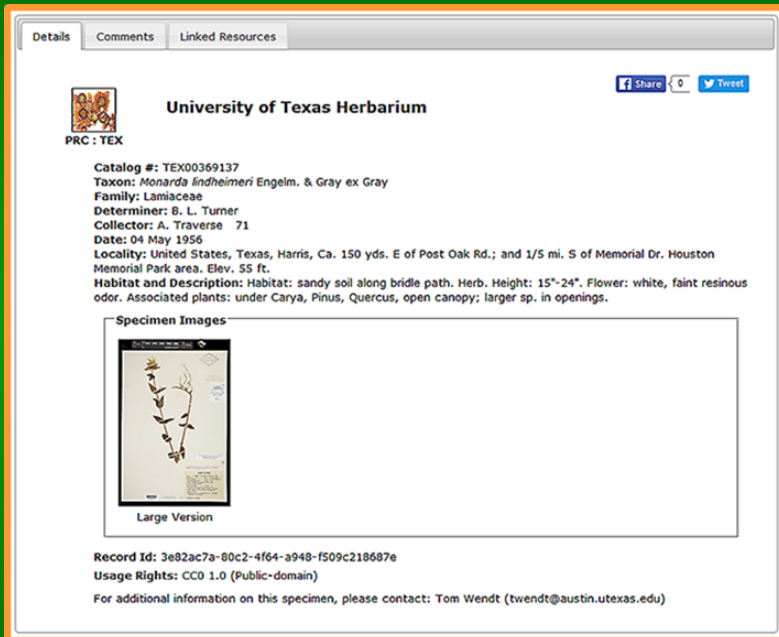
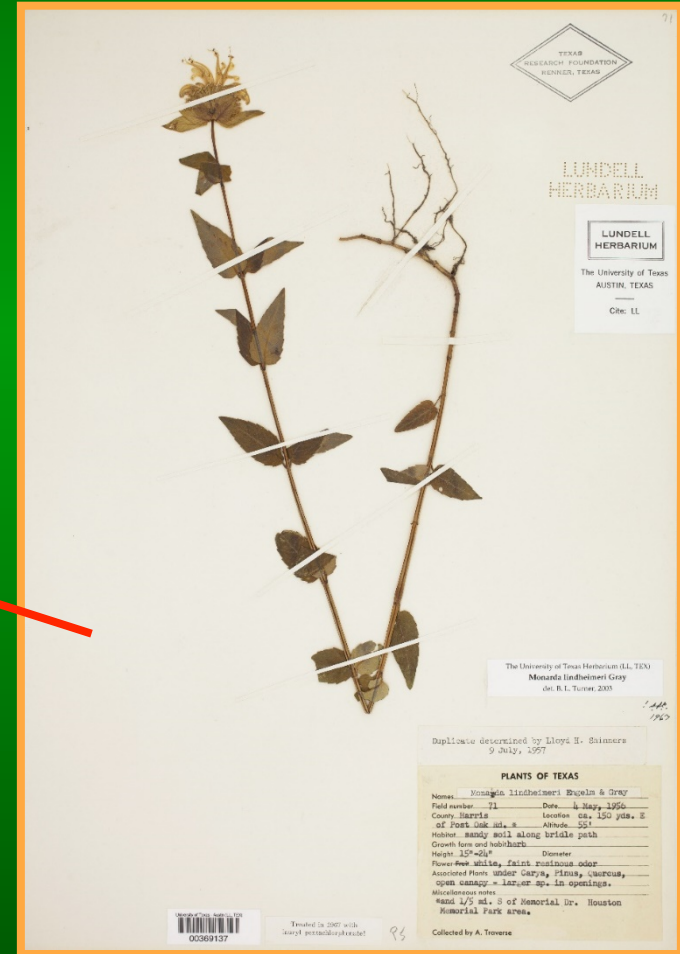


Advancing Plant Specimen Digitization in the Texas-Oklahoma Region: Creating a Framework Across Institutions and a Portal for Shared Data



George Yatskievych
George.Yatskievych@Austin.utexas.edu



Digitization of herbarium specimens involves three processes:

- 1) databasing of label information
- 2) imaging of specimens
- 3) geo-referencing localities on labels

PLANTS OF MISSOURI, U.S.A.

EUPHORBIACEAE

Euphorbia ouachitana Mayfield

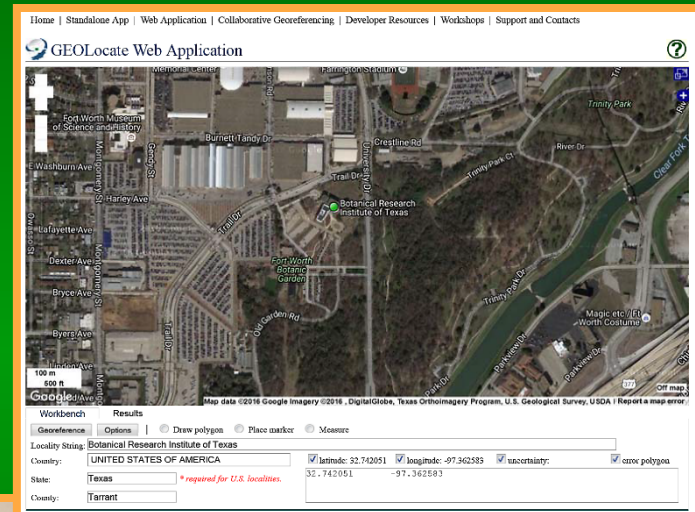
BARRY COUNTY: Roaring River State Park, ca. 4 air miles S of Cassville via State Highway 112. Near S end of River Trail. Scattered intermittently along ca. 1/4 mile of trail, usually not in deep shade or on bluff ledges, but mostly in light gaps in loose gravelly soil. With *Juniperus*, *Acer*, *Quercus*, *Ulmus*, and (in some places) *Lonicera japonica*. 36° 34' 53" N Lat., 093° 50' 01" W Long. 1050 ft.

7 May 2014

G. Yatskievych 14-15
with Nels J. Holmberg

EXAMINED FOR
THE FLORA OF
MISSOURI PROJECT

MISSOURI BOTANICAL GARDEN HERBARIUM (MO)



Rich Rabaler (MICH) and Kim Watson (NYBG)
in front of an imaging station. (iDigBio)

[http://www.museum.tulane.edu/
geolocate/web/WebGeoref.aspx](http://www.museum.tulane.edu/geolocate/web/WebGeoref.aspx)

This project is sponsored by:

The Missouri Botanical Garden
with funding from the Missouri Department of Conservation

FLORA OF MISSOURI PROJECT



Start MO Flora
application

There are 190029 specimens in the database.
Database last export: 1/29/2014 7:04:39 AM
Database last record add/change: 1/30/2014 10:43:56 AM

The earliest digitization
projects involved mainly
the databasing aspect
and were institution-
specific.

Flora of Missouri Project - Edit Catalog Data

Species list for *Hasteola*:
suaveolens
unknown

Genus: *Hasteola*

Family: ASTERACEAE/SENECIONEAE

Species Code: 2460 Native

Common Name: false Indian plantain

Authority: *suaveolens* (L.) Pojark.

