

# Seed Tag Placement

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## What is the purpose of the seed tag?

Seed lot quality is a primary consideration when planning a crop and purchasing seed. Purity and potential germination are important factors in seed lot quality that directly impact establishment and stand as well as the subsequent harvest. To ensure producers have access to accurate seed lot quality information, seed laws exist at the state and federal levels requiring that specific information be made readily available to the purchaser in the form of a seed label. A purchaser can evaluate the information on the tag to make purchasing decision.

**Fig. 1.** Example seed tag of an accurately labeled red clover seed lot offered for sale in Kentucky.

RED CLOVER		TEST	ORIGIN
(VARIETY UNKNOWN)		DATE	
INGREDIENTS		1/06	OR
99.89 % PURE SEED	80% GERMINATION		
.02 % OTHER CROP	+10% HARD SEED		
.07 % INERT MATTER	90% TOTAL GERMINATION		
.02 % WEED SEEDS			
		AMSS35	
NOXIOUS WEED SEEDS: NONE FOUND			
Pre-inoculated with Dormal Lot A018CP01Q207			
SKU# 02111580	SOUTHERN STATES COOP, INC.		
LOT# 5.B222.N	CROP DIVISION		
	P.O. BOX 26234		
NET WEIGHT: 50 LBS/22.7 KG	RICHMOND, VA 23260		



**Fig. 2.** Example of a seed tag with missing information offered for sale in Kentucky.

919-30 ALFALFA					
MATERIAL #	204915	DATE TESTED: Jan-06			
BATCH #	1625325				
	PURITY	GERM	HS	TTL	ORIGIN
RENO ALFALFA	79.90%	81%	4%	85%	ID
TAHOE ALFALFA	19.98%	81%	4%	85%	NV
CROP:	0.01%				
INERT:	0.10%				
WEEDS:	0.01%				
NOXIOUS:	0.00%				
NET WEIGHT: 50#(22.68 KG)					

## What information is required on a label?

In Kentucky (and most states), Seed Kind, Variety, Lot Number, Seedsman, Origin, Test Date, Purity, Noxious Weeds, Germination, and Treatment Statement are required on the label. Each of these items provides valuable information to the purchaser.

**Seed Kind** refers to the crop seed in the bag. Seed kind choice will depend on the site and intended use. Given the intentions, a mixture may be best.

**Variety** is a selection of a seed kind that has specific characteristics. In Kentucky, specialists perform field trials to determine which varieties perform best in our area. These suitable varieties are called 'adapted varieties'.

**Lot Number** is unique numbers and/or letters that identifies a batch of seed.

**Seedsman** (person or company labeling the seed) must have their name and address on the tag. They must also be registered in Kentucky and are responsible for the quality of the seed in the bag.

**Origin** is the state or country where the seed was grown.

**Test Date** identifies when the seed was tested for purity and germination. Seed viability declines with age, so a recent test date is important. In Kentucky, seed must be tested every nine (9) months.

### Purity Analysis

**Pure Seed** identifies the seed in the bag. This is what is wanted and being paid for, so the higher, the better.

**Inert Matter** is non-seed materials – chaff, stones, dirt, plant parts– found in the seed lot. A low percentage is best.

**Crop Seed** refers to other crop kinds present. (Bluegrass in a bag of orchardgrass seed, for example). Usually, a low percentage of other crop seed is desirable.

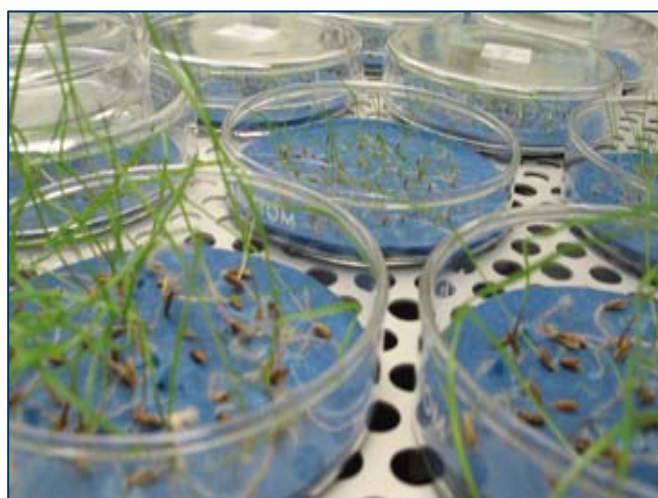
**Weed Seed** includes weeds in the bag. Examples include goosegrass, henbit, chickweed and most other common weeds. A low percentage is best – if you have weed problems already, you certainly don't want to plant more!



**Noxious Weed Seed** identifies the few weed seeds that are so undesirable that they are restricted by law. There are 2 classes of noxious weeds – restricted and prohibited. Restricted noxious weeds (sorrel or wild onion for example) are allowable in small amounts. Prohibited seed cannot be present in a lot (quackgrass or Canada thistle, for example). There are federal noxious weeds and each state determines its own noxious weeds. Kentucky's are:

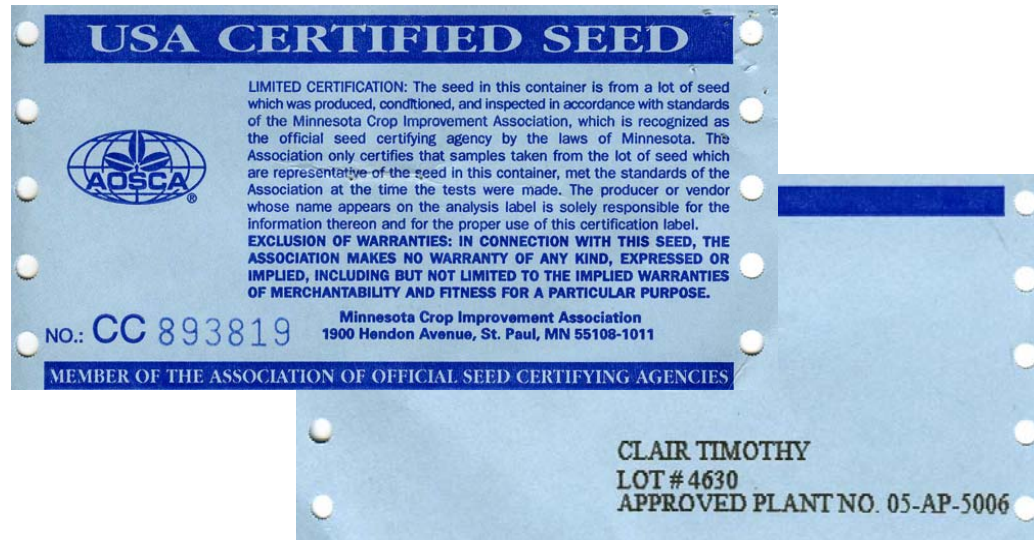
<b>Restricted Noxious Weeds</b> <ul style="list-style-type: none"> <li>● Annual Bluegrass</li> <li>● Buckhorn Plantain</li> <li>● Corncockle</li> <li>● Dodder</li> <li>● Giant Foxtail</li> <li>● Ox-eye Daisy</li> <li>● Wild Onion/Garlic</li> <li>● Sorrel</li> </ul>	<b>Prohibited Noxious Weeds</b> <ul style="list-style-type: none"> <li>● Balloonvine</li> <li>● Canada Thistle</li> <li>● Johnsongrass</li> <li>● Purple Moonflower</li> <li>● Quackgrass</li> </ul>
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**Germination** is the percentage of seed that should germinate in the field. A high value is best. Total germination (or total viable) may be found on the tag and will be the sum of germination plus any hard or dormant seed.



## What is Certified Seed?

Certified Seed goes through rigorous field inspections and must meet specific quality standards. Although sometimes more expensive, purchasing certified seed ensures the producer of varietal purity as well as high quality seed. Kentucky Seed Improvement Association (KSIA) is the certifying agency in Kentucky.



## How are the tag values determined?

Laboratory tests are conducted to provide purity and germination information used by seed producers for labeling purposes. Testing protocols are proscribed in the Association of Official Seed Analysts' (AOSA) Rules for Testing Seeds or International Seed Testing Association's (ISTA) International Rules for Seed Testing. A purity analysis is a physical separation of the materials found in a sample. A specific weight of seed is analyzed and classified into pure seed, inert matter, weed seed and other crop seed as well as any noxious weed seed. A standard germination test is a direct evaluation of successful germination of the pure seed component under controlled laboratory conditions which correlates well to establishment under favorable field conditions.

## Is seed offered for sale monitored?

Regulatory Services, a department of UK's College of Agriculture, administers a regulatory program to protect the seed industry and consumers through inspection and analysis of seed products in the marketplace. The seed program ensures compliance with the law by inspecting facilities and

sampling seed offered for sale throughout the state. Inspectors sample seed lots and submit those for analysis. Laboratory analyses of official samples are compared to label guarantees to verify that the label is accurate and that seed quality meets a minimum standard. Seed lots not in compliance are restricted from sale until the violation is corrected. Approximately 2500-3000 samples of many seed kinds are tested for regulatory purposes each year in Kentucky.

**How can I get more information?**

To ask questions about seed regulation and testing, contact our office via email at [seed.program@uky.edu](mailto:seed.program@uky.edu).

University of Kentucky

Division of Regulatory Services

103 Regulatory Services Building

Lexington, KY 40546-0275

Laboratory tours can be arranged for groups interested in learning more about seed in Kentucky, (859) 218-2468.



## Seed Tags: What they reveal.

The Kentucky Seed Law requires labeling of all agricultural seeds sold, offered or exposed for sale in bulk or a container of one pound or more (tobacco, one-twelfth ounce or more). This labeling is accomplished by attaching an analysis tag or label to each bag or container, stating the following: Kind and variety of crop seed in the container, name and address of the person labeling the seed, where the seed was grown, and a lot number or other lot identification.

The label must also show the quality of the seed as determined by analyzing and testing a sample taken from the lot. The analysis information on the tag or label includes the percentages of pure seed, crop seed, weed seed, inert matter, germination, and hard seed. The month and year the germination test was made and the name and number per pound of weed seed designated noxious in Kentucky must also be shown on the label.

An example of a seed tag is shown below and an explanation of each item on the tag follows:

<b>UK</b> UNIVERSITY OF KENTUCKY College of Agriculture Division of Regulatory Services		Official Kentucky Tag Not good for more than 50 lbs.
Form A — For Unmixed Alfalfa, Clovers or Grasses		
Lot: 1234	Net Weight: 50 lbs.	
<b>Kind: Tall Fescue</b>	<b>Variety: Johnstone</b>	
Pure Seed: 99.4 %	Germination: 94 %	
Inert Matter: 0.55 %	Hard Seed: 0 %	
Crop Seed: 0.03 %	Date Tested (mo./yr.): 3/2013	
Weed Seed: 0.02 %	Origin: KY	
Noxious Weed Seed per pound: Name and Number per pound		
Big Blue Seed Co. 2012 National Champion Drive, Sweet, KY 11111 <i>An Equal Opportunity University</i>		

**KIND AND VARIETY** - The kind and variety of crop seed in the container, the proportion of which is indicated by the percentage of pure seed. For example, the illustrated analysis tag shows 99.40% pure seed which means that 99.40% of the contents of the container is Johnstone Tall Fescue; the remainder, 0.60%, is not and in actuality is worthless to the purchaser.

Determine the kind and variety of seed you wish to plant and make certain that you get what you want (read the tag). For maximum yields, only those varieties that are adapted, disease-resistant, and

recommended for your locality should be planted. Seed stock of known origin and performance should be used in fulfilling this requirement. It is best to avoid planting mixtures unless you have a specific reason to do so. The best source of planting seed is one of the classes of certified seed, such as registered or certified. At any rate, planting seed stock should not be too far removed from the breeder. If you have questions as to what variety, and perhaps kind, you should consult your county Extension agent for agriculture.

