

Agronomy

Rule years 2024–2028 · Revision 1 · Published October 10, 2026

0. General Rules & Eligibility

Career Development Events are governed by the NAEA CDE Committee. All events follow [CDE General Rules and Eligibility](#).

Qualification for this event

District qualification	Top 25% of schools per district
Students per team	4
Grades	9–12
National qualifying event?	Yes
Timeframe	FFA Convention
Host	UNL Agronomy & Horticulture Dept.
Event Superintendent	Bryson Rader

1. Overview

The purpose of the Nebraska State Agronomy Career Development Event is to create interest and promote understanding in agronomy by providing opportunities for recognition through the demonstration of skills and proficiencies. It also gives students an opportunity to explore career opportunities available in agronomy and encourages students to pursue careers in agronomy.

Agricultural Education courses that align with the Agronomy CDE include: Introduction to Agriculture, Food, and Natural Resources, Plant Science, Crop Management, or Agronomy.

Objectives

Team Activity Objectives

- Each team will apply their knowledge of basic agronomic principles & practices by evaluating a field scenario provided to them, along with all the necessary reference information and mathematical formulas to answer specific questions.

Individual Objectives

- Plant and Seed Identification (including crops and weeds):* The foundation of all agronomic and horticultural cropping systems is built around the crop species themselves. Students will develop the ability to differentiate common agronomic and horticultural crops from each other, and from common and/or economically important weed species by: (not tested over). (See Appendix A)
 - Recognizing and utilizing unique identifying plant and/or seed characteristics to correctly distinguish crop or weed specimens from each other and identify the depicted specimens via high-quality digital photographs, preserved specimens, or fresh, live plant or seed samples.

- Developing a working knowledge of appropriate plant anatomy terminology to accurately and adequately describe plant specimens
- *Entomology*: All effective and appropriate pest management plans require the correct identification of entomological pests and beneficial insects, as well as a comprehensive understanding of the various and complex life cycles. Students will demonstrate their mastery of this content area by:
 - Identifying common agronomic pest species using unique characteristics exhibited in either larval or adult specimens. (See Appendix B)
 - Correctly differentiating orders of entomological pests and beneficial species by matching depicted specimens with the appropriate life cycle.
 - Correctly assigning depicted specimens into the ecological niches they occupy. (e.g., pest vs. beneficial, what plant component they damage). (See Appendix B)
- *Plant Diseases, Conditions, and Disorders*: All effective and appropriate crop management plans require the correct identification of many different biotic and abiotic causal agents before any further action can be taken. Student will showcase this critical skill by:
 - Identifying common plant diseases, conditions, or disorders shown in various agronomic crops via high-quality digital photographs, preserved specimens, or fresh, live samples.
 - Correctly distinguishing and categorizing the depicted plant disease, condition, or disorder into causal agent groups (e.g., bacterial, fungal, viral, environmental, etc.).
 - Discerning the correct crop plant components damaged by the depicted causal agent. (See Appendix C)
- *Machinery/Equipment*: Various types of machinery, from tillage operations to harvest, have long been used in agronomic fields. Recent advancements in precision-based technologies have further augmented these technologies and improved production efficiencies. Students will demonstrate their content knowledge of this area by:
 - Differentiating commonly used agronomic machinery and precision agriculture technologies. (See Appendix D)
 - Identifying personal protective equipment and their applicable use. (See Appendix D)
- *Soils*: The basis of all agronomic systems and arguably all life on earth, the study of soils, soil characteristics, and properties is the cornerstone of the science of Agronomy. Students will demonstrate their mastery of soil science content by:
 - Correctly identifying the processes and factors involved in the formation and development of soils.
 - Analyzing common agronomic problems related to the physical and chemical soil properties and how they relate to soil water issues.
 - Identifying environmental factors that influence soil erosion.
 - Demonstrating their ability to locate and utilize data from Web Soil Survey reports, graphics or summaries.

2. Eligibility & Team

Open to students in Grades 9–12. Teams are 4 students. Top 25% of schools per district advance. This event is national-qualifying.

Schools must register a full team; however, teams with fewer than four students may participate and will not be eligible to earn all points.

- ◦ Students who have either won the state contest and/or competed at the national level are not eligible to compete again at the state level.

- Team size shall be four members, all of whom must be pre-registered as 'participant' or 'alternate'.
 - Incomplete teams of one to three students are allowed if a school cannot field a full team.
 - All four team members will be scored, and all four individual scores shall count towards the team total.
 - All four team members are eligible for individual awards.

3. What to Bring

Attire

- It's recommended that FFA members wear Official FFA Dress. Non-FFA members should wear professional dress.
- If FFA official dress is **not worn**, students will be issued name tags at registration identifying their names, school and group.

Supplies

Each student should bring:

- #2 Pencils
- A calculator for basic arithmetic. (No cell phone calculators are allowed.)
- A clean clipboard per student (Must be free of marks or notes)

Participants **must not bring** notes, training aids, electronic communication devices, purses or backpacks, or any other personal belongings.

4. Event Format

Timing

- Students will be divided into ten groups and are expected to remain in their assigned group until the team component.
- After completing the ten, 13-minute individual rotations, students will then rejoin their team members for the team component in an 11th, 13-minute rotation.

