



- Dynamic information system meeting NRCS field office, customer, & cooperator plant information needs
- National standard for natural resource information automation



PLANTS Web Site



■ <http://plants.usda.gov>

- 12,000,000+ hits per month
 - NOW increased 130% in the past year
- focuses on U.S. and its territories
- directly accessible to traditional & non-traditional clients, cooperators, and the public

PLANTS Includes

- Names & checklists
- Plant guides
- Images & links
- How to grow & manage plants
- Alternative crops
- Crop nutrient tool
- Culturally significant plants



Plant Profile: Access to---

The screenshot shows a web browser window displaying the PLANTS database website. The page title is "PLANTS - Topics - Microsoft Internet Explorer". The website header includes the USDA logo and "PLANTS Database". A search bar contains the text "IRPS". The main content area features a "PLANTS Profile" for *Iris pseudacorus* L., also known as "paleyellow iris". The profile includes a photograph of the plant and a table of characteristics:

| | |
|---------------|------------|
| Symbol: | IRPS |
| Group: | Monocot |
| Family: | Iridaceae |
| Growth Habit: | Forb/herb |
| Duration: | Perennial |
| U.S. Native: | Introduced |

Below the table, there is a "Printer-Friendly Version" link and a "Plant Photographs" section with a link to "View all Iris thumbnails at the PLANTS Gallery". A "More Information About paleyellow iris" section is also visible.

- 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

Other Species Accounts and Images

Other Species Accounts and Images

Taraxacum officinale G.H. Weber ex Wiggers

View **species account** from CalFlora, or **photographs** from CalPhotos.

View **species account** from USDA Forest Service Fire Effects Information System (FEIS).

View **species account** or **photographs** from USF Atlas of Florida Vascular Plants.

View **species account** from ARS Germplasm Resources Information Network (GRIN).

View **taxonomic account** from Integrated Taxonomic Information System (ITIS) for ITIS
Taxonomic Serial Number 36213.

View **species account** or **photographs** from Wisconsin Vascular Plants at UWM.

- “One-click” access to other key sites

Related Web Sites



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

General 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

Plant Characteristics

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

The screenshot shows a web browser window displaying the 'PLANTS Characteristics' website. The page title is 'Conservation Plant Characteristics for: American basswood'. The scientific name is *Tilia americana* L. var. *heterophylla* (Vent.) Loud. The page lists various characteristics and their values for this species.

| Summary | | | |
|----------------------------------|-------------------|------------------------------------|-------------|
| Grass Habit | Tree | Federal TE Status | |
| Duration | Perennial | National Wetland Indicator | |
| U.S. Native | Native | | |
| Morphology/Physiology | | | |
| Active Growth Period | Spring and Summer | Fruit/Seed Color | Brown |
| After Harvest Regrowth Rate | | Fruit/Seed Compaction | No |
| Arthropod | No | Growth Form | Single Stem |
| Bird | None | Growth Rate | Moderate |
| C/N Ratio | High | Height at 20 Years, Maximum | 50 |
| Creepers/Proliferal | No | Height, Mature (m) | 30 |
| Fall Compaction | No | Leaf Persistence | No |
| Fire Resistant | No | Lifespan | Long |
| Flower Color | Yellow | Low Growing Grass | No |
| Flower Compaction | No | Allelopathy Potential | None |
| Foliage Color | Green | Reproduction Ability | Yes |
| Foliage Persistence Summer | Moderate | Shape and Orientation | Erect |
| Foliage Persistence Winter | Perous | Toxicity | None |
| Foliage Texture | Medium | | |
| Growth Requirements | | | |
| Adapted to Coarse Textured Soils | No | Residue Use | High |
| Adapted to Fine Textured Soils | No | pH, Minimum | 5.0999981 |
| Adapted to Medium Textured Soils | Yes | pH, Maximum | 7.1999981 |
| Aerobic Tolerance | None | Planting Density per Acre, Minimum | 308 |
| CaCO3 Tolerance | Low | Planting Density per Acre, Maximum | 308 |
| Cold Stratification Required | Yes | Precipitation, Minimum | 25 |
| Drought Tolerance | Low | Precipitation, Maximum | 85 |
| Fertility Requirement | High | Root Depth, Minimum (cm) | 40 |
| Fire Tolerance | Low | Salinity Tolerance | None |
| Frost Free Plant, Minimum | 100 | Soil Tolerance | Tolerant |

Advanced Query

PLANTS - Topics - Microsoft Internet Explorer

PLANTS Advanced

Query the PLANTS database and display the results.

Specify your query criteria below. Later you can review your choices and choose to sort your report, and after displaying the data you can download it. Or click the second link below to download without displaying any information.