Synonymy: *Cacalia suaveolens* L., *Synosma suaveolens* (L.) Britton

Citation:

Clear Form

Edit Record

Save Record

Close

Flora of Missouri Project - Add / Edit Specimens

Genus: *Hasteola* Authority: *suaveolens* (L.) Pojark.

Species: *suaveolens* Synonymy:

Family: ASTERACEAE/SENECIONEAE *Cacalia suaveolens* L., *Synosma suaveolens* (L.) Britton

Species Code: 2460 Number of Occurrences: 11

Native Number of Counties: 8

County: Butler

Taxonomic
Comment

Locality: W edge of Poplar Bluff, ca. 5 mi NE of
junction with County Highway M on County
Road 450

Habitat: small spring-fed slough along Kenner
Spring Branch; heavily disturbed; large
colony on shaded bank of slough

Plant
Associates: with partial canopy of Acer, Ulmus,
Platanus, Quercus

Township: 025N Range: 005E

Section: 11 Partial Section SW4 of of Elev: 330 ft

Latitude: Deg Min Sec N

Longitude: W

36.49.56N 090.29.29W

Collection Date - Month: 08 Day: 28 Year: 1994

Other
Collectors

First Collector: Yatskievich, G.

Collection Number: 94-207

Herbarium: MO

Phenology: FL

Delete

Print

Clear

Record 1 of 11

<< Prev Next >>

Add New

Edit

Save

Close

www.tropicos.org



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[English](#)

Tropicos® was originally created for internal research but has since been made available to the world's scientific community. All of the nomenclatural, bibliographic, and specimen data accumulated in MBG's electronic databases during the past 25 years are publicly available here. This system has over 1.2 million scientific names and 4.0 million specimen records.

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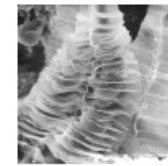
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Publications [49,252](#)

References [130,889](#)

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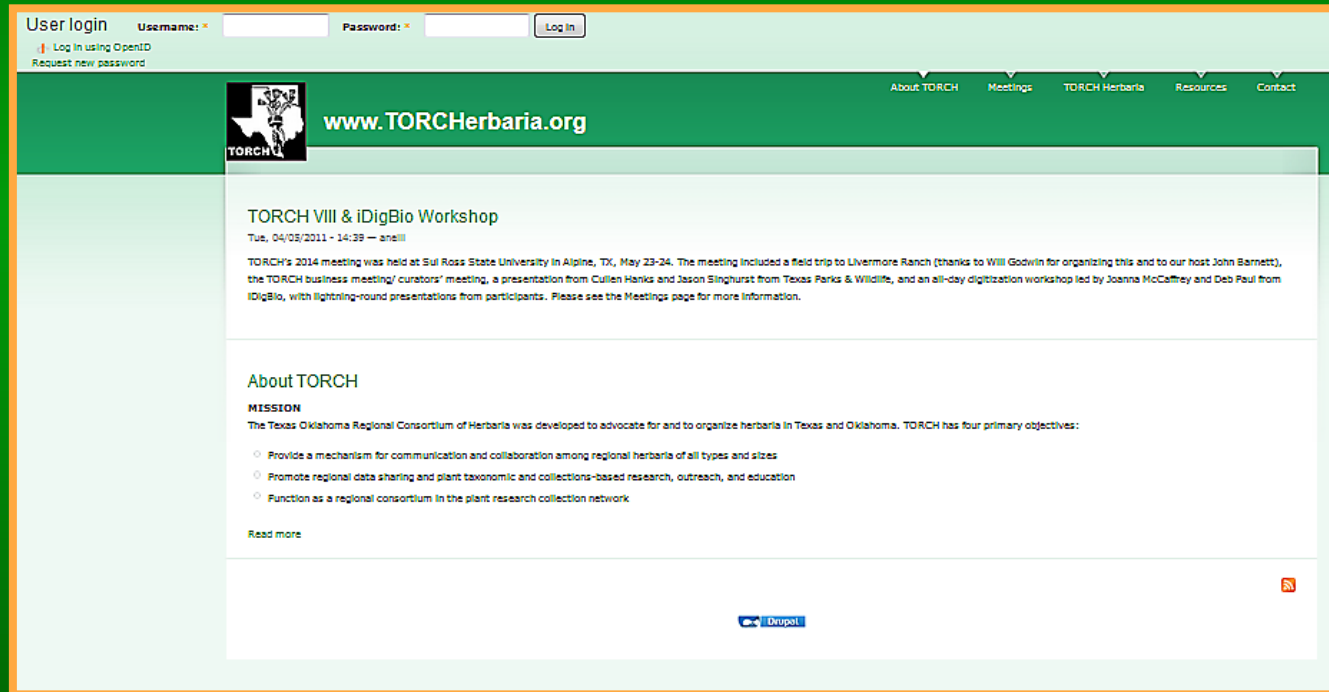


Cite this page: Tropicos.org. Missouri Botanical Garden. 07 Apr 2014 <<http://www.tropicos.org>>

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The establishment of regional consortia of herbaria
such as TORCH has been
one logical extension of this concept