Format

Annual Theme

Topic areas for the Team Activity will rotate on a yearly basis through the following:

- Alternative Crops (e.g. Dry Beans, Potato, Sugar Beet, Oilseeds, etc.) 2023
- Corn-Soybean Cropping Systems 2024
- Wheat and Small Grains 2025
- Rangeland and Forage Production 2026
- Alternative Crops (e.g. Dry Beans, Potato, Sugar Beet, Oilseeds, etc.) 2027
- Corn-Soybean Cropping Systems 2028

Event Components

- Plants & Seeds: 5, 13-minute rotations of 15 samples each
- Entomology: 1, 13-minute rotation of 15 samples
- Plant diseases/disorders: 1, 13-minute rotation of 15 samples

- D. Machinery/PPE: 1, 13-minute rotation of 20 samples
- E. Soil science: 2, 13-minute rotations of 15 questions each
- F. Team component: 1, 13-minute rotation of 10-15 questions

5. Scoring & Tiebreakers

Individual Scoring

Component	Detail	Points
Plant & Seed Identification	75 Specimens × 4 Points	300
Entomology	15 Specimens × 10 Points	150
Plant Diseases, Disorders, Conditions	15 Specimens × 10 Points	150
Machinery & PPE	20 Items × 3 Points	60
Soil Science	30 Questions × 5 Points	150
Grand total		810

- Entomology: (6 Points Specimen ID, 2 Points Damage, 2 Points Life Cycle)
- Plant Diseases, Disorders, Conditions: (6 points ID, 2 points damage, 2 points biotic group)
- Soil Science: (20 Questions derived from From the Surface Down and linked PASSEL websites) (10 Questions derived from Web Soil Survey (Resource links to follow))

Individual Tiebreakers

In the event of a tie at the individual level, students will be separated by:

- Highest Plant & Seed identification score, then
- Highest Entomology score, then
- Highest Plant Disease/Disorder score

Team Scoring

Component	Detail	Points
Sum of Individual Scores	4 Students × 810 Points	3,240
Team Multiple Choice Component	10–15 team multiple-choice questions on a field scenario	60
Grand total		3,300

Team Tiebreakers

In the event of a tie at the team level, teams will be separated by:

- A. Highest Plant & Seed identification team score, then
- B. Highest Entomology team score, then
- C. Highest Plant Disease/Disorder team score

6. Study Resources

Approved study resources

- [UNL CDE Study Materials Folder \(OneDrive\)](#) — Practice materials and examples for this CDE.
- **The following resources are provided for preparing for the Soil Science component**
- [UNL PASSeL– Soil science homepage](#) — UNL Plant & Soil Sciences eLibrary (PASSeL) home — free open lessons on soils and plant science.
- [Soil Biota and Nutrient Cycling](#) — PASSeL lesson on soil organic matter: its composition, origins, and role in nutrient cycling.
- [Soil Biota and Nutrient Cycling](#) — PASSeL lesson 'Soils Part 5: Nitrogen as a Nutrient' — nitrogen's role in soil fertility and plant nutrition.
- [Soil Chemical Properties](#) — PASSeL lesson on soil pH: definition, measurement, factors, and adjustment—a key soil chemical property.
- [Soil Erosion, Conservation, and Water Quality](#) — PASSeL lesson on water and wind erosion: processes, impacts, and conservation practices.
- [Soil Genesis and Development](#) — PASSeL lesson on soil-forming factors that shape soil genesis and development.
- [Soil Genesis and Development](#) — PASSeL lesson on how soil profiles and horizons develop over time.
- [Soil Genesis and Development](#) — PASSeL lesson on soil classification and geography within soil genesis.
- [Soil Physical Properties](#) — PASSeL lesson 'Soils Part 2: Physical Properties of Soil and Soil Water' — texture, structure, density, and water.
- [USDA-NRCS– “From the Surface Down”](#) — USDA-NRCS booklet introducing soil profiles, horizons, and properties—good soil-judging primer.
- [USDA-NRCS– “Web Soil Survey”](#) — USDA-NRCS Web Soil Survey: official soil maps and data by location; identify soil types and properties.

Past Exams

- [Agronomy page on the Nebraska CDEs website](#) — Crop-scouting curriculum and review materials; official handbooks are still under construction.

7. After the Event

Upon the completion of the second CDE session, There will be a brief opportunity for students, teachers and coaches to review the contest material.

During the walkthrough, participants are welcome to ask questions, take notes and photograph specimens.

List of Appendices

- [Appendix A: Plant and Seed Specimen Study List](#)
- [Appendix B: Entomology Specimen Study List](#)
- [Appendix C: Plant Disease/Disorder Specimen Study List](#)
- [Appendix D: Equipment/Machinery Study AND Contest List](#)
- [Appendix E: Insects & Agronomic Disorders Contest List](#)
- [Appendix F: Plant & Seed Specimen Contest List](#)
- [Appendix G: Example Scantron Sheets](#)

