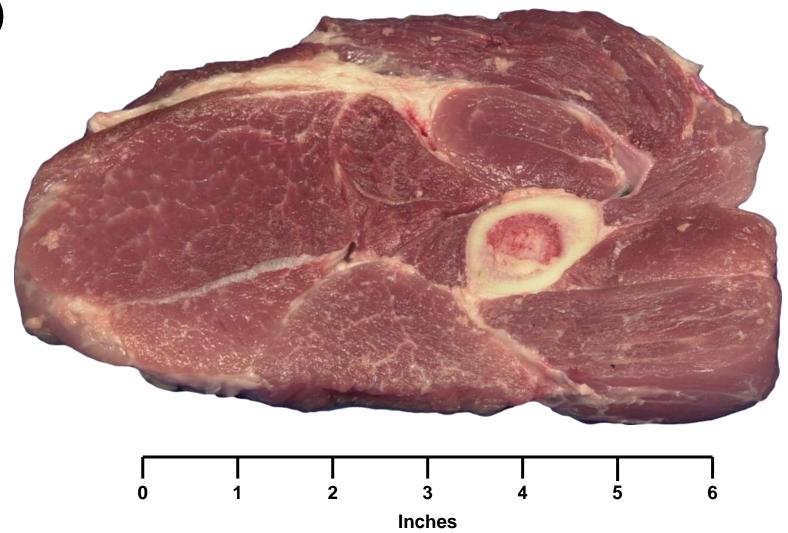


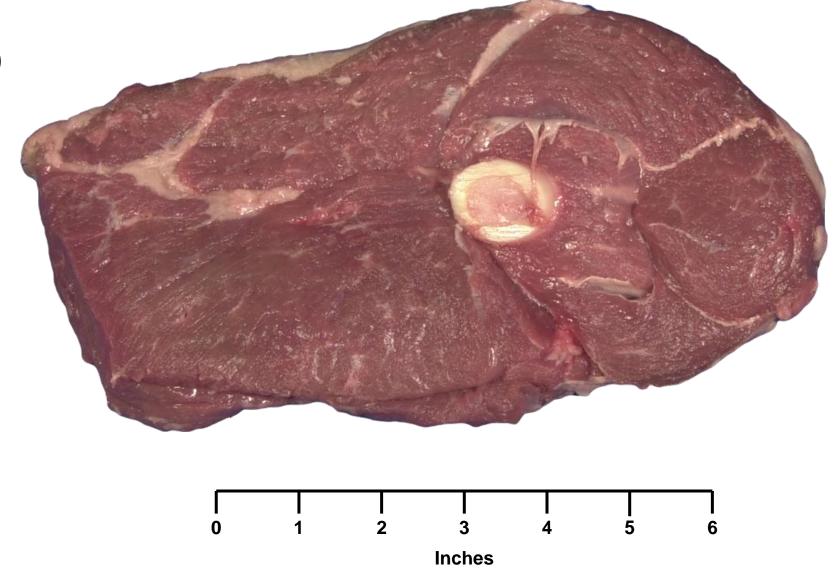
Inches

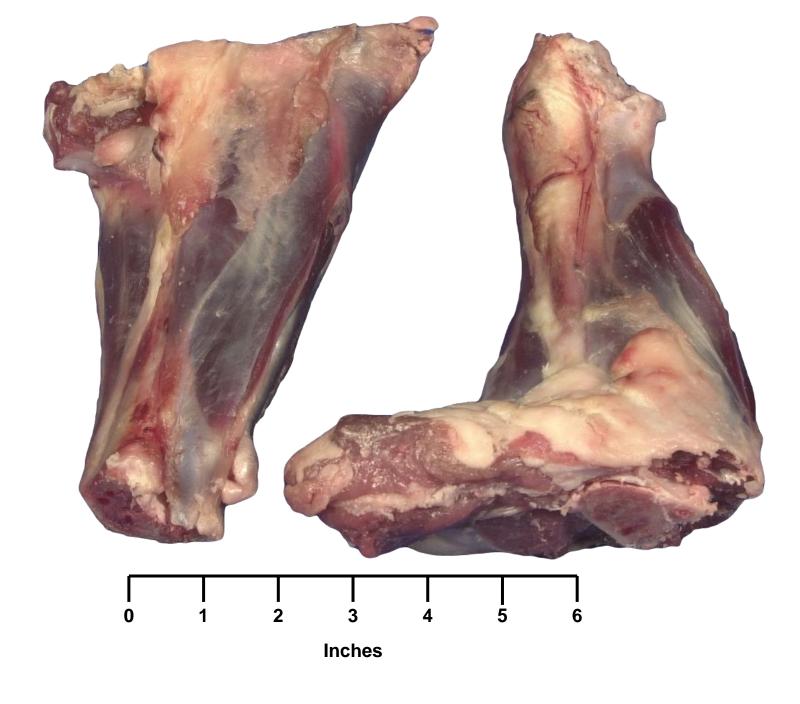


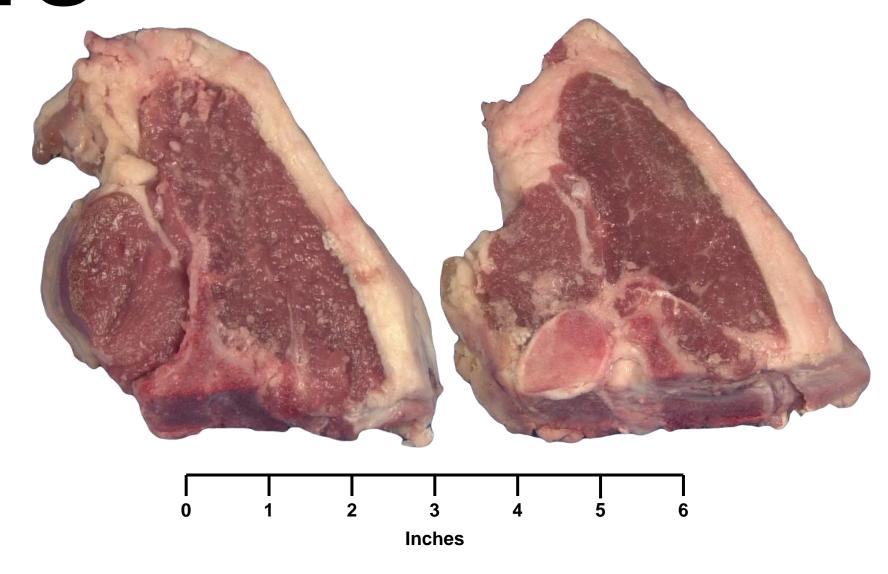












Name <b>NET</b> Contestant # County	Name	KEY	Contestant #	County
-------------------------------------	------	-----	--------------	--------

#### **Senior Retail Meat Cut Identification-2011**

INSTRUCTIONS: For each picture, use the columns on the right to choose the number or letter that indicates your answer for each retail meat cut. Use capital letters and write neatly. **Seniors** provide answers for retail cut name, species of cut, and wholesale cut of origin. Each question is worth 5 points (150 points total for Seniors).

	Retail Cut Name	Species of Cut	Wholesale Cut of Origin
1.	21	В	<b>D</b>
2.	3	В	A
3.	35	В	G
4.	4	В	В
5.	83	P	0
6.	81	P	<u>T</u>
7.	68	P	Q
8.	51	L	J
9.	62	L	M
10.	56	<u>L</u>	K

Beef Retail Meat Cuts  Brisket, flat half	17. Sirloin steak, shell	32. Bottom round roast
2. Brisket, point half	18. Sirloin steak, boneless	33. Bottom round steak
. Brisket, whole	19. Tenderloin steak	34. Eye round roast
Arm roast	20. Porterhouse steak	35. Eye round steak
. Arm roast, boneless	21. T-bone steak	36. Heel of round roast
5. Arm steak	22. Top loin steak	37. Rump roast, boneless
7. Arm steak, boneless	23. Top loin steak, boneless	38. Round steak
Blade roast	24. Short ribs	39. Round steak, boneless
Blade steak	25. Skirt steak	40. Tip roast
0. 7-bone roast	26. Rib roast, large end	41. Tip roast, cap off
1. 7-bone steak	27. Rib roast, small end	42. Tip steak
2. Flank steak	28. Rib steak, small end	43. Tip steak, cap off
3. Sirloin steak, flat bone	29. Rib steak, small end, boneless	44. Top round roast
4. Sirloin steak, pin bone	30. Ribeye roast	45. Top round steak
5. Sirloin steak, round bone	31. Ribeye steak	46. Cross cuts
6. Sirloin steak, wedge bone	•	47. Cross cuts, boneless
Lamb Retail Meat Cuts		
18. Breast	54. Sirloin chop	60. Rib roast
9. Breast riblets	55. Leg sirloin half	61. Rib roast, boneless
60. American style roast	56. Loin chop	62. Shanks
51. Leg Center slice	57. Loin double chop	63. Blade chop
52. French style roast	58. Loin roast	64. Neck slice
53. Leg shank half	59. Rib chop	65. Shoulder square cut
Pork Retail Meat Cuts		
66. Fresh ham center slice	73. Center rib roast	80. Arm roast
67. Fresh ham rump portion	<ol><li>74. Center loin roast</li></ol>	81. Arm steak
<ol><li>Fresh ham shank portion</li></ol>	75. Loin chop	<ol><li>82. Blade Boston roast</li></ol>
<ol><li>Fresh side pork</li></ol>	76. Rib chop	<ol><li>83. Sliced bacon</li></ol>
0. Blade chop	77. Sirloin chop	<ol><li>84. Smoked jowl</li></ol>
1. Blade roast	78. Top loin chop	85. Spareribs
2. Butterfly chop	<ol><li>79. Arm picnic roast</li></ol>	

### Species of Cut – to be used in answer column 2 by <u>Intermediates</u> and <u>Seniors</u> B. Beef L. Lamb P. Pork

#### Wholesale Cut of Origin – to be used in answer column 3 by Seniors Beef Wholesale Cuts Lamb Wholesale Cuts Pork Wholesale Cuts A. Brisket I. Breast O. Belly (Side, Bacon) B. Chuck J. Leg P. Boston Butt C. Flank K. Loin Q. Ham D. Loin L. Rack R. Jowl E. Plate M. Shank S. Loin T. Picnic Shoulder F. Rib N. Shoulder G. Round H. Shank

Name	KEY	Contestant #	County	

#### **Senior Livestock Feed Identification-2011**

INSTRUCTIONS: For each picture, use the columns on the right to choose the number or letter that indicates your answer for each livestock feedstuff. Use capital letters and write neatly. **Seniors** provide answers for feedstuff name, nutrient group, and characteristics/uses of the feedstuff. Each question is worth 5 points (150 points total for Seniors).

