Nursery Landscape CDE

Purpose

The Nursery Landscape Career Development Event stimulates career interest, encourages proficiency development, and recognizes excellence in nursery practices and landscaping through the agricultural education curriculum. The event includes all aspects of the industry in producing, marketing, utilizing, and maintaining landscape plants in addition to related products, equipment, and services.

Objectives of this event include:

- (1) identification of landscape plant material and plant disorders.
- (2) utilization of cultural practices such as growing techniques,
- (3) design and construction of landscapes, and
- (4) demonstration of effective written and oral communication skills.

Sponsor

This event is currently sponsored by the North Carolina Association of Nursery and Landscape Association.

Superintendent

The superintendent for this event is Mr. Jason Davis, State FFA Coordinator, Department of Agricultural and Extension Education, NCSU Box 7654, Raleigh, NC 27695-7654 Phone: 919.513.0216 Fax: 919.513.3201 Email: jason davis@ncsu.edu

Eligibility

This event is open to all FFA chapters and FFA members in good standing. FFA Members

may not participate in a Career Development Event that leads to a state level event after July 1, following their high school/early college graduation. **Members**

winning a previous state event in this area or that have participated in a previous national event in this area are ineligible. This event will be held during the North Carolina State FFA Convention.

Teams shall consist of three or four members. Three scores will count towards the team total. The fourth lowest team member score is not considered except in the case of a tie. No alternates are allowed in state events. Any alternate found participating in a state event will result in team disqualification.

The top three individuals in the regional event are eligible to participate in the state event as individuals regardless of their team placing.

The use or possession of cellular phones, Personal Digital Assistants (PDA's) or any other mobile electronic communication device is prohibited during any state-level career development event. Any violation of this rule by any team member will result in total team disqualification.

Any member found cheating in any state-level career development event will result in total team disqualification for that event.

Calculators used for this event must be only basic five function (add, subtract, multiply, divide, and square root only) calculators. Possession of scientific calculators and other programmable calculators or other non-basic calculator by any team member shall result in a team disqualification.

At the North Carolina FFA State Convention, participation in more than one FFA CDE event is permitted as long as events are not being held

GROWING NORTH CAROLINA'S FUTURE

WWW.NCFFA.ORG



Learning to Do, Doing to Learn, Earning to Live, Living to Serve. concurrently and no special previsions are required to facilitate participation with the exception that parliamentary procedure and public speaking and parliamentary procedure and Creed speaking which are held concurrently will allow dual participation and special provisions for flighting.

State Career Development Event Participation

The appropriate numbers of teams based on event participation from each region are eligible to compete in the state career development event. The top three individuals in the regional event are eligible to participate in the state event as individuals regardless of their team placing. Teams and individuals advancing to state event participation must be certified by the regional FFA advisor.

Dress Code

Participants are required to follow the North Carolina FFA Career Development Event Dress Code. A ten percent reduction in the total team score will be taken if a participant violates the dress code. Participants are allowed to wear long pants, an appropriate shirt with a collar or an appropriate high school or FFA t-shirt.

Procedures for Administering the Event The general knowledge test and the identification activity will be the same for both the Floriculture and Nursery/Landscape Events at the regional level. At the state level, the identification for both events will be the same. There will be separate written tests at the state-level for the events.

Under no circumstances will any participant be allowed to touch or handle plant materials during the identification portion of the event. Any infraction of this rule will be sufficient cause to give that individual a zero on that phase of the event.

Any communication between participants during the event that would constitute giving help to that individual would result in both individuals getting a zero on that phase of the event. If an individual is suspected of copying someone else's paper, the participant will be given a personal quiet warning and if cheating continues, the one copying would be given a zero on that phase of the event.

To facilitate the holding of the scorecards, participants are allowed and encouraged to bring and use clipboards. These should be submitted to an event official to determine that they are free of written materials that might help a participant in the event. Identification papers and tests will be different colored papers for each of the two horticulture events.

Regional Event Set-Up

The host school will have the responsibility in setting up the career development event, choosing career development event officials, judges and materials according to the following:

Part 1: Identification (250 points)

Twenty-five plants will be chosen from the current list of ID plants and each plant will be numbered. Each contestant will be assigned a plant to begin the identification portion of the contest. Each contestant will remain at each plant for one minute then progress on to the next plant. No contestant will be permitted to return to a plant for a second time. Each plant will be worth 10

GROWING NORTH CAROLINA'S FUTURE

WWW.NCFFA.ORG



Learning to Do, Doing to Learn, Earning to Live, Living to Serve.

points and no plant will be used twice. Event officials will grade papers. Grading will be done by giving 10 points for each plant correctly identified. If it is observed that a participant uses the same number on their paper twice, neither number will be counted correct. 25 minutes.

