

Illinois Association of Vocational Agriculture Teachers Agronomy Career Development Event

A. General Information

1. **Team:** A team shall consist of four (4) participants. All three (3) participants' scores shall constitute the team score.
2. **Placings/Scoring:** The career development event consists of Objective Test, Crop Identification, Weed Identification, four (4) placing rings and a practicum. The total possible points per participant is 385. Official ring placings and reasons will be given immediately following the completion of the career development event.
3. **Scorecards:** The Scantron card used in the event will be *Multi Purpose B - CDE form #228576*.
4. **Additional Information:** Refer to the "Annual Information and General Rules" section for the current year for information concerning **Entry Fees, Registration, and Location** of the career development event.
5. Watch the *AgEd Listserve* for event details.

B. Event Format

1. Written Test
 - a. 25 question objective test (25 questions @ 3 points each)
2. Identification
 - a. **Crops:** Identify 25 specimens from the list of 44 crops (25 specimens @ 3 points each)
 - Specimens may include any combination of live plants, plant mount or seed - except where noted.
 - All grasses will include a mature plant, plant mount or seed if a seedling is used.
 - Specimens cannot be handled
 - b. **Weeds:** Identify 25 specimens from the list of 66 weeds (25 specimens @ 3 points each)
 - Specimens may include any combination of live plants, plant mount or seed - except where noted.
 - All grasses will include a mature plant, plant mount or seed if a seedling is used.
 - Specimens cannot be handled
3. Judge four (4) rings of any combination of the following: (4 rings @ 25 points each)
 - Corn (to be judged as market corn)
 - Soybeans (to be judged as seed)
 - Wheat (to be judged as seed)
 - Oats (to be judged as seed)
 - Silage (to be judged as feed)
 - Hay (legume or mixed hay).

[All grain and silage rings may be examined by stirring lightly with a writing utensil. Hay samples cannot be handled.]
4. Practicums (20 questions @ 3 points each)
 - a. **Insects:** (This practicum will be part of the CDE in all odd-numbered years)
This practicum requires the participant to demonstrate two skills with each specimen.
 - Identify 10 specimens from the list of 31 insects.
 - Answer one question on each specimen regarding the life cycle or potential damage.
 - b. **Soils:** (This practicum will be part of the CDE in all even-numbered years)
This practicum requires the participant to demonstrate two skills with each specimen.
 - Evaluate soil monoliths.

- Interpret soil surveys.

