

# NURSERY/LANDSCAPE

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## •3 or 4 Member Team•

### I. PURPOSE

The purpose of this contest is to encourage FFA members to explore the diversity of the “Green Industry”, in terms of plant materials used, basic knowledge, skills and applications to the work place. This is an important facet to agriculture in Texas. The event requires student to identify plant materials and tools common to the industry, demonstrate knowledge and understanding of scientific principles and management practices applied in the industry via a written exam and make observations, draw conclusions and make decisions in six placing classes. The event has ties to the following agricultural science curriculum: AgSc 161, Introductory Horticulture; AgSc 261, Introduction to Horticulture; AgSc 361, Landscape Design, Construction and Maintenance; AgSc 362, Horticultural Plant Production; AgSc 364, Fruit, Nut and Vegetable Production and AgBu 461/462, Horticulture-Agricultural Industry.

### II. EVENT FORMAT

#### A. Team Make-up

Three or four individuals per school form a team. All members will be scored and the top three scores will count towards the team total.

#### B. Equipment

1. Team members must furnish their own pens or sharpened pencils for the event. A pencil sharpener may not be available in each event room.
2. Battery operated unprogramable calculators may be used and must be furnished by the team member. Sharing of calculators between team members will not be permitted.
3. No allowance will be made for malfunctioning or inoperable calculators. Electrical outlets will not be available for charging batteries, etc.
4. The “horticulture” scan sheet will be used for this CDE.

#### C. Event Schedule

1. Each contestant shall complete the event in the time allotted:
  - a. Identification of plant materials must be completed in 50 minutes.
  - b. Placing classes must be completed in 35 minutes.
  - c. The examination must be completed in 30 minutes.
2. Observers are not permitted in the event area while the event is in progress, but may be allowed in the area following the event.
3. Contest materials will be left in place for two hours following the conclusion of the event to allow teachers and students adequate time for review.

#### D. Identification of Plant Materials (500 points)

1. Fifty (50) specimens from the 100 plants listed on the Texas Nursery/Landscape Plant List are displayed for students to identify by scientific and common names.
2. A specimen may consist of any part of the plant.
3. Each plant specimen is designated with a number. Students bubble in the

appropriate number in the space next to the specimen's name on the official scorecard.

4. Ten (10) points are given for each correctly identified plant specimen.
5. Contestants will be given 60 seconds per station.
6. Under no circumstances is any student allowed to touch or handle the plant materials used as part of the event. Any infraction of this policy is sufficient cause to eliminate the team from the event.

**E. Placing Classes (300 points)**

1. 6 classes are selected from the Placing Classes List.
2. All plants in a class are the same species or cultivar and there will be four (4) items per placing class.
3. Some classes may be bare root; others may be balled-and-burlapped or container grown.
4. Placing classes will consist of the following:
  - 1 class of annual or herbaceous plants
  - 1 class of deciduous trees
  - 1 class of evergreen trees
  - 1 class of shrubs
  - 1 class of groundcovers and vines
  - 1 class of landscape drawings with site analysis
5. Classes are designated by number and name.
6. Contestants will be given 5 minutes to judge each class, except for the class of landscape drawings with site analysis. Participants will have 10 minutes to judge this class.
7. 50 points per class.

**F. General Knowledge Examination (100 points)**

1. Contestants will complete a 50 multiple choice question exam. Questions will be taken from databank of questions located on the IMS website <[www-ims.tamu.edu](http://www-ims.tamu.edu)> (Additional 100 questions to Test Bank, from National FFA test).
2. Contestants will be given 30 minutes to complete the exam.
3. Two (2) points will be awarded per question

**III. SCORING**

Plant Identification.....	500
Placing Classes.....	300
Exam.....	100
<b><u>Total Points Possible</u></b>	
<b>Individual.....</b>	<b>900</b>
<b>Team.....</b>	<b>2,700</b>

**IV. TIEBREAKER**

- A. Ties for team awards will be broken as follows:
1. The team with the highest score in the identification section wins. If still tied;
  2. The team with the highest score in the placing class of landscape designs wins. If still tied;

3. The team with the highest score on the examination wins. If still tied;
  4. Advisors will match for the high award.
- B. Ties for individual awards shall be broken by substituting the word "individual" wherever the word "team" appears above.

## IV. REFERENCES

### Materials Available from IMS:

#### Printed Materials

- Plants of the Metroplex III (reference book)
- Plants for Texas (reference book)
- 8926 Complete Set AgSc 361 – Landscape Design, Construction, and Maintenance, IMS
- 8942 Complete Set AgSc 362 – Horticultural Plant Production, IMS

#### Color Slides

- 5327 Nursery Plant Identification, TAMU, IMS
- 5353 1995 State FFA Horticulture CDE - Plant Identification, TAMU, IMS
- 5354 1995 State FFA Horticulture CDE - Placing Classes, TAMU, IMS
- 5355 1999 State FFA Horticulture CDE - Plant Identification, TAMU, IMS
- 5356 1999 State FFA Horticulture CDE - Placing Classes, TAMU, IMS

#### VHS Videos

- 9753 Landscape Design I: Introduction to Landscape Design
- 9754 Landscape Design II: Landscape Design Process
- 9839 Landscape Plant Identification – Ground Covers and Shrubs, CEV Landscape Plant Identification – Trees, CEV
- 9843 Practice Landscape Plant Identification, CEV

#### Computer Software

- 9421NC Horticipia A to Z (CD-ROM)

### Other References (Not Available through IMS):

Arnold, Michael A. *Landscape Plants for Texas and Environs*. (1999). Stipes Publishing L.L.C., 204 W. University Avenue, P.O. Box 526, Champaign, IL 61824-0526. (217) 356-8391. <[www.stipes.com/horticulture.html](http://www.stipes.com/horticulture.html)>

Sperry, Neil. *Neil Sperry's Complete Guide to Texas Gardening*. (1991). Taylor Publishing Company, 1550 West Mockingbird Lane, Dallas, Texas. 75235. <[www.neilsperry.com](http://www.neilsperry.com)>

*American Standard for Nursery Stock*. (1997). American Nursery & Landscape Association. 1250 I Street, N.W., Suite 500, Washington, DC 20005. <[www.anla.org](http://www.anla.org)> (202) 789-2900.

### Websites:

Aggie Horticulture Picture Pages <http://aggie-horticulture.tamu.edu/picturepages/tamuhort.html>

## V. NURSERY/LANDSCAPE PLACING CLASSES

1. One class of annual or herbaceous plants, which may include:

*Caladium x hortulanum* cv. – caladium  
*Coleus x hybridus* – coleus  
*Hemerocallis* spp. – daylily  
*Impatiens wallerana* – impatiens  
*Petunia x hybrida* – petunia  
*Viola x wittrockiana* cv. – pansy  
*Zinnia elegans* – zinnia

2. One class of deciduous trees, which may include:

*Betula nigra* – river birch  
*Cercis canadensis* – Eastern redbud  
*Lagerstroemia indica* cv. – crape myrtle  
*Liquidambar styraciflua* – sweet gum  
*Pyrus calleryana* 'Bradford' – Bradford pear  
*Quercus shumardii* – Shumard red oak  
*Taxodium distichum* – bald cypress

3. One class of evergreen trees, which may include:

*Ilex vomitoria* – yaupon  
*Magnolia grandiflora* – Southern magnolia  
*Pinus thunbergiana* – Japanese black pine  
*Quercus virginiana* – live oak  
*Thuja occidentalis* – American arborvitae

4. One class of shrubs, which may include:

*Abelia x grandiflora* – glossy abelia  
*Euonymus japonica* cv. – Japanese euonymus  
*Gardenia jasminoides* – gardenia  
*Ilex cornuta* – Chinese holly  
*Nandina domestica* – heavenly bamboo  
*Pittosporum tobira* – pittosporum  
*Raphiolepis indica* cv. – Indian hawthorn

5. One class of groundcovers and vines, which may include:

*Hedera helix* cv. – English ivy  
*Juniperus horizontalis* – creeping juniper  
*Liriope muscari* – liriope  
*Lonicera japonica* – Japanese honeysuckle  
*Trachelospermum asiaticum* – Asiatic jasmine  
*Vinca minor* – periwinkle

6. One class of landscape drawings with site analysis:

(Plants used in the designs are selected from the Texas Nursery/Landscape Plant List.)

## VI. TEXAS NURSERY/LANDSCAPE PLANT LIST

1. *Abelia x grandiflora* – Glossy Abelia
2. *Acalypha wilkesiana* – Copper Plant, Copperleaf
3. *Ajuga reptans* – Carpet Bugleweed
4. *Antirrhinum majus* cv. – Snapdragon
5. *Aquilegia x hybrida* cv. – Columbine
6. *Aucuba japonica* 'Variegata' – Gold Dust Aucuba
7. *Betula nigra* – River Birch
8. *Bougainvillea spectabilis* – Bougainvillea, Paper Flower
9. *Buxus microphylla* – Common Boxwood
10. *Caladium x hortulanum* cv. – Fancy Leaved Caladium
11. *Camellia japonica* – Japanese Camellia
12. *Campsis radicans* – Trumpet Vine
13. *Canna x generalis* – Canna Lily
14. *Carya illinoensis* – Pecan
15. *Cercis canadensis* – Eastern Redbud
16. *Chrysanthemum x morifolium* cv. – Chrysanthemum
17. *Clematis* sp. – Clematis
18. *Coleus x hybridus* – Coleus
19. *Colocasia esculenta* – Elephant Ear
20. *Cortaderia selloana* – Pampas Grass
21. *Cuphea hyssopifolia* – Mexican Heather
22. *Cycas revoluta* – Sago Palm
23. *Cynodon dactylon* spp. – Bermuda grass
24. *Dianthus chinensis* cv. – Dianthus, Chinese Pinks
25. *Elaeagnus pungens* – Pungent Elaeagnus, Silverthorn
26. *Eriobotrya japonica* – Loquat
27. *Euonymus japonica* cv. – Japanese Euonymus
28. *Evolvulus glomeratus* – Blue Daze
29. *Festuca* spp. cv. – Fescue
30. *Forsythia x intermedia* – Forsythia
31. *Gardenia jasminoides* – Gardenia
32. *Gazania splendens* – Gazania
33. *Ginkgo biloba* – Ginkgo, Maidenhair Tree
34. *Gladiolus x hortulanus* cv. – Gladiolus
35. *Hedera helix* cv. – English Ivy
36. *Hemerocallis* spp. – Daylily
37. *Hesperaloe parvifolia* – Red Yucca
38. *Hibiscus rosa-sinensis* – Chinese Hibiscus
39. *Hibiscus syriacus* – Althaea, Rose of Sharon
40. *Hosta* spp. – Hosta, Plantain Lily
41. *Hyacinthus orientalis* cv. – Hyacinth
42. *Hydrangea macrophylla* – Hydrangea
43. *Ilex cornuta* – Chinese Holly
44. *Ilex vomitoria* – Yaupon Holly
45. *Impatiens walleriana* – Impatiens
46. *Iris x germanica* – German Bearded Iris
47. *Juniperus horizontalis* cv. – Creeping Juniper
48. *Lagerstroemia indica* cv. – Crape Myrtle
49. *Lantana camara* cv. – Lantana
50. *Leucophyllum frutescens* cv. – Texas Sage
51. *Liatris spicata* – Liatris
52. *Ligustrum japonicum* – Waxleaf Ligustrum, Japanese Privet
53. *Liquidambar styraciflua* – Sweet Gum

54. *Liriope muscari* – Liriope, Lilyturf
55. *Lobularia maritima* – Sweet Alyssum
56. *Lonicera japonica* – Japanese Honeysuckle
57. *Lupinus texensis* – Texas Bluebonnet
58. *Magnolia grandiflora* – Southern Magnolia
59. *Mahonia aquifolium* cv. – Oregon Grape
60. *Mandevilla splendens* – Mandevilla
61. *Nandina domestica* – Heavenly Bamboo
62. *Nerium oleander* – Oleander
63. *Ophiopogon japonicus* – Mondo Grass
64. *Parthenocissus quinquefolia* – Virginia Creeper
65. *Pennisetum setaceum* 'Rubrum' – Purple Fountain Grass
66. *Petunia x hybrida* – Petunia
67. *Photinia x fraseri* – Redtip Photinia
68. *Pinus thunbergiana* – Japanese Black Pine
69. *Pittosporum tobira* cv. – Pittosporum, Mock Orange
70. *Platanus occidentalis* – Sycamore
71. *Plumbago auriculata* – Plumbago
72. *Portulaca grandiflora* – Portulaca, Moss Rose
73. *Prosopis glandulosa* – Mesquite
74. *Prunus cerasifera* – Purpleleaf Plum
75. *Pyracantha coccinea* cv. – Firethorn
76. *Pyrus calleryana* 'Bradford' – Bradford Pear
77. *Quercus macrocarpa* – Bur Oak
78. *Quercus shumardii* – Shumard Red Oak
79. *Quercus virginiana* – Live Oak
80. *Raphiolepis indica* cv. – Indian Hawthorn
81. *Rhododendron* cv. – Azalea
82. *Rosmarinus officinalis* – Rosemary
83. *Salvia officinalis* – Sage
84. *Salvia splendens* – Salvia
85. *Sapium sebiferum* – Chinese Tallow
86. *Sedum spectabile* – Fall Sedum
87. *Senecio cineraria* – Dusty Miller
88. *Sophora secundiflora* – Texas Mountain Laurel
89. *Stachys byzantina* – Lamb's Ear
90. *Stenotaphrum secundatum* – St. Augustine Grass
91. *Tagetes* sp. – Marigold
92. *Taxodium distichum* – Bald Cypress
93. *Taxus cuspidata* – Japanese Yew
94. *Thuja occidentalis* – American Arborvitae
95. *Trachelospermum asiaticum* – Asiatic Jasmine
96. *Ulmus crassifolia* – Cedar Elm
97. *Vinca minor* cv. – Periwinkle
98. *Viola x wittrockiana* cv. – Pansy
99. *Wisteria sinensis* cv. – Chinese Wisteria
100. *Zinnia elegans* – Zinnia