

AGRONOMY CDE (Revised February 2023)

PURPOSE

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

ELIGIBILITY

The participant must be an active member of a chartered West Virginia FFA Chapter and enrolled in grades 9, 10, 11, or 12. Each chapter may enter one team.

EVENT PROCEDURE

The event will be a team event consisting of four students. All 4 team members scores will be calculated in the team total. A team may compete with less than 4 members. FFA members will wear official dress or professional dress as it pertains to the profession.

Under no circumstances will any participates be allowed to handle any of the items in the identification portion of the practicums. Any infraction of this rule will result in team elimination from the event.

No FFA advisors/coaches will be allowed in the area of the contest, but arrangements will be made to view the specimens following the contest.

PRACTICUMS

A general knowledge exam, identification, grain and seed judging practicum, and soils

EVENT MATERIALS

MATERIALS STUDENTS MUST PROVIDE

- Pencils
- Clipboards
- Electronic Calculator



INDIVIDUAL PRACTICUMS

correct identification.

IDENTIFICATION PRACTICUM

CROP/WEED IDENTIFICATION-EVERY YEAR

Crop Identification (30 samples). The student will record the common name (as it appears in the following list) of plant or seed specimens selected from the following groups. Plants will be fresh or mounted specimens. Seed will be either pure samples (in vials) or mixtures. If used in mixtures, the number of seeds will be used in about equal proportions and the number of kinds of seed indicated for each mixture. 4 Points will be awarded for every

PLANT DISORDER IDENTIFICATION-EVERY YEAR

Ten samples will be identified according to category, causal agent and damage location. Refer to the Agronomic Disorders Practicum Scorecard for the category, agent and damage location lists.

INSECT IDENTIFICATION-EVERY YEAR

Ten samples will be identified according to insect name, life cycle, economic impact and mouth part. Refer to the Insect Identification Practicum Scorecard for additional details.

GENERAL KNOWLEDGE EXAMINATION-EVERY YEAR

A 50 multiple choice question exam will be given that covers all areas of the agronomy industry. The test will focus on knowledge and understanding of fundamental crop production. Each question is worth 4 points. Participants will have a maximum of 40 minutes to complete the exam.

Test questions will come from a test bank provided by the contest coordinator.

GRAIN AND SEED JUDGING- EVERY YEAR

Students will be given four classes of grain/seed to judge. In addition they will answer 4-5 questions associated with the judging factors for one or more of the classes. Questions may be true/false and/or multiple choice and will be based upon the factors/criteria used to judge the classes. Classes may include winter wheat, winter barley, oats, shelled corn, soybeans, timothy, red alsike or sweet clover, alfalfa, and buckwheat. 100 POINTS

SKILLS PRACTICUM

SOILS-EVERY YEAR

Each participant will be responsible for answering 20-25 questions for the following activities related to soils:

- Identify various soil structures: web soil survey, custom soil resource report, soil maps.
- Analyze web soil survey data and answer questions related to
- o Relative drainage (e.g., poor, moderate, well).
- o Relative topographic position (e.g., summit, slope, depression).
- o Depth to water table.
- o Frost free period.
- o Identify the USDA land capability classes and answer problem-solving questions related to various classes.
- o Use soil survey to locate specific sites, use of suggested soil spots and questions related to the soil survey map.
- o Interpret graphs and tables of data based on soil parameters.



SCORING

ACTIVITY	INDIVIDUAL POINTS	TEAM POINTS
CROP/WEED IDENTIFICATION	120	480
PLANT DISORDER	100	400
INSECT IDENTIFICATION	100	400
GENERAL KNOWLEDGE EXAM	200	800
GRAIN AND SEED JUDGING	100	400
SOILS	100	400
TOTAL	720	2880

TIE BREAKERS

In the event of a tie in individual scores, the following events will be used in order to determine award recipients:

INDIVIDUAL

1. INDIVIDUAL TOTAL ID SCORE

TEAM

1. TEAM TOTAL ID SCORES

REFERENCES

This list of references is not intended to be all-inclusive. •Other sources may be utilized, and teachers are encouraged to make use of the very best instructional materials available. The following list contains references that may prove helpful during event preparation

National FFA—Past CDE Q&A's,https://www.ffa.org/resources/cde/questions-and-answers