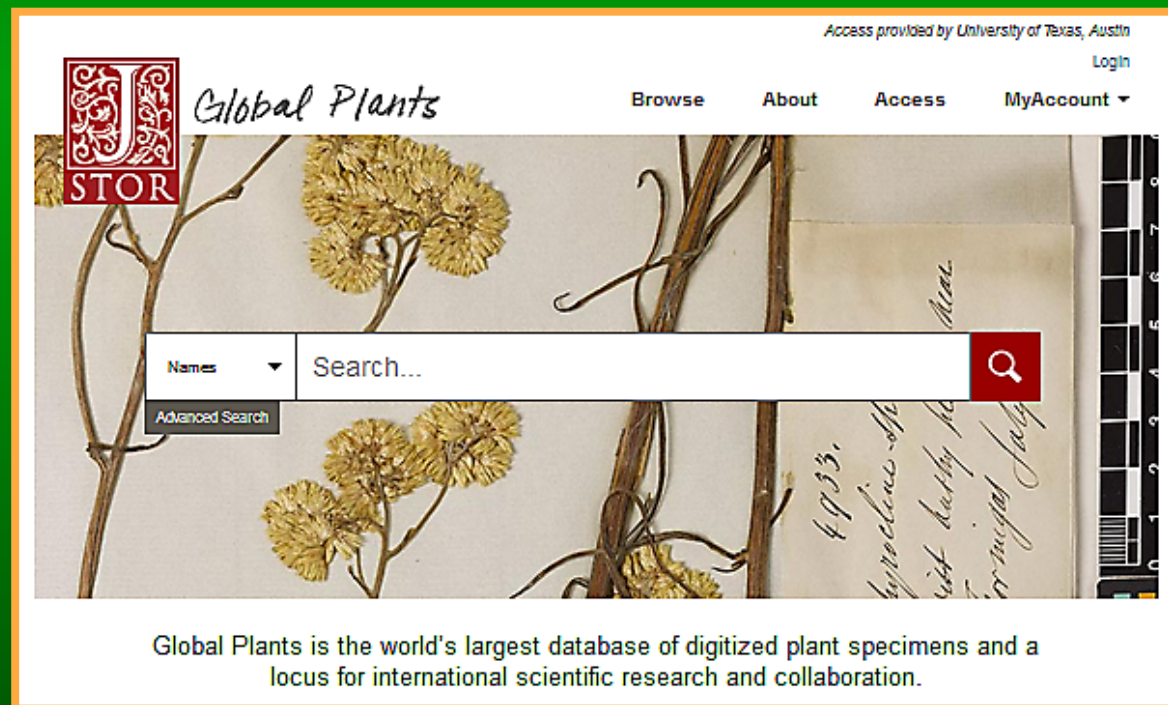


FLORA DE MEXICO			
Herbarium	<input checked="" type="radio"/> TEX <input type="radio"/> LL	Barcode	00429036
Country	MEXICO		
Start Date	7/14/2000	End Date	
Other date			
DETERMINATION			
Det Type	Exact	Dup det?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Family	Flacourtiaceae		
Genus	Casearia	Species	corymbosa
Sp Auth	Kunth.		
Subsp		Var	
Infra Auth			
Det By 1st / Last Name	E.J.	Lott	
Det Date	2007		
SPECIMEN			
State	Oaxaca	Mpio	San Miguel del Puerto
Common Name			
Verbatim Elevation	800msnm	Datum	
Latitude	15°58'56"N	Longitude	95°6'6"W
LatLong Method	on label		
LATITUDE PARSED	Degrees	Minutes	Seconds
LONGITUDE PARSED	Degrees	Minutes	Seconds
Coll 1st/Last Name 1	Filiciano	López	
Coll Number	301		
Coll 1st/Last Name 2			
Coll 1st/Last Name 3			
Coll 1st/Last Name 4			
Coll 1st/Last Name 5			
FLORA DE MEXICO			
Locality	Distrito: Pochutla. Lote del Señor Humberto Díaz		
Habitat/ Vegetation	Vegetación secundaria de selva mediana subperennifolia.		
Plant Data	Árbol. 8 m con fruto verde.		
Databased by Amber Schoneman			

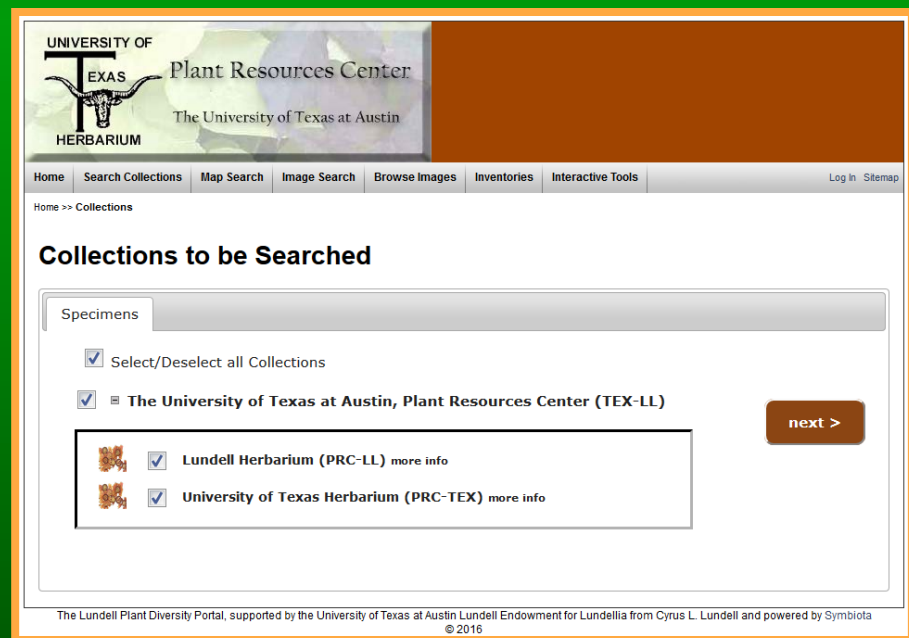
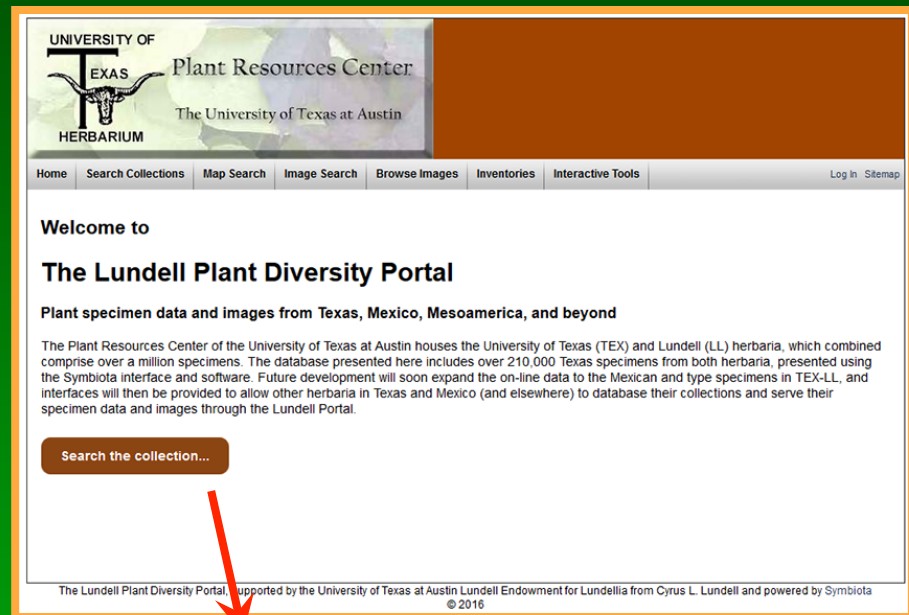
Historically the
TEX-LL
herbaria began
databasing in
the 1990s using
several off-the-
shelf programs,
especially
Microsoft
Access and
Filemaker Pro



We established a web site that allowed us to serve separate Texas and Mexican portions of the overall data from our collections and shipped off our type data and images to be hosted externally on the JSTOR Global Plants website.



We also began development of an application to aggregate specimen data and images across multiple collections, which currently is called the Lundell Portal.




Searches
on one of
more of a
variety of
criteria

yield lists
of
specimens
matching
the
parameters
entered

[illegible]

Details
Comments
Linked Resources




University of Texas Herbarium

PRC : TEX

Catalog #: TEX00369137
Taxon: *Monarda lindheimeri* Engelm. & Gray ex Gray
Family: Lamiaceae
Determiner: B. L. Turner
Collector: A. Traverse 71
Date: 04 May 1956
Locality: United States, Texas, Harris, Ca. 150 yds. E of Post Oak Rd.; and 1/5 mi. S of Memorial Dr. Houston Memorial Park area. Elev. 55 ft.
Habitat and Description: Habitat: sandy soil along bridle path. Herb. Height: 15"-24". Flower: white, faint resinous odor. Associated plants: under Carya, Pinus, Quercus, open canopy; larger sp. in openings.