Part 2: Knowledge test (250 points)

A written knowledge test will be made up by the state staff or the horticulture staff at N. C. State University consisting of 25 multiple choice questions. The same test will be used in both the Floriculture and Nursery/Landscape Events. The answer to these questions must be available in at least one of the references on the event reference list. The contestants will be given 25 minutes to complete the test and each question will be valued at 10 points. Copies of written tests will not be made available to teachers until the summer following the events.

Part 3: Practicum (50 points)

Each participant will be asked to measure the diameter of five trees suitable for sale in an established nursery. Each student will be given a caliper and a ruler to use in completing this practicum. A student will start at plant number one and proceed to plant number two at the end of the first minute. At the same time, a second participant will start at plant number one. Students will rotate in this manner so that one student finishes and another student starts at the end of each minute. Students will continue in this manner until all participants in a group have completed the practicum. The students will record their answers and event officials will grade the participant's work. Students may

earn a maximum of ten points per plant for a total score of fifty points. (Reference: American Standards for Nursery Stock.

Scoring Regional Event

Maximum Score	<i>550</i>
Identification	
250	
Knowledge Test	250
Practicum	50

State Event Set-Up

The FFA Executive Secretary or Horticulture consultant shall be responsible for setting up the event, choosing event officials, judges and materials according to the following:

Part 1: Identification (500 points)

Fifty plants will be chosen from the current list of ID plants and each plant will be numbered. Each participant will be assigned a plant to begin identification. Each participant will remain at each plant for one minute then progress on to the next plant. No participant will be permitted to return to a plant a second time. Handling the plant will result in the student receiving a zero on plant ID. Grading will be done by giving 10 points for each plant correctly identified. It is observed that a contestant uses the same number on their ID paper twice, neither number will be counted correct resulting in a penalty for using the same number. Teachers will grade the papers but should not grade papers of their own team.

Part 2: Knowledge test (500 points)

A written test will be made up by the state

staff or horticulture staff at North Carolina
State University. The test will consist of 30

GROWING NORTH CAROLINA'S FUTURE

WWW.NCFFA.ORG



Learning to Do, Doing to Learn, Earning to Live, Living to Serve. multiple choice questions the answers to which must be found in at least one of the references on the event reference list. The test will consist of 30 general horticulture questions and 20 questions specific to the area of nursery landscape. The participants will be given 50 minutes to complete the test and each question will be valued at 10 points. Event officials will grade the papers. Agricultural Education Teachers should not see or have a copy of the test until the summer. No question should be used two years consecutively. 50 Minutes.

Part 3: Practicum (100 points)

This test is to be made up by state staff or horticulture staff at North Carolina State University and will consist of ten landscape situations to answer or solve with multiple choice answers given. Each question is worth ten points. At least three and not more than five of these questions should involve reading to a scale, calculations such as square feet, cubic feet, cubic yards, square yards, a number of plants required or costs of items including tax and discount rates. If a ruler is required, it is to be provided by event officials. No participants will be given extra time. 30 Minutes.

Part 4: Problem Solving (100 points)
Each student will be given a 10 question
multiple choice problem solving test
concerning floral plants, products, or
situations. Each question will be worth 10
points. Event officials will grade these
papers. Some examples of these types of
questions are as follow:

Example 1: The plant sitting before you has twenty

numbered tags indicating a possible pruning cut. What are the five primary cuts?

A. 2, 17, 14, 10, 6

B. 1, 10, 20, 12, 19

C. 4, 7, 13, 16, 2, 1

D. 7, 12, 4, 18, 11

Example 2:

The student is presented with some type of pest (insect, weed, and disease). Sitting in front of the participant will be four pesticides or the pesticides labels. Which of the pesticides could be used to control or eliminate the pest?

A. Use Roundup

B. Use A Rest

C. Use Methyl Bromide

D. Use Talstar

Official Caliper Rule

From the American Standards of Nursery, "Caliper measurement of the trunk shall be taken six inches above the ground up to and including four-inch caliper size. If the caliper at six inches above the ground exceeds four inches, the caliper should be measured at 12 inches above the ground."

Scoring State Event

Maximum Score	1200
Identification	
500	
Knowledge Test	500
Practicum	100
Problem Solving	100

Procedure for Determining the State Event Winner When Scores are Tied

GROWING NORTH CAROLINA'S FUTURE

WWW.NCFFA.ORG



Learning to Do, Doing to Learn, Earning to Live, Living to Serve, In the event a tie score exists, apply the following methods in sequential order until the tie is broken:

- 1. Compare the alternate scores. The lowest team member score is the alternate score.
- 2. Compare the total team scores for the problem solving component and the higher scoring team is the winner.
- 3. If scores continue to be tied compare the total team scores for the Identification component and the higher scoring team is the winner.
- 4. If scores continue to be tied compare the total team score for the knowledge test and the higher scoring team is the winner.
- 5. If these methods fail to break the tie, cowinners will be declared and a run-off event will be held to determine which team will represent North Carolina at the National FFA Convention. The run-off event will follow the same rules as the state event.

Special Note: In the event a tie exists between first, second or third place teams on the regional level, the tied teams will be allowed to participate in the state event.

State Awards

The following awards will be presented annually at the state FFA convention provided sponsorship is available:

State Winning Team \$500 and first place team pins & plaque

Second Place Team
Second place team pins & plaque

Third Place Team

Third place team pins & plaque

High Scoring Individual *Plaque*

National Career Development Event Participation

State winning teams advancing to the national career development event will be automatically registered for the national event. It is the responsibility of the FFA Chapter Advisor to complete all necessary national certification and waiver forms and return them to the state FFA Coordinator by the assigned due date.

State winning CDE teams that choose not to participate at the national level should contact the state office by Sept. 1 prior to national convention. Teams that fail to inform the state office prior to Sept 1 will be ineligible to participate in that same CDE for the next year (chapters may appeal to the State FFA Board of Directors). Teams that do not compete at the National Convention will be required to pay back the \$500 travel award.

References

Tests used in previous state events are available to instructors who wish to use them as instructional aids. Please use the appropriate form included in Section Four of the <u>State Guide to FFA Activities</u> to request these materials.

<u>Landscape Plants of the Southeast</u>, Halfacre, Gordon, The Sparks Press.

A Guide to Field Identification-Trees of North America, C. Frank Brockman, 168 Golden Press, New York.

GROWING NORTH CAROLINA'S FUTURE

WWW.NCFFA.ORG



Learning to Do, Doing to Learn, Earning to Live, Living to Serve,

- *Nursery Production A Student Handbook, 1988, Department of Ag Ed., Penn State University, University Park, Pennsylvania 16802.
- *Greenhouse Crop Production Revised A Student Handbook, 1983 Department of Ag.Ed, Penn State University, University Park, Pennsylvania 16802.
- *Floral Design and Marketing, Gary Anderson, The Ohio State University, 2120 Fyffe Road. Columbus. Ohio. 43210.
- <u>Landscaping</u> <u>Your</u> <u>Home,</u> <u>Revised</u> <u>Edition-Circular</u> <u>III</u>, Nelson, Jr., William R., University of Illinois, Urbana, Illinois.
- *Carolina Lawns, Circular Ag-69, North Carolina Extension Service.
- *Mathematics for Horticulture-Student Manual, 1982, The Ohio State University,

- **2120** Fyffe Road, Columbus, Ohio, 43210, \$4.95.
- *<u>Landscaping: Principles and Practices</u>, Third Edition, by Ingels, Delmar Publishers, 1987.
- *Working in Horticulture, By Moore and Richardson, Gregg/McGraw Hill Book Co., 1980. Activity Guide, Teacher's Manual.
- *Introductory Horticulture, Third Edition, by Riley and Shry, Delmar Publishers, 1987.
- American Standard For Nursery Stock, Published by the American Association of Nurserymen, Inc., 1986,1250 I Street, Suite 500, Washington, D.C. 20005.
- *These references will be used primarily as sources for test items. Others are for use by teachers primarily.

GROWING NORTH CAROLINA'S FUTURE

WWW.NCFFA.ORG



Official Plant Identification List NC FFA Floriculture & Nursery/Landscape Contests

Plant specimens will be numbered 1-25 for the Regional Contest and 1-50 for the State Contest. Contestant is to write the appropriate number in the space beside the name of the specimen.

Contestant Name	Contestant #	Score
	Cornus kousa/Chinese	e Dogwood
Abelia X grandiflora/Glossy Abelia	Cotoneaster dammeri/	<u> </u>
Acer palmatum/Japanese Maple		landii/Leyland Cypress
Acer platanoides/Norway Maple	Crassula ovata/Jade P	
Acer rubrum/Red Maple	Crocus sativus/Crocus	
Ageratum mexicanum/Ageratum	Cyclamen X persicum	
Aglaonema commutatum/ Aglaonema	Dianthus caryophyllus	
Ajuga reptans/Ajuga	Dieffenbachia maculat	
Alstroemeri aurantiaca/Peruvian Lily	Dizygotheca elegantis	sima 'Castor/
Antirrhinum majus cv./Snapdragon	False Aralia	
Anthurium x andraenum/Anthurium		
Araucaria heterophylla/Norfolk Island Pine	Dracaena cincta/Red E	Edge Dracaena
Asparagus densiflorus 'Sprengeri'/		'Warneckii'/Warneckii Dracena
Sprengeri Fern	Dracaena fragens "Ma	ssangeana"/Corn Plant
Asparagus setaceus/Plume Asparagus Fern	Echeveria cv./Hens an	d Chickens
Astilbe cv./Astilbe Hybrids	Echinaceae purpurea/	Cone Flower
Aucuba japonica/Japanese Aucuba	Elaeagnus pungens/Tl	norny Elaeagnus
Begonia X semperflorens-cultorum/	Epipremnum aureum o	cv./Golden Pothos
Wax Begonia	Eucalyptus polyanther	nos/Silver Dollar Gum
Berberis thunbergii/Japanese Barberry	Euonymus alata/Winge	ed Euonymus
Betula nigra/River Birch	Euonymus japonica or	'Variegata'/
Buddleia davidii/Butterfly Bush	Evergreen E	uonymus
Buxus microphylla var. japonica/	Euphorbia pulcherrima	cv./Poinsettia
Japanese Boxwood	Ficus benjamina/Weep	oing or Benjamin Fig
Buxus sempervirens/Common Boxwood	_Ficus elastica 'Decora'/Decora l	Rubber Plant
Caladium x hortuanum cv./Fancy Leaved Caladium	Fittonia verschaffeltii/N	lerve Plant
Camellia japonica cv./Common Camellia	_Forsythia X intermedia/Border F	orsythia
Camellia sasanqua/Sasanqua Camellia	Freesia x hybrid/Freesia	
Canna X generalis/Canna	Fuchsia X hybrida/Fuc	hsia
Catharanthus roseus/Madagascar Periwinkle	Gardenia jasminoides/	Gardenia
Cattleya cv./Cattleya Orchid Hybrid	Gerbera jamesonii/Ge	
Celosia argentea cv./Cockscomb	Gibasis pellucida/Tahi	tian Bridal Veil
Cercis canadensis/Eastern Red Bud	Ginkgo biloba/Ginkgo	
- Judas Tree	Gladiolus X hortulanus	s/Gladiolus
Chamaecyparis pisifera "Gold Mop"	Gleditsia tricanthos va	r. inermis/
Chamaedorea elegans/Parlor Palm	Thornless H	loneylocust
Chlorophytum comosum cv./Spider Plant	Gynura aurantiaca/Vel	vet Plant
Chrysantheum morifolium or Dendranthema	Gypsophila elegans cv	r./Babys Breath
X grandiflora/Florist Chrysantheum	Hedera helix/English iv	/y
Chrysantheum X superbum/Shasta Daisy	Hemerocallis cv./Day I	_ily
Cissus rhombifollia "Mandaiana"/Grape Ivy	Hibiscus sp./Hibiscus	
Clematis X jackmanii/Clematis Hybrids	Hippeastrum cv./Amar	yllis
Codiaeum variegatum var. pictum/Croton	Hosta sp./Hosta	
Coleus X hybridus/Coleus	Hoya carnosa/Wax Pla	ant
Cornus florida/Flowering Dogwood	Hydrangea macrophyll	a/French Hydrangea

Chapter Guide to State FFA Activities Last revised April 2016

Iberis sempervirens/Evergreen Candytuft	Laurel
llex X attenuata 'Fosteri'/Fosteri Holly	Prunus serrulata 'Kwanzan'/Japanese
llex X attenuata 'Savannah'/Savannah Holly	Flowering Cherry
Ilex crenata "Compacta"/Compacta Holly	Pyracantha coccinea/ Scarlet Firethorn
Ilex x "Nellie R. Stevens"/Nellie R. Stevens holly	Pyrus calleryana 'Bradford'/Bradford Pear
llex crenata 'Helleri'/Helleri Holiy	Quercus falcata/Southern Red Oak
llex cornuta "Carissa"/Carissa Holly	Quercus nigra/Water Oak
llex vomitoria 'Nana'/Dwarf Yaupon	Quercus palustris/Pin Oak
Impatiens/Impatiens Cultivars and Hybrids	Quercus phellos/Willow Oak
Iris X germanica var florentina/Bearded Iris	Raphiolepis indica/Indian Hawthorn
Iris xiphium/Dutch Iris	Rhododendron catawbiense/Catawba
Juniperus conferta/Shore Juniper	Hybrid Rhododendron
Juniperus horizontalis 'Plumosa,' 'Bar Harbor,'	Rhododendron kiusianum or Rhododendron
or 'Wiltonii' /Creeping Juniper	obtusum japonicum/Azalea
Kalanchoe blossfeldiana/Kalanchoe	Rosa spp.
Lagerstroemia indica cv./Crape Myrtle	Rumohra adiantiformis/Leatherleaf Fern
Lantana I./Lantana	Saintpaulia ionantha/African Violet
Ligustrum japonicum cv./Japanese Privet	Salvia splendens/Salvia
Limonium spp.	Schefflera actinophylla/Schefflera
Liquidambar styraciflua/Sweetgum	Schefflera arboricola/Dwarf Schefflera
Liriope muscari/Liriope(Green or Variegated cv.)	Schlumbergera bridgesii/Christmas Cactus
Loropetalum chinensis/Chinese fringe flower	Schlumbergera truncata/Thanksgiving cactus
Loropetalum chinensis/orimese minge nower	Sedum spurium cv./Sedum
Magnolia grandiflora/Southem Magnolia	Spathiphyllum cvs./Peace Lily
Magnolia X soulangiana cv./	Syngonium podophyllum/Nephthytis or
Saucer Magnolia	Arrowhead Vine
Malus sp. or cv./Flowering Crabapple	Tagetes species/Marigold
Maranta leuconeura var.kerchoviana/	Tagetes species/MangoldTaxus cuspidata/Japanese Yew
Prayer Plant	Taxus cuspidata/Japanese TewThuja occidentalis/American Arborvitae
Myrica cerifera/Wax MyrtleNandina domestica/Heavenly Bamboo	Tradescantia zebrina/Purple Wandering JewTsuga canadensis/Canadian Hemlock
Or Dwarf Nandina	Tsuga canadensis/Canadian Henilock
Narcissus sppNephrolepis exaltata cv./Boston Fem	Verbena hybrida/ Garden Verbena Viola X wittrockiana/Pansy
·	•
Ophiopogon japonicus/Mondo Grass	Zelkova serrata/Zelkova
Osmanthus sp.	Zinnia elegans/Zinnia
Pachysandra terminalis/Japanese Pachysandra	
Paeonia sp./Peony	
Pelargonium X hortorum/Geranium	
Pelargonium peltatum/Ivy Leaf Geranium	
Pennisetum alopecuroides/Fountain Grass	
Peperomia caperata 'Emerald Ripple'/	
Emerald Ripple Peperomia	
Peperomia obtusifolia/Peperomia	
Petunia hybrida/Petunia	
Phalaenopsis cv./ Phalaenopsis (Butterfly) Orchid	
Philodendron scandens var. oxycardium/Parlor lvy	
Picea abies/Norway Spruce	
Pieris japonica/Japanese Andromeda	
Pinus mugo var. mugo/Mugo Pine	
Pinus strobus/Eastern White Pine	
Platanus x acerifolia/London Plane Tree	
Plectranthus australis/Swedish Ivy	
Prunus laurocerasus 'Zabeliana'/Zabel Cherry	

Chapter Guide to State FFA Activities Last revised April 2016

NURSERY LANDSCAPE PRACTICUM

Contestant #			
Contestant Name			

Plant #	Measurement	Possible Points	Contestant Points
1		10	
2		10	
3		10	
4		10	
5		10	

Total Points	
--------------	--

NOTE: When grading this scorecard, the contestant's answer is correct if it is within + or -1/8" on tress up to 1" in diameter and = or $-\frac{1}{4}$ " on trees 1" to 3" in diameter.