IDENTIFCATION SPECIMEN LIST: Can be plant or seed sample

	CROP and WEED
001.	Flint Corn
002.	Pop Corn
003.	Sweet Corn
004.	White Dent Corn
005.	Yellow Dent Corn
006.	Bearded Wheat
007.	Beardless Wheat
008.	Wheat (seed)
009.	Oats
010.	Barley (seed)
011.	Hooded barley
012.	Bearded barley
013.	Rye
014.	Canada bluegrass
015.	Kentucky bluegrass
016.	Orchardgrass
017.	Perennial ryegrass
018.	Redtop
019.	Reed canarygrass
020.	Sudangrass
021.	Sweet vernal
022.	Tall fescue
023.	Tall meadow oatgrass
024.	Timothy
025.	Velvetgrass
026.	Alfalfa
027.	Alsike clover
028.	Birdsfoot trefoil
029.	Crimson clover
030.	Crownvetch
031.	Hairy vetch
032.	Koren lespedeza

in be plan	t or seed sample
033.	Red clover
034.	Sericea lespedeza
035.	Sweetclover
036.	White clover
037.	Buckwheat
038.	Soybeans
039.	Annual fleabane
040.	Barnyardgrass
041.	Beggers tick
042.	Broadleaf plantain
043.	Broomsedge
044.	Buckhorn plantain
045.	Canada thistle
046.	Cheat or chess
047.	Chicory
048.	Chickweed
049.	Cocklebur
050.	Corn cockle
051.	Crabgrass
052.	Dandelion
053.	Dock
054.	Dodder
055.	Fall panicum
056.	Galinsoga
057.	Goldenrod
058.	Ground Ivy
059.	Giant Ragweed
060.	Green Foxtial
061.	Heal-all
062.	Horse nettle
063.	Ironweed
064.	Jimsonweed
065.	Joy Pye

066.	Johnsongrass
067.	Lambsquarters
068.	Morning Glory
069.	Nutsedge
070.	Oxeye daisy
071.	Peppergrass
072.	Pokeweed
073.	Povertygrass
074.	Pigweed
075.	Purslane
076.	Quackgrass
077.	Ragweed
078.	Smartweed
079.	Sorrel, sheep or red
080.	Spanish Nettle
081.	Speedwell
082.	Three-seeded mercury
083.	Velvet Leaf
084.	Wild Carrot
085.	Wild Mustard
086.	Wild Onion
087.	Yarrow
088.	Yellow Foxtial



ID#	Common	Latin Names, Order: Family for Possible Specimens	Mouth	Economic
11	Name		parts	Impact
11	Alfalfa weevil, adult or larva	Hyperica postica, Coleoptera:Curculionidae		V
12.	Aphid	various species, Homoptera:Aphididae	PS PS	R
12.	Pseudaletia unipuncta, Lepidoptera:Noctuidae (true armyworm)		P3	IX.
13.	Armyworm adult	Spodoptera frugiperda, Lepidoptera:Noctuidae (fall armyworm)	1	
	Armyworm addit	Spodoptera exigua, Lepidoptera:Noctuidae (beet armyworm)	S	l
				S
14.		Pseudaletia unipuncta, Lepidoptera:Noctuidae (true armyworm)	1	
	Armyworm larva	Spodoptera frugiperda, Lepidoptera:Noctuidae (fall armyworm)	_	,,
		Spodoptera exigua, Lepidoptera:Noctuidae (beet armyworm)	С	V
15.	Bean leaf beetle	Cerotoma trifurcata, Coleoptera:Chrysomelidae	С	f &V
16.		Epicauta pennsylvanica, Coleoptera:Meloidae (black blister beetle)		
		Epicauta pestifera, Coleoptera: Meloidae (margined blister beetle)		
	Blister beetle	Epicauta vittata, Coleoptera:Meloidae (striped blister beetle)	С	V
17.	Boll weevil	Anthonomis grandis grandis, Coleoptera:Curculionidae	С	F
18.	Chinch bug	Blissus leucoptera, Hemiptera:Lygaeidae	PS	R
	Colorado			
19.	potato beetle, adult, or larva	Leptinotarsa decemlineata, Coleoptera:Chrysomelidae	C	V
20.	Corn Earworm adult	Helicoverpa zea, Lepidoptera:Noctuidae	S	IS
21.	Corn Earworm larva	Helicoverpa zea, Lepidoptera:Noctuidae	С	F&
				V
		Diabrotica barberi, Coleoptera:Chrysomelidae (northern)		
22.	Corn rootworm adult	Diabrotica undecimpunctata howardii, Coleoptera:Chrysomelidae		
		(southern)	C	F & V
		Diabrotica vergifera, Coleoptera:Chrysomelidae (western)		
23.	Corn rootworm larva	Diabrotica sp., Coleoptera:Chrysomelidae	С	V
		Agrotis epsilon, Lepidoptera:Noctuidae (black cutworm)	1	
24.	Cutworm adult	Peridroma saucia, Lepidoptera:Noctuidae (variegated cutworm)	1	,
		Striacosta albicosta, Lepidoptera:Noctuidae (western bean	S	S
		cutworm)		,
25		Agrotis epsilon, Lepidoptera:Noctuidae (black cutworm)	4	
25.		Peridroma saucia, Lepidoptera:Noctuidae (variegated cutworm)		V
	Cutworm larva	Striacosta albicosta, Lepidoptera:Noctuidae (western bean	C	•
26.	Francisco como le anon e de la	cutworm)	<u> </u>	IS
	European corn borer adult	Ostrinia nubilalis, Lepidoptera:Pyralidae	S	
27.	European corn borer larva	Ostrinia nubilalis, Lepidoptera:Pyralidae	С	F & V
28.	Field cricket	Gryllus sp., Orthoptera:Gryllidae	С	F
		Chaetocnema pulicaria, Coleoptera:Chrysomelidae (corn flea beetle)		
		Systena blanda, Coleoptera:Chrysomelidae (palestriped flea beetle)		.,
29.	Flea beetle	Phyllotreta striolata, Coleoptera:Chrysomelidae (striped flea beetle)	C	V
		Sitophilus granarius, Coleoptera:Curculionidae (granary weevil)		
30.	Grain weevil	Sitophilus oryzae, Coleoptera:Curculionidae (rice weevil)	С	F
31.	Grasshopper	various species, Orthoptera:Acrididae	С	V
32.	Green lacewing	Chrysopa sp., Neuroptera:Chrysopidae	С	В
	_			
33.	Honeybee	Apis mellifera, Hymenoptera:Apidae	CL	B = 8.1/
34.	Imported cabbageworm	Pieris rapae, Lepidoptera:Pieridae	С	F & V
35.	Japanese beetle	Popilla japonica, Coleoptera:Scarabaeidae	С	F & V
I	l		I	Ī