Appendix A: Plant and Seed Specimen Study List

Weeds List Conforming to the Weed Science Society of America's standardized name list.			
ID #	Weed Name	Form	Latin Name
101	amaranth, Palmer	plant only	<i>Amaranthus palmeri</i>
102	barnyardgrass	plant or seed	<i>Echinochloa crus-galli</i>
103	bindweed, field	plant or seed	<i>Convolvulus arvensis</i>
104	brome, downy	plant only	<i>Bromus tectorum</i>
105	buckwheat, wild	plant or seed	<i>Fallopia convolvulus</i>
106	carrot, wild	plant or seed	<i>Daucus carota</i>
107	cheat	plant or seed	<i>Bromus secalinus</i>
108	chickweed, common	plant or seed	<i>Stellaria media</i>
109	cocklebur, common	plant or seed as bur	<i>Xanthium strumarium</i>
110	crabgrass, large	plant or seed	<i>Digitaria sanguinalis</i>
111	crownvetch, trailing	plant or seed	<i>Securigera varia</i>
112	dandelion	plant or seed	<i>Taraxacum officinale</i>
113	dock, curly	plant or seed	<i>Rumex crispus</i>
114	dodder	plant or seed	<i>Cuscuta spp.</i>
115	foxtail, giant	plant or seed	<i>Setaria faberi</i>
116	foxtail, green	plant or seed	<i>Setaria viridis</i>
117	foxtail, yellow	plant or seed	<i>Setaria pumila</i>
118	goatgrass, jointed	plant or seed	<i>Aegilops cylindrica</i>
119	groundcherry	plant or seed	<i>Physalis spp.</i>
120	groundsel, cressleaf	plant or seed	<i>Packera glabella</i>
121	hairy galinsoga*New 2025	plant only	<i>Galinsoga quadriradiata Cav.</i>
122	hemlock, poison*New 2025	plant only	<i>Conium maculatum L.</i>
123	horsenettle	plant or seed	<i>Solanum carolinense</i>
124	horseweed (marestail)	plant only	<i>Conyza canadensis</i>
125	jimsonweed	plant or seed	<i>Datura stramonium</i>
126	johnsongrass	plant or seed	<i>Sorghum halepense</i>
127	knapweed, Russian	plant only	<i>Rhaponticum repens</i>
128	knotweed, prostrate	plant or seed	<i>Polygonum aviculare</i>
129	kochia	plant or seed	<i>Bassia scoparia</i>
130	kudzu	plant only	<i>Pueraria montana var lobata</i>
131	lambsquarters, common	plant or seed	<i>Chenopodium album</i>
132	lettuce, prickly	plant or seed	<i>Lactuca serriola</i>
133	mallow, common	plant or seed	<i>Malva neglecta</i>
134	milkweed, common	plant or seed	<i>Asclepias syriaca</i>
135	morning glory	plant or seed	<i>Ipomoea spp.</i>

Weeds List Conforming to the Weed Science Society of America's standardized name list.			
ID #	Weed Name	Form	Latin Name
136	mustard, wild	plant or seed	<i>Sinapis arvensis</i>
137	nightshade, black	plant or seed	<i>Solanum nigrum</i>
138	nightshade, silverleaf	plant or seed	<i>Solanum elaeagnifolium</i> Cav.
139	nutsedge	plant or seed as nutlet	<i>Cyperus</i> spp.
140	oat, wild	plant or seed	<i>Avena fatua</i>
141	onion/garlic, wild	plant or seed	<i>Allium</i> spp.
142	pennycress, field	plant or seed	<i>Thlaspi arvense</i>
143	pigweed, redroot	plant or seed	<i>Amaranthus retroflexus</i>
144	plantain, broadleaf	plant or seed	<i>Plantago major</i>
145	plantain, buckhorn	plant or seed	<i>Plantago lanceolata</i>
146	puncturevine	plant or seed	<i>Tribulus terrestris</i>
147	purslane, common	plant or seed	<i>Portulaca oleracea</i>
148	quackgrass	plant or seed	<i>Elymus repens</i>
149	ragweed, common	plant or seed	<i>Ambrosia artemisiifolia</i>
150	ragweed, giant	plant or seed	<i>Ambrosia trifida</i>
151	sandbur, field	plant or seed	<i>Cenchrus spinifex</i> Cav.
152	shepherd's-purse	plant or seed	<i>Capsella bursa-pastoris</i>
153	sicklepod	plant or seed	<i>Senna obtusifolia</i>
154	smartweed	plant or seed	<i>Persicaria</i> spp.
155	sowthistle	plant or seed	<i>Sonchus</i> spp.
156	spurge, leafy	plant or seed	<i>Euphorbia esula</i>
157	spurge, prostrate	plant only	<i>Euphorbia prostrata</i>
158	sunflower, common	plant or seed	<i>Helianthus annuus</i>
159	tansymustard, pinnate	plant or seed	<i>Descurainia pinnata</i>
160	thistle, bull	plant or seed	<i>Cirsium vulgare</i>
161	thistle, Canada	plant or seed	<i>Cirsium arvense</i>
162	thistle, Russian	plant or seed	<i>Salsola tragus</i>
163	velvetleaf	plant or seed	<i>Abutilon theophrasti</i>
164	waterhemp	plant or seed	<i>Amaranthus tuberculatus</i>

Crops List**Conforming to the United States Department of Agriculture plant database.**