	Feedstuff Name	Nutrient Group	Charact- eristics/ Uses
1.	22	B or C	Н
2.	57	C	D
3.	34	P	E
4.	74	В	A
5.	15	C	В
6.	38	C	P
7.	36	P	F
8.	1	P	C
9.	50	C	0
10.	39	В	M

Feed Names – to be used in answer column 1 by <u>Clovers</u> , <u>Intermediates</u> , and <u>Seniors</u>				
Alfalfa meal (cubed)	26. Grain sorghum (whole)	52. Soybean meal		
Alfalfa pasture	27. Ground ear corn	53. Soybeans (whole)		
3. Barley (whole)	28. Ground limestone	54. Spray-dried animal		
4. Blood meal	<ol><li>Ground shelled corn</li></ol>	plasma		
<ol><li>Brewers dried grain</li></ol>	<ol><li>Kentucky Bluegrass pasture</li></ol>	55. Spray-dried whey		
6. Canola meal	<ol><li>L-lysine HCl</li></ol>	<ol><li>Steam flaked corn</li></ol>		
<ol><li>Copper sulfate</li></ol>	32. L-threonine	<ol><li>Steam rolled barley</li></ol>		
8. Corn distillers dried grain	<ol><li>L-tryptophan</li></ol>	<ol><li>Steam rolled oats</li></ol>		
<ol><li>Corn distillers dried grain</li></ol>	<ol><li>Linseed meal</li></ol>	<ol><li>Steamed bone meal</li></ol>		
with soluble	<ol><li>Liquid molasses</li></ol>	<ol><li>Sunflower meal</li></ol>		
10. Corn gluten feed	<ol><li>Meat and bone meal</li></ol>	<ol><li>Tall Fescue hay</li></ol>		
<ol><li>Corn gluten meal</li></ol>	37. Millet (whole)	<ol><li>62. Tall Fescue pasture</li></ol>		
12. Cottonseed (whole)	38. Oats (whole)	63. Timothy hay		
13. Cottonseed hulls	39. Oat hulls	64. Timothy pasture		
14. Cottonseed meal	40. Orchardgrass hay	<ol><li>Trace-mineral premix</li></ol>		
<ol><li>Cracked shelled corn</li></ol>	<ol> <li>Orchardgrass pasture</li> </ol>	<ol><li>Trace-mineralized salt</li></ol>		
16. Crimped oats	42. Oyster shells	67. Triticale (whole)		
<ol><li>Defluorinated rock</li></ol>	43. Peanut meal	68. Tryptosine		
phosphate	44. Red Clover hay	69. Urea		
18. Dehydrated alfalfa meal	45. Red Clover pasture	70. Vegetable oil		
19. Dicalcium phosphate	46. Roller dried whey	71. Vitamin premix		
20. DL-methionine	47. Rye (whole)	72. Wheat (whole)		
21. Dried Beet pulp	48. Salt, white	73. Wheat bran		
22. Dried molasses	49. Santoquin	74. Wheat middlings		
23. Dried skim milk	50. Shelled corn	75. White Clover hay		
24. Feather meal	51. Soybean hulls	<ol><li>76. White Clover pasture</li></ol>		
25. Fish meal				

## Feeds Nutrient Groups – to be used in answer column 2 by <u>Intermediates</u> and <u>Seniors</u> (You may use the letter more than once!!)

- B. By-product feed M.
- C. Carbohydrate (energy)
  F. Fats (energy)
- M. Mineral P. Protein
- V. Vitamin

- Important Characteristics/Uses of Feedstuffs to be used in answer column 3 by and Seniors
- A. By-product of the wheat flour milling industry.
- B. Shelled corn that has been passed through a roller mill to break it into smaller particles.
- Excellent feedstuff for horses and ruminants (high in protein, minerals, and vitamins).
- D. Whole barley that is subjected to high-moisture steam for a short period of time (1-8 minutes) and then rolled to produce a flat flake
- E. Produced by grinding the flakes that remain after oil is extracted from whole flaxseed.
- F. Primarily used as a partial source of supplemental protein for monogastrics (limited use in ruminant and horse diets).
- G. Protein is somewhat low in digestibility due to tannins found in the skin, and has poor amino acid balance.

- H. Dried by-product of the manufacture of sugar from either sugar beets, or more commonly, sugarcane
- I. Sometimes used as a laxative in prefarrowing sow rations
- J. Contains corn bran and soluble protein
- K. Excellent source of digestible protein, B vitamins, and minerals.
- L. High in protein, and contains active immunoglobulins.
- M. Consists primarily of the outer covering of oat grain after it has been processed to separate the groat (kernel) from the hull.
- N. Obtained by processing rock phosphates into phosphoric acid, which is then reacted with calcium carbonate (limestone).
- O. Bulk Density = 48 Pounds/Bushel
- P. Compared to corn it is slightly lower in energy and higher in protein.
- Q. Most extensively produced feed grain in U.S.





















$manio_{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline$	Name	KEY	Contestant #	County
--	------	-----	--------------	--------

#### **Senior Livestock Breeds Identification-2011**

INSTRUCTIONS: For each picture, use the columns on the right to choose the number or letter that indicates your answer for each livestock breed. Use capital letters and write neatly. **Seniors** provide answers for breed name, origin of breed, and important characteristics/traits. Each question is worth 5 points (150 points total for Seniors).

	Breed Name	Origin of Breed	Important Traits
1.	41	0	<u>L</u>
2.	40	K	0
3.	1	D	E
4.	7	F	C
5.	4	J	<b>D</b>
6.	52	N	<u>T</u>
7.	50	Q	<u>Y</u>
8.	51	Н	V
9.	20	G	K
10.	21	M	Н

Breed Names – to be used in answer column 1 by <u>Clovers</u> , <u>Intermediates</u> , and <u>Seniors</u>				
Beef Breeds 1. Angus	Goat Breeds 17. Alpine	Sheep Breeds 30. Cheviot	Swine Breeds 47. Berkshire	
2. Brahman 3. Brangus	18. American Cashmere 19. Angora	31. Columbia 32. Corriedale	48. Chester White 49. Duroc	
<ul><li>4. Charolais</li><li>5. Chianina</li><li>6. Gelbvieh</li></ul>	20. Boer 21. Kiko 22. Lamancha	<ul><li>33. Dorper</li><li>34. Dorset</li><li>35. Finnsheep</li></ul>	<ul><li>50. Hampshire</li><li>51. Hereford</li><li>52. Landrace</li></ul>	
7. Hereford 8. Limousin	23. Nubian 24. Oberhasli	36. Hampshire 37. Katahdin	53. Pietrain 54. Poland China	
<ul><li>9. Maine Anjou</li><li>10. Polled Hereford</li></ul>	<ul><li>25. Pygmy</li><li>26. Saanen</li></ul>	38. Merino 39. Montadale	<ul><li>55. Spotted</li><li>56. Tamworth</li></ul>	
11. Red Angus 12. Red Poll	<ul><li>27. Spanish</li><li>28. Tennessee Fainting</li></ul>	40. Oxford 41. Polled Dorset	57. Yorkshire	
<ul><li>13. Santa Gertrudis</li><li>14. Shorthorn</li><li>15. Simmental</li></ul>	29. Toggenburg	42. Rambouillet 43. Romney 44. Southdown		
16. Tarentaise		45. Suffolk 46. White Dorper		

#### Origins of Breeds – to be used in answer column 2 by <u>Intermediates</u> and <u>Seniors</u>

- A. Tees River Valley (England)
- B. York County, England
- C. Italy
- D. Scotland
- E. District of Angora in Asia Minor
- F. Herefordshire, England
- G. Africa
- H. Iowa and Nebraska (U.S.A.)
- I. Finland
- J. Charolles, France
- K. Oxford County, England
- L. Kent , England
- M. New Zealand
- N. Denmark
- O. North Carolina State Univ.
- P. Maine and Anjou river valleys of France
- Q. Hampshire County, England
- Putnam and Hendricks County, Indiana
- S. United States (New York/New Jersey)

#### Important Characteristics/Traits Origins of Breeds - to be used in answer column 3 by and Seniors

#### Beef Cattle Characteristics/Traits

- A. Heat and tick resistance, hardiness, and maternal instincts.
- B. Early maturity, reproductive performance, mothering ability, disposition, and hardiness.
- C. Foraging ability, docile, and good fertility.
- D. Heavily muscled, high carcass yield, growth rate, and feed efficiency.
- E. Meat quality and maternal abilities.

#### Goats Characteristics/Traits

- F. Hardy, adaptable animals that thrive in any climate while maintaining good health and excellent production.
- G. Meat production mohair production, browsing ability, and not as prolific as other goats.
- H. Meat yield, growth rate, constitution, and twinning rate
- High butterfat content, extended breeding season, best suited for hot conditions, and multi-purpose use (milk, meat, and hide).
- J. Heavy milkers, rugged bone, and vigor. Saanens are sensitive to excessive sunlight and perform best in cooler conditions.
- K. Meat yield, growth rate, browsing ability, fertility, adaptability to wide climatic conditions, and extended breeding season.

#### Sheep Characteristics/Traits

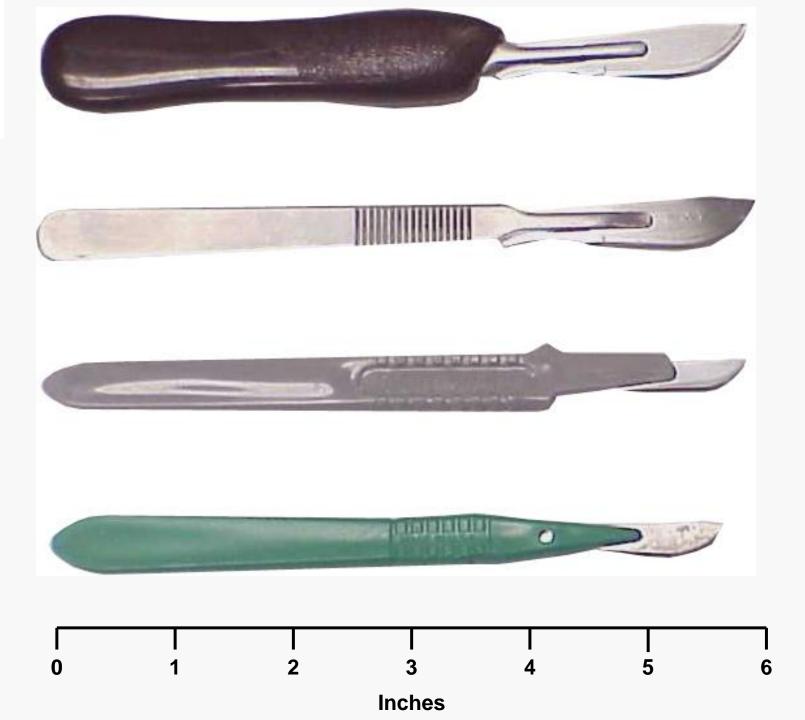
- L. Carcass conformation will breed "out-of-season", and milking ability.
- M. Prolificacy, mothering ability, and wool production.
- N. Carcass conformation, growth rate, feed conversion, and milking ability
- O. Carcass conformation, heavy fleece, and lambing percentage.
- P. Herding instinct and wool production.
- Q. Carcass conformation, early maturity, and adaptability to varied climates.
- R. Carcass conformation, growth rate, lambing percentage, and wool production.

