	160,1
Name: _	1100

county:	/

Senior Livestock Breed Identification - 2024

60 points

Instructions – For each picture use the box on the right to choose the letter that indicates your answer for each livestock breed and use the box at the bottom of the page to choose the letter for the breed description. You must fill in (bubble) the scantron sheet corresponding with the breed name in the breed identification section, fill in the characteristics/traits in the breed description section. Bubble your answers on the scantron sheet while you are at the breed identification station. You may fill out this sheet to keep and go over with your coach at the conclusion of the contest. Each question is worth 3 points.

Breed Identification	Breed Description
1	\mathcal{M}
2. A	E
3. P	T
4. B	C
5. J	J
6. I	G
7. N	0
8. T	P
9. C	F
10. R	Q

Beef Breeds	Goat Breeds	Sheep Breeds
A. Beefmaster	G. Angora	J. Cheviot
B. Chianina	H. Boer	K. Finnsheep
C. Gelbvieh	I. Kiko	L. Katahdin
D. Santa Gertrudis		M. Merino
E. Shorthorn	Swine Breeds	N. Rambouillet
F. Simmental	P. Berkshire	O. Tunis
	Q. Hampshire	
	R. Landrance	
	S. Poland China	
	T. Pietrain	

Breed Description – important characteristics/traits, used to answer breed description column Beef Cattle Characteristics/Traits

- A. A British breed that is highly fertile and has calving ease.
- **B.** Developed at King's Ranch in Texas by crossing Brahman and Shorthorn.
- C. Known for their size, this breed originated in Italy.
- **D.** Originating in Switzerland this breed is considered one of the oldest cattle breeds in the world.
- E. The first American composite breed, created by crossing Hereford, Shorthorn, and Brahman.
- F. This German breed was originally used for meat, milk, and work.

Goat Characteristics/Traits

- **G.** A medium size breed developed in New Zealand whose defining strength is rapid growth rates in kids.
- H. Originating in South Africa this breed is known for being early maturing and low maintenance.
- I. Small in size and produces the finest mohair.

Sheep Characteristics/Traits

- J. A meat breed that is known for its hardiness, this breed originated in England/Scotland.
- K. A medium wool meat breed that originated in North Africa/Middle
- L. A long wool breed whose defining strength is being highly prolific.
- **M.** Developed in Maine this hair breed genetically has some parasite resistance.
- N. Known for producing high quality fine wool, this breed originated in Spain.
- O. This fine wool breed originated in France.

Swine Characteristics/Traits

- **P.** A Belgium breed whose defining strength is leanness, however the breed carries the Halothane gene.
- **Q.** A Danish breed whose defining strength is maternal ability and large litter size.
- R. Created by crossing Poland China and Big China pigs.
- S. Developed in Ohio, is one of America's oldest swine breeds.
- T. Known for superior meat quality this breed originated in England.

Before you leave the station complete the breed identification and breed description section on your scantron sheet.





















Name: Key

Senior Equipment Identification - 2024

60 points

Instructions – For each piece of equipment choose the letter that indicates your answer. You must fill in (bubble) the scantron sheet corresponding with the equipment name in the equipment identification section. Bubble your answers on the scantron sheet while you are at the equipment identification station. You may fill out this sheet to keep and go over with your coach at the conclusion of the contest. Each question is worth 3 points.

1 00	The state of the contest Each question to worth 5 points.
1. Marking harness P	Equipment Names – to be used to answer equipment identification
2. Prolapse type Q	
3. Cleaver E	A. AI catheter
	B. Balling gun
4. Fencing pliers L	C. Boning knife
5. Lamb puller O	D. CIDR applicator
6. Emasculator K	E. Cleaver
7. AI catheter A	F. Comb
8. Balling gun B	G. Cutter
8. balling gun b	H. Drench gun
9. Comb	I. Ear notcher
10. Whale saw T	J. Emasculatome
11. Ear notcher I	K. Emasculator
12. CIDR applicator D	L. Fencing pliers
13. Drench Qun H	M. Hoof shears
	N. Implant gun
14. Implant gun N	O. Lamb puller
15. Cutter 6	P. Marking harness
16. Emasculatome J	Q. Prolapse tube
17. Boning Knife C	R. Ribeye area grid
18. REA grid R	S. Teeth nipper
	T. Whale saw
19. Hoof shears N)	