Specimen Images



Large Version

Record Id: 3e82ac7a-80c2-4f64-a948-f509c218687e
Usage Rights: CC0 1.0 (Public-domain)
For additional information on this specimen, please contact: Tom Wendt (twendt@austin.utexas.edu)

Specimen records convey label data and indicate if images are linked to the records

High-resolution scanned images are linked to specimen records, which can be viewed full-screen

UNIVERSITY OF TEXAS
Plant Resources Center
The University of Texas at Austin
HERBARIUM

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
























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Show options...

Try searching for: taxon, owner, country, state, photographer or tag.

0 - 100 of 127503 images

<< First Previous Page page 1 of 1275 Next Page Last >>

 Dichanthium laetiflorum Texas PRC-TEX: TEX00344519	 Symphyonochloa praeacum Texas PRC-TEX: TEX00210393	 Xanthisma gracile Texas PRC-TEX: TEX00210396	 Boucardia hirtica Texas PRC-TEX: TEX00211198	 Boucardia rigida Texas PRC-TEX: TEX00211332	 Boucardia rigida Texas PRC-TEX: TEX00211337	 Urochloa fusca Texas PRC-TEX: TEX00211581	 Bromus catherinus Texas PRC-TEX: TEX00210844	 Cenchrus spinifer Texas PRC-TEX: TEX00232070	 Aristida glauca Texas PRC-TEX: TEX00232488
 Andropogon virginicus Texas PRC-TEX: TEX0022216	 Aristida glauca Texas PRC-TEX: TEX00222419	 Xanthisma reanum Texas PRC-TEX: TEX00115250	 Dichanthium basell Texas PRC-TEX: TEX00151185	 Dichanthium laetiflorum Texas PRC-TEX: TEX00116283	 Chloris cucullata Texas PRC-TEX: TEX00142451	 Chloris citata Texas PRC-TEX: TEX00144839	 Boucardia hirtica Texas PRC-TEX: TEX0013677	 Urochloa platyphylla Texas PRC-TEX: TEX0014607	 Bromus catherinus Texas PRC-TEX: TEX00141448
 Aristida purpurea Texas PRC-TEX: TEX0013804	 Juniperus ashei Texas PRC-TEX: TEX0005534	 Andropogon virginicus Texas PRC-TEX: TEX00167634	 Chloris cucullata Texas PRC-TEX: TEX00171786	 Rumex crispus Texas PRC-TEX: TEX00446356	 Sarcocolla crinita Texas PRC-TEX: TEX00237000	 Ambrosia artemisiifolia Texas PRC-TEX: TEX00463781	 Monolepis nucalliana Texas PRC-TEX: TEX00293880	 Panicum virgatum Texas PRC-TEX: TEX00482827	 Cynodon dactylon Texas PRC-TEX: TEX00483536
 Suaeda nigra	 Sarcocolla crinita	 Panicum rigidulum	 Chenopodium praecox	 Rhus carolinensis	 Aster carolinensis	 Forsydia angustifolia	 Rudbeckia hirta	 Forsydia angustifolia	 Eriogonum beldianum



SEINet Arizona - New Mexico Chapter

Home Specimen Search Images Flora Projects Agency Floras Dynamic Floras Games Resources Log In New Account Sitemap

Welcome to SEINet

The SEINet data portal was created to serve as a gateway to distributed data resources of interest to the environmental research community within Arizona and New Mexico. Through a common web interface, we offer tools to locate, access and work with a variety of data. SEINet is more than just a web site - it is a suite of data access technologies and a distributed network of collections, museums and agencies that provide environmental information.


To learn more about the features and capabilities available through this site, visit the [Symbiota Help Pages](#). Join SEINet as a regular visitor and please send your feedback to seinetAdmin@asu.edu. Visit the [Data Usage Policy](#) page for information on how to cite data obtained from this web resource.

Visit some of the other regional data portals that are fellow members of the SEINet Network.


- Consortium of Midwest Herbaria
- Intermountain Regional Herbarium Network
- Madrean Archipelago Biodiversity Assessment (MABA)
- Consortium of Midwest Herbaria
- North American Network of Small Herbaria
- North Great Plains Herbaria
- Red de Herbarios del noroeste de México (northern Mexico)
- SERNEC (Southeast USA)

Taxon Search

Plant of the Day



What is this plant?
[Click here to test your knowledge](#)



Development of SEINet, Symbiota, and several of the specimen databases have been supported by National Science Foundation Grants (DBI 9983132, BRC 0237418, DBI 0743827, DBI 0847966)

Symbiota, the platform developed under the auspices of the Symbiota Working Group by Ed Gilbert and his colleagues at what is now called Arizona State University's School of Life Sciences Biodiversity Informatics Group. The first product of this work was SEINet.

SEINET – REGIONAL NETWORKS OF NORTH AMERICAN HERBARIA

The SEINET North American plant network was the first Symbiota-based project to be configured as a fully integrated portal network. SEINET currently features 10 regional North American research community. Data from all projects within the network are configured to access a single shared database. Given this configuration, an herbarium from the Midwest consortium (<http://herbariumwest.net>) can offer one of their specimens that was collected within Sonora, Mexico and the data would simultaneously be available within the North Mexico consortium portal (<http://herbariumwest.net>). They offer their portal identity without sacrificing the benefits of participating in a collaborative data network.

Arizona – New Mexico chapter

The Arizona – New Mexico chapter of SEINET covers the southwestern region of North America with a particular interest in the arid regions.

- <http://swbiodiversity.org/seinet/index.php>
- Sponsors and Portal Managers
 - Arizona State University
 - University of New Mexico Herbarium
- Funding and support for data digitization
- Completion and Coordination of Databases of Arizona Vascular Plants at ASU and UNM and ASC BRC-0237418
- Collaborative Research: Expanding SEINET HR-0647966

Consortium of Midwest Herbaria

This portal focuses around the Great Lakes drainage basin and includes the six states that border the western Great Lakes: Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin.

- <http://midwestherbaria.org/portal/>
- ADBC TCN NSF aware #1410683: Documenting the Occurrence through Space and Time of Aquatic Non-Indigenous Fish, Mollusks, Algae, and Plants Threatening North America's Great Lakes

Intermountain Regional Herbarium Network

This specimen-based virtual flora covers the Intermountain Region, which is defined as the region between the Sierra Nevada and the Rocky Mountains, but the precise interpretation of the phrase varies. The part by its variable and scant precipitation, most of which falls in winter, and its large fluctuations in temperature, both daily and seasonally.

- <http://intermountainbiota.org> (external link)
- Portal Managers
 - Intermountain Herbarium (Utah State University)

Madrean Archipelago Biodiversity Assessment Project

The Madrean Archipelago Biodiversity Assessment Project (IMABA) virtual data portals were created to serve as a gateway for the research community and general public to access a growing collection of specimens obtained from the Sky Island Region of southwestern US and northern Mexico.