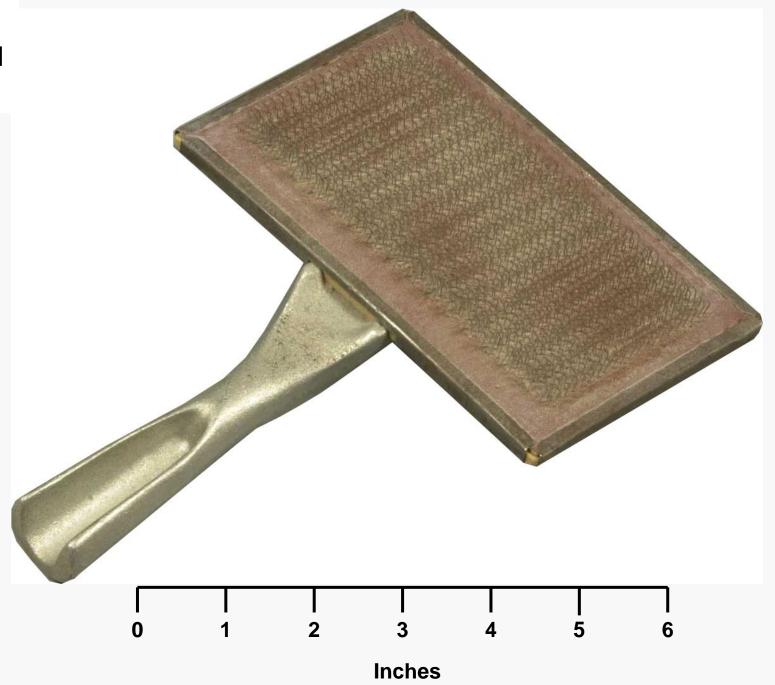
#### Swine Characteristics/Traits

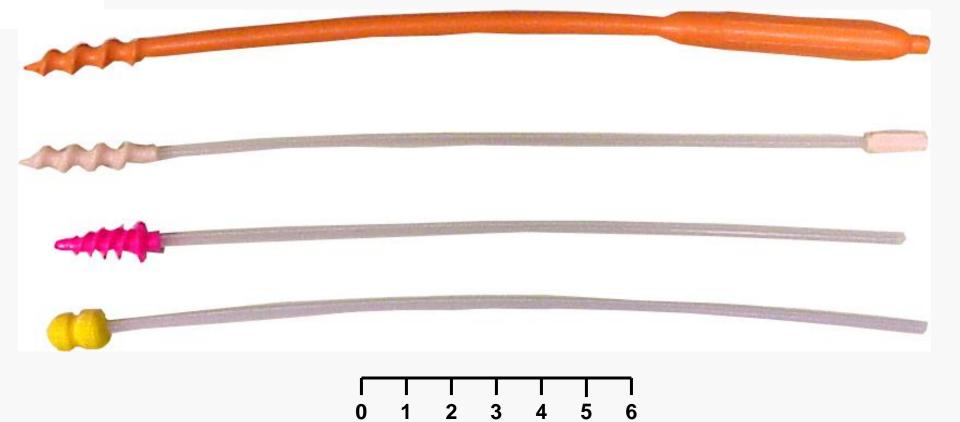
- S. Aggressive breeder and high growth rate.
- T. Prolificacy (litter size), milking ability, mothering ability.
- U. Extreme muscling and leanness.
- V. Carcass quality (intramuscular fat).
- W. Excellent rate of gain and feed efficiency.
- X. Conception rate and meat quality (intramuscular fat)
- Y. Heavily muscled, lean, and good feed efficiency







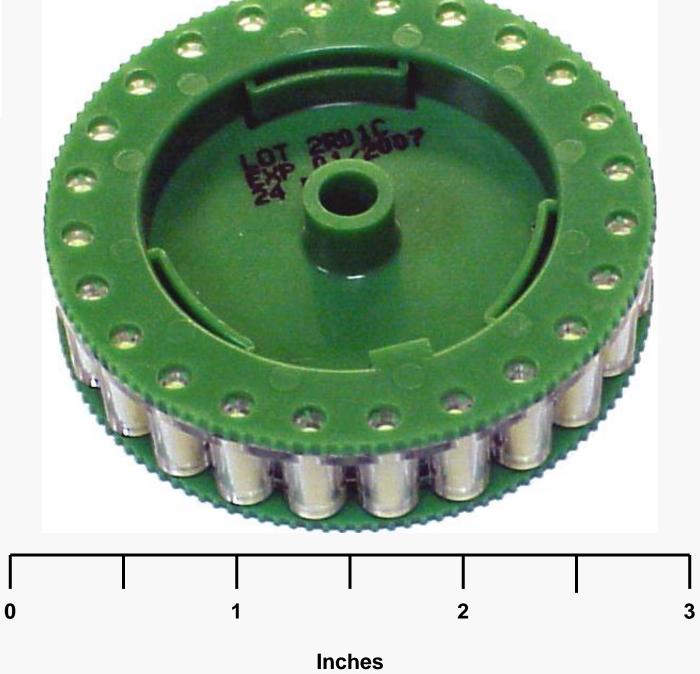


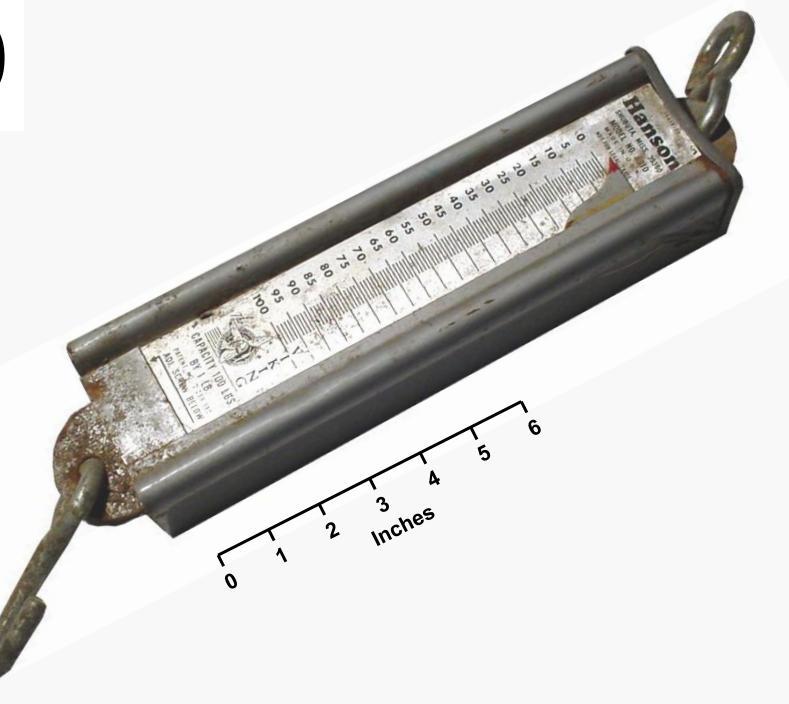


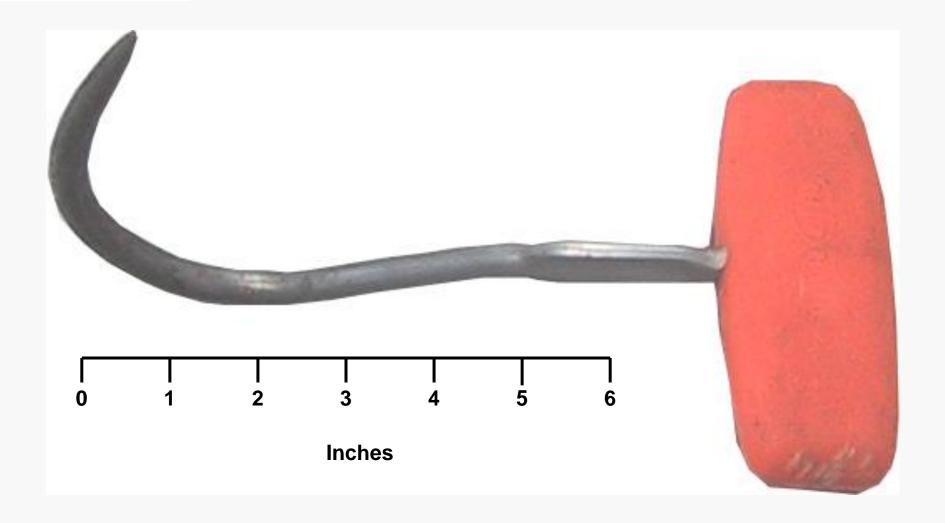
Inches











Name KEY Contestant # County	
------------------------------	--

#### **Senior Livestock Equipment Identification-2011**

INSTRUCTIONS: For each picture, use the columns on the right to choose the number or letter that indicates your answer for each piece of equipment. Use capital letters and write neatly. **Intermediates** and **Seniors** provide answers for livestock/meat equipment names and equipment use. Each question is worth 5 points (100 points total for Intermediates and Seniors).

	Equipment Name	Equipment Use
1.	28	J
2.	34	В
3.	36	R
4.	42	S
5.	2	A
6.	37	N
7.	39	T
8.	33	I
9.	24	G
10.	60	P

Equipment Names – to be used in answer column 1 by <u>Clovers</u> , <u>Intermediates</u> , and <u>Seniors</u>			
Livestock E	Meat Equipment		
All-in-one castrator/docker	26. Lamb tube feeder	43. Backfat ruler	
2. Artificial insemination pipettes	<ol><li>Needle teeth nippers</li></ol>	44. Band saw	
(Swine)	<ol><li>Nipple waterer</li></ol>	45. Bone dust scraper	
Bowl waterer	29. Nose ring	46. Boning knife	
4. Balling gun	<ol><li>Nose ring pliers</li></ol>	47. Bowl chopper	
Barnes dehorner	31. Obstetrical (O.B.) chain	48. Dehairing machine	
6. Cattle clippers	32. Paint branding iron	49. Electrical stunner	
7. Clipper comb	<ol><li>Ralgro implant cartridge</li></ol>	50. Emulsifier	
Clipper cutter	<ol><li>Ram marking harness</li></ol>	51. Ham net	
9. Currycomb	<ol><li>Rumen magnate</li></ol>	52. Hand saw	
10. Disposable syringes	36. Scalpel	53. Hard hat	
11. Drench gun	<ol><li>Semen Storage Tank</li></ol>	<ol><li>54. Loin eye area grid</li></ol>	
12. Ear notchers	38. Shearer's screwdriver	55. Meat grinder	
13. Ear tag pliers	39. Sheep shears (electric)	<ol><li>Meat grinder auger</li></ol>	
14. Elastrator	40. Syringe Needles	<ol><li>Meat grinder knife</li></ol>	
15. Electric branding iron	41. Tattoo pliers	58. Meat grinder plate	
16. Electric dehorner	42. Wool card	<ol><li>Meat grinder stuffing rod</li></ol>	
17. Electric docker		60. Meat hook	
18. Emasculatome (Burdizzo)		<ol><li>Meat tenderizer</li></ol>	
19. Emasculator		62. Meat trolley	
20. Ewe prolapse retainer		<ol><li>63. Metal knife scabbard</li></ol>	
21. Fencing pliers		64. Rubber apron	
22. Foot rot shears		65. Sharpening steel	
23. Freeze branding iron		66. Smoke house	
24. Hanging Scale		67. Thermometer	
25. Hog holder (snare)		68. Tumbler	
		<ol><li>Vacuum sausage stuffer</li></ol>	
		70. Whale saw	

#### Equipment Uses - to be used in answer column 2 by and Intermediates and Seniors

- A. A device used to deposit boar semen into reproductive tract of a gilt or sow. The spiral tip or button end of the pipette is inserted into the cervix where the semen is deposited.
- B. A device placed on rams that shows when a ewe has been serviced.
- C. The part of cattle clippers that guides the hair towards the clipper cutter.
- D. Used to measure backfat depth on animal carcasses.
- E. An instrument used for the bloodless castration (young male calves, lambs, and goats) and docking of tails (young lambs and goats). It is used to place a small rubber ring over the scrotum or tail to shut off circulation.
- F. Used to clean bone fragments from meat cuts that result from cutting meat with saws during processing.
- G. Used to weigh young animals, feed ingredients to include in a diet, or the amount of feed to feed to an animal.
- H. An instrument used to control vaginal prolapse in ewes.
- I. The cartridge containing the RALGRO pellets (for growth promotion) that is placed in the RALGRO Pellet Injector for placing the implants in beef calves ears.

