

## **Texas Wildflowers**

B Division

**DESCRIPTION:** Students will be asked questions about Texas wildflowers listed on the 2012 Taxa List pertaining to common name, family, genus, species, blooming period, distribution in Texas, whether they are native or non-native, protected status in Texas, and if they have medicinal, food or other historical uses.

**EVENT PARAMETERS:** No resources will be allowed in the testing room. A copy of the 2012 Taxa List will be provided for each team.

**TEAM OF UP TO:** 2

**APPROXIMATE TIME:** 50 minutes

### **THE COMPETITION:**

1. The event will be run as stations with several questions at each station, using names, photos, live or preserved specimens or drawings of selected wildflowers (see attached 2012 Taxa List).
2. Using the 2012 Taxa List, students will be expected to
  - a. identify wildflowers by common name and recognize family, genus and species. Ultimate taxonomic source is *Vascular Plants of Texas, Jones, et al, 1<sup>st</sup> edition, 1997. ISBN 0-292-74044-1. University of Texas Press.*
  - b. identify photos, live or preserved specimens or drawings of selected Texas wildflowers.
  - c. identify general distribution ranges (in Texas) of selected wildflowers .
  - d. identify the wildflower as native to Texas or non-native. If it is non-native, students will be expected to know it's method of introduction to Texas.
  - e. identify medicinal, food or other uses of wildflowers on the 2012 Taxa List..
  - f. identify those wildflowers on the 2012 Taxa List that are threatened or endangered in Texas, when they were declared threatened or endangered their distribution range, why their populations are declining and the rules covering the collection of protected wildflowers.
3. The wildflower's protected status will be according to the Texas Parks and Wildlife Department.

### **SCORING:**

1. The test will be a multiple choice test with answers recorded on scantrons.
2. There will be 50 questions with 2, 3, 4 or 5 possible answer choices.
3. The highest number of points will determine the winner.
4. Specific questions will be imbedded and annotated within the test that will be used in the case of a tie.

### **SAMPLE PROBLEMS:**

1. Identify this wildflower by common name. (A picture of the flower or a specimen will be available.)
  - a. Black-Eyed Susan
  - b. Meadowpink
  - c. Texas Star
  - d. Queen Anne's Lace
  - e. Horsemint
2. What is the complete scientific name of plant A? (A picture of the flower or a specimen will be available.)
  - a. *Zizania texana*
  - b. *Spiranthes parksii*
  - c. *Astrophytum asterias*
  - d. *Echinocerus davisii*
  - e. *Spiranthes cernua*
3. In what year was this wildflower listed as threatened in Texas? (A picture of the flower or a specimen will be available.)
  - a. 1968
  - b. 1970
  - c. 1972
  - d. 1974
  - e. 1976
4. These plants all belong to the same family. Identify it. (A picture of the flower or a specimen will be available.)
  - a. Asteraceae
  - b. Fabaceae
  - c. Lamiaceae
  - d. Olegraceae
  - e. Plantagenaceae

**RESOURCES:** The following websites **and their links** contain material that may be useful to event supervisors, coaches, and competitors:

[www.tpwd.state.tx.us/](http://www.tpwd.state.tx.us/)  
<http://www.texasinvasives.org>  
[http://www.texasep.org/html/wld/wld\\_3pna\\_ext.html](http://www.texasep.org/html/wld/wld_3pna_ext.html)  
<http://plants.usda.gov>  
[www.wikipedia.org](http://www.wikipedia.org)

### **SUGGESTED FIELD GUIDES:**

Wildflowers of Texas, ISBN 0-94062-15-4

A field guide, Texas Wildflowers, ISBN 0-292-78060-5

A field guide to Wildflowers, Trees & Shrubs of Texas, ISBN 0-87719-358-4

A field guide to Southwestern and Texas Wildflowers, ISBN 0-395-36640-2

Roadside Flowers of Texas, ISBN 0-292-77009-X

## 2012 Texas Wildflower Taxa List

- Nomenclature is according to *Vascular Plants of Texas*, Jones, et al, 1<sup>st</sup> edition, 1997. ISBN 0-292-74044-1. University of Texas Press.
- Common names inherently vary by source. Listed in this document are the accepted common names for this competition.

### Family

- **Apiaceae**
  - *Daucus carota* Queen Anne's Lace
- **Asclepiadaceae**
  - *Asclepias asperula* Antelope Horns
  - *Asclepias viridis* Green Milkweed
- **Asteraceae**
  - *Gaillardia pulchella* Indian Blanket
  - *Cirsium texanum* Texas Thistle
  - *Achillea millefolium* Yarrow
  - *Baileya multiradiata* Desert Marigold
  - *Coreopsis tinctoria* Plains Coreopsis
  - *Dracopis amplexicaulis* Coneflower
  - *Helianthus annuus* Common Sunflower
  - *Ratibida columnifera* Mexican Hat
  - *Rudbeckia hirta* Black-eyed Susan
  - *Taraxacum officinale* Common Dandelion
  - *Echinacea sanguinea* Purple Coneflower
- **Brassicaceae**
  - *Dimorphocarpa wislizenii* Spectacle Pod
- **Commelinaceae**
  - *Commelina erecta* Dayflower
- **Convolvulaceae**
  - *Convolvulus arvensis* Bindweed
  - *Convolvulus equitans* Texas Bindweed
- **Cucurbitaceae**
  - *Cucurbita foetidissima* Buffalo Gourd
- **Fabaceae**
  - *Astragalus leptocarpus* Milk Vetch
  - *Lupinus texensis* Bluebonnet
  - *Melilotus albus* White Sweet Clover
  - *Melilotus indicus* Yellow Sweet Clover

- **Gentianaceae**
  - *Eustoma russellianum*      **Blue-bell**
  - *Sabatia campestris*      **Meadow-pink**
- **Lamiaceae**
  - *Monarda citriodora*      **Purple Horsemint**
  - *Monarda punctata*      **White Horsemint**
- **Liliaceae**
  - *Allium canadense*      **Wild Onion**
- **Magnoliaceae**
  - *Magnolia grandiflora*      **Magnolia**
- **Malvaceae**
  - *Callirhoë involucrata*      **Wine Cup**
- **Onagraceae**
  - *Oenothera speciosa*      **Buttercup**
- **Papaveraceae**
  - *Argemone albiflora*      **White Prickly Poppy**
- **Passifloraceae**
  - *Passiflora incarnata*      **Passion Flower**
- **Ranunculaceae**
  - *Delphinium carolinianum*      **Larkspur**
- **Schrophulariaceae**
  - *Castilleja indivisa*      **Indian Paintbrush**
- **Solanaceae**
  - *Quincula lobata*      **Purple Ground Cherry**
  - *Solanum elaeagnifolium*      **Silver-leaf Nightshade**
  - *Solanum rostratum*      **Buffalo Burr**
- **Verbenaceae**
  - *Verbena halei*      **Texas Vervain**
  - *Glandularia bipinnatifida*      **Dakota Vervain**
  - *Pyla nodiflora*      **Texas Frog Fruit**
- **Violaceae**
  - *Viola bicolor*      **Wild Pansy**
- **Zygophillaceae**
  - *Tribulus terrestris*      **Goat-head**