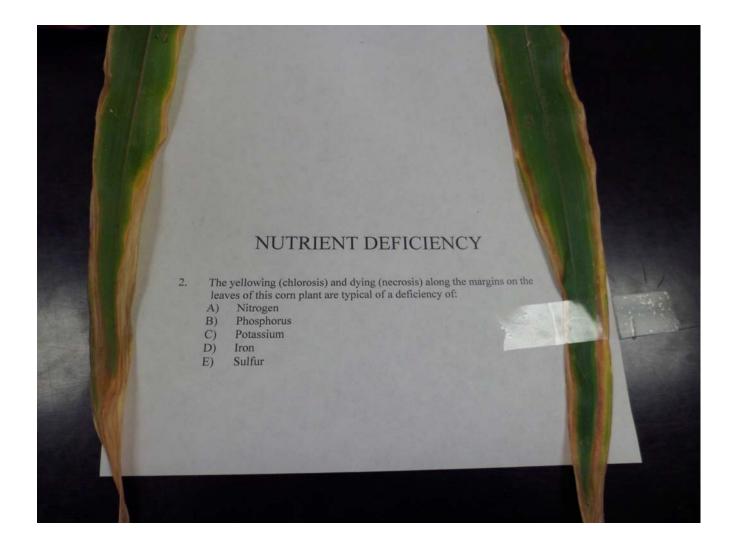
# 2012 FFA CDE Agronomy Lab Practical

Contestant # SC Name	Score
PRINT OR WRITE LEGIBLY (4 points each)	
1. redroot pigweed	20. C) corn rootworm
2. C) potassium	21. field pennycress
3. D) Tb: Tully (eroded)	22. D) two fungicides and one inser
4. F) Liberty Link	23. D) chinch bug
s. E) purple seed stain	24. A
6. E) Phytophthora root rot	25. Sandy clay loam
7. <u>C</u>	26. B
8. D) boot	27. B) Wheat
9. E) 110° and 0.25 GPM	28. B) bean leaf beetle
10. hay baler	29. C. White Clover & E. Soybean
11. yellow foxtail	30. C. spikelet
12. 4 -or- V4	31. ripper -or- subsoiler
13. D) Stomata	32. A) Corn farworm
4. B) barley yellow dwarf virus	33. E) loose smut
15. velvetleaf	34. D) R-1 (silking)
16. B	35. 40
7. F) Cotyledon; Epigeal	36. Soybean
18. Marning	37. 12 hours
19. D) Foundation -> Registered	- Certified

# VEGETATIVE WEED ID

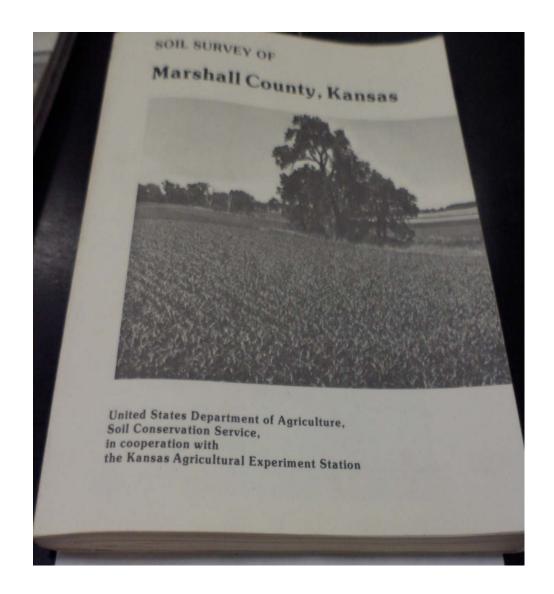


1. This weed is \_\_\_\_\_



### **NUTRIENT DEFICIENCY**

- 2. The yellowing (chlorosis) and dying (necrosis) along the margins on the leaves of this corn plant are typical of a deficiency of:
  - A) Nitrogen
  - B) Phosphorus
  - C) Potassium
  - D) Iron
  - E) Sulfur



# RECTANGULAR SOIL SURVEY and SOIL SERIES

3. What is the dominant soil series or complex that is mapped in the legal land description: W ½ of the SE ¼ of Section 30, T5S, R6E?