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| <p>Weed Identification 101 to 166 Seed, plant, or plant part</p> <p>101 Barnyardgrass <i>Echinochloa crus-galli</i></p> <p>102 Bitter nightshade* <i>Solanum dulcamara</i></p> <p>103 Broadleaf plantain* <i>Plantago major</i></p> <p>104 Buckhorn plantain <i>Plantago lanceolata</i></p> <p>105 Bull thistle* <i>Cirsium vulgare</i></p> <p>106 Burdock <i>Arctium minus</i></p> <p>107 Canada thistle* <i>Cirsium arvense</i></p> <p>108 Carpetweed* <i>Mollugo verticillata</i></p> <p>109 Cheat* <i>Bromus secalinus</i></p> <p>110 Chicory <i>Cichorium intybus</i></p> <p>111 Common chickweed* <i>Stellaria media</i></p> <p>112 Common cocklebur <i>Xanthium strumarium</i></p> <p>113 Common lambsquarters <i>Chenopodium album</i></p> <p>114 Common mallow <i>Malva neglecta</i></p> <p>115 Common milkweed <i>Asclepias syriaca</i></p> <p>116 Common mullein <i>Verbascum thaspus</i></p> <p>117 Common ragweed <i>Ambrosia artemisiifolia</i></p> <p>118 Curly dock <i>Rumex crispus</i></p> <p>119 Daisy fleabane* <i>Erigeron strigosus</i></p> <p>120 Dandelion <i>Taraxacum officinale</i></p> <p>121 Eastern black nightshade* <i>Solanum ptycanthum</i></p> <p>122 Fall panicum <i>Panicum dichotomiflorum</i></p> <p>*Plant or plant part only.</p> | <p>123 Field bindweed <i>Convolvulus arvensis</i></p> <p>124 Field pennycress <i>Thlaspi arvense</i></p> <p>125 Flower-of-an-hour (Venice mallow)* <i>Hibiscus trionum</i></p> <p>126 Foxtail barley* <i>Hordeum jubatum</i></p> <p>127 Giant foxtail <i>Setaria faberi</i></p> <p>128 Giant ragweed <i>Ambrosia trifida</i></p> <p>129 Goosegrass* <i>Eleusine indica</i></p> <p>130 Green foxtail <i>Setaria viridis</i></p> <p>131 Hedge bindweed* <i>Calystegia sepium</i> ssp. <i>sepium</i></p> <p>132 Hemp dogbane* <i>Apocynum cannabinum</i></p> <p>133 Hemp (Marijuana)* <i>Cannabis sativa</i></p> <p>134 Honeyvine milkweed* <i>Cynanchum laeve</i></p> <p>135 Horsenettle* <i>Solanum carolinense</i></p> <p>136 Horseweed (Marestail) <i>Conyza canadensis</i></p> <p>137 Ivyleaf morningglory <i>Ipomoea hederacea</i></p> <p>138 Jimsonweed <i>Datura stramonium</i></p> <p>139 Johnsongrass <i>Sorghum halepense</i></p> <p>140 Ladythumb smartweed <i>Polygonum persicaria</i></p> <p>141 Large crabgrass <i>Digitaria sanguinalis</i></p> <p>142 Musk thistle <i>Carduus nutans</i></p> <p>143 Peppergrass <i>Lepidium virginicum</i></p> <p>144 Perennial sowthistle* <i>Sonchus arvensis</i></p> <p>*Plant or plant part only.</p> | <p>145 Pigweeds (Redroot, Smooth) <i>Amaranthus</i> species</p> <p>146 Prickly lettuce* <i>Lactuca serriola</i></p> <p>147 Prickly sida <i>Sida spinosa</i></p> <p>148 Prostrate knotweed* <i>Polygonum aviculare</i></p> <p>149 Purslane <i>Portulaca oleracea</i></p> <p>150 Quackgrass <i>Elymus repens</i></p> <p>151 Shattercane <i>Sorghum bicolor</i></p> <p>152 Shepherd's-purse <i>Capsella bursa-pastoris</i></p> <p>153 Stinkgrass* <i>Eragrostis cilianensis</i></p> <p>154 Tall morningglory* <i>Ipomoea purpurea</i></p> <p>155 Velvetleaf <i>Abutilon theophrasti</i></p> <p>156 Waterhemp <i>Amaranthus tuberculatus</i></p> <p>157 Wild carrot <i>Daucus carota</i></p> <p>158 Wild garlic* <i>Allium vineale</i></p> <p>159 Wild mustard <i>Brassica kaber</i></p> <p>160 Wild parsnip <i>Pastinaca sativa</i></p> <p>161 Wild sunflower <i>Helianthus annuus</i></p> <p>162 Woolly cupgrass <i>Eriochloa villosa</i></p> <p>163 Yarrow* <i>Achillea millefolium</i></p> <p>164 Yellow foxtail <i>Setaria glauca</i></p> <p>165 Yellow nutsedge* <i>Cyperus esculentus</i></p> <p>166 Yellow woodsorrel* <i>Oxalis stricta</i></p> <p>*Plant or plant part only.</p> |
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| <p>Crop Identification</p> | <p>Insect Identification</p> |
| <p>201 to 244</p> | <p>301 to 331</p> |
| <p><i>Seed, plant, or plant part</i></p> | |
| <p>201 Alfalfa 202 Alsike clover 203 Barley 204 Birdsfoot trefoil 205 Broccoli 206 Bromegrass 207 Canola 208 Corn 209 Cotton 210 Cucumber 211 Fescue 212 Grain sorghum 213 Kentucky bluegrass 214 Ladino clover 215 Lettuce 216 Lespedeza 217 Lima bean 218 Muskmelon 219 Oats 220 Orchardgrass 221 Pea 222 Peanut 223 Perennial ryegrass 224 Popcorn 225 Potato* 226 Pumpkin 227 Red clover 228 Redtop 229 Rice 230 Rye 231 Safflower 232 Soybean 233 Strawberry* 234 Sudangrass 235 Sugar beet 236 Sunflower 237 Sweet clover 238 Sweet corn 239 Sweet potato* 240 Timothy 241 Tomato 242 Vetch 243 Watermelon 244 Wheat</p> | <p>301 Alfalfa weevil 302 Aphid 303 Armyworm larva 304 Assassin bug 305 Bean leaf beetle 306 Blister beetle 307 Chinch bug 308 Corn earworm larva 309 Corn rootworm larva 310 Cricket 311 Cutworm larva 312 European corn borer larva 313 Flea beetle 314 Grain weevil 315 Grasshopper 316 Green lacewing 317 Honeybee 318 Japanese beetle 319 Lady beetle larva 320 Leaf skeletonizer 321 Leafhopper 322 Mexican bean beetle 323 Scale 324 Spider mite 325 Spittlebug 326 Spotted cucumber beetle/Southern corn rootworm beetle 327 Stinkbug 328 Tobacco/tomato hornworm larva 329 Western corn rootworm beetle 330 White grub 331 Wireworm</p> |
| | <p>Life Cycle 401 to 403</p> |
| | <p>401 Complete metamorphosis 402 Incomplete metamorphosis 403 None/no metamorphosis</p> |
| | <p>Economic Impact 501 to 504</p> |
| | <p>501 None or predatory 502 Destruction of fruit/flower 503 Destruction of vegetative parts (roots and leaves) 504 Destruction by removal of plant fluids</p> |
| <p>*Plant or plant part only.</p> | |

C. SUGGESTED REFERENCES

University of Illinois - ITCS

CD-ROMS

MDS707b Weed Identification CD-ROM

Booklets

J790 Crop Judging

X860 Crop Plants (color photos and descriptions)

U4073 The Weed Factor

Miscellaneous

Z7002 Sample Grain Classes

Z7003 Crop Seed Samples

Z7004 Weed Seed Samples

Additional CDE References available from ITCS:

C1383 Illinois Agronomy Handbook

X880d Field Crop Scouting Manual

X900 Crop Sciences Laboratory Manual

CDR900 Instructor Guide to Crop Sciences Laboratory Manual

X840a Vegetative Identification of Common Row Crop Weeds

NCR607 Common Weed Seedlings of the North Central States

X870 Insect Pest Identification of Corn, Soybeans, and Alfalfa

U4052a Understanding Soils

A catalog of instructional materials is available from ITCS Instructional Materials, University of Illinois at Champaign-Urbana, 1401 S. Maryland Dr., Urbana, IL 61801. (800)345-6087 FAX (217)333-3917 or available on the World Wide Web (<http://im.itcs.illinois.edu/>)

Additional CDE References available from Ohio Curriculum Materials Service

1046K Agronomy Insect Set

1044K Agronomy Plant Set

CDE Reference available from County Soil & Water Conservation Districts

Soil survey