- <http://www.madrean.org/imaba/symbioma>
- Portal Managers
 - Madrean Archipelago Biodiversity Assessment Project
 - Sky Island Alliance

Northern Great Plains Regional Herbarium Network

This portal brings together information from herbaria in North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, Minnesota, Iowa, Illinois, and Missouri.

- <http://ngpsherb.org/portal/index.php>

Red de Herbarios del Noroeste de México

The main objective of this site is to establish a virtual flora to assist in the exploration of the botanical biodiversity of northern Mexico, including the states of Baja California, South Baja California, Sonora, Sinaloa, Chihuahua, and Durango. It is the first multi-lingual portal within the SEINET network.

El objetivo de este sitio web es facilitar un herbario virtual como una herramienta para consultar la gran biodiversidad de plantas silvestres del Noroeste de México, incluyendo a los estados de Baja California, Baja California Sur, Sonora, Sinaloa, Chihuahua y Durango.

- <http://herbariumwest.net>
- Sponsor and portal managers
 - Herbario de la Universidad de Sonora (USON)

SERNEC

This portal serves to network the 2301 herbaria in the southwestern North America and publish on-line botanical resources that will be available to scientists, land managers, state and federal agencies, educators and the public.

- <http://serneportal.org/portal/>
- Funding and support for data digitization
- ADBC TCN NSF aware #1410069: Digitization TCN: Collaborative Research: The Key to the Cabinet: Building and Sustaining a Research Database for the Southwest Biodiversity Hotspot
- Portal Managers
 - Southeast Regional Network of Expertise and Collections (SERNEC)

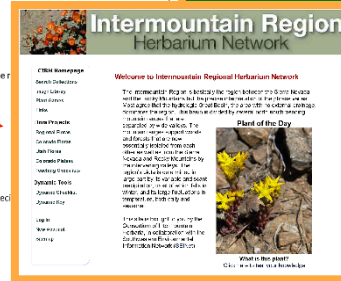
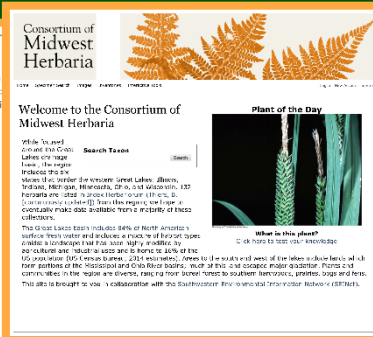
North American Network for Small Herbaria

A uniting portal for smaller North American herbaria with various regional concentrations



- <http://nansh.org/portal/index.php>
- NANSH working group

vPlants: A Virtual Herbarium of the Chicago Region

- <http://symbiota4.acis.uiowa.edu/seinet/vplants/portal/index.php>
- vPlant Partnership



Symbiota currently exists as several more or less independent working groups called Chapters


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Specimens & Observations
Specimens
Observations
Federal Units


☒ Select/Deselect All


☒ Arizona - New Mexico Chapter



☒ Arizona State University Vascular Plant Herbarium (ASU-Plants) [more info](#)



☒ Arizona Western College Herbarium (AWC) [more info](#)



☒ Bandelier National Monument (NPS-BAND) [more info](#)



☒ Cochise County Herbarium (CCH) [more info](#)



☒ Coconino National Forest Herbarium (COC-AZ) [more info](#)



☒ Dale A. Zimmerman Herbarium at Western New Mexico University (SNH) [more info](#)



☒ Deaver Herbarium (Northern Arizona University) (ASC) [more info](#)



☒ Desert Botanical Garden Herbarium Collection (DES) [more info](#)



☒ Eastern New Mexico University Herbarium (ENMU) [more info](#)



☒ Gila National Forest Herbarium (GILA) [more info](#)



☒ Grand Canyon National Park (GCNP) [more info](#)



☒ Jemez Mountain Herbarium (JEMEZ) [more info](#)



☒ Kaibab National Forest Herbarium (KAIB) [more info](#)



☒ Museum of Northern Arizona (MNA) [more info](#)



☒ Navajo Nation Herbarium (NAVA) [more info](#)



☒ New Mexico Natural History Institute Herbarium (NHNH) [more info](#)



☒ New Mexico State University Herbarium (NMC) [more info](#)



☒ New Mexico State University Range Science (NMCR) [more info](#)



☒ Pipe Spring National Monument (NPS-PSNP) [more info](#)



☒ Prescott College Natural History Institute Herbarium (NHI) [more info](#)



☒ San Juan College Herbarium (SJHC) [more info](#)



☒ Southwestern Regional Forest Service Herbarium (USFS-SWRH) [more info](#)



☒ Southwestern Research Station (SWRS) [more info](#)



☒ University of Arizona Herbarium (ARIZ) [more info](#)


☒ University of New Mexico Herbarium (UNH) [more info](#)


☒ US Forest Service Southwestern Region (TEUJ) [more info](#)


☒ Arizona State University Fruit and Seed Collection (ASU-Seeds) [more info](#)


☒ Arizona State University Pollen Collection (ASU-Pollen) [more info](#)


☒ Nicotiana research checklist (Nicotiana - RSA) [more info](#)

☒ Consortium of Midwest Herbaria

☒ Intermountain Regional Herbaria Network

☒ Mid-Atlantic Herbaria

☒ North American Network of Small Herbaria (NANSH)


☒ Northern Great Plains Herbaria


☒ Pacific Herbaria


☒ Red de Herbarios del Noroeste de México


☒ Rocky Mountain Regional Consortium


☒ SERNEC - Southeastern Herbaria



☒ General Research Observations (SEINet) [more info](#)


☒ Observaciones Generales de Flora del Noroeste de México (RHNH) [more info](#)


☒ Madroan Archipelago Biodiversity Assessment Observations (MABA-Plants) [more info](#)


☒ Madroan Discovery Expeditions (GreaterGood) [more info](#)



☒ Sonoran Desert Plants: An Ecological Atlas (Sonoran Atlas) [more info](#)



Development of SEINet, Symbolata, and several of the specimen databases have been supported by National Science Foundation Grants (DIB 9903132, BNC 0237418, DIB 0743827, DIB 0847965)

Queries can be performed across multiple member institutions and also across multiple chapters

Results are presented in a concatenated list with each institution's contribution listed separately.



The screenshot shows the SEINet website interface with a search bar at the top. Below the search bar, there is a list of records categorized by institution. The records are organized into sections such as 'Arizona - New Mexico Chapter', 'California', 'Colorado', 'Florida', 'Georgia', 'Illinois', 'Indiana', 'Iowa', 'Kansas', 'Kentucky', 'Louisiana', 'Maine', 'Maryland', 'Massachusetts', 'Michigan', 'Minnesota', 'Mississippi', 'Montana', 'Nebraska', 'Nevada', 'New Hampshire', 'New Jersey', 'New Mexico', 'New York', 'North Carolina', 'North Dakota', 'Ohio', 'Oklahoma', 'Oregon', 'Pennsylvania', 'Rhode Island', 'South Carolina', 'South Dakota', 'Tennessee', 'Texas', 'Utah', 'Vermont', 'Virginia', 'Washington', 'West Virginia', 'Wisconsin', 'Wyoming', and 'Zones'. Each record entry includes a small thumbnail image, a title, a date, and a link to the full record details.