(Use Marshall County Soil Survey Map No. 64).

A) Wb: Wymore

B) Kc: Kipson-Sogn

C) Ta: Tully

D) Tb: Tully (eroded)

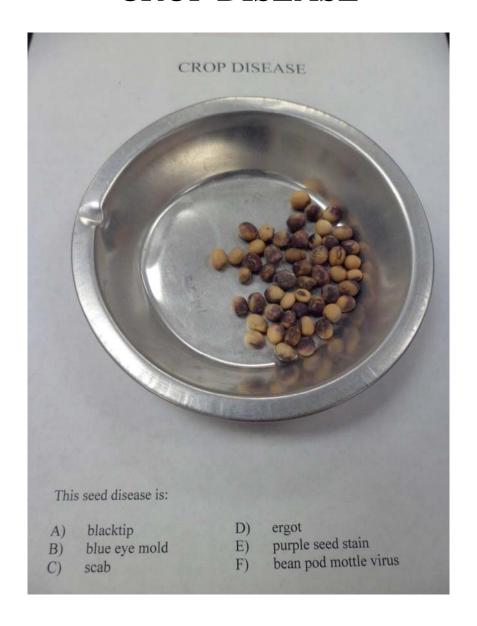


### SEED BAG LABELS

4. The above symbols found on seed bags indicate the presence of herbicide and/or insect resistance traits in the seed. Which indicates crops genetically engineered for <u>glufosinate</u> herbicide resistance?

ANSWER: A, B, C, D, E or F

### **CROP DISEASE**



#### 5. This seed disease is:

- A) blacktip
- B) blue eye mold
- C) scab

- D) ergot
- E) purple seed stain
- F) bean pod mottle virus

### **CROP DISEASE**





#### 6. This soybean disease is:

- A) pod and stem rot of soybean
- B) bacterial blight of soybean
- C) bean pod mottle virus
- D) rust
- E) Phytophthora root rot
- F) purple seed stain of soybean



### **FERTILIZER**

7. Which is of the above fertilizers would be a source of <u>potassium</u>?

ANSWER: A, B, C, or D



### CROP GROWTH AND DEVELOPMENT

- 8. The grain sorghum plants shown here are currently at which of the following growth stages:
  - A) vegetative
  - B) growing point differentiation
  - C) flag leaf emergence
  - D) boot
  - E) fully headed
  - F) half bloom (anthesis)
  - G) physiological maturity



### PESTICIDE APPLICATION

9. Shown above is a flat fan sprayer nozzle tip. At standard 40 psi pressure, the angle of the spray pattern would be \_\_\_\_\_\_ degrees (°) and the nozzle delivery rate would be \_\_\_\_\_\_ gallons per minute (GPM)?