ID #	Crop Name	Form	Scientific Name
201	alfalfa	plant or seed	<i>Medicago sativa</i>
202	barley	plant or seed	<i>Hordeum vulgare</i>
203	bermudagrass	plant or seed	<i>Cynodon dactylon</i>
204	black bean	seed only	<i>Phaseolus vulgaris</i>
205	broccoli	plant only	<i>Brassica oleracea</i> var. <i>italica</i>
206	buckwheat	plant or seed	<i>Fagopyrum esculentum</i>
207	cabbage	plant only	<i>Brassica oleracea</i>
208	canola	plant or seed	<i>Brassica napus</i>
209	cantaloupe	plant or seed	<i>Cucumis melo</i> var. <i>cantalupensis</i>
210	carrot	root provided	<i>Daucus carota</i> L. var. <i>sativus</i>
211	cauliflower	plant only	<i>Brassica oleracea</i> var. <i>botrytis</i>
212	cereal rye	plant or seed	<i>Secale cereale</i>
213	chickpea	seed only	<i>Cicer arietinum</i>
214	chili pepper	plant or seed	<i>Capsicum annum</i>
215	corn	plant only	<i>Zea mays</i>
216	cotton	plant or seed	<i>Gossypium hirsutum</i>
217	cranberry	plant only	<i>Vaccinium macrocarpon</i>
218	cucumber	plant or seed	<i>Cucumis sativus</i>
219	dent corn	seed only	<i>Zea mays</i> var. <i>indentata</i>
220	dry bean	plant only	<i>Phaseolus vulgaris</i>
221	durum wheat	seed only	<i>Triticum durum</i>
222	flax	plant or seed	<i>Linum usitatissimum</i>
223	hops	plant only	<i>Humulus lupulus</i>
224	Kentucky bluegrass	plant or seed	<i>Poa pratensis</i>
225	lentil	plant or seed	<i>Lens culinaris</i>
226	lettuce	plant or seed	<i>Lactuca sativa</i>
227	lima bean	seed only	<i>Phaseolus lunatus</i>
228	oat	plant or seed	<i>Avena sativa</i>
229	onion	plant or seed	<i>Allium cepa</i>
230	orchardgrass	plant or seed	<i>Dactylis glomerata</i>
231	pea	plant or seed	<i>Pisum sativum</i>
232	peanut	plant or seed	<i>Arachis hypogaea</i>
233	pinto bean	seed only	<i>Phaseolus vulgaris</i>
234	popcorn	seed only	<i>Zea mays</i> var. <i>everta</i>
235	potato	plant only	<i>Solanum tuberosum</i>
236	red bean	seed only	<i>Phaseolus vulgaris</i>
237	red clover	plant or seed	<i>Trifolium pratense</i>

Crops List**Conforming to the United States Department of Agriculture plant database.**

ID #	Crop Name	Form	Scientific Name
238	red wheat	seed only	<i>Triticum aestivum</i>
239	rice	plant or seed	<i>Oryza sativa</i>
240	safflower	plant or seed	<i>Carthamus tinctorius</i>
241	sorghum	plant or seed	<i>Sorghum bicolor</i>
242	soybean	plant or seed	<i>Glycine max</i>
243	spinach	plant or seed	<i>Spinacia oleracea</i>
244	squash	plant or seed	<i>Cucurbita pepo</i>
245	strawberry	plant only	<i>Fragaria L.</i>
246	Sudangrass	seed only	<i>Sorghum bicolor</i>
247	sugar beet	plant or seed	<i>Beta vulgaris</i>
248	sugarcane	plant only	<i>Saccharum L.</i>
249	sunflower	plant or seed	<i>Helianthus annuus</i>
250	sweet corn	seed only	<i>Zea mays var. saccharata</i>
251	sweet potato	plant only	<i>Ipomoea batatas</i>
252	sweetclover	plant or seed	<i>Melilotus albus</i>
253	tall fescue	plant or seed	<i>Festuca arundinacea</i>
254	timothy	plant or seed	<i>Phleum pratense</i>
255	tobacco	plant or seed	<i>Nicotiana tabacum</i>
256	tomato	plant or seed	<i>Solanum lycopersicum</i>
257	watermelon	plant or seed	<i>Citrullus lanatus</i>
258	wheat	plant only	<i>Triticum aestivum</i>
259	white bean	seed only	<i>Phaseolus vulgaris</i>
260	white clover	plant or seed	<i>Trifolium repens</i>
261	white wheat	seed only	<i>Triticum aestivum</i>