Contents

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

Part A: PLANTS Core Data

1. Distribution

US Plants in Workbooks include: Any Plants Display in Report

State Distribution include: Any State Display in Report

County Distribution (Select a maximum of 10) include: Any County Display in Report

2. Taxonomy

Category include: Any Category Display in Report

Species include: Display in Report

Scientific Name include: Display by default

- Complete access to the data
- Search 43,000 plants on basic attributes
- 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

Plant Materials Information



- PLANTS/PM Integration
 - PM Web site
 - 500+ Fact sheets/guides
 - 900+ propagation protocols linked through **Native Plants Network**
 - Search engine on PM publications

Culturally Significant Plant Guides

Assisting Native American clients

Cultural Uses

Description

Adaptation

Establishment

Management

Sources

References



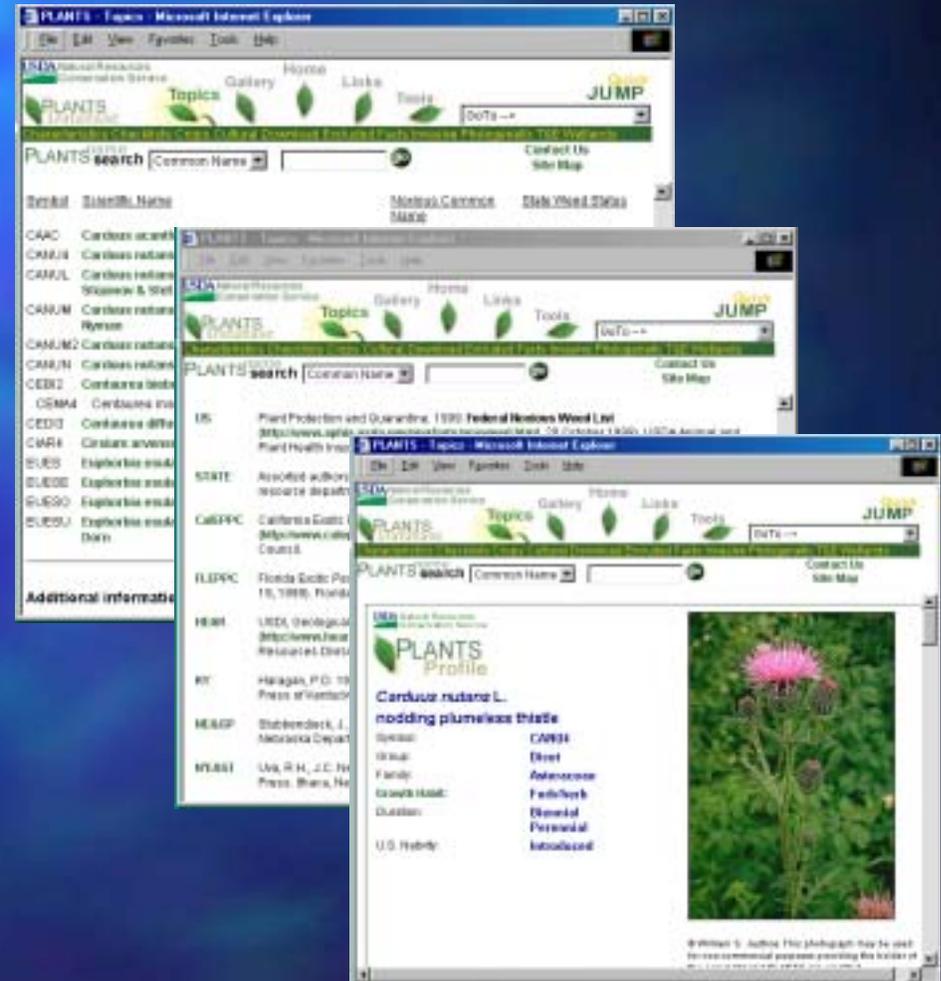
from CalPhotos



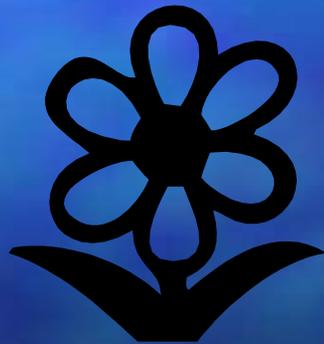
Ethnobotany Office Location:
Department of Environmental
Horticulture
University of California
Davis, California

Weeds Module

- 1400+ plants
- Federal noxious weeds
- State noxious weeds
 - linked to state legislation
- Plants known to have invasive characteristics
 - linked to 12 publications
- Plants introduced into US
- Links to **Plant Profile** for access to additional data



Alternative Crops



- 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

PLANTS: Related Applications

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



A Global Plant Information Leader



- USDA, NRCS
National Plant Data Center
Southern University
Baton Rouge
Louisiana, USA
- <http://npdc.usda.gov>
- <http://plants.usda.gov>