**LOT IDENTIFICATION** - A number or other identification used primarily by the seedsman, seed dealer, and seed law administrators as a means of identification. The lot number is of no particular significance other than for identification and has no relationship to the quality of the seed as determined by reading the tag unless one has knowledge of the particular lot. It does facilitate tracing a lot of seed from the consumer to the producer. One should choose a simple system and not repeat the series of lot designations more often than every 3 years.

**PURE SEED** - Percent of the **KIND** and **VARIETY** named on the tag or label. When two or more are present, each in excess of 5% of the whole, the kind and variety of each, together with their percentages, will appear on the tag or label. A **HIGH** percentage of pure seed is desirable.

**INERT MATTER**-Seed-like structures from both crop and weed plants and other materials not seeds such as dirt, chaff, stones, stems, leaves, pieces of broken seeds one-half or less than the original size, nematode galls, and fungus bodies such as ergot. Amount present is expressed as a percentage. A **LOW** percentage is desirable.

**CROP SEED**-Seeds of plants grown as crops, other than the kind and variety named on the tag. Presence is indicated in percentage of the whole. A **LOW** percentage, preferably none, is desirable.

**WEED SEED**-Seeds, bulblets, or tubers of plants recognized as weeds by laws, official regulations, custom, or general usage. Their presence is expressed as a percentage. A **LOW** percentage,



preferably none, is desirable. The Kentucky Seed Law prohibits the sale of seed containing more than 2% weed seed.

**GERMINATION** Percent of the PURE SEED that germinate and thus are capable of producing a normal plant under favorable field conditions. On the example analysis tag, the germination percentage of 94.00% means that 94% of the pure seed (in this case 99.40%) will germinate under favorable conditions and produce normal plants in the field. The values on the tag reveal that 93.44% (99.40% pure seed x 94% germination) of the total weight of this lot of seed has the potential of producing normal Johnstone. Tall Fescue plants in the field. The planting value, pure-live seed (percent germination x percent pure seed) of any seed lot may be this manner. The Kentucky Seed Law (Regulation) prohibits the sale of uncertified seed unless the sum of the germination plus hard seed: percentage is 60% or more. Standards of germination for certified seed are established by the Kentucky Seed Improvement Association.

**HARD SEED**-Percent of the pure seed that are viable (alive) but do not germinate during the prescribed test period because they do not absorb water owing to impermeability of the seed coat. Most hard seeds eventually germinate and produce a plant. Hard seeds extend the germination over a longer period of time, which may or may not be an advantage. Hard seeds are undesirable when immediate germination is required. Conversely, the presence of hard seeds would be desirable when an extended germination period will increase the chances of a stand. The sum of the germination and hard seed percentages is the total value of the seed lot with respect to plant-producing potential. Hard seed are common in the Legume family (clovers, beans, etc.), the Mallow family (okra, cotton), and certain tree and shrub seeds. The Kentucky Seed Law (Regulation) prohibits inclusion of hard seed in the germination percentage. Percentages of germination and hard seed must be reflected separately on the analysis tag.

**DATE OF TEST**- The month and year the germination test was made. Generally, the germinating or plant-producing ability of seed declines with age. Consequently, one should hesitate to purchase or plant seed with an old test date. The test should be fairly recent; the more recent the better. The Kentucky Seed Law (Regulation) prohibits the sale of seed with a test date older than 9 months.

**ORIGIN (WHERE GROWN)** -The state or county in which the seeds were grown (produced). If the place of origin is not known, this fact must be stated on the analysis tag. Origin is of particular importance in certain kinds of seeds since many varieties are adapted to the climatic conditions of only a particular area. These varieties will not perform; indeed, they may not survive outside their area of adaptation. Alfalfa, red clover, white clover, timothy, open pollinated corn, and forest tree seeds are examples. Some varieties are susceptible to diseases that are prevalent in areas outside the area of production, thus restricting their distribution. Use of seed of non-adapted kinds, varieties or types of crops may result in severe economic loss and perhaps complete crop failure. Only those varieties that are recommended or proven in your area should be planted. If you have doubts, see your county Extension agent for agriculture.

**NOXIOUS WEED SEED** -Seeds, bulblets, or tubers of plants that reproduce by seeds, bulblets, or tubers and/or spread by underground roots or stems. Such plants are detrimental to the agriculture of this state, are particularly objectionable in lawns and gardens, and are difficult to control by ordinary good cultural practices when established. Presence of noxious weed seed is indicated on the tag or label by name and number of weed seed per pound of seed. Seed containing no noxious weed seed is most desirable.

Seeds designated noxious in Kentucky and their permitted rate of occurrence per pound of agricultural seed are:

<b>Name of Kind</b>	<b>Allowed Per Pound</b>
Balloon vine ( <i>Cardiospermum halicacabum</i> )	0
Purple moonflower ( <i>Ipomoea turbinata</i> )	0
Canada thistle ( <i>Cirsium arvense</i> )	0
Johnsongrass ( <i>Sorghum halepense</i> and <i>sorghum almum</i> ) and perennial rhizomatous derivatives of these)	0
Quackgrass ( <i>Agropyron repens</i> )	0
Annual bluegrass ( <i>Poa annua</i> )	256
Buckhorn plantain ( <i>Plantago lanceolata</i> )	304
Corncockle ( <i>Agrostemma githago</i> )	192
Dodder ( <i>Cuscuta</i> spp.)	192
Giant foxtail ( <i>Setaria faberii</i> )	192
Oxeye daisy ( <i>Chrysanthemum leucanthemum</i> )	256
Sorrel ( <i>Rumex acetosella</i> )	256
Wild onion and wild garlic ( <i>Allium</i> spp.)	96

SEEDSMAN - The name of the person, company, or corporation labeling the seed. The address must also be shown. The seedsman may or may not be the same as the person offering the seed for sale in retail or wholesale outlets. The person who exposes for sale, offers for sale, or sells seed is responsible for insuring that analysis tags or labels are attached to each bag or container offered for sale in his warehouse or place of business. It is also his responsibility to make certain the germination test date is current. The person, company, or corporation whose name appears on the tag or label is the source of the information on the tag or label and is responsible for any and all such information.