Howard Payne University Herbarium



Asclepias nummularia Torr.

HPC00008665 Daniel, Britt 95 27 April 1979

United States, Texas, Jeff Davis

Full Record Details



Asclepias nummularia Torr.

HPC00008704 Mashburn, Judy L. 183 27 April 1979

United States, Texas, Jeff Davis

Full Record Details





Asclepias nummularia Torr.

HPC00008705 Ryman, Susie 360 27 April 1979

United States, Texas, Jeff Davis

Full Record Details

Herbarium
Biology Department
Howard Payne University
Brownwood, Texas 76801





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***Asclepias nummularia* Torr.** [Go to Encyclopedia of Life...](#)

Family: Apocynaceae

tufted milkweed, [more...](#)




Patrick Alexander


VPAP Treatment

JANAS 27(2)


Plant: perennial herb, diminutive, densely to sparingly wooly, the plant above ground level 3-12 cm tall; stems one to several from the base, erect or ascending **Leaves:** opposite, the petioles 1-7 mm long, the blades circular to broadly elliptic, 1.5-5 cm long, 1-5.5 cm broad, obtuse, rounded or subcordate at the base, obtuse to rounded or truncate at the apex, apiculate **INFLORESCENCE:** UMBELS lateral but overtopping the leaves and appearing terminal, 3-5 cm broad, the peduncles 2-8 cm long **Flowers:** small; calyx lobes 2-3 mm long; corolla purple-pink, the lobes 4-6 mm long; hoods pinkish to yellowish, erect-ascending, obovoid-triangular, widening upward to a truncate apex, 2.2-3 mm long along the dorsal surface, 1.6-2.2 mm broad at the top, about as long as the gynostegium, the horns radially flat, variably attached from the lower to the upper portion of the hoods, triangular to sickle-shaped, abruptly incurved and exerted ca. 1 mm; anther wings 1-1.2 mm long; corpusculum 0.2-0.3 mm long, the pollinia 0.5-0.6 mm long **Fruit:** FOLLICLES erect on deflexed pedicels, 4-6 cm long **Misc:** Oak and conifer woodlands, grasslands; 1200-1600 m (4000-5200 ft); Mar-May **REFERENCES:** Sundell, Eric. 1994. Asclepiadaceae. J. Ariz. - Nev. Acad. Sci. Volume 27, 169-187.




Patrick Alexander





Sue Carlsman

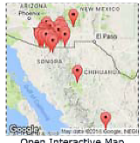


Sue Carlsman


















Open Interactive Map





Development of SEINet, Symbiota, and several of the specimen databases have been supported by National Science Foundation Grants (DBI 9983132, BRC 0237418, DBI 0743827, DBI 0647966)

[Web Links](#)
[View Parent Taxon](#)
[Open Image Search Tool](#)

SEINet results of taxon search on *Asclepias nummularia*.

Symbiota
also allows
the creation
of Projects
that capture
data from the
database on
the fly to
produce
checklists,
such as this
one for
Chiricahua
National
Monument in
Arizona.

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[Home](#) > [Arizona Flora](#) > **Chiricahua National Monument**

Chiricahua National Monument
[Games](#)
Authors: NPS-SODN
[More Details](#)

Families: 96
Genera: 403
Species: 826 (species rank)
Total Taxa: 843 (including subsp. and var.)

Page 1 of 2: 1 | 2

ACANTHACEAE
Anisacanthus thurberi
Dyschoriste decumbens

AIZOACEAE
Trianthema portulacastrum


AMARANTHACEAE
Alternanthera caracasana
Amaranthus albus
Amaranthus blitoides
Amaranthus palmeri
Amaranthus powellii
Amaranthus torreyi
Chenopodium album
Chenopodium berlandieri
Chenopodium berlandieri var. *sinuatum*
Chenopodium fremontii
Chenopodium graveolens
Chenopodium leptophyllum
Chenopodium neomexicanum
Chenopodium watsonii
Froelichia arizonica
Froelichia gracilis
Gomphrena caespitosa
Gomphrena nitida
Gomphrena sonora
Guilleminea densa
Monolepis nuttalliana
Salsola kali


AMARYLLIDACEAE
Allium cernuum
Zephyranthes longifolia

ANACARDIACEAE
Rhus aromatica
Rhus aromatica var. *aromatica*
Rhus aromatica var. *trilobata*
Rhus glabra
Rhus microphylla
Rhus virens
Rhus virens var. *choriophylla*
Toxicodendron radicans subsp. *divaricatum*
Toxicodendron rydbergii

APIACEAE
Cymopterus multinervatus
Lomatium nevadense

Options
Search:
☐ Common Names
☒ Synonyms
Filter:
☐ Original Checklist
☐ Common Names
☐ Display as Images
☐ Notes & Vouchers
☐ Taxon Authors
☐ Show Taxa Alphabetically


 Simple Map
 Advanced Map



SERNEC
Southeast Regional Network of Expertise and Collections

Home Specimen Search Images State Floras Dynamic Tools

Log In New Account Sitemap

Welcome to SERNEC

Herbaria are not simply repositories of plant specimens, they are repositories of a tremendous amount of information. Current technologies provide an opportunity to access this information at an unprecedented scale. The real power of herbaria as research tools can be fully realized when both large and small collections within a broad geographic region are electronically available and searchable.

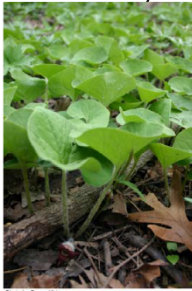
SERNEC (Southeast Regional Network of Expertise and Collections) is designed to facilitate this process, by building partnerships, encouraging the utilization of the collective expertise of the network, and assisting herbaria in providing information to the public.

SERNEC is 1) networking the 230 herbaria in 14 states in southeastern North America, 2) developing a strategy for advancing each state's ongoing databasing effort, and 3) working to publish online botanical resources that will be available to scientists, land managers, state and federal agencies, educators and the general public. These data will provide a greater understanding of one of the most botanically diverse regions of the earth and will lead to better research, better management planning and a more well-informed public.

Development of a searchable collective database at a regional scale will provide a powerful research tool, and by combining 150 years of botanical information housed in herbaria in the Southeast with models of past plant migrations and current ecological parameters, we can revolutionize studies in biodiversity, evolution, ecology and systematics. We are also working to link our efforts with those of other regional herbarium groups through the US Virtual Herbarium and with the national biodiversity informatics effort, iDigBio.