A. 110° and 25 GPM

B. 25° and 11 GPM

C. 110° and 2.5 GPM

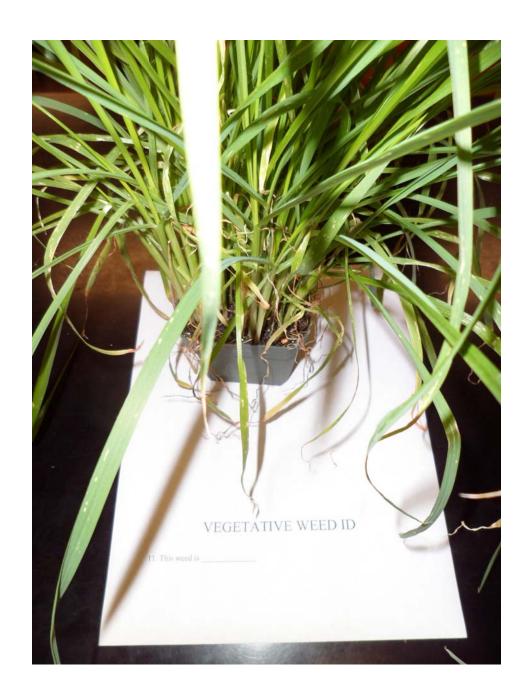
D. 25° and 1.1 GPM

E. 110° and 0.25 GPM

# **EQUIPMENT**



10. This piece of equipment is a (an)



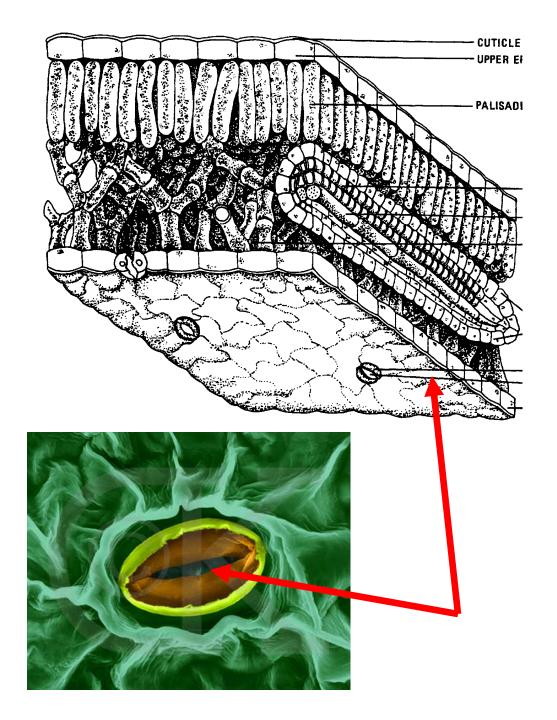
## VEGETATIVE WEED ID

11. This weed is \_\_\_\_\_



### CROP GROWTH AND DEVELOPMENT

12. The numerical vegetative growth stage of this corn plant is V-\_\_\_\_\_.



### PLANT STRUCTURE – LEAF ANATOMY

- 13. The above diagrams show the anatomy of a typical plant leaf. The pore marked by the red arrows that is located in the epidermis of the plant leaf is called the:
  - A) stigma
- D) stomata
- B) stamen
- E) stolon
- C) stipule
- F) sepal

### **CROP DISEASE**







#### 14. This wheat disease is

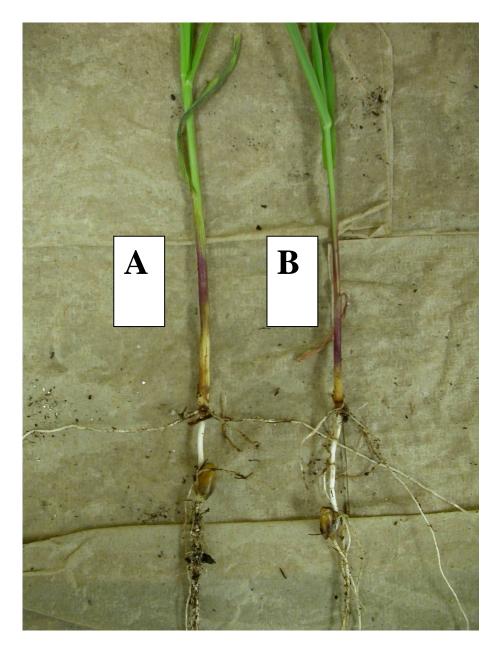
- A) loose smut of wheat
- B) barley yellow dwarf virus
- C) wheat streak mosaic virus
- D) wheat scab
- E) stem rust of wheat
- F) leaf rust of wheat



### VEGETATIVE WEED ID

15. This weed is \_\_\_\_\_

### CROP GROWTH AND DEVELOPMENT



16. Which of the corn seedlings shown above was planted deeper?

ANSWER: A or B

### **CROP STRUCTURE - SEEDLINGS**



- 17. The structure marked by the arrow is called the \_\_\_\_\_;
  The emergence type for these seedling is called \_\_\_\_\_;
  - A) Coleoptile; Hypogeal
  - B) Cotyledon; Hypogeal
  - C) Hypocotyl; Hypogeal
  - D) Endosperm; Hypogeal
  - E) Coleoptile; Epigeal
  - F) Cotyledon; Epigeal
  - G) Hypocotyl; Epigeal
  - H) Endosperm; Epigeal

### HERBICIDE LABEL

This sample label is current as of 11/20/2002. The product descriptions and recommendations provided in this sample label are for background information only. Always refer to the label on the product before using Monsanto or any other agrichemical product.