**KNOW WHAT YOU SOW-Read The Tag Attached To The Bag!**

## Guide for Seed Tag Placement

This guide has been developed to provide information on the relative importance of various characteristics listed on a seed tag. The relative weights assigned will vary somewhat from crop to crop and hence these provide only a general guide. Other factors will often have to be used to differentiate between seed lots

<b>Variety</b> Adapted** - certified                      5 Non-adapted – certified                      3 Adapted – non-certified                      3 Non-adapted – non-certified                      1 Not identified                      0	<b>Purity</b> 99-100%                      5 98-98.99%                      4 95-97.99%                      3 90-94.99%                      2 80-89.99%                      1 Below 80%                      0
<b><u>Germination and Hard Seed</u></b> 95-100%                      5 90 – 94%                      4 80 – 89%                      3 70-79%                      2 60-69%                      1 Below 60%                      0	<b><u>Test Date</u></b> Within 9 months                      5 Older than 9 months                      0
<b><u>Origin</u></b> Kentucky                      5 Other State                      3 Other Country                      1	<b><u>Noxious Weeds</u></b> None Present                      5 Present                      0
<b><u>Crop Seed</u></b> 0.00-0.10%                      5 0.11-0.25%                      4 0.26-0.50%                      3 0.51-1.00%                      2 Above 1.00%                      1	<b><u>Weed Seed</u></b> 0.00-0.10%                      5 0.11-0.25%                      4 0.26-0.50%                      3 0.51-1.00%                      2 Above 1.00%                      1

\*\* Adapted varieties have been tested in the University of Kentucky Variety Tests for at least two years and have had above average performance (yield, disease resistance, etc...)

## List of Adapted Varieties

Red Clover	Lakeland	Acclaim	Atlas	Kenstar
	Kenland	Redman	Cinnamon	Redland II
	Renegade	Reddy	Concord	
Tall Fescue	KY 31	Cochise	Forager	Falcon
	Bounty	Cattle Club	Johnstone	Mowless
	Confederate	Rebel	Finelawn	Phyter
	Fawn	Kenhy	Winchester	Shenandoah
	Astro 2000	Brightstar	Stargrazer	Triathalawn
	Orygum	Guardian	Crossfire	Duke
	Dixie Green	Finelawn, petite		
Orchardgrass	Potomac	Comet	Hallmark	Crown
	Shiloh	Amba	Penlate	Benchmark
	Lully	Boone	Sterling	Oxford
	Warrior			
Wheat	Branson	Clark	Wakefield	Coker 9803
	Cardinal	Madison	Vern	Freedom
	Bannor	Becker	Sawyer	Caldwell
	Pacer	Aurther	Grant	

\*\*\* The above seed kinds are required by the Kentucky Seed Law and Regulations to have a variety statement or the words “Variety Unknown” on the label and MAY NOT be labeled “Variety Not Stated.” \*\*\*

# Seed Tag Placement

## Rules of Thumb



Low Weed/Crop/Inert

High Pure Seed/Germination

Complete Tag

Certified Seed

Recent Test Date  
(within 9 months)

Named Variety



**Noxious Weeds**  
(especially prohibited – presence  
of these is always a 'deal-breaker')

Low Pure Seed/Germination

Missing Information  
(no variety, no lot #, no  
seedsman)

Low Hard/Dormant Percentage

Old Test Date

'Unknown' Variety

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# Seed Tag Placement

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## Practice Sets

**The sample tags are based on the premise that the current date is May 2013.**



Form A – For Unmixed Alfalfas, Clovers or Grasses			
Lot: 1-06		Pears's Seed Company	
		Seedsman	
		Pikeville, KY	
		Address	
Red Clover		Kenstar	
Kind		Variety	
Pure Seed	92.70 %	Germination	90%
Inert Matter	0.50 %	Hard Seed	2%
Crop Seed	6.40 %	Date of Test	December, 2012
Weed Seed	0.40 %	Where Grown	Canada

## Noxious Weed Seeds

If present, number per pound

Annual Bluegrass (*Poa annua*)  
 Buckhorn Plantain (*Plantago lanceolata*)  
 Corncockle (*Agrostemma githago*)  
 Dodder (*Cuscuta sp.*)  
 Giant Foxtail (*Setaria faberii*)  
 Ox-eye Daisy (*Chrysanthemum leucanthemum*)  
 Sorrel (*Rumex acetosella*)  
 Wild Onion & Wild Garlic (*Allium sp.*)

Form A – For Unmixed Alfalfas, Clovers or Grasses			
Lot: 2-06		Pear's Seed Company	
		Seedsman	
		Park City, KY	
		Address	
Red Clover		Unknown	
Kind		Variety	
Pure Seed	98.0%	Germination	50%
Inert Matter	0.10%	Hard Seed	44%
Crop Seed	0.95%	Date of Test	February, 2013
Weed Seed	0.95%	Where Grown	Nebraska

## Noxious Weed Seeds

If present, number per pound

Annual Bluegrass (*Poa annua*)  
 Buckhorn Plantain (*Plantago lanceolata*)  
 Corncockle (*Agrostemma githago*)  
 Dodder (*Cuscuta sp.*)  
 Giant Foxtail (*Setaria faberii*)  
 Quackgrass  
 Sorrel (*Rumex acetosella*)  
 Wild Onion & Wild Garlic (*Allium sp.*)