ID#	Common Name	Latin Names, Order: Family for Possible Specimens	Mouth parts	Economic Impact
36.	Lady beetle	various species,	С	В
	adult or larva	Coleoptera:Coccinellidae		
37.	Leafhopper	Empoasca fabae, Homoptera:Cicadellidae (potato leafhopper)	PS	R
38.	Mexican bean beetle, adult or larva	Epilachna varivestis, Coleoptera:Coccinellidae	С	F and V
39.	Saltmarsh caterpillar	Estigmene acrea, Lepidoptera:Arctiidae	С	V
40.	Spider mite	various species, Trombidiformes:Tetranychidae	RS	V
41.	Spittlebug	various species, Hemiptera:Cercopidae	PS	R
42.	Squash bug	Anasa tristis, Hemiptera:Coreidae	PS	R
43.	Stink bug	various species, Hemiptera:Pentatomidae	PS	R
44.	Striped cucumber beetle	ed		F and V
45.	Tarnished plant bug	Lygus lineolaris, Hemiptera:Miridae	PS	R
46.	Thrips	various species, Thysanoptera:Thripidae	RS	V
47.	Tomato or tobacco	Manduca sp., Lepidoptera:Sphingidae	С	F and V
48.	whitefly	various species, Homoptera: Aleryodidae	RS	V
49.	wireworm	various species, Coleoptera:Elateridae	С	V

C (chewing)

CL (chewing-lapping) PS (piercing sucking) RS (Rasping Sucking) S (siphoning)

B (Beneficial)

F (fruit/flower destruction) IS (indicator species)

R (removal of plant fluids)

V (vegetative part destruction)

Agronomic Disorders Practicum Scorecard



		Member Answer	Possible Points	Member Score	Causal Category
1.	Casual Category:	Answer	Points 3	Score	CASUAL
			4		CATEGORY
	Agent:				_
	Part of Plant		3		Biological (B)
2.	Displayed: Casual Category:		3		Cultural (C)
	Agent:		4	+	Environmental (E)
	Part of Plant		3		- ACENTS
	Displayed:		3		AGENTS Bacteria (B)
3.	Casual Category:		3		Chemical (Ch)
	Agent:		4		Compaction (Co) Drought (D)
	Part of Plant		3		Frost damage
	Displayed:				(Fr)
4.	Casual Category:		3		Fungus (Fn)
	Agent:		4		Hail (Ha)
	Part of Plant		3		Heat (Ht)
	Displayed:		_		Insect (I)
5.	Casual Category:		3		Lightning
	Agent:		4] (L)
	Part of Plant		3		Mechanical
	Displayed:				(Me) Moisture
6.	Casual Category:		3		(Mo)
	Agent:		4		Nematodes
	Part of Plant		3		(Ne) Nutritional
	Displayed:				(Nu) Pollution
7.	Casual Category:		3		(P) Sun scald
	Agent:		4		(S) Virus (V)
	Part of Plant		3		Wind damage(W)
	Displayed:		_		- vviila daiilage(vv)
8.	Casual Category:		3		Parts of Plant Displayed
	Agent:		4		Reproductive parts (R)
	Part of Plant		3		Vegetative parts (Ve)
9.	Displayed:		2		Vascular bundles (Va)
J.	Casual Category:		3		More than one (M)
	Agent:		4		
	Part of Plant		3		
10.	Displayed: Casual Category:		3	-	-
<u> </u>			4		-
	Agent: Part of Plant		3		-
	Displayed:		3		
	Displayed.	TOTAL POINTS OF 100 POSSIE	EARNED OUT		