21154B4-1/CG



#### Complete Directions for Use

EPA Reg. No. 524-445

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS (EXCEPT AS SPECIFIED FOR INDIVIDUAL ROUNDUP READY\* CROPS), DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

Not all products recommended on this label are registered for use in California. Check the registration status of each product in California before using.

Read the entire label before using this product.

Use only according to label instructions.

It is a violation of Federal law to use this product in any manner inconsistent with its labeling

Read the "LIMIT OF WARRANTY AND LIABILITY" statement at the end of the label before buying or using. If terms are not acceptable, return at once unopened.

THIS IS AN END-USE PRODUCT. THIS COMPANY DOES NOT INTEND AND HAS NOT REGISTERED IT FOR REFORMULATION. SEE INDIVIDUAL CONTAINER LABEL FOR REPACKAGING LIMITATIONS

#### 1.0 INGREDIENTS

ACTIVE INGREDIENT:	
*Glyphosate, N-(phosphonomethyl)glycine,	
in the form of its isopropylamine salt	41.0%
OTHER INGREDIENTS:	59.0%
	100.0%

\*Contains 480 grams per litre or 4 pounds per U.S. gallon of the active ingredient glyphosate, in the form of its isopropylamine salt. Equivalent to 356 grams per litre or 3 pounds per U.S. gallon of the acid, glyphosate.

No license granted under any non-U.S. patent(s).

#### 2.0 IMPORTANT PHONE NUMBERS

 FOR PRODUCT INFORMATION OR ASSISTANCE IN USING THIS PRODUCT, CALL TOLL-FREE,

1-800-332-3111

 IN CASE OF AN EMERGENCY INVOLVING THIS HERBICIDE PRODUCT, OR FOR MEDICAL ASSISTANCE, CALL COLLECT, DAY OR NIGHT, (314)-694-4000.

#### 3.0 PRECAUTIONARY STATEMENTS

#### 3.1 Hazards to Humans and Domestic Animals

Keep out of reach of children.

WARNING! AVISO!

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en

detaile. (If you do not understand the label, find someone to explain it to you in detail.)
CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY.

HARMFUL IF SWALLOWED OR INHALED.

Do not get in eyes or on clothing. Avoid breathing vapor or spray mist

Call a poison control center or doctor for treatment advice.
<ul> <li>Hold eye open and rinse slowly and gently with water for 15 - 20 minutes.</li> </ul>
<ul> <li>Remove contact lenses if present after the first 5 minutes then continue rinsing eye.</li> </ul>
<ul> <li>Remove individual to fresh air. If not breathing, give artificial respiration, preferably mouth-to mouth. Get medical attention.</li> </ul>
<ul> <li>This product will cause gastrointestinal tract irritation. Immediately dilute by swallowing water or milk. Get medical attention. NEVER GIVE ANY- THING BY MOUTH TO AN UNCONSCIOUS PERSON.</li> </ul>

- Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
- This product is identified as Roundup Original herbicide, EPA Registration No. 524-445.
- You may also contact (314) 694-4000, collect day or night, for emergency medical treatment information.

DOMESTIC ANIMALS: This product is considered to be relatively nontoxic to dogs and other domestic animals; however, ingestion of this product or large amounts of freshly sprayed vegetation may result in temporary gastrointestinal irritation (vomiting, diar-thea, colic, etc.). If such symptoms are observed, provide the animal with plenty of fluids to prevent dehydration. Call a veterinarian if symptoms persist for more than 24 hours.

#### Personal Protective Equipment (PPE)

Applicators and other handlers must wear: long-sleeved shirt and long pants, shoes plus socks, and protective eyewear.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240 (d) (4-61), the handler PPE requirements may be reduced or modified as specified in the WPS.

#### User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

#### 3.2 Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

#### 3.3 Physical or Chemical Hazards

Spray solutions of this product should be mixed, stored and applied using only stainless steel, aluminum, fiberglass, plastic or plastic-lined steel containers.