Form A – For Unmixed Alfalfas, Clovers or Grasses			
Lot: 3-06		Peach's Seed Company	
		Seedsman	
		PeeWee, KY	
		Address	
Red Clover		Not Stated	
Kind		Variety	
Pure Seed	96.8%	Germination	90%
Inert Matter	0.95%	Hard Seed	0%
Crop Seed	2.15%	Date of Test	July, 2012
Weed Seed	0.10%	Where Grown	Kentucky

## Noxious Weed Seeds

If present, number per pound

Annual Bluegrass (*Poa annua*)  
 Buckhorn Plantain (*Plantago lanceolata*)  
 Corncockle (*Agrostemma githago*)  
 Dodder (*Cuscuta sp.*)  
 Giant Foxtail (*Setaria faberii*)  
 Ox-eye Daisy (*Chrysanthemum leucanthemum*)  
 Sorrel (*Rumex acetosella*)  
 Wild Onion & Wild Garlic (*Allium sp.*)

Form A – For Unmixed Alfalfas, Clovers or Grasses			
Lot: 4-06		Pawpaw's Seed Company	
		Seedsman	
		Princeton, KY	
		Address	
Red Clover		Certified Kenstar	
Kind		Variety	
Pure Seed	98.9%	Germination	62%
Inert Matter	0.10%	Hard Seed	34%
Crop Seed	0.51%	Date of Test	April, 2013
Weed Seed	0.49%	Where Grown	Kentucky

## Noxious Weed Seeds

If present, number per pound

Annual Bluegrass (*Poa annua*)  
 Buckhorn Plantain (*Plantago lanceolata*)  
 Corncockle (*Agrostemma githago*)  
 Dodder (*Cuscuta sp.*)  
 Giant Foxtail (*Setaria faberii*)  
 Ox-eye Daisy (*Chrysanthemum leucanthemum*)  
 Sorrel (*Rumex acetosella*)  
 Wild Onion & Wild Garlic (*Allium sp.*)  
 Canada Thistle (*Cirsium arvense*)

Score: \_\_\_\_\_

**Seed Tag Placement – Class I**

Red Clover Seed Lots

1st	2nd	3rd	4th

Reasons for placing tag # \_\_\_\_\_ over tag # \_\_\_\_\_

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Reasons for placing tag # \_\_\_\_\_ over tag # \_\_\_\_\_

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Reasons for placing tag # \_\_\_\_\_ over tag # \_\_\_\_\_

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Reasons for placing tag # \_\_\_\_\_ over tag # \_\_\_\_\_

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**Violations of the Kentucky Seed Law**

For each of the seed tags, list all violations for that lot. (Tags may have multiple violations or no violations.) If the tag has no violations, write in “No Violations” for that seed lot.

Tag

#1

#2

#3

#4

Name: \_\_\_\_\_

Form A – For Unmixed Alfalfas, Clovers or Grasses			
Lot: 2-05		Waterside Seed Company	
		Seedsman	
		Water, KY	
		Address	
Tall Fescue		Kentucky 31	
	Kind	Variety	
Pure Seed	93.10 %	Germination	90%
Inert Matter	6.50 %	Hard Seed	0%
Crop Seed	0.20 %	Date of Test	September, 2012
Weed Seed	0.20 %	Where Grown	Kentucky

Noxious Weed Seeds	
If present, number per pound	
Annual Bluegrass ( <i>Poa annua</i> )	10
Buckhorn Plantain ( <i>Plantago lanceolata</i> )	
Corncockle ( <i>Agrostemma githago</i> )	
Dodder ( <i>Cuscuta sp.</i> )	
Giant Foxtail ( <i>Setaria faberii</i> )	
Ox-eye Daisy ( <i>Chrysanthemum leucanthemum</i> )	
Sorrel ( <i>Rumex acetosella</i> )	
Wild Onion & Wild Garlic ( <i>Allium sp.</i> )	

Form A – For Unmixed Alfalfas, Clovers or Grasses			
Lot:		Rainy Day Seed Company	
		Seedsman	
		Sunshine, KY	
		Address	
Tall Fescue		Kentucky 31	
	Kind	Variety	
Pure Seed	99.3 %	Germination	95%
Inert Matter	0.02 %	Hard Seed	0%
Crop Seed	0.18 %	Date of Test	January, 2012
Weed Seed	0.50 %	Where Grown	Oregon

Noxious Weed Seeds	
If present, number per pound	
Annual Bluegrass ( <i>Poa annua</i> )	
Buckhorn Plantain ( <i>Plantago lanceolata</i> )	
Corncockle ( <i>Agrostemma githago</i> )	
Dodder ( <i>Cuscuta sp.</i> )	
Giant Foxtail ( <i>Setaria faberii</i> )	
Ox-eye Daisy ( <i>Chrysanthemum leucanthemum</i> )	
Sorrel ( <i>Rumex acetosella</i> )	
Wild Onion & Wild Garlic ( <i>Allium sp.</i> )	

Form A – For Unmixed Alfalfas, Clovers or Grasses			
Lot: 2-07		Stormy Seed Company	
		Seedsman	
		Thunder, KY	
		Address	
Tall Fescue		Kentucky 31	
	Kind	Variety	
Pure Seed	98.0 %	Germination	97%
Inert Matter	1.80 %	Hard Seed	0%
Crop Seed	0.11 %	Date of Test	March, 2013
Weed Seed	0.09 %	Where Grown	Kentucky

Noxious Weed Seeds	
If present, number per pound	
Annual Bluegrass ( <i>Poa annua</i> )	
Buckhorn Plantain ( <i>Plantago lanceolata</i> )	
Corncockle ( <i>Agrostemma githago</i> )	
Dodder ( <i>Cuscuta sp.</i> )	
Giant Foxtail ( <i>Setaria faberii</i> )	
Ox-eye Daisy ( <i>Chrysanthemum leucanthemum</i> )	
Sorrel ( <i>Rumex acetosella</i> )	
Wild Onion & Wild Garlic ( <i>Allium sp.</i> )	