- J. An automatic waterer used to provide clean, fresh water to pigs.
- K. Used to remove dirt and loose hair from cattle when grooming
- L. A non-rusting, round post electric fence insulator. Will work on round posts up to about ½-inch diameter.
- M. Used by shearers to quickly replace the clipper comb and clipper cutter on cattle clippers.
- N. Used to store frozen semen until it is ready for use. The tank holds liquid nitrogen to keep the semen frozen.
- O. Used when building fences. These pliers will cut, splice, and stretch wire, and drive and pull staples.
- P. Used to pick up meat pieces during carcass fabrication
- Q. Used to help pull unborn calves from cows that are experiencing calving problems (dystocia).
- R. Used by veterinarians for various surgical procedures, and by farmers for various health related and management practices (such as castration).
- S. Used to card (comb or rake) the wool on sheep prior to shearing.
- T. Used to shear and groom the wool from sheep.

### **Senior Retail Meat Judging-1**

Name	Contestant #	County
114111C	Ouitestant #	

## **T-Bone Steaks** 1-4-2-3 cuts 3-5-2

Contestant Number				
Placing Score				
University of Kentucky College of Agriculture Animal Sciences Department				I a a
Anımai Sciences Deparimeni		A	1 2 3 4	38
		В	1 2 4 3	45
Contestant's Name		C	1 3 2 4	<b>36</b>
		D	1342	41
		Е	1 4 2 3	<b>50</b>
		F	1 4 3 2	48
		G	2134	<b>30</b>
Address		Н	2 1 4 3	<b>37</b>
		I	2 3 1 4	20
		J	2 3 4 1	<b>17</b>
		K	2413	34
C 4		L	2 4 3 1	24
County		M	3 1 2 4	26
		N	3 1 4 2	31
		О	3 2 1 4	18
Class		P	3 2 4 1	15
Retail Meat Judging 1		Q	3 4 1 2	28
	<del></del>	R	3 4 2 1	20
		S	4123	47
		T	4132	45
		U	4213	39
		V	4 2 3 1	29
		W	4 3 1 2	35
		X	4 3 2 1	27

[Questions on back]

## Questions

1.) Between 1 and 3, which steak has the largest top loin muscle?3
2.) Which steak has the largest tenderloin muscle?1
3.) Between 2 and 4, which steak has the least amount of bone?2_
4.) Between 3 and 4, which steak has the least amount of tail fat?4
5) Which steak has the most external fat opposite the top loin muscle?

# **Senior Retail Meat Judging-2**

Name	Contestant #	County
114111C	Ouitestant #	

# Boneless Pork Loin Chops 1-2-3-4 cuts 2-3-2

Contestant Number			
Placing Score			
University of Kentucky College of Agriculture Animal Sciences Department	A	1234	150
			50
	В	1 2 4 3	48
Contestant's Name	С	1 3 2 4	<b>47</b>
	D	1 3 4 2	<b>42</b>
	Е	1 4 2 3	43
	F	1 4 3 2	40
	G	2 1 3 4	48
Address	Н	2 1 4 3	46
<del></del>	I	2 3 1 4	43
	J	2 3 4 1	36
	K	2413	39
	L	2431	34
County	M	3 1 2 4	42
	N	3 1 4 2	37
	О	3 2 1 4	40
Class	P	3 2 4 1	33
Retail Meat Judging 2	Q	3 4 1 2	30
Netan Meat Judging 2	R	3 4 2 1	28
	S	4123	36
	Т	4132	33
	U	4213	34
	V	4231	29
	W	4312	28
	X	4 3 2 1	26
			20

# **Senior Hay Judging-2011**

Name	Contestant #	County
name	Contestant #	County

# 2-1-3-4 Cuts 4-3-7

Contestant Number			
Placing Score			
University of Kentucky College of Agriculture Animal Sciences Department	A	1234	39
•	B		<b>-</b>
Contestant's Name		1243	46
Contestant's Name	C	1324	25
	D	1 3 4 2	18
	Е	1 4 2 3	<b>39</b>
	F	1 4 3 2	25
A 11	G	2 1 3 4	<b>43</b>
Address	Н	2 1 4 3	<b>50</b>
	I	2 3 1 4	33
	J	2 3 4 1	<b>30</b>
	K	2413	47
	L	2 4 3 1	<b>37</b>
County	M	3 1 2 4	15
	N	3 1 4 2	8
	О	3 2 1 4	19
Class	P	3 2 4 1	16
_Hay Judging	Q	3 4 1 2	5
	R	3 4 2 1	9
	S	4123	36
	T	4132	22
	U	4213	40
	V	4231	30
	W	4312	12
	X	4321	16

[TURN OVER for Scenario and Forage Analysis Information]

# **Senior Hay Judging-2011**

#### **Scenario**:

You have purchased the following four (4) types of hay to use as feed for your ewe flock. You will use all four (4) types of hay at some point during the year. Rank the four hay samples in the order that you would utilize them as the most <u>cost effective</u> sole ration for your flock of mature, dry ewes in early gestation to maintain their body condition score (BCS) of a number three (3).

#### Nutrient Requirements for mature 155 pound, mature, dry ewes in early gestation.

Dry Matter: 4 pounds per day

Crude Protein: 9%
Total Digestible Nutrients 55%

# **Forage Analysis**

	<u>Hay #1</u> 2 <sup>nd</sup> cutting Orchardgrass	<u>Hay #2</u> 1 <sup>st</sup> cutting Orchardgrass	<u>Hay #3</u> Mixed Grass	<u>Hay #4</u> Grass/Red Clover Mixed
Dry Matter	88.6%	87.9%	88.9%	88.6%
Crude Protein	13.5%	12.7%	7.4%	15.2%
Acid Detergent Fiber	44.2%	44.8%	49.9%	41.5%
Neutral Detergent Fiber	67.2%	67.5%	69.2%	61.4%
Total Digestible Nutrients	60.5%	58.6%	50.0%	62.5%
Price per Ton	\$135	\$100	\$80	\$145

Name	KEY	Contestant #	County

# **Quality Assurance-Individual-Senior-2011**

You are the manager of a large farrow to finish swine operation. Use the  $\underline{\textbf{P.G. 600}}$  label to answer the  $\underline{\textbf{10}}$  **questions** below relating to swine management.

qı	<b><u>iestions</u></b> below relating to s	swine managemen	t.
1.	<u>P.G. 600</u> is labeled to do	which of the foll	lowing in a swine production operation?
	A.) Induce fertile estrus in	non-cycling gilts	C.) Improve carcass cutability
-	B.) Improve reproductive e	efficiency	D.) Both A and B
2.	What do the letters PM	SG stand for?	
	A.) Pregnant Mare Seru	ım Gonadotropin	C.) Post Mastitis Supply Granules
	B.) Pre-maternal Standar	d Genotype	D.) Pregnant Maternal Sow Glands
3.	P.G. 600 would be best	utilized in which	of the following production schemes?
	A.) Showpig operat	ion that only buys	bred gilts and farrows litters only in the spring
	B.) A large wean-to	o-finish operation	
	,		ish operation that is experiencing reproductive problem l reproductive management
	,		inish operation that is experiencing reproductive ion and reproductive management is excellent
4.	The action of chorionic hormone in sows and gi	_	ntained in P.G. 600 is similar to the action of what
	A.) Luteinizing Hor	rmone C	.) Testosterone
	B.) Progesterone	D	.) Corpus Luteum
5.	P.G. 600 is labeled to tr	eat which one of	the following diseases?
	A.) Mastitis	C.) Circovirus	
	B.) Metritis	D.) None of the	se

[More on Back]

6. When should replacement	gilts be injected with P.G. 600?				
A.) At weaning					
B.) One (1) hour prior to m	B.) One (1) hour prior to mating with the boar or being Artificially Inseminated				
C.) When selected as a repl	lacement, and over five months of age and weighing over 85 pounds				
D.) When selected as a repart 187 pounds	placement, and over five and one-half months of age and weighing over				
7. What size needle should be	e used to inject P.G. 600?				
A.) 20 Gauge X 1 ½ inches	C.) 0.90 x 38 mm				
B.) 14 Gauge X 2 inches	D.) Either A or C				
8. Once P.G. 600 has been re	constituted with sterile water, it must be used?				
A.) Within 48 hours	C.) Within 7 days				
B.) <b>Immediately</b>	D.) Within 1 year				
9. When should a weaned so	w or gilt show heat (estrus) after an injection of P.G. 600?				
A.) Within 24 hours after tre	A.) Within 24 hours after treatment				
B.) Within three (3) – seve	B.) Within three (3) – seven (7) days after treatment				
C.) Within 21 days after trea	ntment				
D.) Within 28 days after trea	ntment				
	uch of the research dealing with the use and application of P.G. 600 was following scientific journals?				
A.) Journal of Applied Swine	Reproduction				
B.) Journal of Porcine Therio	ogenology				
C.) Journal of Animal Breedi	C.) Journal of Animal Breeding and Genetics				
D.) Journal of Animal Science					

INTERVET/SCHERING-PLOUGH ANIMAL HEALTH » P.G. 600® (INTERVET/SCHERING-PLOUGH ANIMAL HEALTH)

#### INTERVET/SCHERING-PLOUGH ANIMAL HEALTH 29160 INTERVET LANE, P.O. BOX 318, MILLSBORO, DE, 19966-0318

800-992-8051 Customer Service: 800-441-8272

Website: www.intervetusa.com

Email: Information.USA@intervet.com



Every effort has been made to ensure the accuracy of the information published. However, it remains the responsibility of the readers to familiarize themselves with the product information contained on the USA product label or package insert.

### P.G. 600<sup>®</sup>

#### Intervet/Schering-Plough Animal Health

NADA No. 140-856; APPROVED BY FDA

FOR ANIMAL USE ONLY

#### DESCRIPTION

Gilts normally reach puberty (begin experiencing normal estrous cycles and exhibiting regular estrus or heat) at any time between six and eight months of age, although some gilts will not have exhibited their first estrus at ten months of age. Age at first estrus is influenced by several factors including breed type, season of the year, environmental conditions, and management practice (Hurtgen, 1986).

Sows normally exhibit estrus three to seven days after weaning their litters; however, some otherwise healthy sows may not exhibit estrus for 30 days or more after weaning (Dial and Britt, 1986). The causes of delayed return to estrus in healthy sows are poorly understood, but probably include season of the year (so-called seasonal anestrus; Hurtgen, 1979), adverse environmental conditions, such as high ambient temperatures (Love, 1978), and the number of previous litters, because the condition is more prevalent after the first litter than after later litters (Hurtgen, 1986).

P.G. 600 is a combination of serum gonadotropin (Pregnant Mare Serum Gonadotropin or PMSG) and chorionic gonadotropin (Human Chorionic Gonadotropin or HCG) for use in prepuberal gilts (gilts that have not yet exhibited their first estrus) and in sows at weaning. It is supplied in freeze-dried form with sterile diluent for reconstitution. In gilts and sows, the action of serum gonadotropin is similar to the action of Follicle-Stimulating Hormone (FSH), which is produced by the animals' anterior pituitary gland. It stimulates the follicles of the ovaries to produce mature ova (eggs), and it promotes the outward signs of estrus (heat).