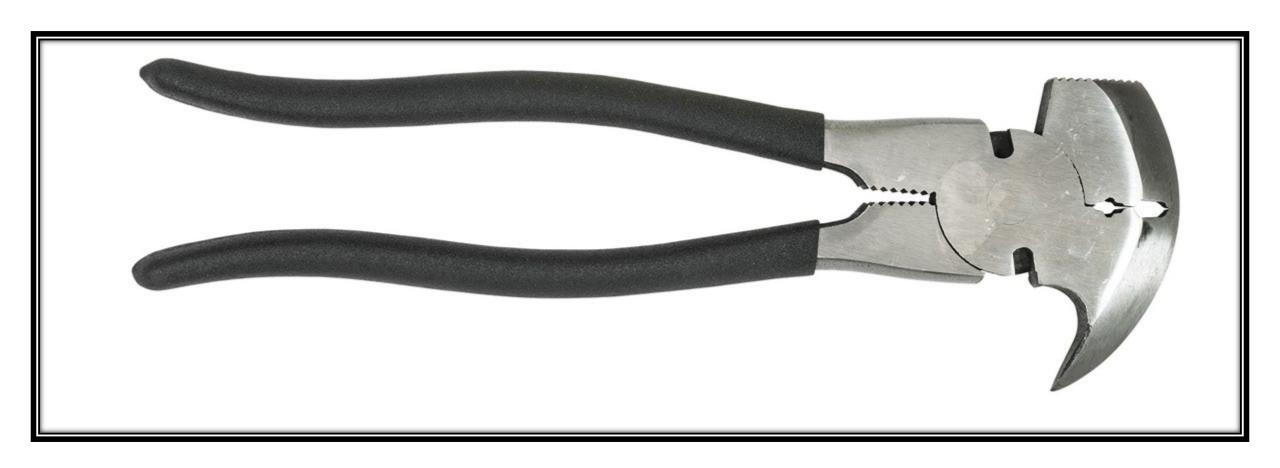
Before you leave the station complete the equipment identification section on your scantron sheet.

20. Teeth nipper S

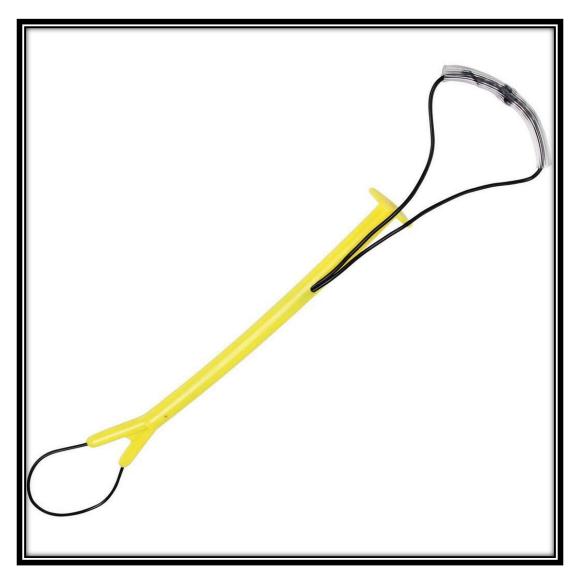








5.



6.