Form A – For Unmixed Alfalfas, Clovers or Grasses			
Lot: 2-07		Flood's Seed Company	
		Seedsman	
		Dropside, KY	
		Address	
Tall Fescue		Kentucky 31	
	Kind	Variety	
Pure Seed	90.02 %	Germination	52%
Inert Matter	5.45 %	Hard Seed	0%
Crop Seed	2.21 %	Date of Test	September, 2012
Weed Seed	2.32 %	Where Grown	New Zealand

Noxious Weed Seeds	
If present, number per pound	
Annual Bluegrass ( <i>Poa annua</i> )	305
Buckhorn Plantain ( <i>Plantago lanceolata</i> )	
Corncockle ( <i>Agrostemma githago</i> )	
Dodder ( <i>Cuscuta sp.</i> )	
Giant Foxtail ( <i>Setaria faberii</i> )	105
Ox-eye Daisy ( <i>Chrysanthemum leucanthemum</i> )	
Sorrel ( <i>Rumex acetosella</i> )	
Wild Onion & Wild Garlic ( <i>Allium sp.</i> )	
Canada Thistle ( <i>Cirsium arvense</i> )	

Score: \_\_\_\_\_

**Seed Tag Placement – Class II**

Tall Fescue Seed Lots

1st	2nd	3rd	4th

Reasons for placing tag # \_\_\_\_\_ over tag # \_\_\_\_\_

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Reasons for placing tag # \_\_\_\_\_ over tag # \_\_\_\_\_

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Reasons for placing tag # \_\_\_\_\_ over tag # \_\_\_\_\_

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Reasons for placing tag # \_\_\_\_\_ over tag # \_\_\_\_\_

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**Violations of the Kentucky Seed Law**

For each of the seed tags, list all violations for that lot. (Tags may have multiple violations or no violations.) If the tag has no violations, write in “No Violations” for that seed lot.

Tag

#1

#2

#3

#4

Name: \_\_\_\_\_

Form B – For All Agricultural Seed Except Alfalfas, Clovers and Grasses

Lot: 1		<u>Pap's Seed Company</u>	
		Seedsman	
		<u>Lexington, KY</u>	
		Address	
Wheat		<u>Pembroke</u>	
Kind		Variety	
Pure Seed	99.45%	Germination	80%
Inert Matter	0.30%	Hard Seed	0%
Crop Seed	0.20%	Date of Test	February, 2012
Weed Seed	0.05%	Where Grown	Argentina

## Noxious Weed Seeds

If present, number per pound

Annual Bluegrass (*Poa annua*)  
 Buckhorn Plantain (*Plantago lanceolata*)  
 Corncockle (*Agrostemma githago*)  
 Dodder (*Cuscuta* sp.)  
 Giant Foxtail (*Setaria faberii*)  
 Ox-eye Daisy (*Chrysanthemum leucanthemum*)  
 Sorrel (*Rumex acetosella*)  
 Wild Onion & Wild Garlic (*Allium* sp.)

Form B – For All Agricultural Seed Except Alfalfas, Clovers and Grasses

Lot: 2		<u>Pip's Seed Company</u>	
		Seedsman	
		<u>Lexington, KY</u>	
		Address	
Wheat		<u>Cumberland</u>	
Kind		Variety	
Pure Seed	99.0%	Germination	95%
Inert Matter	0.50%	Hard Seed	0%
Crop Seed	0.20%	Date of Test	May, 2013
Weed Seed	0.30%	Where Grown	Kentucky

## Noxious Weed Seeds

If present, number per pound

Annual Bluegrass (*Poa annua*)  
 Buckhorn Plantain (*Plantago lanceolata*)  
 Canada Thistle (*Cirsium arvense*)  
 Corncockle (*Agrostemma githago*)  
 Dodder (*Cuscuta* sp.)  
 Giant Foxtail (*Setaria faberii*)  
 Ox-eye Daisy (*Chrysanthemum leucanthemum*)  
 Sorrel (*Rumex acetosella*)  
 Wild Onion & Wild Garlic (*Allium* sp.)

Form B – For All Agricultural Seed Except Alfalfas, Clovers and Grasses

Lot: 3		<u>Pop's Seed Company</u>	
		Seedsman	
		<u>Lexington, KY</u>	
		Address	
Wheat		<u>Independence</u>	
Kind		Variety	
Pure Seed	90.0%	Germination	55%
Inert Matter	4.90%	Hard Seed	0%
Crop Seed	2.50%	Date of Test	August 2011
Weed Seed	2.60%	Where Grown	Ohio

## Noxious Weed Seeds

If present, number per pound

Annual Bluegrass (*Poa annua*)  
 Buckhorn Plantain (*Plantago lanceolata*)  
 Corncockle (*Agrostemma githago*)  
 Dodder (*Cuscuta* sp.)  
 Giant Foxtail (*Setaria faberii*)  
 Ox-eye Daisy (*Chrysanthemum leucanthemum*)  
 Sorrel (*Rumex acetosella*)  
 Wild Onion & Wild Garlic (*Allium* sp.)

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Form B – For All Agricultural Seed Except Alfalfas, Clovers and Grasses

Lot: 4		<u>Pup's Seed Company</u>	
		Seedsman	
		<u>Lexington, KY</u>	
		Address	
Wheat		<u>Unknown</u>	
Kind		Variety	
Pure Seed	97.3%	Germination	95%
Inert Matter	1.60%	Hard Seed	0%
Crop Seed	0.00%	Date of Test	January, 2013
Weed Seed	1.10%	Where Grown	Kentucky

## Noxious Weed Seeds

If present, number per pound

Annual Bluegrass (*Poa annua*)  
 Buckhorn Plantain (*Plantago lanceolata*)  
 Canada Thistle (*Cirsium arvense*)  
 Dodder (*Cuscuta* sp.)  
 Giant Foxtail (*Setaria faberii*)  
 Ox-eye Daisy (*Chrysanthemum leucanthemum*)  
 Sorrel (*Rumex acetosella*)  
 Wild Onion & Wild Garlic (*Allium* sp.)

