

FLORICULTURE

FFA CAREER DEVELOPMENT EVENT

Sponsored by: Division of Agricultural Sciences and Natural Resources
Resources provided by: The Department of Horticulture and Landscape Architecture
Oklahoma State University

Contest Superintendent

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Contest Details

Due to the cost of live materials and the setup time for online testing pre-registration by 8 AM Wednesday, April 14, is required to participate in this event. See FFA Floriculture CDE website (http://www.okstate.edu/ag/asnr/hortla/needham/extension/ffa/ffa_cde.html) for online pre-registration. The FFA instructor will need to indicate at pre-registration which practicum activity has been selected for each of his/her contestants.)

- **Date:** Saturday, April 24, 2010
- **Time:** 8:00 AM
- **Location:** Room 207, Noble Research Center, OSU

NEW CDE RULE: Students with cell phones or PDAs during the competition WILL be disqualified.

Contest Purpose, Objectives, Rules, and Guidelines

Floriculture includes the production and merchandising of cut flowers and flowering and foliage potted plants, including their growth and maintenance in the indoor and outdoor environments. Be sure to visit the FFA Floriculture CDE website (http://www.okstate.edu/ag/asnr/hortla/needham/extension/ffa/ffa_cde.html) for additional information, including sample exams, photos for identification, and numerous resources. Always consult OCES Fact Sheets, accessible from the web address above, for the most up-to-date cultural information.

- A school may enter only **one team, consisting of four members**, in this event. The score for a team will be calculated from **all four members' accrued points**.
- A school **without a team** may enter **up to two individuals** to compete for individual awards.

Only those students who are competing will be allowed to participate in this event. No tools or supplies may be brought to the event, except for pencils and pens; all other necessary equipment, including clipboards, will be supplied.

This event will consist of four parts:

All Contestants, whether participating as a team member or individual, will participate in all of the following three event components:

- I. **Identification of Plant Materials (200 points)** — Each contestant will be required to identify 40 specimens (5 points each) from the “Oklahoma State Floriculture FFA-CDE Plant Identification Card.” Contestants will receive the ID Card as shown on page 3, which lists all possible specimens. Contestants must place the ID number, representing the appropriate name, next to the number of the specimen being identified. Duplicate specimens may be used and may be represented by potted plants, cut flowers and/or a leaf or stem sample. Each participant will be allowed 20 minutes to complete this phase of the event.

II. **General Knowledge Examination (250 points)** — This portion of the event will consist of 50 questions, addressing content from Introduction to Horticulture—Second Edition, published by Oklahoma Department of Career and Technology Education. Each question is worth 5 points. Questions may be of the multiple choice, true-false, and/or matching format(s). Questions may or may not be written exactly as they are in the core curriculum. Although the exam will cover “general horticulture” knowledge, it will focus on floriculture knowledge. **The exam will be taken electronically, thus pre-registration is required.** Each participant will be allowed 50 minutes to complete this phase of the event.

III. **Problem-Solving/Decision-Making (200 points)** — Each participant will solve ten problems related to the various aspects of the floriculture industry. Each problem will describe the situation or create the problem, and provide at least four possible solutions to the problem. The participant must decide on the best possible solution to the problem. All materials necessary to solve the problem will be available to the participant as he/she solves the problem. This portion of the event may include judging specimens of cut flowers, flowering potted/basket plants, foliage potted/basket plants, and/or flats of flowering annuals and determining how the producer and/or retailer could have avoided creating the exhibited fault. Each participant will be allowed 30 minutes to complete this phase of the event.

Each Contestant, whether participating as a team member or individual, will participate in only one of the following practicum activities:

IV. Practicum (100 points) — In the case of teams, each team’s FFA instructor will have the responsibility to assign each of his/her team’s members to a different practicum activity. A contestant participating as an individual may choose only one of the practicum activities in which to participate. Only one of each team’s members or one individual per school will be permitted in a given practicum activity. Each practicum activity will consist of a hands-on task and/or up to 20 questions (5 points each) about the practicum activity.

Even Year (2006, 2008, 2010, ...) Practicum Activities:

1. Making a Continental Round Arrangement and Preparing an Itemized Bill
2. Making a Dish Garden and Preparing an Itemized Bill
3. Handling a Hazardous Situation
4. Media Selling: Use Microsoft Office Publisher to create a sales flyer.

Odd Year (2007, 2009, 2011, ...) Practicum Activities:

1. Propagating Plants Asexually
2. Potting Rooted Mum Cuttings (See “Pot Mum Cultural Tips” at <http://www.yoder.com>)
3. Making and Packaging a Corsage and Preparing an Itemized Bill
4. Identifying and Controlling Plant Disorders (See the “Oklahoma State Floriculture FFA-CDE Pests and Disorders Identification Card” on page 5.)

OKLAHOMA STATE FLORICULTURE FFA-CDE
PLANT IDENTIFICATION CARD
(2006 revision)

Contestant Name _____ Contestant Number _____

School _____ Advisor _____

Place the correct ID number from the list beside the proper specimen number.

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|---|--|---|
| <ol style="list-style-type: none"> 1. Ageratum / <i>Ageratum houstonianum</i> cvs. 2. Aluminum Plant / <i>Pilea cadierei</i> 3. Amaryllis / <i>Hippeastrum</i> cvs. 4. Anthurium (Flamingo Flower) / <i>Anthurium × ferrierense</i> cvs. 5. Arrowhead Vine / <i>Syngonium podophyllum</i> cvs. 6. Artillery Plant / <i>Pilea microphylla</i> 7. Astilbe / <i>Astilbe × arendsii</i> cvs. 8. Azalea / <i>Rhododendron</i> cvs. 9. Baby's Breath / <i>Gypsophila elegans</i> cvs. 10. Begonia, Rieger / <i>Begonia × hiemalis</i> 11. Begonia, Tuberous / <i>Begonia tuberhybrida</i> cvs. 12. Begonia, Wax / <i>Begonia semperflorens-cultorum</i> cvs. 13. Bird-of-Paradise / <i>Strelitzia reginae</i> 14. Blanket Flower / <i>Gaillardia × grandiflora</i> cvs. 15. Bromeliad / Genera of the Bromeliaceae 16. Cactus / Genera of the Cactaceae 17. Cactus, Christmas / <i>Schlumbergera × buckleyi</i> 18. Cactus, Easter / <i>Hatiora gaertneri</i> 19. Cactus, Thanksgiving / <i>Schlumbergera truncata</i> 20. Caladium, Fancy-Leaved / <i>Caladium bicolor</i> cvs. 21. Camellia / <i>Camellia japonica</i> cvs. 22. Canna, Common Garden / <i>Canna × generalis</i> cvs. 23. Carnation / <i>Dianthus caryophyllus</i> cvs. 24. China Aster / <i>Callistephus chinensis</i> cvs. 25. Chinese Evergreen / <i>Aglaonema commutatum</i> cvs. 26. Chrysanthemum, Florist's / <i>Chrysanthemum morifolium</i> cvs. 27. Cineraria, Florist's / <i>Pericallis × hybrida</i> 28. Clematis / <i>Clematis</i> cvs. 29. Cockscomb / <i>Celosia argentea</i> var. <i>cristata</i> 30. Coleus / <i>Solenostemon scutellarioides</i> 31. Corn Plant / <i>Dracaena fragrans</i> 'Massangeana' 32. Creeping Charley / <i>Pilea nummulariifolia</i> 33. Croton / <i>Codiaeum variegatum</i> var. <i>pictum</i> 34. Crown-of-Thorns / <i>Euphorbia mili</i> var. <i>splendens</i> 35. Cyclamen, Florist's / <i>Cyclamen persicum</i> 36. Daffodil / <i>Narcissus</i> cvs. 37. Daisy, Marguerite / <i>Argyranthemum frutescens</i> 38. Daisy, Shasta / <i>Leucanthemum × superbum</i> cvs. 39. Daisy, Transvaal or Barberton / <i>Gerbera jamesonii</i> cvs. 40. Daylily / <i>Hemerocallis</i> cvs. 41. Dracaena, Red-Edged / <i>Dracaena cincta</i> 42. Dumbcane / <i>Dieffenbachia</i> spp. 43. Dusty Miller / <i>Senecio cineraria</i> 44. Eucalyptus / <i>Eucalyptus</i> spp. 45. Fern, Boston / <i>Nephrolepis exaltata</i> cvs. 46. Fern, Leatherleaf / <i>Rumohra adiantiformis</i> 47. Fern, Maidenhair / <i>Adiantum</i> spp. 48. Fern, Ming / <i>Asparagus retrofractus</i> 49. Fern, Plumosa / <i>Asparagus setaceus</i> 50. Fern, Rabbit's Foot / <i>Davallia fejeensis</i> 51. Fern, Sprengerii / <i>Asparagus densiflorus</i> 'Sprengerii' (Sprengerii Group) 52. Fig, Benjamin / <i>Ficus benjamina</i> cvs. 53. Fig, Creeping / <i>Ficus pumila</i> 54. Firecracker Flower / <i>Crossandra infundibuliformis</i> 55. Freesia / <i>Freesia</i> cvs. 56. Friendship Plant / <i>Pilea involucrata</i> 57. Gardenia, Common (Cape Jessamine) / <i>Gardenia augusta</i> cvs. 58. Gayfeather / <i>Liatris spicata</i> 59. Geranium, Ivy / <i>Pelargonium peltatum</i> cvs. | <ol style="list-style-type: none"> 60. Geranium, Regal or Lady Washington / <i>Pelargonium × domesticum</i> 61. Geranium, Strawberry / <i>Saxifraga stolonifera</i> 62. Geranium, Zonal or Bedding / <i>Pelargonium × hortorum</i> cvs. 63. Gladiolus, Garden / <i>Gladiolus</i> cvs. 64. Gloxinia / <i>Sinningia speciosa</i> 65. Heath or Heather / <i>Erica</i> spp. 66. Hen and Chickens / <i>Sempervivum tectorum</i> 67. Huckleberry, Florist's / <i>Vaccinium ovatum</i> 68. Hyacinth / <i>Hyacinthus orientalis</i> cvs. 69. Hydrangea, French or Florist's / <i>Hydrangea macrophylla</i> cvs. 70. Impatiens, Common / <i>Impatiens walleriana</i> cvs. 71. Impatiens, New Guinea Hybrids / <i>Impatiens hawkeri</i> cvs. 72. Iris, Dutch / <i>Iris × hollandica</i> cvs. 73. Iris, Flag or Bearded / <i>Iris germanica</i> cvs. 74. Ivy, English / <i>Hedera helix</i> cvs. 75. Ivy, Grape / <i>Cissus rhombifolia</i> 76. Ivy, Swedish / <i>Plectranthus verticillatus</i> 77. Jade Plant / <i>Crassula ovata</i> 78. Jerusalem or Winter Cherry / <i>Solanum pseudocapsicum</i> cvs. 79. Kalanchoe / <i>Kalanchoe blossfeldiana</i> cvs. 80. Lily, Easter / <i>Lilium longiflorum</i> cvs. 81. Lily, Hybrid Garden / <i>Lilium</i> cvs. 82. Lily, Peace / <i>Spathiphyllum</i> cvs. 83. Lily, Peruvian / <i>Alstroemeria</i> cvs. 84. Lily, Plantain / <i>Hosta</i> cvs. 85. Marigold / <i>Tagetes</i> spp. 86. Million Bells / <i>Calibrachoa</i> cvs. 87. Nerve Plant / <i>Fittonia verschoffeltii</i> 88. Norfolk Island Pine / <i>Araucaria heterophylla</i> 89. Orchid, Cattleya / <i>Cattleya</i> cvs. 90. Orchid, Cymbidium / <i>Cymbidium</i> cvs. 91. Orchid, Dendrobium / <i>Dendrobium</i> cvs. 92. Orchid, Paphiopedilum or Lady-Slipper / <i>Paphiopedilum</i> cvs. 93. Orchid, Phalaenopsis or Moth / <i>Phalaenopsis</i> cvs. 94. Palm, Parlor / <i>Chamaedorea elegans</i> 95. Pansy, Garden / <i>Viola × wiltrockiana</i> cvs. 96. Peony / <i>Paeonia lactiflora</i> cvs. 97. Peperomia, Emerald-Ripple / <i>Peperomia caperata</i> 98. Peperomia, Pepper-Face / <i>Peperomia obtusifolia</i> cvs. 99. Peperomia, Watermelon / <i>Peperomia argyreia</i> 100. Periwinkle, Madagascar / <i>Catharanthus roseus</i> cvs. 101. Petunia, Common Garden / <i>Petunia × hybrida</i> cvs. 102. Philodendron, Cutleaf / <i>Monstera deliciosa</i> 103. Philodendron, Heartleaf / <i>Philodendron scandens</i> var. <i>oxycardium</i> 104. Pickaback Plant / <i>Tolmiea menziesii</i> 105. Pocketbook Plant / <i>Calceolaria</i> (Herbeo hybrida Group) 106. Poinsettia / <i>Euphorbia pulcherrima</i> cvs. 107. Pothos, Golden (Devil's Ivy) / <i>Epipremnum aureum</i> cvs. 108. Prayer Plant / <i>Maranta leuconeura</i> var. <i>kerchoviana</i> 109. Primrose (Polyanthus) / <i>Primula Pruhonicensis</i> Hybrids 110. Primrose, Cape / <i>Streptocarpus × hybridus</i> 111. Primrose, Fairy or Baby / <i>Primula malacoides</i> 112. Purple Velvet Plant / <i>Gynura aurantiaca</i> 'Purple Passion' 113. Rose / <i>Rosa</i> cvs. | <ol style="list-style-type: none"> 114. Rubber Plant / <i>Ficus elastica</i> cvs. 115. Sage, Mealycup / <i>Salvia farinacea</i> cvs. 116. Sage, Scarlet / <i>Salvia splendens</i> cvs. 117. Schefflera, Dwarf / <i>Schefflera arboricola</i> 118. Shrimp Plant / <i>Justicia brandegeana</i> 119. Snake Plant / <i>Sansevieria</i> cvs. 120. Snapdragon / <i>Anthirrhinum majus</i> cvs. 121. Spider Plant / <i>Chlorophytum comosum</i> cvs. 122. Statice / <i>Limonium sinuatum</i> 123. Stephanotis / <i>Stephanotis floribunda</i> 124. Stock, Flowering / <i>Matthiola incana</i> 125. Sweet Alyssum / <i>Lobularia maritima</i> cvs. 126. Tuberose / <i>Polianthes tuberosa</i> 127. Tulip / Tulipa cvs. 128. Violet, African / <i>Saintpaulia ionantha</i> cvs. 129. Violet, German or Persian / <i>Exacum affine</i> 130. Wandering Jew / <i>Tradescantia zebrina</i> cvs. 131. Wax Flower / <i>Chamelaucium uncinatum</i> 132. Wax Plant / <i>Hoya carnosa</i> 133. Wishbone Flower / <i>Torenia fournieri</i> 134. Zebra Plant / <i>Aphelandra squarrosa</i> 135. Zinnia / <i>Zinnia elegans</i> cvs. 136. Zinnia, Mexican / <i>Zinnia angustifolia</i> cvs. |
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OKLAHOMA STATE FLORICULTURE FFA-CDE

