



NRCS: A Plant Information Leader

- U.S. Department of Agriculture
Natural Resources Conservation Service
National Plant Data Center
Baton Rouge
Louisiana
USA



<http://npdc.usda.gov>



© Mark Skinner



- Meeting NRCS field office, customer, & cooperator plant information needs
- National plant information automation standard
- NRCS strategic database

Data Development Partners Include

- ARS Systematic Bee Lab
- ARS Systematic Botany Lab
- Biota of North America Program
- Bishop Museum-Honolulu
- Clemson University
- Flora of North America
- Louisiana State University
- Florida State University
- Kansas State University
- Louisiana State University
- Mississippi State University
- Missouri Botanical Garden
- Montreal Botanic Garden
- North Carolina A&T University
- Oregon State University
- San Francisco State University
- Santa Barbara Botanic Garden
- Smithsonian Institution-Botany
- Southern Illinois University
- Southern University
- University of Alaska
- University of California-Davis
- University of Florida
- University of Kansas
- University of Louisiana-Monroe
- University of Maryland
- University of Mississippi
- University of Nebraska
- University of Texas-Austin
- University of Wyoming
- USGS Nat'l Wetland Research Ctr
- Utah State University
- Xerces Society
- Yale University



PLANTS Web Site

- *<http://plants.usda.gov>*
 - 70,000,000+ hits per month
 - 1.8 million users per month
 - Focuses on U.S. and its territories
 - Directly accessible to traditional & non-traditional clients, cooperators, and the public

PLANTS Includes:

- Names, Checklists, and Classification
- Distribution & Update
- Legal Status
 - Wetland
 - T&E
 - Noxious
- Plant guides
- Images & Links
- Culturally significant plants

USDA United States Department of Agriculture
Natural Resources Conservation Service


PLANTS Database

Home About PLANTS Team Partners What's New NPDC Help Contact Us

You are here: Home/


The PLANTS Database provides standardized information about the vascular plants, mosses, liverworts, hornworts, and lichens of the U.S. and its territories.


Plant of the Week


 **White oak**
Quercus alba L.


Click on the photo for a full plant profile.

Spotlight

 **Submit Your Photos**
Contribute your photos to PLANTS! We are looking for accurately identified submissions of 100 or more images, preferably with supporting information including date and location.

 **Update PLANTS Distribution Maps**
You can help update PLANTS state and county distribution records by contributing your information to the Distribution Update module.

 **PLANTS Posters**
Dress up your home or office with PLANTS Posters featuring lovely plants such as small-whorled pogonia (*Isotria medeoloides*) and red columbine (*Aquilegia canadensis*). Our seven printer-friendly posters can be downloaded in two formats (8.5" x 11" or 11" x 17"), and printed at home or at your local print shop.

 **NPDC Product Catalog** (PDF; 976KB)

I Want To...

- See a list of the plants in my state
- Learn about the wetland plants in my region
- Learn about all the endangered plants of the U.S.
- Learn about noxious and invasive plants
- Search for and view images of plants
- Read and print abstracts about important conservation plants
- Download data or posters
- Contribute plant distribution information to PLANTS
- Get ecological descriptions of sites from around the country
- Choose plants for particular land conservation purposes

I Want Help

- Introduction to PLANTS
- Frequently Asked Questions
- Citing the PLANTS Database
- Intellectual Property Statement
- Contribute Your Photos to PLANTS
- Update PLANTS Distribution Maps
- Search the Web Site

USDA United States Department of Agriculture
Natural Resources Conservation Service

PLANTS Database


Home About PLANTS Team Partners What's New NPDC Help Contact Us

You are here: Home / PLANTS Profile [Printer-Friendly Version / Plug-Ins](#)

PLANTS Profile

***Achnatherum hymenoides* (Roemer & J.A. Schultes) Barkworth**
Indian ricegrass

Click on the image below to enlarge it and download a high-resolution JPEG file.



Symbol: ACHY
Group: Monocot
Family: Poaceae
Growth Habit: Graminoid
Duration: Perennial
U. S. Nativity: Native


More Information:

- Plant Characteristics
- Plant Classification
- Plant Guide (pdf) (doc)
- PM Publications
- Plant Source & Reference

©J.S. Peterson, USDA NRCS NPDC, Arches National Park, Grand Co., UT, July 15, 2001. Usage Guidelines.

Plant Images:
Achnatherum hymenoides (Roemer & J.A. Schultes) Barkworth


Click on a thumbnail to view an image, or see all the *Achnatherum* thumbnails at the PLANTS Gallery



Plant Synonyms:
Achnatherum hymenoides (Roemer & J.A. Schultes) Barkworth

ERCU9 *Eriocoma cuspidata* Nutt.
ORHY *Oryzopsis hymenoides* (Roemer & J.A. Schultes) Ricker ex Piper
STHY6 *Stipa hymenoides* Roemer & J.A. Schultes

Plant Distribution by State:
Achnatherum hymenoides (Roemer & J.A. Schultes) Barkworth



See county distributions for the following states by clicking on them below or on the map.

AZ
CA
CO
ID
KS
MN
MT

PLANTS Database

Plant Profile: Access to---

- Profiles for 43,000 plants
- Images
- Distribution & Attributes
- Legal status-Noxious/T&E
- Conservation characteristics
- Plant guides & fact sheets
- Wetland indicator status
- Related web sites
- Related species
- Printer-friendly version

PLANTS: Searches

- Name search
 - Scientific name
 - Common name
 - Symbol
- State search
 - More specific
- Advanced search
 - Very specific
 - Access all data



The screenshot displays the USDA Natural Resources Conservation Service PLANTS Database website. At the top, the USDA logo and the text "United States Department of Agriculture" and "Natural Resources Conservation Service" are visible. Below this is a banner for the "PLANTS Database" featuring various plant images. A navigation bar includes "Home" and "About PLANTS". A search box is open, showing "pinus" in the input field, a dropdown menu set to "Scientific Name", and a "Go" button. Below the search box are links for "State Search", "Advanced Search", and "Search Tips". To the right of the search box, the text "You are here: Home/" is displayed, followed by a paragraph: "The PLANTS Database provides the vascular plants, mosses, and lichens of the U.S. and its territories." Below this is a section titled "Plant of the Week" with a partially visible image.

State Search

You are here: Home / State Search

State Search

Search the PLANTS database by Scientific Name, Common Name, Symbol, Genus, or Family, then filter by geography. This yields a fully synonymized checklist (with all synonyms shown).

1. Enter Search Criteria:

Scientific Name

Wild cards are permitted; * for multiple characters and _ for single characters.

2. Filter by Geography:

Choose as many geographic areas as you like or leave blank to search all areas.


<input type="checkbox"/> Alabama	<input type="checkbox"/> Kansas	<input type="checkbox"/> New Mexico	<input type="checkbox"/> Virginia
<input type="checkbox"/> Alaska	<input type="checkbox"/> Kentucky	<input type="checkbox"/> New York	<input type="checkbox"/> Washington
<input type="checkbox"/> Arizona	<input type="checkbox"/> Louisiana	<input type="checkbox"/> North Carolina	<input type="checkbox"/> West Virginia
<input type="checkbox"/> Arkansas	<input type="checkbox"/> Maine	<input type="checkbox"/> North Dakota	<input type="checkbox"/> Wisconsin
<input type="checkbox"/> California	<input type="checkbox"/> Maryland	<input type="checkbox"/> Ohio	<input type="checkbox"/> Wyoming
<input type="checkbox"/> Colorado	<input type="checkbox"/> Massachusetts	<input type="checkbox"/> Oklahoma	<input type="checkbox"/> American Samoa
<input type="checkbox"/> Connecticut	<input type="checkbox"/> Michigan	<input type="checkbox"/> Oregon	<input type="checkbox"/> Guam
<input type="checkbox"/> Delaware	<input type="checkbox"/> Minnesota	<input type="checkbox"/> Pennsylvania	<input type="checkbox"/> Palau
<input type="checkbox"/> Florida	<input type="checkbox"/> Mississippi	<input type="checkbox"/> Rhode Island	<input type="checkbox"/> Puerto Rico
<input type="checkbox"/> Georgia	<input type="checkbox"/> Missouri	<input type="checkbox"/> South Carolina	<input type="checkbox"/> US Minor Outlying Islands
<input type="checkbox"/> Hawaii	<input type="checkbox"/> Montana	<input type="checkbox"/> South Dakota	<input type="checkbox"/> Virgin Islands
<input type="checkbox"/> Idaho	<input type="checkbox"/> Nebraska	<input type="checkbox"/> Tennessee	<input type="checkbox"/> Fed. States of Micronesia
<input type="checkbox"/> Illinois	<input type="checkbox"/> Nevada	<input type="checkbox"/> Texas	<input type="checkbox"/> Marshall Islands
<input type="checkbox"/> Indiana	<input type="checkbox"/> New Hampshire	<input type="checkbox"/> Utah	<input type="checkbox"/> Northern Mariana Islands
<input type="checkbox"/> Iowa	<input type="checkbox"/> New Jersey	<input type="checkbox"/> Vermont	

3. Sort by:

Scientific Name Common Name Symbol

- To obtain state list, just click on your state and hit display
 - List contains accepted and synonyms
- Section 1 “Enter Search Criteria” can be used for specific search

Advanced Search

 **Search the PLANTS database and display the results.**

PLANTS Advanced

Specify your search criteria below. Later you can review your choices and choose to sort your report, and after displaying the data you can download it as a comma-delimited text file. Or click the second link below to download without displaying any information.

[About the Advanced Search and Download](#)
[Search the PLANTS database and download the results without display](#)

Contents

- Part A: PLANTS Core Data
- Part B: Characteristics Data

Part A: PLANTS Core Data


1. Distribution

US Plants or Worldwide	include:	<input type="text" value="Any Plants"/>	<input type="checkbox"/> Display in Report
State Distribution	include:	<input type="text" value="Any State"/> Alabama Alaska Arizona Arkansas California	<input type="checkbox"/> Display in Report
County Distribution (Select a maximum of 15)	include:	<input type="text" value="Any County"/> Arkansas:Arkansas Arkansas:Ashley Arkansas:Baxter Arkansas:Benton Arkansas:Boone	<input type="checkbox"/> Display in Report

2. Taxonomy

- Complete access to the data
- Search 43,000 plants on basic attributes:
 - Distribution
 - Taxonomy
 - Life form and Nativity
 - Legal Status
 - Additional info in PLANTS
- Search 2,300 plants on 100 plant attributes
- Filter results by any attribute(s)
- Report to screen or download data set for your local use

Advanced Search



Advanced Query Results

View by: **Scientific Name**

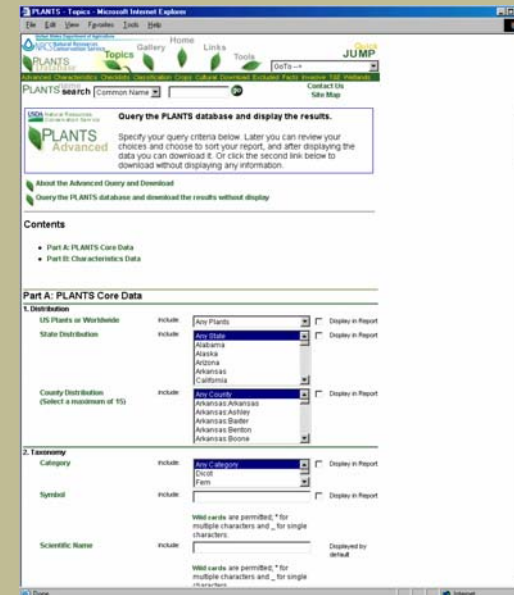
[About the Advanced Query and Download](#)

[Download This Information About the Download from this page](#)

Part A: PLANTS Core Data

Scientific Name	State Distribution	Family	Federal Noxious Status	Federal Noxious Common Name	State Noxious Status	State Noxious Common Name
Acacia farnesiana	AL, AZ, CA, FL, GA, HI, LA, MS, NM, PR, TX, VI	Fabaceae	No			
Acer negundo	AL, AR, AZ, CA, CO, CT, DE, FL, GA, IA, ID, IL, IN, KS, KY, LA, MA, MD, ME, MI, MN, MO, MS, MT, NC, ND, NE, NH, NJ, NM, NY, OH, OK, OR, PA, RI, SC, SD, TN, TX, UT, VA, VT, WA, WI, WV, WY	Aceraceae	No			
Acer rubrum	AL, AR, CT, DE, FL, GA, IA, IL, IN, KY, LA, MA, MD, ME, MI, MN, MO, MS, NC, NH, NJ, NY, OH, OK, PA, RI, SC, TN, TX, VA, VT, WI, WV	Aceraceae	No		HI (NW)	HI (plume poppy)
Bocconia frutescens	HI, PR	Papaveraceae	No			
Clusia rosea	FL, HI, PR, VI	Clusiaceae	No			
Colubrina asiatica	FL, HI	Rhamnaceae	No			

- Report to screen or download data set



The screenshot shows the PLANTS Advanced Search interface in a Microsoft Internet Explorer browser window. The page title is "PLANTS - Topics - Microsoft Internet Explorer". The interface includes a search bar with "Common Name" selected, a "JUMP" button, and a "Contents" section with links for "Part A: PLANTS Core Data" and "Part B: Characteristics Data". The "Part A: PLANTS Core Data" section is expanded, showing search criteria for "1. Distribution" and "2. Taxonomy".

1. Distribution

- US Plants or Worldwide: include Any Plants Display in Report
- State Distribution: include Any State Display in Report
- County Distribution (Collect a maximum of 10): include Any County Display in Report

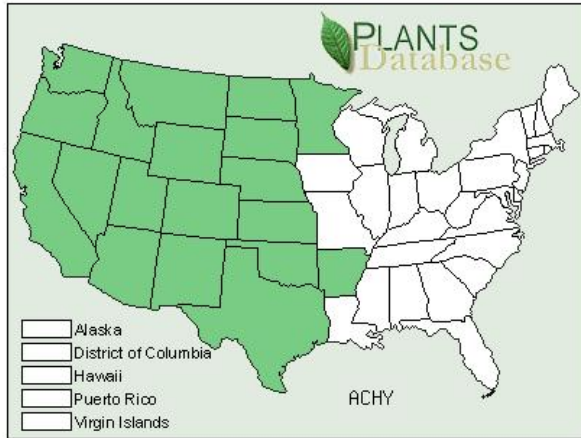
2. Taxonomy

- Category: include Any Category Display in Report
- Symbol: include Decid Perm Display in Report
- Scientific Name: include Display by default