Score: \_\_\_\_\_

**Seed Tag Placement – Class III**

Wheat Seed Lots

1st	2nd	3rd	4th

Reasons for placing tag # \_\_\_\_\_ over tag # \_\_\_\_\_

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Reasons for placing tag # \_\_\_\_\_ over tag # \_\_\_\_\_

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Reasons for placing tag # \_\_\_\_\_ over tag # \_\_\_\_\_

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Reasons for placing tag # \_\_\_\_\_ over tag # \_\_\_\_\_

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**Violations of the Kentucky Seed Law**

For each of the seed tags, list all violations for that lot. (Tags may have multiple violations or no violations.) If the tag has no violations, write in “No Violations” for that seed lot.

Tag

#1

#2

#3

#4

Name: \_\_\_\_\_

## Form A – For Unmixed Alfalfas, Clovers or Grasses

Lot: A

Ron's Seed Company

Seedsman

Weasley, KY

Address

Orchardgrass

Potomac

## Noxious Weed Seeds

If present, number per pound

Annual Bluegrass (*Poa annua*)Buckhorn Plantain (*Plantago lanceolata*)Corncockle (*Agrostemma githago*)Dodder (*Cuscuta sp.*)Giant Foxtail (*Setaria faberii*)

## Form A – For Unmixed Alfalfas, Clovers or Grasses

Lot: B

Hermione's Seed Company

Seedsman

Granger, KY

Address

Orchardgrass

Certified Benchmark

Kind

Variety

Pure Seed	99.3%	Germination	90%
Inert Matter	0.02%	Hard Seed	0%
Crop Seed	0.18%	Date of Test	June, 2012
Weed Seed	0.50%	Where Grown	Kentucky

## Noxious Weed Seeds

If present, number per pound

Annual Bluegrass (*Poa annua*)Buckhorn Plantain (*Plantago lanceolata*)Corncockle (*Agrostemma githago*)Dodder (*Cuscuta sp.*)Giant Foxtail (*Setaria faberii*)Ox-eye Daisy (*Chrysanthemum leucanthemum*)Sorrel (*Rumex acetosella*)Wild Onion & Wild Garlic (*Allium sp.*)

## Form A – For Unmixed Alfalfas, Clovers or Grasses

Lot: C

Harry's Seed Company

Seedsman

Potter, KY

Address

Orchardgrass

Amba

Kind

Variety

Pure Seed	98.0 %	Germination	88%
Inert Matter	1.80 %	Hard Seed	0%
Crop Seed	0.09 %	Date of Test	March, 2013
Weed Seed	0.11 %	Where Grown	Paraguay

## Noxious Weed Seeds

If present, number per pound

Annual Bluegrass (*Poa annua*)Buckhorn Plantain (*Plantago lanceolata*)Corncockle (*Agrostemma githago*)Dodder (*Cuscuta sp.*)Giant Foxtail (*Setaria faberii*)Ox-eye Daisy (*Chrysanthemum leucanthemum*)Sorrel (*Rumex acetosella*)Wild Onion & Wild Garlic (*Allium sp.*)Ragweed (*Ambrosia trifida*)

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## Form A – For Unmixed Alfalfas, Clovers or Grasses

Lot: D

Albus's Seed Company

Seedsman

Dumbledore, KY

Address

Orchardgrass

Certified Amba

Kind

Variety

Pure Seed	99.0%	Germination	97%
Inert Matter	0.50%	Hard Seed	0%
Crop Seed	0.25%	Date of Test	January, 2013
Weed Seed	0.25%	Where Grown	Kentucky

## Noxious Weed Seeds

If present, number per pound

Annual Bluegrass (*Poa annua*)Buckhorn Plantain (*Plantago lanceolata*)Corncockle (*Agrostemma githago*)Dodder (*Cuscuta sp.*)Giant Foxtail (*Setaria faberii*)Ox-eye Daisy (*Chrysanthemum leucanthemum*)Sorrel (*Rumex acetosella*)Wild Onion & Wild Garlic (*Allium sp.*)Canada Thistle (*Cirsium arvense*)



Score: \_\_\_\_\_

**Seed Tag Placement – Class IV**

Orchardgrass Seed Lots

1st	2nd	3rd	4th

Reasons for placing tag # \_\_\_\_\_ over tag # \_\_\_\_\_

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Reasons for placing tag # \_\_\_\_\_ over tag # \_\_\_\_\_

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Reasons for placing tag # \_\_\_\_\_ over tag # \_\_\_\_\_

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Reasons for placing tag # \_\_\_\_\_ over tag # \_\_\_\_\_

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**Violations of the Kentucky Seed Law**

For each of the seed tags, list all violations for that lot. (Tags may have multiple violations or no violations.) If the tag has no violations, write in “No Violations” for that seed lot.

Tag

#1

#2

#3

#4

Name: \_\_\_\_\_

# Seed Tag Placement

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## Practice Set Answer Keys

**The sample tags are based on the premise that the current date is  
May 2013.**



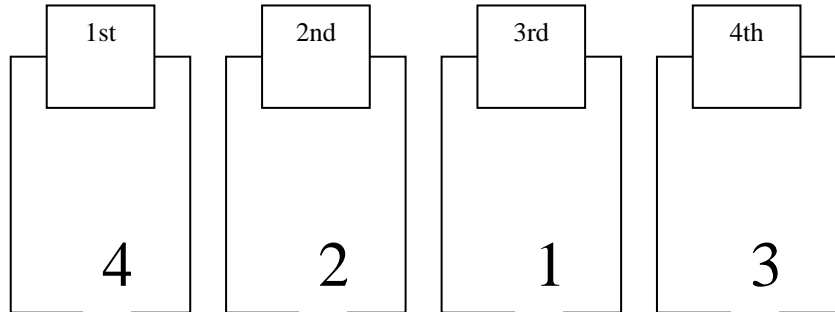
**Martin-Gatton**  
College of Agriculture,  
Food and Environment

Division of  
**Regulatory Services**

Score: \_\_\_\_\_

**Seed Tag Placement – Class I**  
**Answer**

Red Clover Seed Lots



Reasons for placing tag # 4 over tag # 2

Certified, Higher purity, Kentucky origin, No restricted noxious, Recent test date

Reasons for placing tag # 2 over tag # 1

Higher germination, Produced in US, Higher germ

Reasons for placing tag # 1 over tag # 3

Recent test date, Unknown (not 'not stated')

**Violations of the Kentucky Seed Law**

For each of the seed tags, list all violations for that lot. (Tags may have multiple violations or no violations.) If the tag has no violations, write in "No Violations" for that seed lot.