Appendix B: Entomology Specimen Study List

ID #	Common Name	Latin Names, Order: Family for Possible Specimens	Life Cycle	Economic Impact
11	Alfalfa weevil, adult or larva	<i>Hypera postica</i> , Coleoptera:Curculionidae	C	V
12	Aphid	various species, Hemiptera:Aphididae	I	R
13	Armyworm adult	<i>Pseudaletia unipuncta</i> , Lepidoptera:Noctuidae (true armyworm)	C	IS
		<i>Spodoptera frugiperda</i> , Lepidoptera:Noctuidae (fall armyworm)		
		<i>Spodoptera exigua</i> , Lepidoptera:Noctuidae (beet armyworm)		
14	Armyworm larva	<i>Pseudaletia unipuncta</i> , Lepidoptera:Noctuidae (true armyworm)	C	V
		<i>Spodoptera frugiperda</i> , Lepidoptera:Noctuidae (fall armyworm)		
		<i>Spodoptera exigua</i> , Lepidoptera:Noctuidae (beet armyworm)		
15	Bean leaf beetle, adult	<i>Cerotoma trifurcata</i> , Coleoptera:Chrysomelidae	C	F and V
16	Blister beetle, adult	<i>Epicauta pennsylvanica</i> , Coleoptera:Meloidae (black blister beetle)	C	V
		<i>Epicauta pestifera</i> , Coleoptera:Meloidae (margined blister beetle)		
		<i>Epicauta vittata</i> , Coleoptera:Meloidae (striped blister beetle)		
17	Boll weevil, adult	<i>Anthonomus grandis grandis</i> , Coleoptera:Curculionidae	C	F
18	Chinch bug	<i>Blissus leucoptera</i> , Hemiptera:Lygaeidae	I	R
19	Colorado potato beetle, adult, or larva	<i>Leptinotarsa decemlineata</i> , Coleoptera:Chrysomelidae	C	V
20	Corn Earworm adult	<i>Helicoverpa zea</i> , Lepidoptera:Noctuidae	C	IS
21	Corn Earworm larva	<i>Helicoverpa zea</i> , Lepidoptera:Noctuidae	C	F and V
22	Corn rootworm adult	<i>Diabrotica barberi</i> , Coleoptera:Chrysomelidae (northern)	C	F and V
		<i>Diabrotica undecimpunctata howardii</i> , Coleoptera:Chrysomelidae (southern)		
		<i>Diabrotica virgifera</i> , Coleoptera:Chrysomelidae (western)		
23	Corn rootworm larva	<i>Diabrotica</i> sp., Coleoptera:Chrysomelidae	C	V
24	Cutworm adult	<i>Agrotis ipsilon</i> , Lepidoptera:Noctuidae (black cutworm)	C	IS
		<i>Peridroma saucia</i> , Lepidoptera:Noctuidae (variegated cutworm)		
		<i>Striacosta albicosta</i> , Lepidoptera:Noctuidae (western bean cutworm)		
25	Cutworm larva	<i>Agrotis ipsilon</i> , Lepidoptera:Noctuidae (black cutworm)	C	V
		<i>Peridroma saucia</i> , Lepidoptera:Noctuidae (variegated cutworm)		
		<i>Striacosta albicosta</i> , Lepidoptera:Noctuidae (western bean cutworm)		
26	European corn borer adult	<i>Ostrinia nubilalis</i> , Lepidoptera:Pyralidae	C	IS
27	European corn borer larva	<i>Ostrinia nubilalis</i> , Lepidoptera:Pyralidae	C	F and V
28	Field cricket	<i>Gryllus</i> sp., Orthoptera:Gryllidae	I	F
29	Flea beetle, adult	<i>Chaetocnema pulicaria</i> , Coleoptera:Chrysomelidae (corn flea beetle)	C	V
		<i>Systema blanda</i> , Coleoptera:Chrysomelidae (palestriped flea beetle)		
		<i>Phyllotreta striolata</i> , Coleoptera:Chrysomelidae (striped flea beetle)		
30	Grain weevil, adult	<i>Sitophilus granarius</i> , Coleoptera:Curculionidae (granary weevil)	C	F
		<i>Sitophilus oryzae</i> , Coleoptera:Curculionidae (rice weevil)		
31	Grasshopper	various species, Orthoptera:Acrididae	I	V
32	Green lacewing, adult	<i>Chrysopa</i> sp., Neuroptera:Chrysopidae	C	B
33	Honeybee, adult	<i>Apis mellifera</i> , Hymenoptera:Apidae	C	B
34	Imported cabbageworm, larva	<i>Pieris rapae</i> , Lepidoptera:Pieridae	C	F and V
35	Japanese beetle, adult	<i>Popillia japonica</i> , Coleoptera:Scarabaeidae	C	F and V
36	Lady beetle adult or larva	various species, Coleoptera:Coccinellidae	C	B
37	Leafhopper	<i>Empoasca fabae</i> , Hemiptera:Cicadellidae (potato leafhopper)	I	R
38	Mexican bean beetle, adult or larva	<i>Epilachna varivestis</i> , Coleoptera:Coccinellidae	C	F and V
39	Saltmarsh caterpillar, larva	<i>Estigmene acrea</i> , Lepidoptera:Arctiidae	C	V
40	Spider mite	various species, Trombidiformes:Tetranychidae	I	R
41	Spittlebug	various species, Hemiptera:Cercopidae	I	R
42	Squash bug	<i>Anasa tristis</i> , Hemiptera:Coreidae	I	R
43	Stink bug	various species, Hemiptera:Pentatomidae	I	R
44	Striped cucumber beetle, adult	<i>Acalymma vittatum</i> , Coleoptera:Chrysomelidae	C	F and V
45	Tarnished plant bug	<i>Lygus lineolaris</i> , Hemiptera:Miridae	I	R
46	Thrips	various species, Thysanoptera:Thripidae	I	R
47	Tomato or tobacco hornworm, larva	<i>Manduca</i> sp., Lepidoptera:Sphingidae	C	F and V
48	whitefly	various species, Hemiptera:Aleyrodidae	I	V
49	wireworm, larva	various species, Coleoptera:Elateridae	C	V

Life Cycle key: C (Complete); I (Incomplete). **Economic impact key:** B (Beneficial); F (fruit/flower destruction); V (vegetative part destruction); FV (Fruit/Flower AND Vegetative part destruction); IS (indicator species); R (removal of plant fluids)