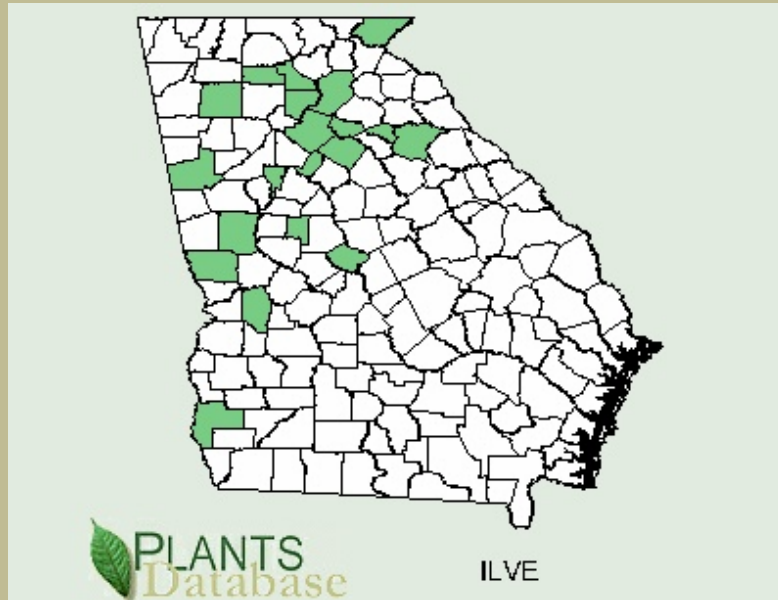
Wild cards are permitted: * for multiple characters and _ for single characters.

Plant Distribution by State:

Achnatherum hymenoides (Roemer & J.A. Schultes) Barkworth



© Image generated using gd 1.8

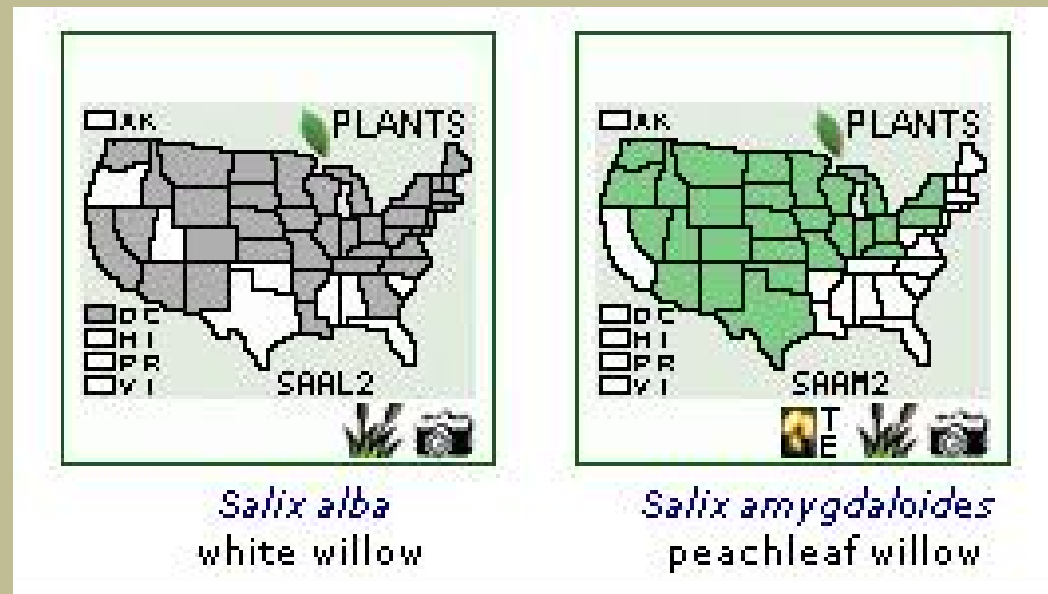


State & County Distribution

- Complete state coverage for vascular plants
 - PR & VI included
 - Pacific Basin islands under development
 - DC included
- County level for all states
 - Completeness varies by state
 - Data mining underway to fill county data gaps
- Distribution based primarily on specimens and literature
 - Distribution Update module
- Dedicated links to selected Web-based state atlases

Thumbnail Maps

- View all species in a genus, one-click access
- Image availability icon denoted on certain species
- Species nativity identified on thumbnails
- T&E, noxious, & wetland status



Native Introduced

Noxious T&E Wetland Image

Fact Sheets & Plant Guides


- 650+ species available as doc or pdf files
- Explains how to utilize, establish, manage, & maintain
- Includes culturally significant information
- Plant Materials & NPDC partnership

USDA NRCS
United States Department of Agriculture
Natural Resources Conservation Service

Plant Guide

PALMER'S PENSTEMON
<i>Penstemon palmeri</i> Gray
Plant Symbol = PEP A8

Contributed by: USDA NRCS Idaho State Office & National Plant Data Center



Gerald & Buff Corsi
© California Academy of Sciences
© CalPhotos

Alternate Names

varieties are considered fair to poor palatability and considered to be only incidental forage value. All species provide diversity to the seeded plant community.

Erosion control/reclamation: All species are mentioned for their value in mixes for erosion control and beautification values.

Wildlife: Penstemons are considered desirable forages for deer, antelope, and birds either as herbage or seed. They may also provide some cover for selected small bird species. They provide diversity to the plant community.

Status
Please consult the PLANTS Web site and your State Department of Natural Resources for this plant's current status, such as, state noxious status and wetland indicator values.

Description
General: Figwort Family (Scrophulariaceae). Penstemon or beardtongue species are perennial forbs or sub-shrubs to shrubs with attractive flowers. They are short to long-lived. Penstemons have opposite, entire, or toothed leaves. They have several stalked flowers or flower clusters that are borne in the axils of the upper leaves or leaflike bracts. The tubular corolla is strongly to distinctly two-lipped at the mouth with a two-lobed upper lip and a three-lobed lower lip. There are 4 anther-bearing (fertile) stamens and a single sterile stamen or staminodia that is often hairy at the tip. The fruit is a many-seeded capsule.

Palmer's penstemon is a perennial herb to a slightly woody subshrub 5 to 14 dm tall with a thick crown. The plant is glabrous and glaucous with fleshy leaves. The leaves are dentate with the upper ones sometimes triangular. The flowers range from white to lavender-pink. Cronquist et al. (1984) recognizes three varieties and provides a key to these.

Plant Characteristics

- Compiled for 2,300+ conservation plant species
- 100 characteristics
- Can be used as a filter in the **Advanced Search**
- These data support VegSpec

Characteristics	
<small>About PLANTS Characteristics Conservation Plant Characteristics Data Definitions PLANTS Characteristics species list</small>	
Conservation Plant Characteristics	
<i>Achnatherum hymenoides</i> (Roemer & J.A. Schultes) Barkworth Indian ricegrass ACHY	
Summary	
Duration	Perennial
Growth Habit	Graminoid
U.S. Nativity	Native to U.S.
Federal T/E Status	
National Wetland Indicator	
Morphology/Physiology	
Active Growth Period	Spring, Summer, Fall
After Harvest Regrowth Rate	Moderate
Bloat	None
C:N Ratio	Medium
Coppice Potential	No
Fall Conspicuous	No
Fire Resistant	No
Flower Color	Yellow
Flower Conspicuous	No
Foliage Color	Green
Foliage Porosity Summer	Moderate
Foliage Porosity Winter	Porous
Foliage Texture	Medium
Fruit/Seed Color	Brown
Fruit/Seed Conspicuous	No
Growth Form	Bunch
Growth Rate	Moderate
Height at 20 Years, Maximum (feet)	
Height, Mature (feet)	2
Known Allelopath	No
Leaf Retention	No
Lifespan	Moderate

Threatened and Endangered Plants

- Select Federal and State T/E plants simultaneously
- Links to official Federal & State web pages
- Links to **Plant Profile** for more information

You are here: [Home](#) / [Threatened & Endangered](#)

Threatened & Endangered

[About PLANTS Threatened & Endangered](#)

Find Federal and State threatened and endangered plants by Genus, Family, and/or State.

1. Enter Search Criteria:

Genus

Wildcards are permitted:
* for multiple characters, _ for single characters.

Select federal and/or state protected plants below:

Federal
 States

2. Filter by Geography:

Choose as many geographic areas as you like or leave blank by the jurisdictions you selected above. Or, click on linked [jurisdictions](#).

Alabama Kansas
 Alaska Kentucky
 Arizona Louisiana
 Arkansas Maine
 California Maryland
 Colorado Massachusetts
 Connecticut Michigan
 Delaware Minnesota
 Florida Mississippi
 Georgia Missouri
 Hawaii Montana
 Idaho Nebraska
 Illinois Nevada
 Indiana New Hampshire
 Iowa New Jersey

3. Sort by:

Scientific Name Common Name Symbol

[Display Results](#)

You are here: [Home](#) / [Threatened & Endangered](#) / [Threatened & Endangered Results](#) [Printer-Friendly / Download](#)

Threatened & Endangered

[About PLANTS Threatened & Endangered](#)

State Protected Plants in Kentucky
391 records returned

Click on an accepted name below to view its PLANTS Profile with more information. Click on the reference link to see the published list and learn more about the law. Protected plants that are synonyms are indented beneath the current PLANTS accepted name; common names are from the state list.

[Kentucky](#) [Kentucky State Nature Preserves Commission, 2000. **Endangered, threatened, and special concern species** \(<http://www.kynaturepreserves.org/etsquery.asp>\). Kentucky State Nature Preserves Commission.](#)

Symbol	Scientific Name	State Common Name	State Protected Status†
ACSP2	<i>Acer spicatum</i> Lam.	mountain maple	E
ACUN	<i>Aconitum uncinatum</i> L.	blue monkshood	T
ACRU14	<i>Actaea rubifolia</i> (Kearney) Kartesz		
CIRU	<i>Cimicifuga rubifolia</i> Kearney	Appalachian bugbane	T
ADCA	<i>Adiantum capillus-veneris</i> L.	southern maidenhair-fern	T
ADFU	<i>Adlumia fungosa</i> (Ait.) Greene ex B.S.P.	climbing fumitory	E
AEPA	<i>Aesculus pavia</i> L.	red buckeye	T
AGAU3	<i>Agalinis auriculata</i> (Michx.) Blake	earleaf foxglove	E
AGOB	<i>Agalinis obtusifolia</i> Raf.	ten-lobe false foxglove	E
AGSK	<i>Agalinis skinneriana</i> (Wood) Britt.	pale false foxglove	E
AGSC	<i>Agastache scrophulariifolia</i> (Willd.) Kuntze	purple giant hyssop	SC
AGLU	<i>Ageratina luciae-brauniae</i> (Fern.) King & H.E. Robins.	Lucy Braun's white snakeroot	SC
AGGR2	<i>Agrimonia gryposepala</i> Wallr.	tall hairy groovebur	T
AMMU	<i>Amanthium muscitoxicum</i> (Walt.) Gray	fly-poison	T
AMTAG	<i>Amsonia tabernaemontana</i> Walt. var. <i>gatteringeri</i> Woods.	eastern blue-star	T
ANCA8	<i>Anemone canadensis</i> L.	Canada anemone	H
ANTR2	<i>Angelica triquinata</i> Michx.	filmy angelica	E
ANRU5	<i>Anomodon rugelii</i> (C. Müll.) Keissl.	a moss	T
APPR	<i>Apios priceana</i> B.L. Robins.	Price's potato-bean	E
ARHIP	<i>Arabis hirsuta</i> (L.) Scop. var. <i>pycnocarpa</i> (M. Hopkins) Rollins		
ARHIA	<i>Arabis hirsuta</i> (L.) Scop. var. <i>adpressipilis</i> (M. Hopkins) Rollins	hairy rock-cress	E
ARMIS	<i>Arabis missouriensis</i> Greene	Missouri rock-cress	E

Noxious & Invasive

- 1400+ plants
- Federal noxious weeds
- State noxious weeds
 - linked to state legislation
- Plants known to have weedy or invasive characteristics
 - linked to 12 publications
- Names linked to Plant Profile

You are here: [Home](#) / [Invasive and Noxious Weeds](#)

Invasive and Noxious Weeds

NRCS Invasive Species Policy
Invasive Species Executive Order 13112

View Federal and state noxious weed lists, an invasive plant list, or an introduced plant list, each with links to more information.

- Federal Noxious Weed List
- State Noxious Weed Reports
- State and Federal Composite List of All U.S. Noxious Weeds
- Invasive Plants of the U.S.
- Introduced Plants of the U.S.

Federal Noxious Weed List

Individual invasive lists:

In accordance with the [Federal Noxious Weeds](#) list:

[List of Federal Noxious Weeds](#)

State Noxious Weed Reports

The following states have designated cert

STATE	Assorted authors. 200_.
Alabama	Florida Exotic Pest Plant Council. 19
Alaska	Council. Florida.
Arizona	USDI, Geological Survey. 1999. In
Arkansas	1999). Hawaiian Ecosystems at Risk
California	Haragan, P.D. 1991. Weeds of Ke
Colorado	Kentucky. 278 pp.
Connecticut	Uva, R.H., J.C. Neal, & J.M. DiToma
Delaware	Stubbendieck, J., G.Y. Friisoe, & M.J
Florida	Agriculture, Bureau of Plant Industr
Hawaii	Southeast Exotic Pest Plant Council
Idaho	eppc.org/states/TN/TNList.html , Oc
Illinois	Southern Weed Science Society. 19
	Champaign, Illinois.
	Hoffman, R. & K. Kearns, Eds. 1997
	Wisconsin Dept. Natural Resources.
	Whitson, T.D. (Ed.) et al. 1996. We
	Services, University of Wyoming. L

State and Federal Composite List

This composite list is a summary of noxi

Invasive Plants of the U.S.

These plants are invasive or have a high | some are harmful pests in parts of this co | [About the PLANTS Invasive List.](#)

You may view individual invasive lists ass | specialists, or a composite list that is deni

Composite invasive list:

Scientific Name=	A	B	C	D	E	F
Common Name=	A	B	C	D	E	F

Scientific Name= A | B | C | D | E | F
Common Name= A | B | C | D | E | F

You are here: [Home](#) / [Invasive and Noxious Weeds](#) / [Arizona State Noxious Weeds List](#)

Invasive and Noxious Weeds

NRCS Invasive Species Policy
Invasive Species Executive Order 13112

Arizona State-listed Noxious Weeds
80 records returned

Click on an accepted name below to view its PLANTS Profile with more information, and web links if available. Noxious weeds that are synonyms are indented beneath the current PLANTS accepted name.

Plant Services Division. 2005. [Prohibited, Regulated and Restricted Noxious Weeds](#). Arizona Department of Agriculture.

Symbol	Scientific Name	Noxious Common Name	State Weed Status†	U.S. Nativity*
ACBR5	<i>Achnatherum brachychaetum</i> (Godr.) Barkworth			I
STBR3	<i>Stipa brachychaeta</i> Godr.	puna grass	PNW	
ACRE3	<i>Acroptilon repens</i> (L.) DC.	Russian knapweed	PNW, RNW	I
AECY	<i>Aegilops cylindrica</i> Host	jointed goatgrass	PNW, RNW	I
ALMA12	<i>Alhagi maurorum</i> Medik.			I
ALPS3	<i>Alhagi pseudalhagi</i> (Bieb.) Desv. ex B. Keller & Schaparenko	camelthorn	RNW	
ALPH	<i>Alternanthera philoxeroides</i> (Mart.) Griseb.	alligatorweed	PNW	I
CACH42	<i>Cardaria chalapensis</i> (L.) Hand.-Maz.			I
CACH10	<i>Cardaria chalapensis</i> (L.) Hand.-Maz. [orthographic variant]	lens podded hoary cress	PNW	
CADR	<i>Cardaria draba</i> (L.) Desv.	globe-podded hoary cress, globe-podded hoary cress, whitetop	PNW, RNW	I
CAPU6	<i>Cardaria pubescens</i> (C.A. Mey.) Jarmolenko	hairy whitetop	PNW	I
CAAC	<i>Carduus acanthoides</i> L.	plumeless thistle	PNW	I
CEEC	<i>Cenchrus echinatus</i> L.	southern sandbur	PNW, RGNW	N
CESP4	<i>Cenchrus spinifex</i> Cav.			N
CEIN4	<i>Cenchrus incertus</i> M.A. Curtis	field sandbur	RGNW	
CECA2	<i>Centaurea calitrapa</i> L.	purple starthistle	PNW	I
CED13	<i>Centaurea diffusa</i> Lam.	diffuse knapweed	PNW, RNW	I
CEIB	<i>Centaurea iberica</i> Trev. ex Spreng.	Iberian starthistle	PNW	I
CES03	<i>Centaurea solstitialis</i> L.	yellow starthistle, yellow starthistle, St. Barnaby's thistle	PNW, RNW	I
CESTM	<i>Centaurea stoebe</i> L. ssp. <i>micranthos</i> (Gugler) Hayek			I
CEMA4	<i>Centaurea maculosa</i> auct. non Lam. [misapplied]	spotted knapweed	RNW	
CESU	<i>Centaurea sulphurea</i> Willd.	Sicilian starthistle	PNW	I
CEVIS2	<i>Centaurea virgata</i> Lam. ssp. <i>squarrosa</i> (Willd.) Gugler			I
CESQ	<i>Centaurea squarrosa</i> Willd.	squarrose knapweed	PNW	
CHJU	<i>Chondrilla juncea</i> L.	rush skeletonweed	PNW	I
CIAR4	<i>Cirsium arvense</i> (L.) Scop.	Canada thistle	PNW	I
COAR4	<i>Convolvulus arvensis</i> L.	field bindweed	PNW, RGNW	I
COSQ	<i>Coronopus squamatus</i> (Forssk.) Aschers.	creeping wartcress, coronopus	PNW	I
CUME	<i>Cucumis melo</i> L.			I

Wetland Indicator Status

You are here: [Home](#) / [Wetland Indicator Status](#)

Wetland Indicator Status

[Interpreting Wetland Indicator Status](#)

Display U.S. Fish and Wildlife Service wetland indicator status for vascular plants, by genus, family, and/or wetland region.

1. Enter Search Criteria:

Select by name, Symbol, or group:

Scientific Name

Wildcards are permitted:
* for multiple characters,
_ for single characters.

Select by Category:

All
Dicot
Fern
Gymnosperm

Select by Growth Habits:

All
Forb/herb
Graminoid
Shrub

Select by Duration:

All
Annual
Biennial
Perennial

Select by U.S. Nativity:

All

Select by State Distribution:

All
Alabama
Alaska
Arizona

Select by National Wetland Indicator Status:

All
With Wetland Status
--OBL (Obligate Wetland)
--OBL? (Possibly Obligate Wetland)

Select by Regional Wetland Indicator (Region):

All Display all regions
Region 1 (Northeast)
Region 2 (Southeast)
Region 3 (North Central)

Select by Regional Wetland Indicator (Status):

All
OBL (Obligate Wetland)
OBL* (Tentatively Obligate Wetland)
FACW+ (Facultative Wetland+)

2. View and Sort by:

Scientific Name Common Name Symbol

[Display Results](#)

Wetland Indicator Status:

Corylus cornuta Marsh.

Nat. Ind.	Reg. 1	Reg. 2	Reg. 3	Reg. 4	Reg. 5	Reg. 6	Reg. 7	Reg. 8	Reg. 9	Reg. 0	Reg. A	Reg. C	Reg. H
UPL,FACU	FACU-	FACU	UPL	UPL	UPL	NO	NO	FACU	FACU	NI	NO	NO	NO

[Interpreting Wetland Indicator Status](#)

- Data from USFWS and Army Corps
 - 1988 Version
- National and Regional Indicators
- Links to **Plant Profile** for access to additional data
- Based upon PLANTS checklist

Other Species Accounts and Images

Other Species Accounts and Images:

Achnatherum hymenoides (Roemer & J.A. Schultes) Barkworth

[View photographs from CalFlora.](#)

[View species account from USDA Forest Service Fire Effects Information System \(FEIS\).](#)

[View species account from ARS Germplasm Resources Information Network \(GRIN\).](#)

[View taxonomic account from Integrated Taxonomic Information System \(ITIS\) for ITIS Taxonomic Serial Number 507943.](#)

[View 1 propagation protocol from Native Plants Network.](#)

[View species account from Wisconsin State Herbarium \(UW-Madison\).](#)

- One-click access to other key sites

Related Web Sites

Related Web Sites:

Achnatherum hymenoides (Roemer & J.A. Schultes) Barkworth

AZ-Northern Arizona University
CA-Jepson Flora Project
CO-Colorado State University Herbarium
Canada-Saskatchewan-Rangeland Ecosystems and Plants
Forestry Images
Lady Bird Johnson Wildflower Center
NV-State Plants
Native Plant Network Protocol Information
OH-Ohio State University Seed Identification
UK-Plants For A Future
UT-Range Plants (USU)
UT-State Plants
UT-Water Wise Plants
WA-Central Washington Native Plants

- Quick access to pertinent **Related Web Sites**
- Links maintained on a routine basis
- Additions integrated quickly for priority plants

Wildlife Habitat Values

- Integrated into Plant Profile where available
- Provides wildlife habitat ratings by plant species for animal groups
 - 1st iteration limited data
- NPDC & National Agricultural Wildlife Center partnership



Wildlife Habitat Values:

Trifolium pratense L.

Source	Large Mammals		Small Mammals		Water Birds		Terrestrial Birds	
	Food	Cover	Food	Cover	Food	Cover	Food	Cover
Yarrow	Low		Low				Low	

[Wildlife Habitat Values](#)

Yarrow, G.K., and D.T. Yarrow. 1999. *Managing wildlife*. Sweet Water Press, Birmingham.

Gallery

- Browse photos, or
- Select using a query form
- View by name or thumbnail
- Links to **Plant Profile** for access to large and publication photos

You are here: [Home](#) / [Image Gallery](#)

Image Gallery

The PLANTS Gallery emphasizes photos and line drawings of U.S. plants but also contains many cultivated or foreign taxa.

1. Enter Search Criteria:

Select by name, Symbol, or group:

Scientific Name

Wildcards are permitted:
* for multiple characters,
_ for single characters.

Select by Category:

All

Dicot

Fern

Green alga

Select by Growth Habits:

All

Forb/herb

Graminoid

Lichenous

Select by Duration:

All

Annual

Biennial

Perennial

Select by U.S. Nativity:

All

Select by Wetland Status:

All

Select by Image Type:

All

Select by Artist:

All

A.K.

Al Schneider

Alfred Schotz

Select by Copyright Status:

All

Select by Image Location:

All

0.5 miles S. of Pioneertown, CA

0.5 miles SE of Pioneertown, CA

1 mile N. of Green Valley, San F

Select by State Distribution:

All

Alabama

Alaska

Arizona

Select by Citation:

All

Barnes, T.G., and S.W. Francis,

Britton, N.L., and A. Brown, 191

Herman, D.E., et al., 1996. Nort

You are here: [Home](#) / [Image Gallery](#) / [Image Gallery Results](#)

Image Gallery

Gallery Images for Scientific Name = **Lilium**

Matching images= 118: 110 photos, 8 line drawings

Click on a thumbnail image or name below to view the PLANTS profile with standard sized images and links to additional large and publication-quality images (when available).

View by: and Sort by:

--25 per page and Scientific Name

2. View and Sort by:

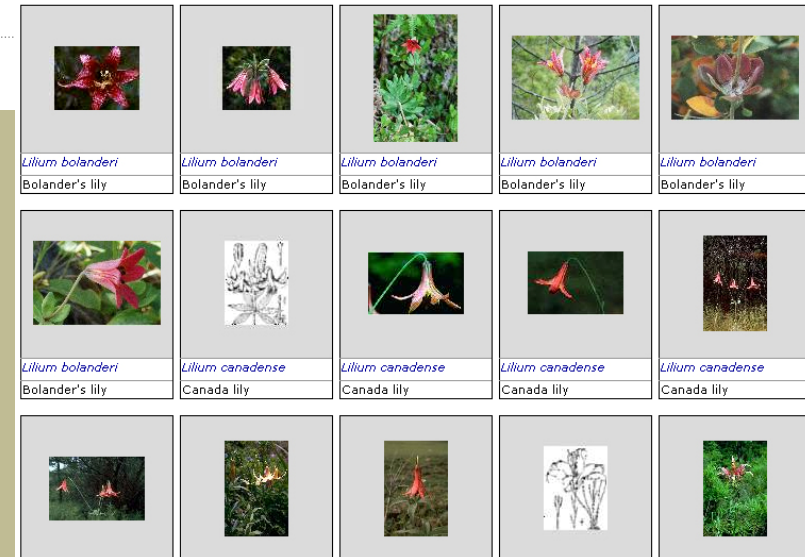
View by: and Sort by:

Text List and Scientific Name



< Previous | Page 1 of 5 | Next >

Go to page



PLANTS Images

PLANTS Profile

Achnatherum hymenoides (Roemer & J.A. Schultes) Barkw Indian ricegrass

Symbol: ACHY
Group: Monocot
Family: Poaceae
Growth Habit: Graminoid
Duration: Perennial
U. S. Nativity: Native

Click on the image below to enlarge it and download a high-resolution JPEG file.



©J.S. Peterson, USDA NRCS NPDC, Arches National Park, Grand Co., UT, July 15, 2001. Usage Guidelines.

Plant Images:

Achnatherum hymenoides (Roemer & J.A. Schultes) Barkworth

Click on a thumbnail to view an image, or see all the *Achnatherum* thumbnails at the PLANTS Gallery



- Four sizes
 - Thumbs and Standard on Profile allow fast loading
 - Large and high resolution generally available by clicking on standard image

The screenshot shows the PLANTS Database website interface. At the top, there are navigation links: Home, Topics, Gallery, Links, and Tools. A search bar is visible with the text 'canu4' and a 'go' button. Below the search bar, there is a section titled 'Looking for More Information?' with a list of links. The list includes: All Links in the Database, Agriculture-Related, Bioremediation, Culturally Significant Plants, Educational, Find-It: Popular Search Engines, Invasive and Noxious Plants, Landscaping, Native Plants and Gardening, Non-Vascular Plants, Plant Groups A to W, Plant Photos, Plants & Names: Floras, Databases, and Nomenclature, Poisonous and Medicinal Plant Links, and Threatened, Endangered, and Rare Links.

■ **General links** provide easy access to other high quality sites for key topics, such as--

- Native plants
- Buffers
- Bioremediation
- Poisonous plants
- Fact sheets (off-site)
- Xeriscaping

General Links

PLANTS Links / Agriculture Related / Forage

Forages



Agriculture Related

Please note that the availability of other



The Forage Information System is a comprehensive resource for forage-related topics, including Extension, research, and teaching information.

The Forage Information System of yesterday ...

Inside the [Forage Information](#) Web Links to other information systems, management, quality and

Inside [Educational Opportunities](#) links to On-line and Classroom-based

Inside [Professional Resources](#) Organizations, and Vendors for forage

The [Search Tools](#) includes entire Frequently Asked Questions (FAQ)

© FIS 2005 | [Legal Information](#) |

Contents

- Introduction**
 - [General New York State Forage Information](#)
- Research**
- Grass Biofuels**
 - [Home](#)
 - [Introduction](#)
 - [FAQ](#)
 - [Research](#)
 - [Resources](#)
- Tools**
 - Cornell tools
 - [Forage species selector](#)
 - [Species information](#)
 - [Soil type locator](#)
 - Other tools
- Resources**
 - New York State
 - Other areas

Featured Tool

Forage Species Selection Tool

The [Forage Species Selection Tool](#) is made up of several programs which access numerous databases to provide forage species suggestions for New York State, taking into consideration both the available soil type and the intended forage use.

Soil type can be selected from a list, or the program can estimate soil type based on zipcode, county, and basic soil characteristics.

Contents

- Agriculture Related
 - Beneficial Insects
 - Buffers
 - Cover Crops
 - Crop Diseases
 - Forages
 - Black Grass Bug
 - Cool Season Grasses
 - Pasture
 - Forestry
 - Emerald Ash Borer
 - Urban Forestry
 - Nutrient Management
 - Plant Materials
 - Range
 - Seeds
 - Sustainable Agriculture
 - Vegetation Management
 - Wildlife Resources

Promoting Plant Materials Information



- PLANTS/Plant Materials (PM) Integration
 - PM Web site
 - 650+ Fact sheets/guides
 - 2000+ propagation protocols through **Native Plants Network**
- Search engine for PM technology publications

Easy Access to PM Technology

- Search PM Publications for Plant Materials technology publications
- Filter by publication type, keywords, and any word in the publication
- Download selected publications
- Additional publication being integrated by Plant Materials discipline



Culturally Significant Plant Information

Assisting Native American clients



from CalPhotos

Cultural Uses
Description
Adaptation
Establishment
Management
Sources
References



Technical Note:
Traditional Ecological Knowledge: An Important Facet of Natural Resources Conservation



PLANTS: Distribution Update



- Users filling in the knowledge gaps on plant distribution
 - Accepts voucher, observation, & literature documentation
 - Three input methods
 - GIS
 - GPS Lat-Long
 - TRS
 - Can submit images

PLANTS Distribution Update - Microsoft Internet Explorer

Step 1 2 3 4 5

1. Navigate and enter single location from the map GIS system below for *Eriogonum leucorum* L. (hard)

2. Provide additional information about *Eriogonum leucorum* L.

United States Department of Agriculture
NRCS Natural Resources Conservation Service
PLANTS Database
Topics Gallery Home Links Tools
Quick JUMP
GoTo-->
PLANTS search Common Name
Contact Us | Site Map

USDA Natural Resources Conservation Service
Animal and Plant Health Inspection Service
PLANTS Distribution Update
Step 1 2 3 4 5

* Required

1. Location from Voucher Specimen: (hint)
2.2 miles SE of junction of Hwy 95 and Tollway Road

2. Habitat from Voucher Specimen, including elevation if available: (hint)
Artemisia tridentata community, 5540 feet

3. Condition of Specimen:
 Vegetative
 Flower, Color of flower:
 Fruit

4. Collector:
Collector Name: * (hint)
First: Josiah
Middle:
Last: Grant
Suffix:
Collector number: (hint)
Collection date: (hint) *
Month: March
Day: 25
Year: 1939

PLANTS Downloads

You are here: [Home](#) / [Download Menu](#)

Download

PLANTS Downloads

Public Lists

Complete PLANTS Checklist - Download the Complete PLANTS Checklist which includes Symbol, Synonym Symbol, Scientific Name with Authors, National Common Name, and Family. The data are downloaded as uncompressed ASCII text.

State PLANTS Checklist - Download a State PLANTS Checklist which includes Symbol, Synonym Symbol, Scientific Name with Authors, National Common Name, and Family. The data are downloaded as uncompressed ASCII text.

Advanced Search Download - Download custom search results generated by the Advanced Search. The data are downloaded as uncompressed ASCII text

Symbols for Unknown Plants - Download a list of Symbols and descriptive Common Names for generic categories of unknown plants. The data are downloaded as uncompressed ASCII text.

Agency Working Lists

NRCS State Grazing and Spatial Analysis Tool (GSAT) Lists - NRCS personnel and cooperators can download an NRCS State GSAT List which includes Symbol, Scientific Name with Authors, and preferred State Common Name. The data are downloaded as uncompressed ASCII text.

NRCS State Plants Lists - NRCS personnel and cooperators can download an NRCS State Plants List which includes Symbol, Synonym Symbol, Scientific Name with Authors, preferred State Common Name, and Family. The data are downloaded as uncompressed ASCII text.

Posters

PLANTS Posters - Choose from seven attractive printer-friendly posters in two size formats.

- Download
 - Complete checklist
 - Unknown symbols
 - GSAT List
 - State PLANTS Checklist
 - Advanced Search
 - State Working List
 - Posters

Plant Identification


National Plant Data Center
Wetland Monocots

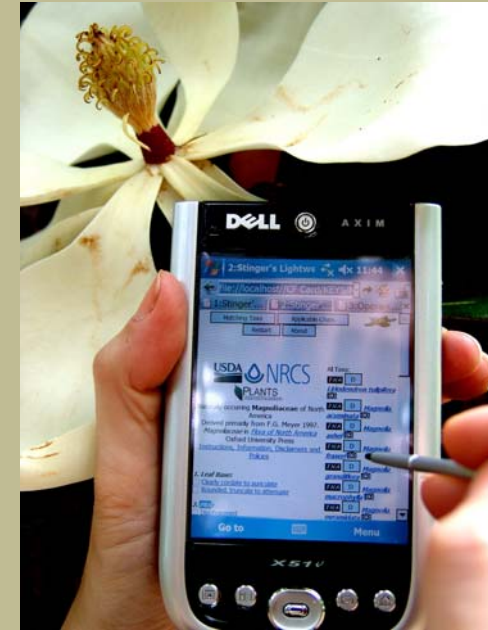
Compiled from several sources by Dr. David Bogler, Missouri Botanical Garden, under contract to USDA NRCS NPDC
[Instructions, Information, Disclaimers and Policies](#)

DRAFT beta

- 1. Aquatics growing in or on water
- 2. Aquatic submerged
- 3. Aquatic emergent
- 4. Aquatic leaves floating
- 5. Aquatic fresh water
- 6. Aquatic marine
- 7. Terrestrial
- 8. Herbaceous
- 9. Woody
- 10. Trees or shrubs
- 11. Lianas or vines
- 12. Pseudostem from leaf bases
- 13. Epiphytes
- 14. Saprophytes lacking chlorophyll
- 15. Annuals
- 16. Perennials
- 17. Rhizomes present
- 18. Rhizomes aromatic
- 19. Bulbs
- 20. Corms
- 21. Tubers
- 22. Prop roots
- 23. Stolons or runners
- 24. Roots contractile
- 25. Roots aerial or adventitious
- 26. Roots with velamen
- 27. Sap clear
- 28. Sap milky
- 29. Sap red or orange

All Taxa:

- [Acoraceae](#)
- [Agavaceae](#)
- [Alismataceae](#)
- [Alliaceae](#)
- [Amaryllidaceae](#)
- [Aponogetonaceae](#)
- [Araceae](#)
- [Arecaceae](#)
- [Asparagaceae](#)
- [Asteliaceae](#)
- [Bromeliaceae](#)
- [Burmanniaceae](#)
- [Butomaceae](#)
- [Cannaceae](#)
- [Colchicaceae](#)
- [Commelinaceae](#)
- [Costaceae](#)
- [Cymodoceaceae](#)
- [Cyperaceae](#)
- [Dioscoreaceae](#)
- [Eriocaulaceae](#)
- [Flagellariaceae](#)
- [Haemodoraceae](#)
- [Hanguanaceae](#)
- [Heliconiaceae](#)
- [Hemerocallidaceae](#)
- [Hyacinthaceae](#)
- [Hydrocharitaceae](#)
- [Hypoxidaceae](#)
- [Iridaceae](#)
- [Juncaceae](#)
- [Juncaginaceae](#)



- Available for testing
 - Select any character
- When used on-line:
 - Links to PLANTS Profile
 - Access images
 - Access data
 - Links to glossary through Google

- Search by crop type, state, then name
- Quick access to fact sheets from across the nation
- Assisting the field with info for limited resource farmers

The screenshot shows the USDA NRC's PLANTS Database website. The page title is "Alternative Crops". The main heading is "Alternative Crops" with a sub-heading "Select crops that may be suitable for small scale farming by limited-resource farmers and small landowners. You will be provided with Web links to cultural requirements and marketing strategies for the crops and states you choose."

Below the heading, there are two sections for user input:

Choose a crop type or types, or leave blank for all types.

<input type="checkbox"/> Biomass	<input type="checkbox"/> Grain	<input type="checkbox"/> Ornamental	<input type="checkbox"/> Other
<input type="checkbox"/> Fiber	<input type="checkbox"/> Herb	<input type="checkbox"/> Seed Production	<input type="checkbox"/> Root
<input type="checkbox"/> Forage	<input type="checkbox"/> Nut	<input type="checkbox"/> Timber	
<input type="checkbox"/> Fruit	<input type="checkbox"/> Oil	<input checked="" type="checkbox"/> Vegetable	

Choose a state or states, or leave blank for all states. If your state is not represented you may want to choose a neighboring state or states with similar soils and climates.

<input type="checkbox"/> Alabama	<input type="checkbox"/> Hawaii	<input type="checkbox"/> Nebraska	<input type="checkbox"/> Puerto Rico
<input type="checkbox"/> Alaska	<input type="checkbox"/> Idaho	<input type="checkbox"/> New Jersey	<input type="checkbox"/> South Carolina
<input type="checkbox"/> American Samoa	<input type="checkbox"/> Illinois	<input type="checkbox"/> New Mexico	<input type="checkbox"/> South Dakota
<input type="checkbox"/> Arizona	<input type="checkbox"/> Indiana	<input type="checkbox"/> North Carolina	<input type="checkbox"/> Texas
<input type="checkbox"/> Arkansas	<input type="checkbox"/> Iowa	<input type="checkbox"/> North Dakota	<input type="checkbox"/> U.S. Minor Outlying Islands
<input type="checkbox"/> California	<input type="checkbox"/> Kansas	<input type="checkbox"/> Northern Mariana	<input type="checkbox"/> Utah

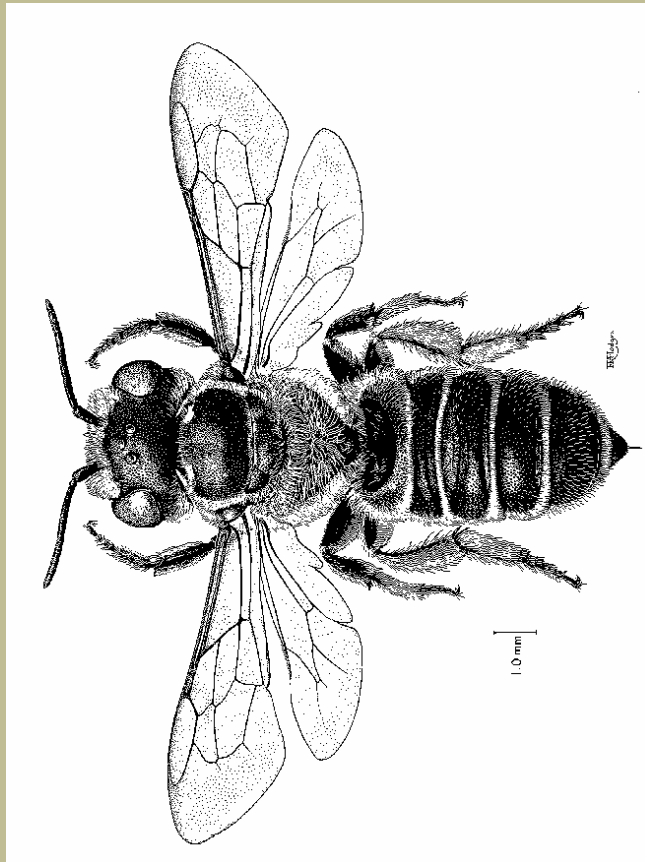
Alternative Crops

PLANTS: Related Applications

- VegSpec
 - Web-based tool for selecting conservation plants
- Crop Nutrient Tool
 - Augments Agricultural Waste Management Field Handbook
- Ecological Site Information System



Pollinator Conservation Module



- Improve crop productivity
- Increase declining pollinator populations
- Ex.-Select buffer species that support specific crop pollinators
- Supports North American Pollinator Protection Campaign
- Data development underway 2004-2008
 - NPDC, ARS, University of Maryland, San Francisco State University, Xerces Society, et al.
- Initial module scheduled on-line in 2008

National Plant Data Center Web Site

■ <http://npdc.usda.gov>

- State Coordinators
 - Update state common names and GSAT plant list
- Publications
 - PLANTS Posters
- Contributing Data
 - Plant Fact Sheets
- Presentations and Tutorials Available

The screenshot shows the homepage of the National Plant Data Center (NPDC) website. The header features the United States Department of Agriculture logo, the NRCS (Natural Resources Conservation Service) logo, and the NPDC name. A navigation menu includes links for NPDC Home, About Us, News, Technical Resources, Partnerships, Contributing Data, State Coordinators, Publications, and Contact Us. The main content area is divided into several sections: a search bar, a 'Quick Access' sidebar with links to various resources like NewsNotes, Name Search, State Search, Images, Invasives, Threatened & Endangered Plants, Fact Sheets, Culturally Significant Plants, Wetland Indicators, Site Map, Employee Directory, Submitting Images, Submitting Occurrences, Earth Team Volunteers, and Employment; a 'Welcome' message; a 'What's New' section featuring a 'Traditional Ecological Knowledge (TEK) Technical Note Released' article; an 'Ongoing Projects' section featuring 'The PLANTS Database'; and an 'NPDC Product Catalog' section. A right-hand sidebar titled 'Information For:' lists user groups such as Agronomists, Botanists, Invasive Species Specialists, Public, Resource Managers, Restoration Ecologists, Small Farmers, and Students.

NPDC Web Site

State PLANTS Coordinators

■ List of all State PLANTS Coordinators

United States Department of Agriculture
NRCS Natural Resources Conservation Service
National Plant Data Center

NPDC Home | About Us | News | Technical Resources | Partnerships | Contributing Data | **State Coordinators** | Publications | Contact Us

Search
NPDC
Enter Keywords **GO**

State Plants Coordinators
▶ State PLANTS Coordinators Contact List

▶ Find a Service Center
▶ States and Regions
▶ Centers and Institutes

State PLANTS Coordinators

State	Name	Email	Position
AK	Calvin Steele	calvin.steele@ak.usda.gov	Range Management Specialist
AL	Bill Hughes	bill.hughes@al.usda.gov	State Resource Conservationist
AR	Helen Denniston	helen.denniston@ar.usda.gov	State Agronomist
AZ	Bruce Munda	bruce.munda@az.usda.gov	Plant Resource Specialist
CA	Kit Paris	kit.paris@ca.usda.gov	Soil Data Quality Specialist
CO	Patrick Davey	Patrick.davey@co.usda.gov	Plant Materials Specialist
CT	Nels Barrett	nels.barrett@ct.usda.gov	State Biologist
DE	Sally Griffith-Kepfer	sally.kepfer@de.usda.gov	State Resource Conservationist
FL	Mimi Williams	mimi.williams@fl.usda.gov	Plant Materials Specialist
GA	Don Surrency	don.surrency@ga.usda.gov	Plant Materials Specialist
GS	Bart Lawrence	john.lawrence@pb.usda.gov	State Resource Conservationist
HI	Robert Joy	robert.j.joy@hi.usda.gov	Plant Materials Specialist

Selected External Customers

- USDA FS Natural Resources Information System
- USDA APHIS Risk Assessment
- Integrated Taxonomic Information System
- Global Biodiversity Information Facility Portal
- UNEP World Conservation Monitoring Centre
- Official National List of Wetland Plants
- FICMNEW Early Warning-Rapid Response Plan
- Catalogue of Life Annual Checklist
- Weed Science Society of America



Web
Services



Visit the PLANTS Web site

- USDA NRCS
National Plant Data Center
Baton Rouge
Louisiana, USA

- <http://plants.usda.gov>
- <http://npdc.usda.gov>