The action of chorionic gonadotropin in gilts and sows is similar to the action of Luteinizing Hormone (LH), which is also produced by the animals' anterior pituitary gland. It causes the release of mature ova from the follicles of the ovaries (ovulation), and it promotes the formation of corpora lutea, which are necessary for the maintenance of pregnancy once the gilt has become pregnant.

The combination of serum gonadotropin and chorionic gonadotropin in P.G. 600 induces fertile estrus in most prepuberal gilts and weaned sows three to seven days after administration (Schilling and Cerne, 1972; Britt et al., 1986; Bates et al., 1991). The animals may then be mated or, in the case of gilts, mating may be delayed until the second estrus after treatment.

NOTE: P.G. 600 IS INTENDED AS A MANAGEMENT TOOL TO IMPROVE REPRODUCTIVE EFFICIENCY IN SWINE PRODUCTION OPERATIONS. TO OBTAIN MAXIMUM BENEFIT FROM THIS PRODUCT, ESTRUS DETECTION AND OTHER ASPECTS OF REPRODUCTIVE MANAGEMENT MUST BE ADEQUATE. IF YOU ARE IN DOUBT ABOUT THE ADEQUACY OF YOUR BREEDING PROGRAM, CONSULT YOUR VETERINARIAN.

P.G. 600 is available in two package sizes:

SINGLE DOSE VIALS (order Code No. PG-720-1) - Five vials containing white freeze-dried powder, plus five vials containing sterile diluent. When reconstituted, each single dose vial (5 mL) of P.G. 600 contains:

SERUM GONADOTROPIN (PMSG) 400 IU CHORIONIC GONADOTROPIN (HCG) 200 IU

(equivalent to 200 USP Units chorionic gonadotropin)

FIVE DOSE VIALS (order Code No. PG-720-5) - One vial containing white freeze-dried powder, and one vial containing sterile diluent. When reconstituted, the five dose vial (25 mL) of P.G. 600 contains:

SERUM GONADOTROPIN (PMSG) 2000 IU

http://intervetus.naccvp.com/?m=product

2/1/2011

#### CHORIONIC GONADOTROPIN (HCG) 1000 IU

(equivalent to 1,000 USP Units chorionic gonadotropin)

#### INDICATIONS FOR USE

PREPUBERAL GILTS: P.G. 600 is indicated for induction of fertile estrus (heat) in healthy prepuberal (non-cycling) gilts over five and one-half months of age and weighing at least 85 kg (187 lb.).

SOWS AT WEANING: P.G. 600 is indicated for induction of estrus in healthy weaned sows experiencing delayed return to estrus.

#### **CAUTIONS**

Treatment will not induce estrus in gilts that have already reached puberty (begun to cycle). Gilts that are less than five and one-half months of age or that weight less than 85 kg (187 lb.) may not be mature enough to continue normal estrus cycles or maintain a normal pregnancy to full term after treatment.

Treatment will not induce estrus in sows that are returning to estrus normally three to seven days after weaning. Delayed return to estrus is most prevalent after the first litter; the effectiveness of P.G. 600 has not been established after later litters. Delayed return to estrus often occurs during periods of adverse environmental conditions, and sows mated under such conditions may farrow smaller than normal litters.

#### DOSAGE AND ADMINISTRATION

One dose (5 mL) of reconstituted P.G. 600, containing 400 IU serum gonadotropin (PMSG) and 200 IU chorionic gonadotropin (HCG), should be injected into the gilt or sow's neck behind the ear.

Prepuberal gilts should be injected when they are selected for addition to the breeding herd. Sows should be injected at weaning during periods of delayed return to estrus.

#### **DIRECTIONS FOR USE**

SINGLE DOSE VIALS: Using a sterile syringe and a sterile 0.90 x 38 mm (20 G x 1 1/2") hypodermic needle, transfer the contents of one vial of sterile diluent (5 mL) into one vial of freeze-dried powder. Shake gently to dissolve the powder. Inject the contents of the vial into the gilt or sow's neck behind the ear.

FIVE DOSE VIAL: Using a sterile syringe and a sterile 0.90 x 38 mm (20 G x 1 1/2") hypodermic needle, transfer approximately 5 mL of the sterile diluent into the vial of freeze-dried powder. Shake gently to dissolve the powder. Transfer the dissolved product back into the vial of diluent and shake gently to mix. Inject one dose (5 mL) into the gilt or sow's neck behind the ear.

#### STORAGE PRECAUTIONS

Store at or below room temperature, 77°F (25°C).

Once reconstituted, P.G. 600 should be used immediately. Unused solution should be disposed of properly and not stored for future use.

Spent hypodermic needles and syringes generated as a result of the use of this product must be disposed of properly in accordance with all applicable Federal, State and local regulations.

#### REFERENCES

Bates, R.O., B.N. Day, J.H. Britt, L.K. Clark and M.A. Brauer (1991). Reproductive performance of sows treated with a combination of Pregnant Mare's Serum Gonadotropin and Human Chorionic Gonadotropin at weaning in the summer. Journal of Animal Science 69:894.

Britt. J.H., B.N. Day, S.K. Webel and M.A. Brauer (1989). Induction of fertile estrus in prepuberal gilts by treatment with a combination of Pregnant Mare's Serum Gonadotropin and Human Chorionic Gonadotropin. Journal of Animal Science 67:1148.

Dial, G.D., and J.H. Britt (1986). The clinical endocrinology of reproduction in the pig. In: D.A. Morrow (ed.) Current Therapy in Therlogenology 2. W.B. Saunders Company, Philadelphia. p. 905.

Hurtgen, J.P. (1979). Seasonal breeding patterns in female swine. Ph.D. Dissertation, University of Minnesota. Hurtgen, J.P. (1986). Noninfectious infertility in swine. In: D.A. Morrow (ed.) Current Therapy in Therlogenology 2. W.B. Saunders Company, Philadelphia. p. 962.

Love, R.J. (1978). Definition of a seasonal infertility problem in pigs. Veterinary Record 103:443.

Schilling, E., and F. Cerne (1972). Induction and synchronization of oestrus in prepuberal gilts and anestrous sows by a PMS/HCG-compound. Veterinary Record 91:471.

Manufactured for: INTERVET INC., Millsboro, DE 19966 by: INTERVET INTERNATIONAL B.V., BOXMEER- HOLLAND

by. HATELLARD HATELLINATIONAL		
1 dose	077901H 0011.240.2600 077910H 6.01	
5 doses	077901A 0042.240.2610 077901A 12 00	

Revised 4/01

NAC No.: 11061042

http://intervetus.naccvp.com/?m=product\_view&id=1106104&print=1

2/1/2011

Name KEY	Contestant #	KEY	County	KEY
----------	--------------	-----	--------	-----

# Senior Quiz-2011

#### Circle the correct answer to the question.

- 1.) All of the following are examples of legumes, except\_\_\_\_\_?
  - a. Soybeansb. Cornc. Alfalfad. Red Clover
- 2.) A 1305 pound medium framed black baldy heifer with an estimated 0.60 tenths of backfat and an estimated 13.85 square inch ribeye area would most likely return the most dollars of profit sold on which type of marketing grid?
  - a. Grids paying premiums for Certified Angus Beef Carcasses (Higher USDA Quality Grades)
  - b. Grids paying premiums for high cutability carcasses (Lower numerical USDA Yield Grades)
  - c. This heifer should be sold on a live weight basis.
  - d. This heifer should be fed longer because she is not close enough to an acceptable harvest weight.
- 3.) Which of the following breeding scenarios would most likely achieve the greatest level of maternal heterosis or hybrid vigor in the resulting crossbred female progeny?
  - a. Hampshire Boars bred to Duroc Sows
  - b. Spotted Boars bred to SP (Spotted X Peitrain) Sows
  - c. Duroc Boars bred to HD (Hampshire X Duroc) Sows
  - d. Chester White Boars bred to YL (Yorkshire X Landrace) Sows
- 4.) Which one of the following disease causing organisms would be the least likely to cause an abortion in a commercial ewe flock?
  - a. Campylobacter fetus
- c. Clostridium perfringens
- b. *Chlymidia psittach*
- d. Toxoplasmosis
- 5.) Which one of the following feeds would be the most ideal per head, per day as a receiving ration for unweaned, comingled stocker calves weighing an average of 425 pounds?

a. Free choice, first-cutting orchardgrass hay and 5 pounds of a medicated commercial preconditioning feed

- b. Free choice, mature tall fescue hay and 10 pounds of shelled corn
- c. Limit fed red clover hay and 7 pounds of whole soybeans
- d. Free choice, early bloom alfalfa hay and 10 pounds of soyhulls

6.)	Which bull would be the best choice to breed to a herd of commercial Hereford cows and first calf heifers to increase performance of the calves at weaning?				
	b. c.	A Charolais bull with a 110 pound actual birth v	se EPD and an above average weaning weight EPD		
7.)	7.) Which condition is most closely associated with vitamin E and/or Selenium deficiency?				
		White muscle disease in sheep Retained placentas in cattle	<ul><li>c. Both a and b</li><li>d. None of the above</li></ul>		
8.)	Wl	hich livestock operation would probably best util	lize corn silage as one of the main sources of feed?		
	b. c.	A large commercial meat goat operation  A seedstock beef operation that sells elite A.I  A small, part-time club lamb flock  A stocker calf operation that grazes stockpiled,	a quality bulls and potential donor quality females tall fescue for cheap weight gain		
9.)	Wh	ich cut of meat would probably be the least desi	rable when prepared by grilling over an open fire?		
		A ribeye steak A porterhouse steak	<ul><li>c. A whole pork tenderloin roast</li><li>d. An eye of the round roast</li></ul>		
10.)	Wh	at do the letters BRSV stand for when discussing	g beef cattle diseases?		
	a. b.	Bovine Respiratory Standard Vaccine Bovine Reduction Stunt Virus	<ul><li>c. Bovine Respiratory Syncytial Virus</li><li>d. Bovine Respiratory Shipping Fever Vaccine</li></ul>		
11.)	W	hich one of the following hormones maintains p	regnancy in a mature Shorthorn cow?		
	a. b.	Estrogen Progesterone	c. Prostaglandin d. Lutalyse		

12.) Which pig would most like loineye area?	ely meet the following	carcass specifications: .70 backfat and a 9.5 square inch
<ul><li>a. 220 pound purebred Be</li><li>b. 425 pound cull Yorksh</li></ul>		<ul><li>c. 280 pound Hampshire cross barrow</li><li>d. 300 pound cull Hampshire X Pietrain boar</li></ul>
13.) Which of the following wo feeder calves?	ould not be a logical rea	ason to retain ownership on a few of your home-raised
•	r cattle perform for ave	reass quality erage daily gain/feed intake gained from retaining ownership on a larger scale
14.) Which one of the following	g would be the least li	kely to be an ingredient in a stocker calf mineral?
<ul><li>a. Monensin</li><li>b. Lasalocid</li></ul>	c. <b>Ractopamine hy</b> d. Chlortetracycline	
15.) Which city hosted the Inter	rnational Livestock Ex	position from 1900-1975?
a. <b>Chicago</b> b. Omaha	c. Denver d. Oklahoma City	
16.) Which one of the following	g is not a vitamin?	
<ul><li>a. Vitamin K</li><li>b. Thiamine</li></ul>	c. Ascorbic acid d. All of these are v	vitamins
17.) Which one of the following	g would be a managen	nent technique used in a progressive seedstock sheep flock?
<ul><li>a. Recordkeeping</li><li>b. Clipping needle teet</li></ul>	h of baby lambs	c. Creep feeding baby lambs d. Both a and c