Insect Identification Scorecard

Possible Answers

		Membe	Possible	Member
		r		
		Answer	Points	Score
1.	Identification:		4	
	Economic Impact:		3	
	Mouth Part:		3	
2.	Identification:		4	
	Economic Impact:		3	
	Mouth Part:		3	
3.	Identification:		4	
	Economic Impact:		3	
	Mouth Part:		3	
4.	Identification:		4	
	Economic Impact:		3	
	Mouth Part:		3	
5.	Identification:		4	
	Economic Impact:		3	
	Mouth Part:		3	
6.	Identification:		4	
	Economic Impact:		3	
	Mouth Part:		3	
7.	Identification:		4	
	Economic Impact:		3	
	Mouth Part:		3	
8.	Identification:		4	
	Economic Impact		3	
	Mouth Part:		3	
9.	Identification:		4	
	Economic Impact:		3	
	Mouth Part:	1	3	
10.	Identification:		4	
	Economic Impact:	1	3	
	Mouth Part:	1	3	
		!		

TOTAL POINTS EARNED OUT OF 100 POSSIBLE

Identification

Alfalfa weevil, adult or larva

Aphid

Armyworm adult

Armyworm larva

Bean leaf beetle

Blister beetle

Boll weevil

Chinch bug

Colorado potato beetle, adult or larva

Corn Earworm adult

Corn Earworm larva

Corn rootworm adult

Corn rootworm larva

Cutworm adult

Cutworm larva

European corn borer adult

European corn borer larva

Field cricket

Flea beetle

Grain weevil

Grasshopper

Green lacewing

Honeybee

Imported cabbageworm

Japanese beetle

Lady beetle adult or larva

Leafhopper

Mexican bean beetle, adult or larva

Saltmarsh caterpillar

Spider mite

Spittlebug

Squash bug

Stink bug

Striped cucumber beetle

Tarnished plant bug

Thrips

Tomato or tobacco hornworm

Whitefly

Wireworm

Economic Impact

Must include all options in response

B (Beneficial)

F (fruit/flower destruction)

IS (indicator species)

R (removal of plant fluids)

V (vegetative part destruction)

Mouth parts

C (chewing)

CL(chewing-lapping)

PS (piercing sucking)

RS (Rasping Sucking)

S (siphoning)

Agronomy Form #708-4 Incorrect Marks Correct Mark

Team Name
This sheet is for demonstration and practice only. You must use a real scan sheet for actual competition.

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(9)	9	(9)	9

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- /	Assessments
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5	(A) (B) (C) (D) (E
8	(A) (B) (C) (D) (I
7	(A) (B) (C) (D) (E
8	(A) (B) (C) (D) (E
9	(A) (B) (C) (D) (E
10	(A) (B) (C) (D) (E