Appendix C: Plant Disease/Disorder Specimen Study List

ID#	ITEM	CATEGORIES	ECONOMIC IMPACT	LATIN NAME IF APPLICABLE
NUTRITIONAL DEFICIENCIES: (Shown in Corn, Soybeans, Wheat, or Alfalfa)				
11	Iron (Fe) Chlorosis	Nutritional- E	Damage to Foliage- B	--
12	Nitrogen (N) Deficiency	Nutritional- E	Damage to Foliage- B	--
13	Phosphorus (P) Deficiency	Nutritional- E	Damage to Foliage- B	--
14	Potassium (K) Deficiency	Nutritional- E	Damage to Foliage- B	--
ENVIRONMENTAL DAMAGE: (Shown in any Crop)				
15	Drought Damage	Environmental- C	Damage to Foliage- B	--
16	Frost Damage	Environmental- C	Damage to Foliage- B	--
17	Hail Damage	Environmental- C	Damage to Foliage- B	--
18	Wind Damage	Environmental- C	Damage to Roots/Stem- C	--
SMALL GRAINS: (Shown in Wheat, Oat, Barley or Rye)				
19	Ergot	Fungal- D	Damage to Fruit/Flower- A	<i>Claviceps purpurea</i>
20	Fusarium head blight	Fungal- D	Damage to Fruit/Flower- A	<i>Fusarium graminearum</i>
21	Loose smut	Fungal- D	Damage to Fruit/Flower- A	<i>Ustilago tritici</i>
22	Powdery Mildew	Fungal- D	Damage to Foliage- B	<i>Blumeria graminis</i>
23	Rust	Fungal- D	Damage to Foliage- B	<i>Puccinia</i> (Genus)
24	Wheat streak mosaic virus	Viral- F	Damage to Foliage- B	<i>Tritimovirus</i> (Genus)
CORN/SORGHUM: (Shown in either Corn or Sorghum only)				
25	Charcoal Rot	Fungal- D	Damage to Roots/Stem- C	<i>Macrophomina phaseolina</i>
26	Common Corn Smut	Fungal- D	Multiple- Photo will depict	<i>Ustilago maydis</i>
27	Corn Ear Rot (Aspergillus, Fusarium, Gibberella)	Fungal- D	Damage to Fruit/Flower- A	Various Spp.
28	Corn Stalk Rot (Fusarium, Gibberella)	Fungal- D	Damage to Roots/Stem- C	<i>Fusarium verticillioides</i> , <i>Gibberella zeae</i>
29	Goss's Wilt	Bacterial- A	Damage to Foliage- B	<i>Clavibacter michiganensis</i> subsp. <i>nebraskensis</i>
30	Grey Leaf Spot	Fungal- D	Damage to Foliage- B	<i>Cercospora zea-maydis</i>
31	Northern Corn Leaf Blight	Fungal- D	Damage to Foliage- B	<i>Exserohilum turcicum</i>
SOYBEAN: (Shown only in Soybean)				
32	Bacterial Blight	Bacterial- A	Damage to Foliage- B	<i>Pseudomonas syringae</i> pv. <i>glycinea</i>
33	Bean Pod Mottle Virus (plant or seed)	Viral- F	Damage to Multiple- D	<i>Comovirus</i> (Genus)
34	Frogeye Leafspot	Fungal- D	Damage to Foliage- B	<i>Cercospora soja</i>
35	Purple Stain (seed only)	Fungal- D	Damage to Fruit/ Flower- A	<i>Cercospora kikuchii</i>
36	Soybean Cyst Nematode	Nematodes- G	Damage to Roots/Stems- C	<i>Heterodera glycines</i>
37	Sudden Death Syndrome	Fungal- D	Damage to Multiple- D	<i>Fusarium virguliforme</i>
SUGAR BEETS: (Shown only in Sugar Beets)				
38	Cercospora Leaf Spot	Fungal- D	Damage to Foliage- B	<i>Cercospora beticola</i>
39	Rhizoctonia Root & Crown Rot	Fungal- D	Damage to Roots/Stem- C	<i>Rhizoctonia solani</i>
ALFALFA: (Shown only in Alfalfa)				
40	Common Leaf Spot	Fungal- D	Damage to Foliage- B	<i>Pseudopeziza medicaginis</i>
41	Phytophthora Root Rot	Water Mold- D	Damage to Roots/Stem- C	<i>Phytophthora megasperma</i>
POTATO: (Shown only in Potato)				
42	Late Blight of Potato	Water Mold- D	Damage to Multiple- D	<i>Phytophthora infestans</i>
CHEMICAL: (Shown on any Crop or Weed)				
43	Herbicide (Example will be one of the following)			Product Examples
	HG #4 (Growth Regulators)	Chemical- B	Damage to Roots/Stems- C	Dicamba, 2,4-D
	HG #10, #14, #21 (Various Contact Herbicides)	Chemical- B	Damage to Foliage- B	Liberty, Cobra, Gramoxone
	HG #2, #9 (Amino Acid Synthesis inhibitors)	Chemical- B	Multiple- Photo will depict	Permit (ALS), Roundup
	HG #5-7 (PS 2 Inhibitors)	Chemical- B	Damage to Foliage- B	Atrazine

Appendix D: Equipment/Machinery Study AND Contest List

ID #	Equipment Name
11	Air seeder (tool and air cart together)
12	Anemometer
13	Anhydrous applicator with tank
14	Articulated tractor (wheeled only type tractor)
15	Auger platform head for combine
16	Backpack sprayer
17	Bale wagon (kick or flat)
18	Bed shaper
19	Belt pickup head for the combine
20	Broadcast fertilizer spreader
21	Chemigation unit for irrigation
22	Combine (may be displayed with harvesting head attached)
23	Conveyor/Elevator/Auger
24	Corn head for combine
25	Cotton picker
26	Cotton stripper
27	Rolling harrow
28	Disk
29	Disk chisel
30	Draper head for combine or swather
31	Drawn planter
32	Dry fertilizer density scale
33	Field cultivator
34	Field shovel
35	Forage harvester (with harvesting head attached)
36	GPS receiver
37	Grain bin/leg
38	Grain drill (includes no-till)
39	Grain dryer
40	Gravity wagon
41	Hand hoe
42	Hay merger
43	Hay mower/conditioner (disk, reel/drawn, 3 pt., or self-propelled)
44	Hay rake (reel or wheel)
45	Hearing protection
46	Hitch pin
47	Hydraulic cylinder/hose
48	In-line ripper
49	Integral planter
50	Irrigation - lateral