Search Collections


General Data Usage Policy



Plant of the Day

Photo by Susan Dyer

What is this plant?
Click here to test your knowledge



This project made possible by National Science Foundation Award 1410069

The SERNEC Portal includes Texas in the list of states for which one can generate a checklist and search for data



SERNEC
Southeast Regional Network of Expertise and Collections

Home Specimen Search Images State Floras Dynamic Tools Log In

Home > SERNEC State Inventories > Texas

Texas  [Games](#)
[Anthonia](#) [JLVA Plants](#)
[More Data Is](#)

Families: 209
Genera: 1430
Species: 5460 (species rank)
Total Taxa: 6304 (including subsp. and var.)

Page 1 of 13: 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13

Options

Search:
☐ Common Name
☒ Synonym

Filter:
☐ Original Checklist
☐ Common Name
☐ Display as List
☐ Notes as List
☐ Taxon Author
☐ Show Taxa As
[Rebuild List](#)

ACANTHACEAE

Anisacanthus linearis
Anisacanthus puberulus
Anisacanthus quadrifidus
Anisacanthus quadrifidus var. *wrightii*
Avicennia germinans
Carlowrightia arborescens
Carlowrightia linearifolia
Carlowrightia mexicana
Carlowrightia parviflora
Carlowrightia parvifolia
Carlowrightia sepioides
Carlowrightia texana
Carlowrightia torreyana
Dicliptera gracilior
Dicliptera hexandra
Dicliptera hexandra var. *linearis*
Dicliptera linearis var. *linearis*
Dicliptera linearis var. *paniculata*
Dicliptera schiedana
Dicliptera schiedana var. *cinerascens*
Dicliptera schiedana var. *decumbens*
Elytraria bromoides
Elytraria imbricata
Hydrophilum laetifolium
Hydrophilum polyparum
Justicia americana
Justicia brasiliensis
Justicia lanceolata
Justicia longii
Justicia pacifica
Justicia pilosella
Justicia tinctoria
Justicia vanocckii
Justicia wrightii
Monarda stricta
Ruellia caerulea
Ruellia carolinensis
Ruellia carolinensis subsp. *carolinensis*
Ruellia carolinensis subsp. *cliffii*
Ruellia carolinensis var. *carolinensis*
Ruellia coral
Ruellia divaricata
Ruellia drummondiana
Ruellia drussheltii
Ruellia drussheltii var. *drussheltii*
Ruellia drussheltii var. *macrocarpa*
Ruellia humilis
Ruellia lasiocarpa
Ruellia metcalfii
Ruellia nudiflora
Ruellia nudiflora var. *nudiflora*
Ruellia nudiflora var. *rumyovii*
Ruellia occidentalis
Ruellia parryi
Ruellia pedunculata
Ruellia pedunculata subsp. *pedunculata*
Ruellia pedunculata subsp. *pinetorum*
Ruellia strepens
Ruellia yuccifolia
Stenandrium barbatum
Stenandrium dulce
Stenandrium dulce var. *dulce*
Tetaneum nervosum
Thunbergia alata
Yucca platystegia
Yucca viridiflora

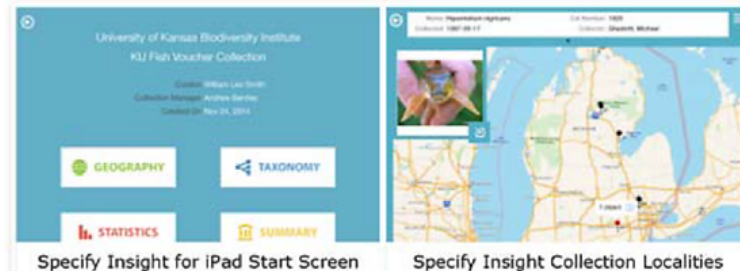
ACHATOCARPACEAE
Phaulothamnium spinescens

ACORACEAE
Acorus calamus

ADOXACEAE
Sambucus nigra
Sambucus nigra subsp. *canadensis*
Sambucus nigra subsp. *cerulea*
Viburnum acerifolium
Viburnum australe
Viburnum dentatum
Viburnum dentatum var. *dentatum*
Viburnum nudum
Viburnum nudum var. *nudum*
Viburnum prunifolium
Viburnum racematum
Viburnum rufidulum

[Home](#)[Cloud](#)[Insight](#)[Specify 7](#)[Specify 6](#) [Search](#)

Take Your Collection to the Cloud-To the Field-Anywhere You Go.
Donors, Deans, Students & Colleagues. Funding, Visibility, Education & Research.
How Far Does Your Data Reach?



Welcome to Specify

Specify software manages species and specimen data for biological research collections. As a database platform, it tracks specimen transactions, links images to specimen records and publishes data to the Internet. **Specify 6** is robust software for Windows, MacOS, and Linux computers. The **Specify 7** web platform eliminates desktop software installation and operates within a web browser. **Specify Cloud** is our Specify 7 cloud hosting service; a one-stop, zero hardware and software installation, collection computerization system. The **Specify Web Portal** serves your collection data, maps and images to public web users. And **Specify Insight**, our iPad app is for taking your collection data to new venues—for showcasing specimen maps, data and images. Specify Project services include efficient data migration and help desk support for U.S. collections. E-mail: support@specifysoftware.org, or call: +1 785 864-4400, if we could help you evaluate Specify for your collection.

Take a look at our video "[HelpCasts](#)" which demonstrate Specify's features.

After deciding that Symbiota by itself lacked features important to us for managing our herbarium, we followed the lead of a number of other regional consortium members and chose Specify as our main institutional database, for several reasons, including:

- 1) It is free and open source, thus can be customized by a programmer;
- 2) It has been tested by numerous museums in this country and abroad;
- 3) It is a general platform that can support multiple collections of different types of organisms, so that museums can integrate data from various animal, fungal, plant, fossil, and other collections;
- 4) It has built-in protocols to communicate information to Symbiota and also can easily transfer information to the national portal, iDigBio.

Specify 6.6.04

System Files Help

Files Reports Interactions Statistics Query Workbench SGR Lifemapper Attachments

Collection Object

Collection Prefix:
 Catalog Number:
 Accession:
 Cataloger:
 Cataloged Date:
 Project Number:
 Collecting Event:

Determinations

Taxon: ☐ Current
 Qualifier: Addendum:
 Preferred Taxon: Name Usage:
 Determined Date: Determiner:
 Type Status:
 Remarks:

Preparations

Prep Type	Is On Loan	Preparation Attachments	Count	Prepared By

Attributes

Phenology:
 Specimen Description:

Attachments

Collection Object Attachments


Default specimen data entry screen for the Botany Module in Specify.
This needs customization to make data entry easier.

User login

Username: *

Password: *

Log in

 Log in using OpenID

[Request new password](#)



www.TORCHerbaria.org

[About TORCH](#)

[Meetings](#)

[TORCH Herbaria](#)

[Resources](#)

[Contact](#)

TORCH VIII & iDigBio Workshop

Tue, 04/05/2011 - 14:39 — anelli

TORCH's 2014 meeting was held at Sul Ross State University in Alpine, TX, May 23-24. The meeting included a field trip to Livermore Ranch (thanks to Will Godwin for organizing this and to our host John Barnett), the TORCH business meeting/ curators' meeting, a presentation from Cullen Hanks and Jason Singhurst from Texas Parks & Wildlife, and an all-day digitization workshop led by Joanna McCaffrey and Deb Paul from iDigBio, with lightning-round presentations from participants. Please see the Meetings page for more information.