	Solutions
11	(A) (B) (C) (D) (E)
12	(A) (B) (C) (D) (E)
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18	A B C D E
19	(A) (B) (C) (D) (E
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General	Know	ledg	je i	Exa	m	
1 (A) (B) (C) (D)	(E)	26	(A)	(B)	(C) (D)
2 (A) (B) (C) (D)	(E)	27	(A)	(B)	(C) (D)
3 (A) (B) (C) (D)	(E)	28	(A)	(B)	(C) (D)
4 (A) (B) (C) (D)	(E)	29	(A)	(B)	(C) (D)
5 (A) (B) (C) (D)	(E)	30	A	(B)	(C) (03
6 (A) (B) (C) (D)	(E)	31	(A)	(B)	(C) (0)
7 (A) (B) (C) (D)	(E)	32	(A)	(B)	(0)	D
8 (A) (B) (C) (D)	(E)	33	(A)	(B)	(C) (D)
9 (A) (B) (C) (D)	(E)	34	(A)	(B)	(C) (D)
10 (A) (B) (C) (D)	(E)	35	(A)	(B)	(C) (D)
11 (A) (B) (C) (D)	(E)	36	A	(B)	(C) (D)
12 (A) (B) (C) (D)	(E)	37	(A)	(B)	(C) (D)
13 (A) (B) (C) (D)	(E)	38	(A)	(B)	(C) (D)
14 (A) (B) (C) (D)	(E)	39	(A)	(B)	(G) (D)
15 A B C D	(E)	40	(A)	(B)	(C) (D)
16 (A) (B) (C) (D)	(E)	41	(A)	(B)	(0)(D)
17 (A) (B) (C) (D)	(E)	42	(A)	(B)	(C)(D
18 A B C D	(E)	43	A	(B)	(D) (0
19 (A) (B) (C) (D)	(E)	44	(A)	(B)	(C) (D)
20 (A) (B) (C) (D)	(E)	45	(A)	(B)	(C) (D)
21 (A) (B) (C) (D)	(E)	46	(A)	(B)	(C) (D)
22 A B C D	(E)	47	(A)	(B)	(C) (D)
23 (A) (B) (C) (D)	(E)	48	A	(B)	(0)	D)
24 A B C D	(E)	49	(A)	(B)	(C)	D
25 (A) (B) (C) (D)	(E)	50	(A)	(B)	(C) (D)

		Insect Identifica	tion		
Sample		Life Cycle	Mouth Parts		
*	3 12 - 4	Example 7 0 1 2 3 4 5 6 6 6 6	vetion struction fulds		950 A A I
	Tens Digit	Ones Digit	None or pradatory FruitFlower destructio Vagetative part destruct Removel of plant fluids	Complete Incomplete None	Chewing-lapping Chewing-lapping Rasping-eucking Plarcing-eucking Sponging Siphoning
1	TO CO CO CO		NP (F) (V) (R)	(C) (D) (N)	(C) CD RS PS So (SI
	(1)(2)(3)(4)	(0) (1) (2) (3) (4) (5) (6) (7) (8) (9)	NB (F) (V) (R)	(C)(I)(N)	(C) CL RS PS Sp SI
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Score 1	Score 2	Score 3	Score 4
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B+	Biological	Cultural	Environmental	Bacteria	Chemical	Compaction	Drought	Frost damage	Fungus	Hall	Heat	Insect	Lightming	Mechanical	Molstura	Nematodes	Nutritional	Pollution	Sun scald	Virus	Wind damage	Reproductive	Vegetative	Vascular Bundle	More than one
1	(B)	(C)	(E)	(B)	Ch	Co	D	E	Fn	Ha	Ht	Œ	(E)	Me	Mo	No	Nu	P	(5)	O	(W)	(R)	Vo	Vn	OM
2	(B)	(C)	(E)	(9)	Ch	Co	(D)	(Fr)	En	His	HE	0	(L)	Me	Mo	Ne	Nu	(P)	(5)	(V)	CWD	(B)	Va	Va	OM
3	(B)	(0)	(E)	(B)	Ch	Co	(11)	(Fr)	Fit	Ha	(Ht)	O	(L)	Ma	Mo	Ne	Nu	(P)	(8)	(V)	W	(B)	Ve	Va	OM
4	(B)	(C)	(E).	(B)	Ch	Ca	(D)	(Fr)	En	His	Ht	O	(E)	Mg	e Mil	Ne	Nu	P	(3)	(V)	(W)	(R)	Va	Va	UM
5	(B)	(C)	(E)	(B)	Chi	Co	(D)	(Fr	Fn	Ha	Ht	0	(E)	Me	Mo	Ne	Nu	(P)	(3)	(V)	(W)	(R)	Va	Va	OM
6	(B)	(D)	(E)	(B)	Ch	Ca	(D)	(Fr)	En	HE	Ht	O	(L)	Ma	Mo	Ne	Nu	(P)	(8)	(V)	(W)	(R)	Va	Ve	(M
7	(B)	(C)	(E)	(B)	Ch	Co	(D)	(Fr)	Fn/	Ha	It	0	(E)	Me	Mo	Ne	Nu	(P)	(8)	(V)	(W)	(R)	Va	Va	3M
8	(B)	(0)	(E)	(B)	Ch	Co	(D)	(Fr)	En	Ha	Ht	0	(L)	Me	Mo	No	Nu	(P)	(8)	(V)	(W)	(8)	Vo	Vn	(M
9	(B)	(C)	(E)	(B)	Ch	Co	(D)	(Fr)	Fn	Ha	HE	0	(L)	Mo	Mo	Na	Nu	(P)	(S)	(V)	(W)	(R)	Ve	Va	(M
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