ID #	Equipment Name
51	Irrigation - traveling gun
52	Irrigation - center-pivot
53	Liquid manure tank/applicator (includes draglines)
54	Manure sampling kit
55	Manure spreader
56	Module builder
57	Moldboard plow
58	Nurse tank trailer
59	Pea harvester
60	Peanut digger
61	Plastic layer
62	Potato harvester
63	PPE (all equipment)
64	Pressure gauge
65	PTO shaft
66	Rotary hoe
67	Round baler
68	Row crop cultivator
69	Row crop tractor (wheeled only tractor)
70	Row independent forage harvester head (kemper head)
71	Skid steer
72	Soil penetrometer
73	Soil probe (for collection of soil sample)
74	Soil sample bag
75	Soil thermometer
76	Specialty tractor (orchard, narrow, low profile, high clearance)
77	Sprayer
78	Sprayer nozzle
79	Square baler (large or small)
80	Strip tiller
81	Sugar beet harvester
82	Swather (drawn or self-propelled)
83	Sweep net
84	Tensiometer
85	Tissue sample bag
86	Tracked tractor (any configuration of tracks on a tractor)
87	Vegetable transplanter
88	Virtual terminal/monitor/controller
89	V-ripper
90	Wheel loader

Appendix E: Insects & Agronomic Disorders Contest List

Insect ID

ID #	Insect Name
11	Alfalfa weevil, adult or larva
12	Aphid
13	Armyworm adult
14	Armyworm larva
15	Bean leaf beetle
16	Blister beetle
17	Boll weevil
18	Chinch bug
19	Colorado potato beetle, adult or larva
20	Corn Earworm adult
21	Corn Earworm larva
22	Corn rootworm adult
23	Corn rootworm larva
24	Cutworm adult
25	Cutworm larva
26	European corn borer adult
27	European corn borer larva
28	Field cricket
29	Flea beetle
30	Grain weevil
31	Grasshopper
32	Green lacewing
33	Honeybee
34	Imported cabbageworm
35	Japanese beetle
36	Lady beetle adult or larva
37	Leafhopper
38	Mexican bean beetle, adult or larva
39	Saltmarsh caterpillar

ID #	Insect Name
40	Spider mite
41	Spittlebug
42	Squash bug
43	Stink bug
44	Striped cucumber beetle
45	Tarnished plant bug
46	Thrips
47	Tomato or tobacco hornworm, larva
48	Whitefly
49	Wireworm, larva

Economic Impact Codes

Code	Economic Impact
A	Beneficial
B	Fruit/Flower Destruction
C	Removal of Plant Fluids
D	Vegetative Part Destruction
E	Indicator Species
F	Multiple: Fruit/Flower & Veg. Part Destruction

Life Cycle Codes

Code	Life Cycle
A	Complete
B	Incomplete

Agronomic Disorders

ID #	Disorder
Deficiencies (Corn, Soybean, Wheat, Alfalfa):	
11	Iron (Fe) Chlorosis
12	Nitrogen (N) Deficiency
13	Phosphorus (P) Deficiency
14	Potassium (K) Deficiency
Environmental Damage (Shown in any Crop):	
15	Drought Damage
16	Frost Damage
17	Hail Damage
18	Wind Damage
Small Grains (Wheat, Oat, Barley, Rye):	
19	Ergot
20	Fusarium head blight
21	Loose smut
22	Powdery Mildew
23	Rust
24	Wheat streak mosaic virus
Corn or Sorghum:	
25	Charcoal Rot
26	Common Corn Smut
27	Corn Ear Rot (Aspergillus, Fusarium, Gibberella)
28	Corn Stalk Rot (Fusarium, Gibberella)
29	Goss's Wilt
30	Grey Leaf Spot
31	Northern Corn Leaf Blight
Soybean:	
32	Bacterial Blight
33	Bean Pod Mottle Virus (plant or seed)

ID #	Disorder
34	Frogeye Leafspot
35	Purple Stain (seed only)
36	Soybean Cyst Nematode
37	Sudden Death Syndrome
Sugar Beets:	
38	Cercospora Leaf Spot
39	Rhizoctonia Root & Crown Rot
Alfalfa:	
40	Common Leaf Spot
41	Phytophthora Root Rot
Potato:	
42	Late Blight of Potato
Chemical:	
43	Herbicide Injury

Agronomic Disorder Agent Codes

Code	Agronomic Disorder Agents
A	Bacteria
B	Chemical
C	Environmental
D	Fungal/Water Mold
E	Nutritional
F	Virus
G	Nematodes

Part of Plant Damaged Codes

Code	Part of Plant Damaged
A	Fruit or Flower
B	Foliage
C	Root or Stems
D	Multiple Components

Appendix F: Plant & Seed Specimen Contest List

Weed ID List

ID #	Weed Name	Form
101	amaranth, Palmer	plant only
102	barnyardgrass	plant or seed
103	bindweed, field	plant or seed
104	brome, downy	plant only
105	buckwheat, wild	plant or seed
106	carrot, wild	plant or seed
107	cheat	plant or seed
108	chickweed, common	plant or seed
109	cocklebur, common	plant or seed as bur
110	crabgrass, large	plant or seed
111	crownvetch, trailing	plant or seed
112	dandelion	plant or seed
113	dock, curly	plant or seed
114	dodder	plant or seed
115	foxtail, giant	plant or seed
116	foxtail, green	plant or seed
117	foxtail, yellow	plant or seed
118	goatgrass, jointed	plant or seed
119	groundcherry	plant or seed
120	groundsel, cressleaf	plant or seed
121	hairy galinsoga	plant only
122	hemlock, poison	plant only
123	horsenettle	plant or seed
124	horseweed (maretail)	plant only
125	jimsonweed	plant or seed
126	johnsongrass	plant or seed
127	knapweed, Russian	plant only
128	knotweed, prostrate	plant or seed
129	kochia	plant or seed
130	kudzu	plant only
131	lambsquarters, common	plant or seed
132	lettuce, prickly	plant or seed
133	mallow, common	plant or seed

