/25/1968	Marshall	OKL, No
<i>Penstemon albidovenosus</i>	A. McWilliam	4/28/1968	Stover	OKL, No
<i>Penstemon albidovenosus</i>	A. McWilliam	4/28/1968	Stover	OKL, No
<i>Penstemon albidovenosus</i>	A. McWilliam	6/12/1968	Marshall	OKL, No
<i>Penstemon albidovenosus</i>	A. McWilliam	6/20/1966	Marshall	OKL, No
<i>Penstemon albidovenosus</i>	A. Wall	7/22/1966	Clifton	OKL, No
<i>Penstemon albidovenosus</i>	Adams	6/23/1966	Marshall	OKLA, Yes



Statewide Specimen List

CHOCTAW County: 131 Species Found

Click on Number of Specimens to List Specimens
Click on Species Name For Taxonomic Information

Family	Species Name	Common Name	Number Of Specimens
County Species List			
Acanthaceae	<i>Dischidrea brachyotis</i>	branched folding	2
	<i>Jacticia americana</i>	American water-willow	1
	<i>Jacticia ovata</i>	water-willow	1
	<i>Ruellia humilis</i>	fringeleaf wild petunia	1
	<i>Ruellia humilis</i> var. <i>brachyflora</i>	Not Recorded	2
	<i>Ruellia strepera</i>	limestone wild petunia	2

Link to Catalog of Woody Plants if available.

Family:	Agavaceae
GenusName:	Manfreda
SpeciesName:	virginica
AccSymbolName:	MAVIS
Author:	(L.) Salisb. ex Rose
Common Name:	false aloë
sppName:	*
sppAuth:	*
varName:	*
varAuth:	*

Taxonomic Information

Synonyms

- Polyanthes virginica* (L.) Shimmers
- Polyanthes lata* (Shimmers) Shimmers
- Manfreda tigrina* (Engelm.) Small
- Manfreda virginica* (L.) Salisb. ex Rose var. *tigrina* (Engelm.) Rose
- Agave lata* Shimmers
- Agave tigrina* (Engelm.) Cory
- Agave virginica* L.
- Alibertia intermedia* Marion

Annotation History

Collector: Identification: *Penstemon albidovenosus*

Collector: Aileen McWilliam

Collection Number: 6480

Species Name	Accessed By	Accession Date
<i>Penstemon albidovenosus</i>	Luick E. Warren	1968

- ### Major Features
- Follow TDWG & NBII standards and use XML protocols developed at the University of Kansas
 - Develop remote data entry capabilities via a secure web server
 - Add an automated Email alert system for important data
 - Incorporate georeferenced records in the OVPD

- ### Queries Possible
- Statewide specimen list
 - County species and specimen lists
 - County distribution maps
 - Synonymy and annotation history
 - Collector and geodescriptor searches
 - Secure access to specific location data

Search Results Record(s) 1 - 3 of 3

Click on Species Name to view full Taxonomic Information
Click on County to obtain a County Species List
Click on Herbaria to view Herbarium information
Click on Annotations to view annotations

Accepted Symbol Name: MAVIS

Species Name	Collector	Collection Date	County	Herbarium Annotations
<i>Manfreda virginica</i>	Amy Buthod, Bruce Hoagland, and Brad Warkins	6/14/2001	Coal	OKL, No
<i>Manfreda virginica</i>	E. L. Rice	7/8/1953	Coal	OKL, Yes
<i>Manfreda virginica</i>	M. O. Hill	6/8/1963	Coal	OKL, Yes

Specimen List for a County