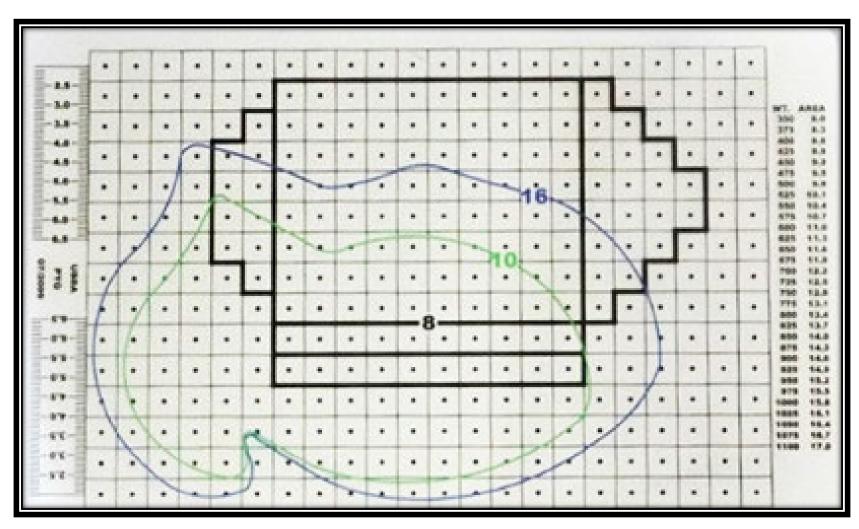


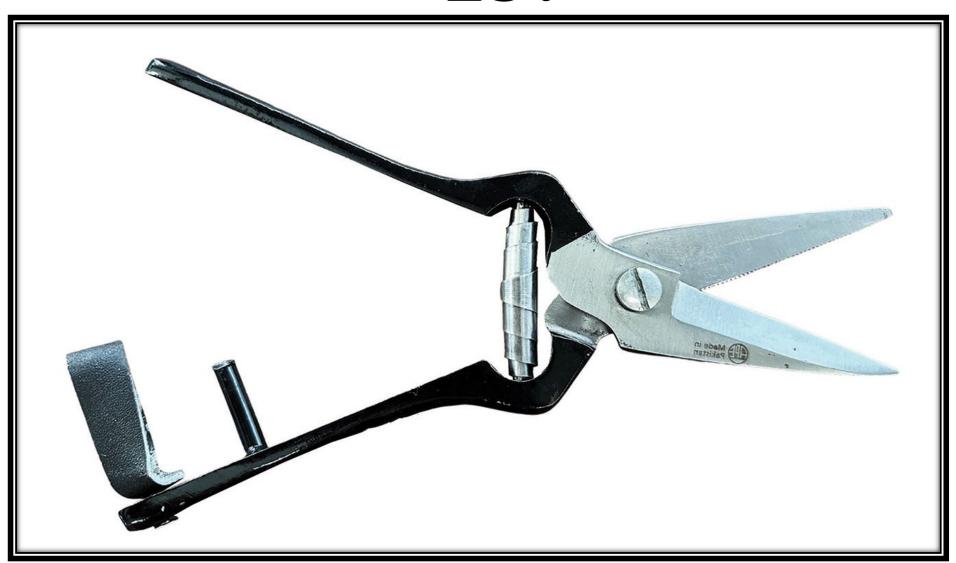














Name:	County:	
	J	

Senior Feed Identification - 2024

60 points

Instructions – For each feed use the box on the right to choose the letter that indicates your answer for feed name for each feedstuff and use the box at the bottom of the page to choose the letter for the feed usage/important characteristics. You must fill in (bubble) the scantron sheet corresponding with the feed name in the feed identification section and the corresponding feed usage/important characteristics in the feed usage section. Bubble your answers on the scantron sheet while you are at the feed identification station. You may fill out this sheet to keep and go over with your coach at the conclusion of the contest. Each question is worth 3 points.

Feed Identification	Feed Usage
1 Soubean real P	K
2. Dical phosphateG	I
3. Oathhole) N	N
4. Compages D	F
5. Dried molasses I	C
6. premix Seral	B
7. Cottonseed meal E	G
8. Ammonia chloride A	0
9. Fishmed J	D
10. Milo (whole)	m

Feed Names - to be used to answer feed identification	
A. Ammonia chloride	K. Ground ear corn
B. Barley (whole)	L. Ground limestone
C. Bakery meal	M. Milo (whole)
D. Corn distillers dried grains with solubles	N. Oats (whole)
E. Cottonseed meal	O. Salt (white)
F. Dehydrated alfalfa meal	P. Soybean meal
G. Dicalcium phosphate	Q. Spray dried plasma protein
H. Dried beet pulp	R. Spray dried whey
I. Dried molasses	S. Trace mineral premix
J. Fish meal	T. Wheat (whole)

Feed Usage - important characteristics and feed usage, used to answer feed usage column

- A. Carbohydrate feed that is a co-product from the food industry, is high in salt, fat, and sugar.
- B. A carrying agent is mixed with iron, iodine, zinc, copper, and selenium; can be provided to the animal free choice.
- C. A highly palatable energy source in livestock diets, produced by drying sugar from either sugar beets or sugarcane.
- D. