

NURSERY/LANDSCAPE
Ward Upham - Coordinator
785/532-1438
wupham@ksu.edu
Lobby, 1st Floor - Throckmorton Hall
Sunday, May 5, 2019
Registration*: 3:45 pm - 4:10 pm
Contest: 4:15 pm – 6:30 pm

Note that the Nursery/Landscape CDE has been changed to more closely follow the National CDE. **The written test will remain the same but the Plant ID plant list and practicum has been modified. All scoring will be done with the national contest score sheets and graded by computer.**

Teams of four can compete with the top three scores counting for team total.

A. Written Test** - (100 pts.) 30 minute time slot

40 Multiple Choice questions over general knowledge of the horticulture industry, nursery production practices, landscape design and maintenance.

B. Identification - (150 pts.) 30 minute time slot. See following page.

50 specimens selected from the state nursery/landscape plant material list.

C. Practicums - Three practicums (100 points total) 30 minute time slot

1. Equipment and Supplies ID – 37.5 points, 15 items. Includes ID of tools, containers and growing mix materials. Listings of possible items follows Disorder list.

2. Disorder Practicum. 37.5 points, 15 items. Includes problems associated with insects, diseases or environmental factors as well as beneficial insects. Listings of possible items follows Plant ID list.

3. Landscape Drawing Practicum –25 points, 10 questions. Evaluation or interpretation of landscape designs.

*Registration for the Landscape/Nursery CDE is separate from the Floriculture CDE registration.

Plant list follows. See next page.

REFERENCES FOR THE FFA NURSERY/LANDSCAPE EXAMINATION

Ingels, Jack. Ornamental Horticulture: Science, Operations and Management. Third Edition, 2001 Delmar Publishers

Reiley, H. Edward and Carroll L. Shry, Jr. Introductory Horticulture. Sixth Edition. 2002. Delmar Publishers.

Horticulture Contest 2018 ID List
NURSERY/LANDSCAPE PLANTS

001. *Abelia x grandiflora* (Glossy Abelia)
002. *Acer palmatum* cv. (Japanese Maple)
003. *Acer platanoides* cv. (Norway Maple)
004. *Acer rubrum* cv. (Red Maple)
005. *Acer saccharinum* (Silver Maple)
006. *Acer saccharum* cv. (Sugar Maple)
007. *Ajuga reptans* cv. (Carpet Bugle)
008. *Aquilegia x hybrida* cv. (Columbine)
009. *Berberis* sp. and cv. (Barberry)
010. *Betula nigra* (River Birch)
011. *Buchloe dactyloides* (Buffalograss)
012. *Buxus* sp. and cv. (Boxwood)
013. *Catalpa* sp. (Catalpa)
014. *Cedrus atlantica* 'Glauca' (Blue Atlas Cedar)
015. *Celtis occidentalis* (Hackberry)
016. *Cercis canadensis* (Redbud)
017. *Chaenomeles speciosa* (Japanese Quince)
018. *Clematis* hybrid (Clematis)
019. *Colchicum autumnale* (Crocus)
020. *Cornus florida* cv. (Flowering Dogwood)
021. *Cotoneaster* sp. (Cotoneaster)
022. *Crataegus phaenopyrum* (Washington Hawthorn)
023. *Cynodon dactylon* (Bermudagrass)
024. *Echinaceae purpurea* (Purple Coneflower)
025. *Euonymus alatus* (Winged Euonymus)
026. *Euonymus fortunei* cv. (Wintercreeper)
027. *Festuca* sp. (Fescue)
028. *Forsythia x intermedia* cv. (Border Forsythia)
029. *Fraxinus* sp. (Ash)
030. *Ginkgo biloba* (Ginkgo, Maidenhair Tree)
031. *Gleditsia triacanthos* var. *inermis* (Thornless Honeylocust)
032. *Gymnocladus dioicus* (Kentucky Coffeetree)
033. *Hedera helix* cv. (English Ivy)
034. *Heemerocallis* sp. and cv. (Daylily)
035. *Hibiscus syriacus* (Rose-of-Sharon)
036. *Hosta x hybrida* cv. (Plantain Lily)
037. *Hyacinthus orientalis* (Hyacinth)
038. *Hydrangea macrophylla* (Bigleaf Hydrangea)
039. *Hydrangea quercifolia* (Oakleaf Hydrangea)
040. *Ilex* sp. (Holly)
041. *Iris x germanica florentina* cv. (Bearded Iris)
042. *Juglans nigra* (Black Walnut)
043. *Juniperus* sp. (Juniper)
044. *Koelreuteria paniculata* (Goldenraintree)
045. *Lagerstroemia indica* cv. (Crapemyrtle)
046. *Leucanthemum x superbum* cv. (Shasta Daisy)
047. *Liquidambar styraciflua* (Sweetgum)
048. *Liriodendron tulipifera* (Tuliptree)
049. *Lonicera japonica* (Japanese Honeysuckle)
050. *Maclura pomifera* (Osage Orange)