ID #	Weed Name	Form
134	milkweed, common	plant or seed
135	morningglory	plant or seed
136	mustard, wild	plant or seed
137	nightshade, black	plant or seed
138	nightshade, silverleaf	plant or seed
139	nutsedge	plant or seed as nutlet
140	oat, wild	plant or seed
141	onion/garlic, wild	plant or seed
142	pennycress, field	plant or seed
143	pigweed, redroot	plant or seed
144	plantain, broadleaf	plant or seed
145	plantain, buckhorn	plant or seed
146	puncturevine	plant or seed
147	purslane, common	plant or seed
148	quackgrass	plant or seed
149	ragweed, common	plant or seed
150	ragweed, giant	plant or seed
151	sandbur, field	plant or seed
152	shepherd's-purse	plant or seed
153	sicklepod	plant or seed
154	smartweed	plant or seed
155	sowthistle	plant or seed
156	spurge, leafy	plant or seed
157	spurge, prostrate	plant only
158	sunflower, common	plant or seed
159	tansymustard, pinnate	plant or seed
160	thistle, bull	plant or seed
161	thistle, Canada	plant or seed
162	thistle, Russian	plant or seed
163	velvetleaf	plant or seed
164	waterhemp	plant or seed

Crop ID List

ID #	Crop Name	Form
201	alfalfa	plant or seed
202	barley	plant or seed
203	bermudagrass	plant or seed
204	black bean	seed only
205	broccoli	plant only
206	buckwheat	plant or seed
207	cabbage	plant only
208	canola	plant or seed
209	cantaloupe	plant or seed
210	carrot	root provided
211	cauliflower	plant only
212	cereal rye	plant or seed
213	chickpea	seed only
214	chili pepper	plant or seed
215	corn	plant only
216	cotton	plant or seed
217	cranberry	plant only
218	cucumber	plant or seed
219	dent corn	seed only
220	dry bean	plant only
221	durum wheat	seed only
222	flax	plant or seed
223	hops	plant only
224	Kentucky bluegrass	plant or seed
225	lentil	plant or seed
226	lettuce	plant or seed
227	lima bean	seed only
228	oat	plant or seed
229	onion	plant or seed
230	orchardgrass	plant or seed

ID #	Crop Name	Form
231	pea	plant or seed
232	peanut	plant or seed
233	pinto bean	seed only
234	popcorn	seed only
235	potato	plant only
236	red bean	seed only
237	red clover	plant or seed
238	red wheat	seed only
239	rice	plant or seed
240	safflower	plant or seed
241	sorghum	plant or seed
242	soybean	plant or seed
243	spinach	plant or seed
244	squash	plant or seed
245	strawberry	plant only
246	Sudangrass	seed only
247	sugar beet	plant or seed
248	sugarcane	plant only
249	sunflower	plant or seed
250	sweet corn	seed only
251	sweet potato	plant only
252	sweetclover	plant or seed
253	tall fescue	plant or seed
254	timothy	plant or seed
255	tobacco	plant or seed
256	tomato	plant or seed
257	watermelon	plant or seed
258	wheat	plant only
259	white bean	seed only
260	white clover	plant or seed
261	white wheat	seed only

[illegible]

Form
A

[illegible]

Agronomic Disorders																										
Identification															Agents							Parts of Plants Damaged				
Sample #:	Example														Bacteria	Chemical	Environmental	Fungal/Water Mold	Nutritional	Virus	Nematodes	Fruit or Flower	Foliage	Roots or Stems	Multiple Components	
	Tens Digit					Ones Digit																				
1	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	A	B	C	D
2	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	A	B	C	D
3	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	A	B	C	D
4	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	A	B	C	D
5	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	A	B	C	D
6	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	A	B	C	D
7	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	A	B	C	D
8	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	A	B	C	D
9	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	A	B	C	D
10	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	A	B	C	D
11	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	A	B	C	D
12	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	A	B	C	D
13	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	A	B	C	D
14	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	A	B	C	D
15	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	A	B	C	D

Insect Identification																								
Identification															Economic Impact							Life Cycle		
Sample #:	Example														Beneficial	Fruit/Flower Destruction	Removal of Plant Fluids	Vegetative Part Destruction	Indicator Species	Multiple: Fruit/Flower and Vegetative Part Destruction	Complete	Incomplete		
	Tens Digit					Ones Digit																		
1	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	A	B	
2	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	A	B	
3	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	A	B	
4	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	A	B	
5	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	A	B	
6	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	A	B	
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9	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	A	B	
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15	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	A	B	

Last Name										First Name									
A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J
K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z

Student ID									
0	0	0	0	0	0	0	0	0	0
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2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9

Nebraska Agronomy CDE
Form B - Page 1
v2023.03

Form
B

Special Codes									
0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9

Weed/Crop — Plant and Seed Identification														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9

Weed/Crop — Plant and Seed Identification														
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9

Age Group	Percentage
18-24	10
25-34	35
35-44	25
45-54	15
55-64	10
65-74	5
75-84	3
85+	2

11111111

[illegible]

Subcommittee

Standing subcommittee for this event

Name	School / Organization	Role
Chad Schimmels	Eustis-Farnam	Chair
Bryson Rader	UNL Agronomy & Horticulture Dept.	Superintendent
Chad Schimmels	Eustis-Farnam	Exec liaison
Boyd Bowder	St. Paul	Member
Amy Soll	Bancroft-Rosalie	Member

What changed — 2024–2028 rev 1 EDITORIAL

October 10, 2026

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