PESTS AND DISORDERS IDENTIFICATION CARD

(2002 revision)

Contestant Name _____ Contestant Number _____

School _____ Advisor _____

Diseases

200. Bacterial Wilt/Blight	201. Black Spot
202. Botrytis Blight	203. Damping-Off
204. Downey Mildew	205. Nematode
206. Powdery Mildew	207. Root Rot
208. Verticillium	209. Virus

Insects and Related Pests

210. Aphid	211. Caterpillar
212. Earwig	213. Fungus Gnat
214. Leafhopper	215. Leaf Miner
216. Mealybug	217. Mite
218. Scale Insect	219. Snail/Slug
220. Thrips	221. Whitefly

Physiological Problems

222. 2,4-D Injury	223. Cycocel Phytotoxicity
224. Ethylene Injury	225. Excessive Growth Regulator
226. Iron Deficiency	227. Nitrogen Deficiency
228. pH too high	229. pH too low
230. Phosphorus Deficiency	231. Potassium Deficiency
232. Sunscald/Solarization	

Weeds

233. Grasses	234. Oxalis
235. Pigweed	236. Purslane

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REFERENCES

- I. Be sure to visit OSU's Department of Horticulture and Landscape Architecture homepage at <http://www.hortla.okstate.edu> for additional FFA-CDE information, including sample exams and photos for identification!
- II. *Introduction to Horticulture—Second Edition*, Oklahoma Department of Career and Technology Education, Stillwater, Oklahoma.
- III. Mail order seed catalogs, such as Park Seed, are good sources of photos and product information. They can be obtained free of charge from most companies. Farm and garden magazines are full of addresses for these companies in the late winter of every year.
- IV. *Greenhouse Operation and Management*, Paul V. Nelson, Prentice Hall, Upper Saddle River, NJ 07458.
- V. Plant Science: Horticulture/Field Crops Exhibit Preparation Manual, OSU Cooperative Extension Service, Stillwater, Oklahoma 74078.
- VI. *A Manual for Flower Judging*, Pi Alpha Xi—the Honor Society for Horticulture, available from Dr. Terry Ferriss, Plant & Earth Sciences Department, University of Wisconsin, River Falls, WI 54022.
- VII. *Judging Horticultural Commodities* videotape, VT526, OSU Cooperative Extension Service, available for loan from County Extension Offices or for sale from OSU Agricultural Communications at (405) 744-3727.
- VIII. *Horticultural Crop Judging Manual*, No. 702, Oklahoma Cooperative Extension Service, Division of Agricultural Sciences and Natural Resources, Oklahoma State University.