18.) Whic	h swine breeds makes up the I	National Swine	Registry and which breed leads in annual regis	strations?				
a. b. c. d.	<ul><li>b. Duroc, Hampshire, Landrace, and Yorkshire - Durocs lead in annual registrations</li><li>c. Berkshire, Chester White, Poland China, and Spotted - Berkshires lead in annual registrations</li></ul>							
	Simmental bull with the genoty otype of the calf be?	ype of (bbpp) is	s bred to a Horned Hereford cow, what would the	he				
	Black and horned Black and polled	c. <b>Red and ho</b> d. Yellow and						
20.) Whi	ich of the following should inc	crease feed effic	ciency in a commercial beef cattle feedyard?					
	Feeding ionophores Feeding Optaflexx	c. Feeding inc	creased levels of magnesium  d b					
a.	would you use a CIDR device  To synchronize estrus  To treat for bloat	c. To a	ve? apply a dewormer to the quality of the fleece					
22.) All o	f the following are typically us	sed in pasture re	enovation except?					
b. c.	Apply fertilizer and lime acc No-tilling or broadcast seedi Using livestock to closely gr Adding large amounts of no	ng of a legume aze down the pa	(usually red or white clover)					
<i>'</i>	is dystocia?							
a. b.	Calving difficulty A bone deformity	c. Neither a or d. Both a and						
24.) What body condition score (BCS) would be considered optimal for a mature Angus cross cow?  a. BCS 1 or 2  b. BCS 5 or 6  d. BCS 50								
25.) Whic	h of the following diseases that	at affects beef c	eattle is also similar to the Scrapie disease in sho	eep?				
a. b.	Bovine Spongiform Encepha Grass tetany	alopathy	<ul><li>c. "Mad Cow Disease"</li><li>d. Both a and c</li></ul>					

# Senior Quality Assurance Exercise-Team-2011 County\_\_\_\_\_

Your team is the group managers of a registered Southdown sheep flock that sells rams and ewes at national shows and sales across the U.S. Use the three feed and/or medication labels to answer the questions below.

- I.) You have had several of your pregnant ewes abort lately. Upon consultation and testing, your veterinarian informs you that the abortions were caused by the disease *Campylobacter fetus*. Your vet also hypothesis that *Chlamydia psittaci* may have also be a contributing factor in the abortions.
  - 1.) Which product could be used to help treat the remaining pregnant ewes and hopefully stop the abortions?

#### **Aureo 4 Crumbles**

2.)	2.) How should the above product be administered?							
	a.) Mixed in the feed ration	c.) Injected intramuscularly						
	b.) Injected subcutaneously	d.) Inject intravenously						
3.)	3.) The product above is labeled for all of the following applications except,							
	a.) Treatment of shipping fever complex in beef cattle							

c.) Treatment of anaplasmosis infection in beef cattle

b.) Treatment of mastitis in lactating dairy cows

- d.) Improved feed efficiency in growing calves
- 4.) Which product could be used to help treat any open ewes before breeding to help prevent abortions? Chlamydia Psittaci Bacterin
- 5.) What are the dosage, timing, and route of administration of the product in number four (4) above?
  - a.) 2 ml under the skin in the upper neck, 60 days prior to breeding, repeat the dose 30 days later
  - b.) 2 ml under the skin in the upper neck, 60 days prior to breeding
  - c.) 2 ml in the neck muscle, 60 days prior to breeding
  - d.) 5 ml under the skin in the upper neck, 60 days prior to breeding

II.)	You want to try and breed your some of your ewe flock during a time outside of the natural breeding seasor (seasonal anestrus) to take advantage of some different potential marketing channels.						
	6.) Which product could you u	se to accomplish the above goal?  Eazi-breed CIDR and/or Progesterone					
	7.) What company distributes t	the above product?					
	a.) Colorado Serum Compa	any.					
	b.) Pharmacia & Upjohn	Company, A Division of Pfizer Inc.					
	c.) Pfizer Animal Health.						
	d.) Bluegrass Livestock Su	pply.					
	8.) This product is made in wh	ich country?					
	a.) United States c	.) Mexico					
	b.) Germany d	.) New Zealand					
	9.) There is no pre-slaughter w	ithdrawal of this product most likely because the active ingredient is					
	a.) Progesterone, a natura	ally occurring hormone					
	b.) Progesterone, a naturall	y occurring antitoxin					
	c.) Progesterone, a naturall	y occurring antimicrobial					
	d.) Progesterone, a natural	ly occurring source of vitamin E and selenium					
	10.) Which one of the followin	g is an inactive ingredient in this product?					
	a.) Silicon rubber						
	b.) Nylon						
	c.) Sterile lubricating jelly						
	d.) Both a and b						

# **Aureo 4 Crumbles**

Type of Feed: Medicated Carrier Form of Feed: Crumbles

#### **General Description:**

Aureo Crumbles provides a source of "producer-ready" medications to customize the base feed for sheep, beef and non-lactating dairy cattle.

# LAND O LAKES® AUREO 4 CRUMBLES

#### **MEDICATED**

FOR BEEF, SHEEP AND NON-LACTATING DAIRY CATTLE

For calves, beef and non-lactating dairy cattle: For control of bacterial pneumonia associated with shipping fever complex caused by *Pasteurella spp.*; Control of active infection of anaplasmosis caused by *Anaplasma marginale* susceptible to chlortetracycline; Treatment of bacterial enteritis caused by *Escherichia coli* and bacterial pneumonia caused by *Pasteurella multocida* organisms susceptible to chlortetracycline; For increased rate of weight gain and improved feed efficiency in calves (250 to 400 lb); For increased rate of weight gain and improved feed efficiency and reduction of liver condemnation due to liver abscesses in growing cattle over 400 lb.

For sheep: Aid in reducing the incidence of (vibrionic) abortion caused by Campylobacter fetus infection susceptible to chlortetracycline.

#### **ACTIVE DRUG INGREDIENT**

Chlortetracycline4 g/l	/lb
------------------------	-----

GUARANTEED ANALYSIS /\	
Crude Protein, (Min)	
Crude Fat, (Min)	6
Crude Fat, (Min)	6
Calcium (Ca), (Min)	
Calcium (Ca), (Max)4.5 %	6
Phosphorus (P), (Min)	
Potassium (K), (Min)	

#### **INGREDIENTS**

Roughage Products (not more than 60%), Processed Grain By-Products, Plant Protein Products, Calcium Carbonate, Forage Products, Magnesium-Mica, Molasses Products, Calcium Lignin Sulfonate

#### **DIRECTIONS FOR USE**

AUREO 4 Crumbles can be top-dressed on individually fed rations or thoroughly mixed with the regular ration.

In calves, beef and non-lactating beef cattle:

For control of bacterial pneumonia associated with shipping fever complex caused by Pasteurella spp.:

CRUMBLES at 0.0875 lb/head/day to provide 350 mg chlortetracycline/head/day (0.35 g/head/day).

For control of active infection of anaplasmosis caused by Anaplasma marginale susceptible to chlortetracycline in beef cattle: For cattle under 700 lb, feed AUREO 4 CRUMBLES at 0.0875 b/head/day to provide 350 mg chlortetracycline/ head/day (0.35 g/head/day). For cattle over 700 lb, feed AUREO 4 CRUMBLES at 0.0125 lb/100 lbs. bodyweight/day to provide 0.5 mg chlortetracycline/lb bodyweight daily (0.125 lbs to provide 0.5 g/head/day for 1000 lb. animal).

For treatment of bacterial enteritis caused by Escherichia coliand bacterial pneumonia caused by Pasteurella multocida organisms susceptible to chlortetracycline: Feed AUREO 4 CRUMBLES at 0.25 lb/100 lbs. bodyweight/day for 3 to 5 days to provide 10 mg chlortetracycline/lb bodyweight (1.25 lbs. to provide 5 g/head for a 500 lb. calf). Do not treat for more than 5 days.

For increased rate of weight gain and improved feed efficiency in calves (250 to 400 lb): Feed AUREO 4 CRUMBLES at 0.00625 to 0.0175 lb/head/daily to provide 25 to 70 mg chlortetracycline. For increased rate of weight gain and improved feed efficiency

and reduction of liver condemnation due to liver abscesses in growing cattle over 400 lb: Feed AUREO 4 CRUMBLES at 0.0175 lb/head/daily to provide 70 mg chlortetracycline.

#### In sheep:

As an aid in reducing the incidence of vibrionic abortion in breeding sheep: Feed 0.02 lb AUREO 4 CRUMBLES/head/day to supply 80 mg chlortetracycline/head daily. Feed continuously during pregnancy.

#### **Available Additives:**

Product No.	Options	Active Drug	Active Drug Level
2180022	Aureo 2	Chlortetracycline	2 g/lb
2180023	Aureo 4	Chlortetracycline	4 g/lb
2180021	Aureo 10	Chlortetracycline	10 g/lb

Product Features:	Product Benefits:
Aureomycin branded chlortetracycline	Used in many farm animal health programs; has zero day withdrawal at all feeding levels in all species covered.
Calves, Beef and Non-lactating Dairy Cattle:	Control of bacterial pneumonia associated with shipping fever complex caused by Pasturella supp. Control of active infection of anaplasmosis caused by Anaplasma marginale susceptible to CTC. Treatment of bacterial enteritis caused by Pasturella multocida organisms susceptible to CTC
Sheep	Aid in reducing the incidence of vibrionic abortion in breeding sheep
No-frills formula	Doesn't interfere with ration. Lower cost of medication
Different concentrations available	Flexible to meet feeding needs

#### **Usage Tips**

Mix Aureo Crumbles thoroughly with grain and roughage prior to feeding.

Follow label directions for specific feeding directions according to specie, label claim and drug concentration.

#### **Key Points**

- 1. Aureomycin branded chlortetracycline is approved for beef and non-lactating dairy cattle and sheep.
- 2. Can be top-dressed or mixed in total ration depending on concentration of drug.
- 3. No added protein, vitamins or trace minerals in formulation.
- 4. Aureomycin has no withdrawal prior to slaughter.

**INDICATIONS:** For use in healthy ewes as an aid in the control of Ovine Enzootic Abortion.

Contains penicillin and streptomycin as preservatives.

Vaccine is an aqueous suspension of inactivated cultures of *Chlamydia psittaci*, abortigenic serovar, emulsified with a mineral oil adjuvant.

**DIRECTIONS:** Store at 2° to 7° C. Do not freeze. Shake well before use. Use entire contents when first opened. Do not vaccinate within 60 days before slaughter.

**PRECAUTIONS:** Anaphylactoid reaction may occur following administration of products of this nature. If noted, administer adrenalin or equivalent.

Use of products containing oil adjuvants may result in formation of a transient or more permanent granuloma of small to moderate size.

**DOSAGE AND ADMINISTRATION:** Aseptically inject 2 ml subcutaneously in the upper part of the neck 60 days prior to breeding. Repeat the dose 30 days later.

Revaccinate annually just prior to breeding.