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

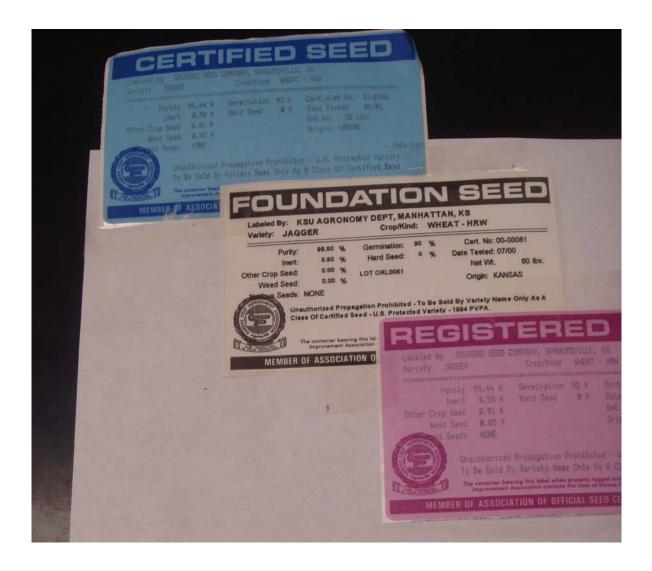
#### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. This product can only be used in accordance with the Directions for Use on this label or in separately published Supplemental Labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through difft. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulations.

1

### SEED BAG LABELS



- 19. Shown are three standard tags that may be found on pedigreed seed regulated by state crop improvement associations. The correct order of generation of production for these three seed classes is:
  - A. Certified → Registered → Foundation
  - B. Foundation → Certified → Registered
  - C. Registered → Certified → Foundation
  - D. Foundation → Registered → Certified
  - E. Certified → Foundation → Registered
  - F. Registered → Foundation → Certified

### **CROP INSECT**





#### 20. This insect is

- A) corn earworm
- B) green cloverworm
- C) corn rootworm
- D) fall armyworm
- E) black cutworm
- F) European corn borer



### **VEGETATIVE WEED ID**

21. This weed is \_\_\_\_\_

### **CORN SEED BAG LABEL**



- 22. The seed protectant (seed treatment) on this hybrid corn seed contains:
  - A. one fungicide
  - B. one insecticide
  - C. one fungicide and one insecticide
  - D. two fungicides and one insecticide
  - E. one fungicide and two insecticides
  - F. five fungicides and two insecticides

# **CROP INSECT**

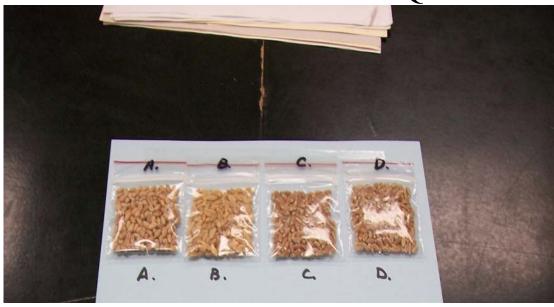




#### 23. This insect is:

- alfalfa weevil lady beetle blister beetle A)
- B)
- C)
- chinch bug aphid lacewing D)
- E)
- F)