About TORCH

MISSION

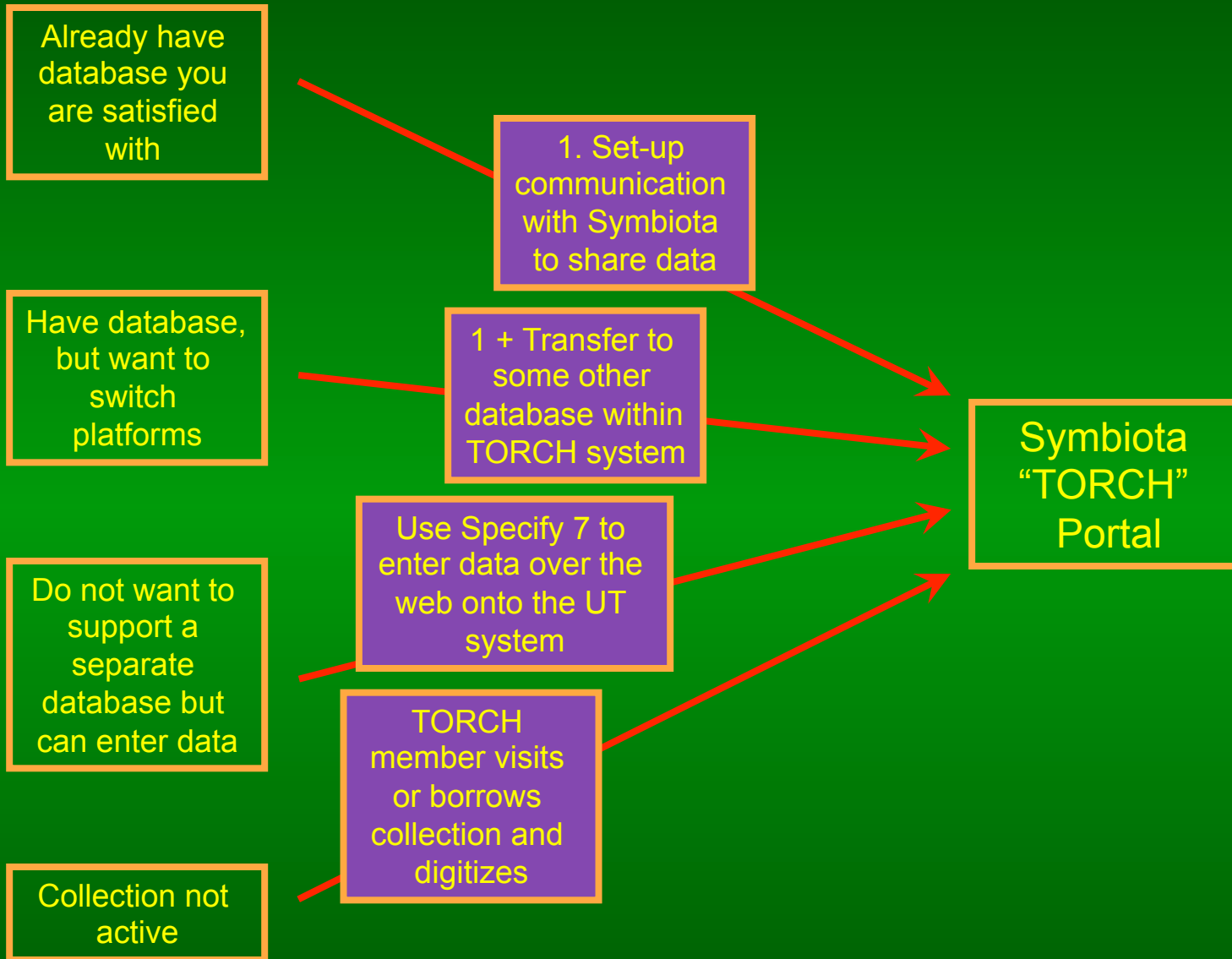
The Texas Oklahoma Regional Consortium of Herbaria was developed to advocate for and to organize herbaria in Texas and Oklahoma. TORCH has four primary objectives:

- Provide a mechanism for communication and collaboration among regional herbaria of all types and sizes
- Promote regional data sharing and plant taxonomic and collections-based research, outreach, and education
- Function as a regional consortium in the plant research collection network

[Read more](#)



 Drupal



Specimens at collections that TORCH members visit can be imaged and then databased from the images



Potential complications:
Barcode use
Georeferencing

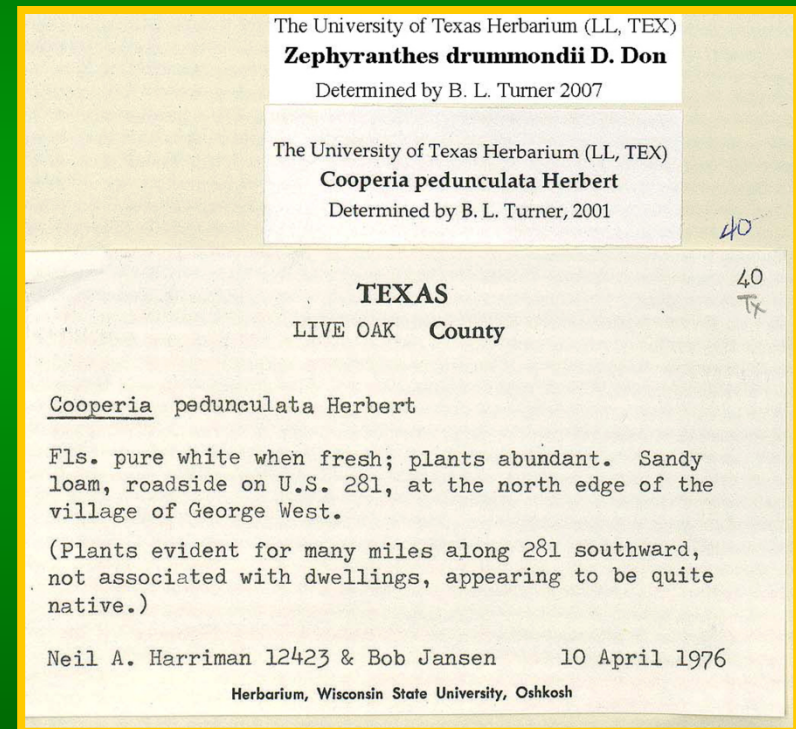


Photo: Dan Charles



Establishing the framework for aggregating data from member collections through a regional portal is an important step in the overall goals of the TORCH network. It will also help to give TORCH more visibility and provides a common goal for all of the member herbaria to work toward. To mix metaphors, it will help to light a fire under the TORCH.