#### CHLAMYDIA PSITTACI BACTERIN

Killed Bacterin

Cat. #11522 20ml 10 Dose Cat. #11524 100ml 50 Dose



#### FOR VETERINARY USE ONLY







Sheep Insert



SUPPLIED: 20 EAZI-BREED CIDR Sheep Inserts per bag Each EAZI-BREED CIDR Sheep Insert contains 0.3 gram of progesterone in molded silicone over a flexible nylon spine. Attached to each EAZI-BREED CIDR Sheep Insert is a nylon tail. NADA 141-302, Approved by FDA



Active Ingredient: Progesterone, 0.3 gram per EAZI-BREED CIDR Sheep Insert Use: Induction of estrus in ewes (sheep) during seasonal anestrus. Seasonal anestrus is when ewes do not have regular estrous cycles outside the natural breeding season. EAZI-BREED CIDR Sheep Inserts have not been tested in estrous cycling ewes. Read booklet label before using drug for complete product information.

#### **WARNINGS:**

Human Warning: Avoid contact with skin by wearing protective gloves when handling the inserts

Keep this and all medications out of the reach of children.

Environmental Warning: Used (removed) EAZI-BREED CIDR Sheep Inserts still contain some progesterone. Used EAZI-BREED CIDR Sheep Inserts must be stored in a sealable container until disposed. Sealed bag/container with used EAZI-BREED CIDR Sheep Inserts must be properly disposed in accordance with applicable local, state and Federal regulations.

Residue Warning: A pre-slaughter withdrawal period is not required when this product is used according to label directions.

#### Other Information:

Store at controlled room temperature 20° to 25° C (68° to 77° F) with excursions between 15° to 30° C (59° to 86° F).

To report suspected adverse reactions or questions call Pfizer Animal Health at 1-800-366-5288.

**Inactive Ingredients:** silicone rubber, nylon. Made in New Zealand





#### DO NOT USE

- · In ewes with abnormal, immature or infected genital tracts
- · In ewes that have never lambed
- An insert more than once. To prevent the potential transmission of venereal and blood borne diseases the EAZI-BREED CIDR Sheep Insert should be disposed after a single use.

#### WHEN USING THIS PRODUCT

- In ewes that respond to treatment the onset of estrus generally occurs within 1 to 3 days after removal of the EAZI-BREED CIDR Sheep Insert.
- Make sure to have a sufficient number of rams to adequately breed all ewes with an induced estrus. Breeds of rams may vary in libido in the non-breeding season.
   Therefore a ewe to ram ratio up to 18:1 is recommended for multi-sire situations. For single sire lots, 12:1 for ram lambs and up to 18:1 for yearling rams are recommended.

#### YOU MAY NOTICE:

Clear, cloudy, yellow or bloody mucus on the outside of EAZI-BREED CIDR Sheep Insert when removed from ewes. The mucus may have an offensive odor. This is a result of mild irritation to the vaginal lining by the presence of the EAZI-BREED CIDR Sheep Insert, and generally clears between the time of removal and breeding. Such irritation does not affect fertility.

#### **DIRECTIONS:**

For induction of estrus in ewes (sheep) during seasonal anestrus:

- Administer one EAZI-BREED CIDR Sheep Insert per ewe for 5 days.
- After insert removal, use standard flock breeding procedures to breed ewes at induced estrus.

#### Insertion:

- 1. Avoid contact with skin by wearing protective gloves when handling inserts.
- Only use the specially designed EAZI-BREED CIDR Sheep Insert Applicator for administration.
- 3. Restrain ewes appropriately prior to administration.
- 4. Wash the applicator in a non-irritating antiseptic solution, and then apply a veterinary obstetrical lubricant to the end of the applicator.

- 5. Push the tail end of the EAZI-BREED CIDR Sheep Insert into the applicator taking care to assure the tail is extending upward through the slot of the applicator and is pointed away from the handle.
- 6. Fold the wings of the EAZI-BREED CIDR Sheep Insert to make it longer and continue to advance the insert into the applicator until it is fully seated with only the tips of the wings protruding from the end of the applicator (see Figure 1).
- 7. Lubricate the protruding tips of the wings of the EAZI-BREED CIDR Sheep Insert with veterinary obstetrical lubricant.
- 8. Clean the exterior of the vulva with disposable tissue.
- 9. Open the lips of the vulva and gently place the loaded applicator through the vulva. The slot in the applicator should face down (see Figure 2).
- 10. Once the loaded applicator is past the vulva slope the applicator slightly upwards (35 - 45° angle) by lowering the handle, and then forward, without forcing, until the applicator is fully inserted or resistance is felt (see Figure 3).
- 11. Squeeze the finger grips within the handle of the applicator to deposit the EAZI-BREED CIDR Sheep Insert in the anterior vagina (see Figure 4) and then pull the applicator backwards to remove it from the vagina.
- 12. With the EAZI-BREED CIDR Sheep Insert correctly placed, with the wings open in the anterior portion of the vagina, the tail of the insert should be visible, pointing downward from the vulva of the ewe.

#### Removal:

- Remove EAZI-BREED CIDR Sheep Inserts by pulling, gently but firmly, on the protruding nylon tail.
- EAZI-BREED CIDR Sheep Inserts may reverse direction within the vagina; therefore, if the nylon tail of the insert is not visible on the day of removal, check the vagina to determine if an insert is present.
- 3. Used (removed) EAZI-BREED CIDR Sheep Inserts must be stored in a sealable container until disposed. Sealed bag/container with used EAZI-BREED CIDR Sheep Inserts must be properly disposed in accordance with applicable local, state and Federal regulations.

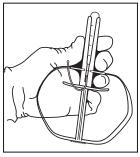


Figure 1

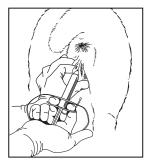


Figure 2

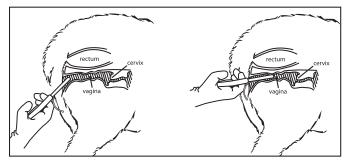


Figure 3



Figure 4

#### Made in New Zealand



Distributed by:

Pharmacia & Upjohn Company
Division of Pfizer Inc
NY, NY 10017

# EAZI-BREED is a trademark and CIDR is a registered trademark of DEC International, NZ, Ltd.

Dist. by: Pharmacia & Upjohn Co. Div. of Pfizer Inc, New York, NY 10017 www.pfizerah.com Customer Service: 1-800-733-5500

### Senior Team Breeding Exercise-2011

County\_\_\_\_KEY\_\_\_\_

Your team is managing a 500 head commercial sheep operation that derives most of its income from supplying a Western U.S. lamb feedlot with feeder lambs. Even though you ship your feeder lambs shortly after weaning at 75 days of age to the feedlot, your operation is paid based off of a carcass grid that rewards high cutability carcasses with above average loin eye areas (above 2.75 square inches). Your base ewe flock consists of mainly Dorset cross ewes. You have been using Suffolk and Hampshire rams lately that are producing growthy lambs, but have not added the leanness and muscle needed to achieve the premiums of the feedlot's carcass grid. You have decided to replace four (4) of your current rams and purchase four (4) new rams. The rams you purchase will only be used as a terminal sire with all replacement ewes being purchased from other breeders. A few of the very elite wether and ewe lambs will be marketed as club lambs to be shown at county and district shows in Kentucky. Your job is to select four (4) from the eight (8) Suffolk and Hampshire rams below that you want to purchase to replace the four (4) rams that you are culling, answer the questions and explain to the contest official why you chose the four (4) rams that you did. All rams may be purchased for \$1000.00 and you may purchase any combination of Suffolk and/or Hampshire rams, but you must purchase at least one (1) of each breed.

Ram#	Breed	Ram Name	% Lamb Crop EPD	60 Day Weight EPD	120 Day Weight EPD	Loin Eye Area EPD	Fleece Diameter EPD	Codon 171 Genotype
1	Suffolk	Luxford	+5.0	+2.8	+2.5	-0.7	+0.2	QR
2	Suffolk	Blue Duck	-2.5	+3.7	+4.4	+1.1	+1.1	QQ
3	Suffolk	Guywire	+8.2	+0.3	-1.9	+0.6	-0.9	RR
4	Suffolk	Vindicator	+1.7	+4.4	+7.1	+0.3	-0.4	QR
5	Hampshire	Rupp	+1.8	+3.9	+4.3	+1.4	+0.9	RR
6	Hampshire	Wildcat	+3.5	+1.2	+3.7	+0.4	-0.5	QR
7	Hampshire	Rock Solid	+0.5	+4.2	+4.9	+1.6	-0.1	RR
8	Hampshire	Venom	+0.9	+3.2	+4.0	+1.5	+0.2	QR
Suffolk Breed Average EPDs			+2.0	+2.5	+2.7	+0.4	+0.1	-
Hampshire Breed Average EPDs			+2.7	+2.0	+1.7	+0.7	-0.1	

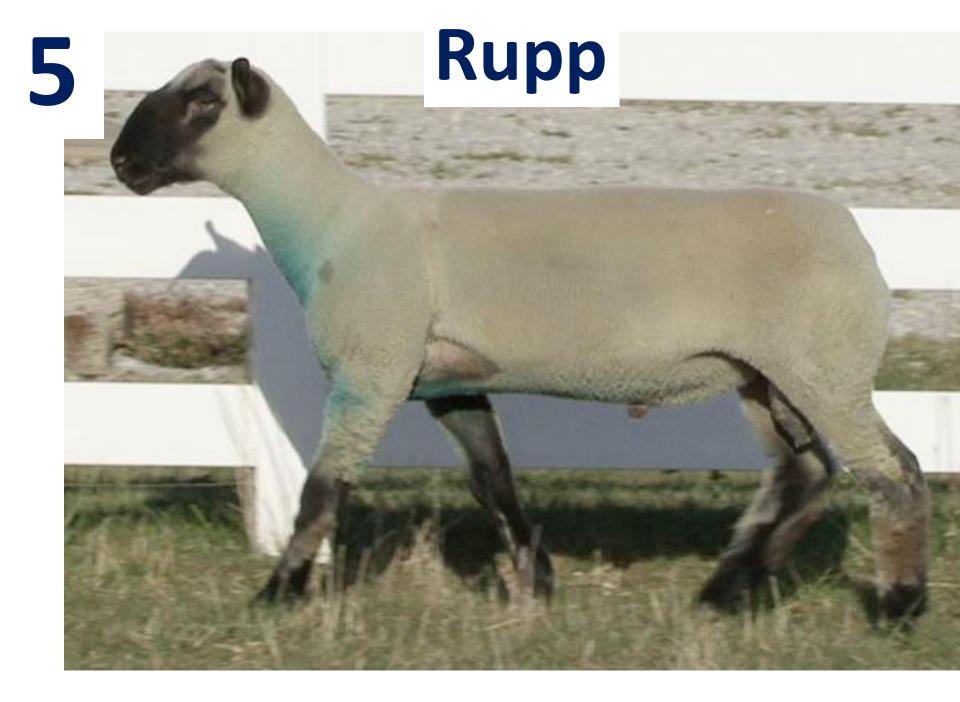
Which (4) rams	did your team choo	ose to use in this o	pperation?				
(1) Luxf	ord (2) Blue Du	ck (3) Guywin	re (4) Vindicat	tor (5) Ruj	pp (6) Wildo	cat (7) Rock So	lid (8) Venom
,	Considering the Suf carcasses with the h			nd genotypic	standpoint, whi	ch one would most	likely sire lambs that would produce
(1) Luxford	(2) Blue Duck	(3) Guywire	(4) Vindicator	<b>(5) Rupp</b>	(6) Wildcat	(7) Rock Solid	(8) Venom
2) (	Considering the Har	mpshire rams from	n a phenotypic sta	ndpoint, whic	h one appears to	o be the latest matu	ring?
(1) Luxford	(2) Blue Duck	(3) Guywire	(4) Vindicator	<b>(5) Rupp</b>	(6) Wildcat	(7) Rock Solid	(8) Venom
,	Which Suffolk ram ibcage?	appears to be the	widest gauged wit	h the most wi	dth through his	chest floor and the	most turn over his rack and center
(1) Luxford	(2) Blue Duck	(3) Guywire	(4) Vindicator	<b>(5) Rupp</b>	(6) Wildcat	(7) Rock Solid	(8) Venom
4)	Which two (2) Ham	pshire rams are th	ne trimmest and me	ost angular th	rough the front	1/3 of their body?	
(1) Luxford	(2) Blue Duck	(3) Guywire	(4) Vindicator	(5) Rupp	(6) Wildcat	(7) Rock Solid	(8) Venom
5) \	Which ram is the m	ost susceptible to	contracting Scrapi	ie?			
(1) Luxford	(2) Blue Duck	(3) Guywire (4	4) Vindicator (	(5) Rupp (	(6) Wildcat	(7) Rock Solid (	(8) Venom