051. *Magnolia x soulangiana* (Saucer Magnolia)
052. *Mahonia aquifolium* (Oregon Grapeholly)
053. *Malus* sp. and cv. (Flowering Crabapple)
054. *Morus* sp. (Mulberry)
055. *Myrica pensylvanica* (Bayberry)
056. *Nandina domestica* (Heavenly Bamboo)
057. *Narcissus pseudonarcissus* cv. (Daffodil)
058. *Pachysandra terminalis* (Japanese Spurge)
059. *Paeonia hybrida* cv. (Peony)
060. *Parthenocissus tricuspidata* (Boston Ivy)
061. *Philadelphus coronarius* (Sweet Mockorange)
062. *Picea abies* (Norway Spruce)
063. *Picea pungens* cv. (Colorado Blue Spruce)
064. *Pinus mugo* (Mugo Pine)
065. *Pinus nigra* (Austrian Pine)
066. *Pinus ponderosa* (Ponderosa Pine)
067. *Pinus strobus* (Eastern White Pine)
068. *Pinus sylvestris* (Scots Pine)
069. *Platanus occidentalis* (Sycamore)
070. *Poa pratensis* (Kentucky Bluegrass)
071. *Populus deltoides* (Cottonwood)
072. *Potentilla fruticosa* (Shrubby Cinquefoil)
073. *Prunus serrulata* (Japanese Flowering Cherry)
074. *Pyracantha coccinea* (Firethorn)
075. *Pyrus calleryana* (Callery Pear)
076. *Quercus macrocarpa* (Burr Oak)
077. *Quercus palustris* (Pin Oak)
078. *Quercus rubra* (Red Oak)
079. *Rhododendron* sp. and cv. (Azalea)
080. *Rhus* sp. (Sumac)
081. *Rosa* sp. (Landscape/Shrub Rose)
082. *Rudbeckia hirta* (Rudbeckia)
083. *Salix* sp. (Willow)
084. *Sedum* sp. (Sedum)
085. *Sempervivum tectorum* (Hen and Chicks)
086. *Spiraea* sp. and cv. (Spirea)
087. *Syringa vulgaris* cv. (Common Lilac)
088. *Taxodium distichum* (Baldcypress)
089. *Taxus* sp. and cv. (Yew)
090. *Thuja occidentalis* cv. (American Arborvitae)
091. *Tilia* sp. (Linden)
092. *Tulipa* sp. and cv. (Tulip)
093. *Ulmus americana* (American Elm)
094. *Ulmus parvifolia* (Chinese Elm)
095. *Ulmus pumila* (Siberian Elm)
096. *Viburnum* sp. (Viburnum)
097. *Vinca minor* (Periwinkle)
098. *Weigela florida* cv. (Old-fashioned Weigela)
099. *Wisteria sinensis* (Chinese Wisteria)
100. *Yucca filamentosa* (Adam's Needle Yucca)

Nursery/Landscape Pests, Disorders and Beneficial Insects ID

Insects

- 1 Aphid
- 2 Bagworm
- 3 Borer
- 4 Leafhopper
- 5 Leaf Miner
- 6 Scale
- 7 Spider Mite
- 8 Snail/Slug
- 9 Whitefly
- 10 White Grub

Diseases

- 11 Anthracnose
- 12 Apple Scab
- 13 Black Spot
- 14 Botrytis
- 15 Canker
- 16 Cedar-Apple Rust
- 17 Crown Gall
- 18 Fireblight
- 19 Powdery Mildew
- 20 Root Rot

Weeds

- 21 Annual Bluegrass
- 22 Broadleaf Plantain
- 23 Buckhorn Plantain

- 24 Chickweed
- 25 Crabgrass
- 26 Dandelion
- 27 Henbit
- 28 Nutsedge
- 29 Oxalis
- 30 Purslane
- 31 Clovers

Physiological Problems

- 32 Frost/Freeze/Injury
- 33 Iron Deficiency
- 34 Leaf Scorch (drought/winter burn)
- 35 Nitrogen Deficiency
- 36 Pot-Bound Roots
- 37 String Trimmer Injury
- 38 2,4-D Injury

Beneficial Insects

- 39 Praying Mantis
- 40 Lady Beetle
- 41 Paper Wasp
- 42 Lacewing
- 43 Spider

Nursery/Landscape Equipment and Supplies Identification

<u>No.</u>	<u>Item Name</u>	<u>No.</u>	<u>Item Name</u>
1	anvil-and-blade pruner	45	oscillating sprinkler
2	ball cart (B&B truck)	46	mist nozzle (mist bed)
3	bark mulch	47	peat moss
4	bow saw	48	pick axe
5	broadcast (cyclone) spreader	49	planting/earth/soil auger
6	bubbler head, irrigation	50	pole pruner
7	bulb planter	51	polyethylene pipe
8	bunker rake	52	pop-up irrigation head
9	burlap	53	post-hole digger
10	compressed air sprayer	54	power blower
11	core aerifier	55	power hedge trimmer
12	chain saw	56	pot-in-pot units
13	cut-off machine	57	pump sprayer
14	drip emitter, irrigation	58	propagation mat
15	dry-lock wall block	59	pruning saw
16	edger (power or hand)	60	quick coupler
17	edging	61	quick coupler head
18	erosion netting	62	reel mower
19	fertilizer injector	63	resin-coated fertilizer
20	fertilizer tablet	64	rotary mower
21	garden (spading) fork	65	rototiller
22	garden (bow) rake	66	round point shovel
23	grafting band	67	scoop shovel
24	grafting knife	68	shade fabric
25	granular fertilizer	69	sharpening stone
26	gravity (drop) spreader	70	siphon proportioner
27	ground (pelleted) limestone	71	soaker hose
28	hedge shears	72	soil sampling tube
29	hoe	73	solenoid valve
30	hook-and-blade (bypass) pruners	74	spade
31	hose-end repair fitting	75	sphagnum moss
32	hose-end sprayer	76	square point (flat) shovel
33	hose-end washer	77	string trimmer
34	hose repair coupling	78	thatch rake
35	impact sprinkler	79	tree caliper
36	irrigation ring tool	80	tree wrap
37	landscape fabric	81	trowel
38	leaf rake	82	vertical mower
39	loppers	83	water breaker
40	mattock	84	wire tree basket
41	measuring wheel		
42	mist nozzle (mist bed)		
43	mower blade balancer		
44	nursery container		