Tag

#1 – No violations

#2 – No violations

#3 –Expired Test Date (> 9 months), 'Not Stated' as variety

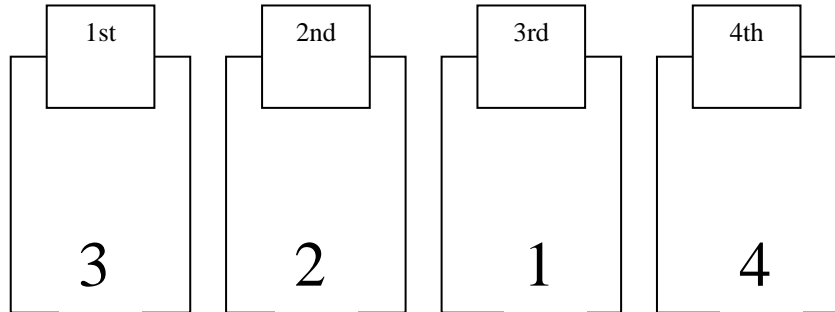
#4 – No violations

Name: ANSWER KEY

Score: \_\_\_\_\_

**Seed Tag Placement – Class II**  
**Answer**

Tall Fescue Seed Lots



Reasons for placing tag # 3 over tag # 2

High germ, high purity, recent test, Kentucky origin, missing lot number

Reasons for placing tag # 2 over tag # 1

High germ, high purity, expired test date, noxious weeds

Reasons for placing tag # 1 over tag # 4

Expired test, out of country origin, noxious weeds, germination

**Violations of the Kentucky Seed Law**

For each of the seed tags, list all violations for that lot. (Tags may have multiple violations or no violations.) If the tag has no violations, write in “No Violations” for that seed lot.

Tag

#1 Expired test date

#2 Expired Test Date, missing lot number

#3 No violations

#4 Excess Noxious (annual bluegrass > 256), Low Germination (<60%), Expired Test Date

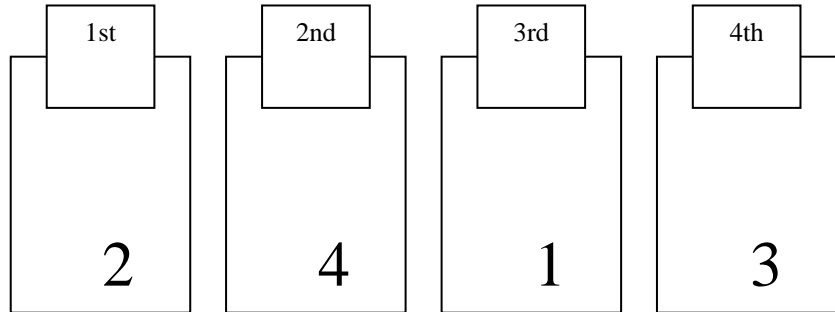
Name: ANSWER KEY

Score: \_\_\_\_\_

**Seed Tag Placement – Class III**

**Answer**

Wheat Seed Lots



Reasons for placing tag # 2 over tag # 4

Adapted cultivar, Higher pure seed

Reasons for placing tag # 4 over tag # 1

Expired test date, Kentucky origin, Higher germination

Reasons for placing tag # 1 over tag # 3

Noxious weeds, Missing tag information, Expired test date, Low germination, High inert matter, Excess weed seed

**Violations of the Kentucky Seed Law**

For each of the seed tags, list all violations for that lot. (Tags may have multiple violations or no violations.) If the tag has no violations, write in “No Violations” for that seed lot.

Tag

#1 – Expired test date

#2 – No violations

#3 – Expired test date, Germination <60%, Weed seed > 2%

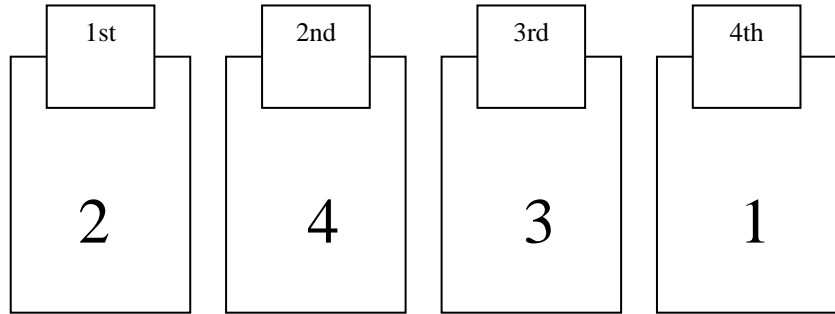
#4 – No violations

Name: ANSWER KEY

Score: \_\_\_\_\_

**Seed Tag Placement – Class IV**

Orchardgrass Seed Lots



Reasons for placing tag # 2 over tag # 4

Certified, high germ, high purity

Reasons for placing tag # 4 over tag # 3

Higher Purity, Kentucky Origin

Reasons for placing tag # 3 over tag # 1

Incomplete Seed Tag (no purity information)

**Violations of the Kentucky Seed Law**

For each of the seed tags, list all violations for that lot. (Tags may have multiple violations or no violations.) If the tag has no violations, write in “No Violations” for that seed lot.

Tag

#1 – No purity information

#2 – No violation

#3 – No violation

#4 – No violations

Name: ANSWER KEY

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