Guywire 3





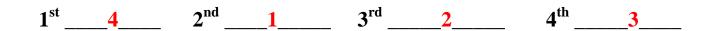




# Senior Team Feeding Exercise-2011 County\_\_\_**KEY**\_\_\_\_

You are the manager of a registered Hereford seedstock operation. You need to consider mineral nutrition options to enhance the conception rates of your artificial insemination program and the number of eggs per flush on your donor cows in your embryo transplant program. Review the attached mineral supplements.

All transportation and storage cost are reflected in the final costs of the mineral supplement. Rank the Mineral Supplements according to how you would feed them from first to last to meet the needs of the above scenario. You may consider economics of the mineral supplement, quality and physical characteristics of the ingredients contained in the supplement, and physiological and digestive considerations of the animals being feed. Finally explain to the contest official why you choose your 1st choice.



Mineral **number 4** is a very high quality chealated mineral (mineral attached to a protein) that is more available to the cowherd. It has above adequate levels of copper, zinc, selenium and other macro and micro minerals and vitamins. In short, it is designed for this very type of production scheme-artificial insemination and embryo transplant.

Minerals 1 and 2 have much lower levels of the same micro minerals and vitamins (number 2 is especially low in copper. It is designed to be fed to most all grazing livestock-beef cattle, horses, sheep, and goats)

Mineral **number 3** is basically salt (sodium chloride) with no chelates and low levels of trace minerals are most likely unavailable to the cowherd.

# \$15 per 50 lb. bag Product Information Sweetlix LIVESTOCK SUPPLEMENT SYSTEM

#10901 SWEETLIX\* 4% Mineral

#### Features & Benefits

- Free- choice supplement for beef cattle on pasture or with all- roughage rations
- · Scientifically balanced to be fed free- choice to cattle
- All protein, mineral and vitamin ingredients are selected for high biological availability and stability

#### **Nutrient Guarantee**

Calcium, Min	22.00%	Iodine, Min	5 ppm
Calcium, Max	26.00%	Manganese, Min	850 ppm
Phosphorus, Min	4.00%	Selenium, Min	26 ppm
Salt, Min	14.00%	Zinc, Min	550 ppm
Salt, Max	16.00%	Vitamin A, Min	20,000 IU/ lb
Copper, Min	200 ppm	Vitamin D-3, Min	2,000 IU/ lb
		Vitamin E, Min	2 IU/ lb



#### **Product Ingredients**

Calcium Carbonate, Monocalcium Phosphate, Dicalcium Phosphate, Salt, Processed Grain By- Products, Molasses Products, Roughage Products, Manganous Oxide, Manganese Sulfate, Zinc Oxide, Zinc Sulfate, Copper Chloride, Copper Sulfate, Sodium Selenite, Ethylenediamine Dihydroiodide, Calcium Iodate, Cobalt Carbonate, Vitamin A Supplement, Vitamin D-3 Supplement, Vitamin E Supplement, Red Iron Oxide and Artificial Flavoring.

#### **Feeding Directions**

SWEETLIX\*4% Phos is a 6:1 calcium to phosphorus mineral scientifically formulated to be fed free choice or mixed with the grain or roughage portion of the ration. SWEETLIX\*4% Phos helps your animals attain maximum performance by providing a balanced intake of supplemental minerals and vitamins.

#### Free Choice Recommendations

Feed at the rate of 2 to 4 oz. per head per day. Provide one covered mineral feeder for every 20 to 30 animals. Locate each mineral feeder near a clean, fresh source of water. Mineral consumption levels will vary depending upon the mineral status of the animals.

For additional information, please contact your SWEETLIX® representative.

**CAUTION:** Follow label directions. Four (4) ounces of this product provides 3 mg selenium. Consumption of selenium should not exceed 3 mg per head per day.

WARNING: This product, which contains added copper, should not be fed to sheep or any species that have a low tolerance to supplemental copper.

# \$12.50 per 50 lb. bag product Information



SWEETLIX 4% Multi-Purpose Mineral

#### Features & Benefits

- Free- choice supplement for beef cattle on pasture or with all-roughage rations
- · Scientifically balanced to be fed free- choice to cattle
- · All protein, mineral and vitamin ingredients are selected for high biological availability and stability

#### **Nutrient Guarantee**

Calcium, Min	20.00%	Copper, Max	35 ppm
Calcium, Max	24.00%	Manganese, Min	490 ppm
Phosphorus, Min	4.00%	Selenium, Min	19 ppm
Salt, Min	15.00%	Zinc, Min	750 ppm
Salt, Max	18.00%	Vitamin A, Min	20,000 IU/ lb
Copper, Min	5 ppm	Vitamin D-3, Min	2,000 IU/ lb
		Vitamin E, Min	2 IU/ lb



#### **Product Ingredients**

Calcium Carbonate, Monocalcium Phosphate, Dicalcium Phosphate, Salt, Molasses Products, Roughage Products, Processed Grain By- Products, Vitamin A Supplement, Vitamin D-3 Supplement, Vitamin E Supplement, Manganous Oxide, Zinc Oxide, Sodium Selenite, Red Iron Oxide and Caramel Flavoring.

#### **Feeding Directions**

#### Free Choice Recommendations

Feed at a rate of 2 to 5 oz. per head per day for cattle and horses and 0.5 to 1.3 oz. for sheep and goats. Five (5) ounces of this product provides 3 mg selenium and 1.3 ounces provides 0.7 mg selenium. Provide one covered mineral feeder for every 10 to 30 animals. Locate each mineral feeder near a clean, fresh source of water. Mineral consumption levels will vary depending upon the mineral status of the animals.

For additional information, please contact your SWEETLIX® representative.

CAUTION: Follow label directions. Consumption of selenium should not exceed 3 mg per head per day for cattle and horses. Consumption of selenium should not exceed 0.7 mg per head per day for sheep and goats.



www.sweetlix.com 1-888-718-3493

# #3 \$ 10 per 50 lb. bag



# REDMOND NATURAL TRACE MINERAL SALT ANALYSIS

**Product Description:** Ancient Sea Salt With Natural Trace Minerals **Guaranteed Analysis** 

Chemical Analysis	Avg.	Max.	Min.
Sodium Chloride	93%	96%	91%
Calcium	0.55%	0.85%	0.35%
Copper			3 ppm
lodine	12 ppm		10 ppm
Iron	500 ppm		300 ppm
Magnesium	0.09%		0.06%
Manganese			5 ppm
Phosphorus			0.02%
Potassium			0.03%
Sulfur	0.2%		0.07%
Zinc			3 ppm

Also Contains Over 50 Natural Minerals Including the Following in Alphabetical Order:

#### **Typical - Not Guaranteed**

Mineral	ppm	Mineral	ppm	Mineral	ppm
Aluminum	215	Gadolinium	.61	Selenium	0.23
Antimony	1.08	Gallium	2.36	Silicon	3000
Arsenic	0.05	Germanium	.27	Silver	.29
Barium	9.95	Indium	.37	Strontium	11.9
Bismuth	0.38	Lanthanum	0.08	Tantalum	.97
Boron	1.07	Lead	0.06	Tellurium	0.17
Bromine	10.51	Lithium	0.74	Thallium	.09
Cadmium	.27	Lutetium	.07	Thorium	0.19
Carbon	204	Molybdenum	0.08	Thulium	.07
Cerium	.76	Nickel	.07	Tin	.12
Cesium	.33	Niobium	0.11	Titanium	0.93
Chromium	0.16	Praseodymium	.11	Tungsten	.11
Cobalt	0.08	Rubidium	3.77	Vanadium	.18
Dysporsium	.21	Ruthenium	.07	Ytterbium	.07
Erbium	1.34	Samarium	1.44	Yttrium	0.04
Fluoride	13.8	Scandium	.18	Zirconium	2.95

Redmond Minerals, Inc. PO Box 219 6005 N 100 W Redmond, UT 84652

> Phone: (435) 529-7402 Fax: (435) 529-7486 Toll Free: (866) 735-7258

www.redmondnatural.com

- #10 Fine: goes through a 10-mesh screen, it is approximately 1/16 of an inch, it is like coarse sand.
- #4 Medium: goes through a 4-mesh screen, it is approximately 1/8 of an inch, it is like kernels of wheat.
- #3 Coarse: goes through a 3-mesh screen, it is approximately 1/4 of an inch, it is like dried peas.

Available in 50 Lb. Bag, Superbag, Bulk & Block

To the best of our knowledge and belief, the above information is accurate. Because the conditions of handling and use are beyond our control, we cannot guarantee results, and assume no liability for damages incurred in using our product.

# ‡4 \$20 per 50 lb. bag product Information



#10875 SWEETLIX® CopperHead® Max 12:12 Mineral

#### Features & Benefits

- Loose mineral supplement scientifically designed to combat copper deficiency in cattle
- Contains 2500 ppm copper for enhanced copper nutrition
- · Helps counteract copper deficiency symptoms including:
- · Rough, discolored hair (black cattle with red tinged coats)
- · Slow shed out in spring
- o Slow breeders
- Poor immunity
- · Contains 12% phosphorus to prevent phosphorus deficiency in forage based diets
- Enhanced levels of trace minerals for maximum productivity
   All CopperHead<sup>®</sup> minerals contain organic chelated sources of zinc, manganese and cobalt, as well as copper
- Highly palatable mineral ideal for reproductive and growth performance
   Contains RainBloc<sup>®</sup> for increased resistance to moisture
- · Ideal for growing and brood cattle on forages known to be low in phosphorus

#### **Nutrient Guarantee**

Calcium, Min	12.00%	Iodine, Min	90 ppm
Calcium, Max	14.40%	Manganese, Min	7,500 ppm
Phosphorus, Min	12.00%	Selenium, Min	26 ppm
Salt, Min	10.00%	Zinc, Min	7,500 ppm
Salt, Max	12.00%	Vitamin A, Min	200,000 IU/ lb
Magnesium, Min	2.00%	Vitamin D-3, Min	20,000 IU/ lb
Cobalt, Min	25 ppm	Vitamin E, Min	200 IU/ lb
Copper, Min	2,500 ppm		