**CROP PRODUCTS and CROP QUALITY** 

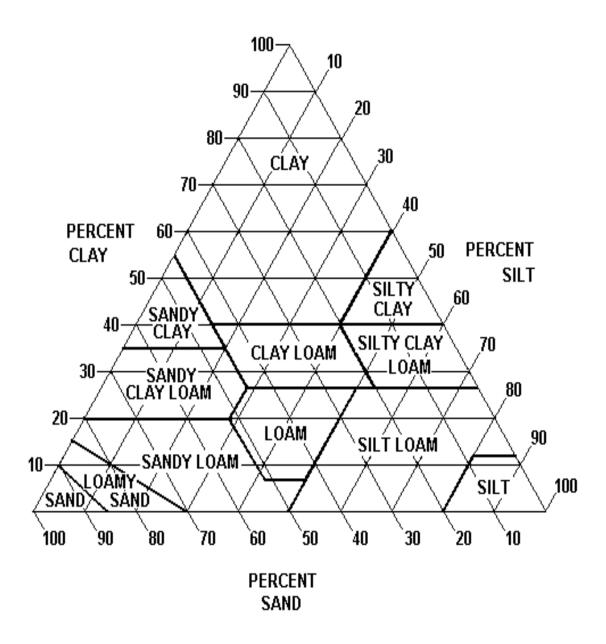




24. Which of the above wheat samples would typically be used to make the food product displayed?

ANSWER: A, B, C, or D

### SOIL TEXTURE



25. The correct soil textural class for a soil with 30 % clay, 10 % silt, and 60 % sand is a  $\_$ \_\_\_\_\_.

### PLANT STRUCTURE – DICOT LEAVES



26. Which of the plants shown have a <u>palmately compound</u> leaf type with <u>alternate</u> leaf arrangement?

Answer: A, B, or C.

### **CROP PRODUCTS**



- 27. What <u>crop</u> is the above feed ingredient made from?
  - A) Corn
  - B) Wheat
  - C) Alfalfa
  - D) Soybean
  - E) Cotton
  - F) Grain Sorghum

### **CROP INSECT**



#### 28. This insect is:

- A) blister beetle
- B) bean leaf beetle
- C) lady bug

- D) chinch bug
- E) stinkbug
- F) corn rootworm adult

### **BASIC CROP SCIENCE**



29. Which of the crops displayed can perform <u>symbiotic nitrogen fixation</u> and therefore the seeds should be <u>inoculated</u> when they are planted.

There may be more than one answer. List all that apply.

- A. Cotton
- B. Grain Sorghum
- C. White Clover
- D. Smooth Bromegrass
- E. Soybean
- F. Sunflower

### PLANT STRUCTURE - GRASS FLOWERS



- 30. The entire structure within the circle is called the:
  - A. glume
  - B. floret
  - C. spikelet
  - D. lemma
  - E. awn (beard)
  - F. palea

# **EQUIPMENT**



31. This piece of equipment is a (an)\_\_\_\_\_

### **CROP INSECT**



#### 32. This insect is

- A) corn earworm
- B) green cloverworm
- C) corn rootworm
- D) fall armyworm
- E) black cutworm
- F) European corn borer

### **CROP DISEASE**



#### 33. This disease of wheat is:

- A) leaf rust
- B) stem rust
- C) blacktip

- D) scab
- E) loose smut
- F) ergot

### CROP GROWTH AND DEVELOPMENT



- 34. The corn plant shown here is currently at which of the following growth stages:
  - A) V-11 (vegetative)
  - B) V-14 (vegetative)
  - C) V-T (tasseling)
  - D) R-1 (silking)
  - E) R-3 (milk stage)
  - F) R-6 (physiological maturity)

### SOIL TEST INTERPRETATION

	ucer: Willie W	MATION:				7		Date:	4/30/12			- 1							
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City, St.	ate: Manhatta	in, KS				100		700				_		Phosphoru	Shum P Sufficien	and K	Recon	nmand	ations Sees
County	Riley	Tillage: Lime Incorporation Depth (In):								you during	*								
Mast enter to	it county name			Region	n: Northeast			Irrigation:	1	Years	to build soil t	lest:		Broy P1 Soil Yest	40	80	120 120	160	200
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-	24	Gra	in Sorghum	80	-						Whe	eat		Crop.	- 61	0.9	0.0	91	51
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	1 10112 10	pri	Buffer pH	%	or profile)"	ppm	Ext. K	Zn ppm	Fe ppm	ppm	ppm	ppm		Phosph					rghum Reco
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														Soil 1		40	- 1b1	20	200
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														10	115	50		82	114
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Use the results provided on the above Soil Test Report for soil phosphorus level (ppm) and the K-State Fertilizer Recommendation booklet provided to answer this question.

35.	The Phosphorus Sufficiency Re	ecommendation for	Grain Sorghum wi	ith a
	yield goal of 80 bushels per acr	e is	$_{\rm ounds}$ pounds $P_2O_5$	per acre

### **BASIC CROP SCIENCE**



36. Which of the above crop seeds would be <u>most sensitive to damage</u> to its germination potential during rough handling, augering and transporting?

Answer: identify the seed

### HERBICIDE LABEL

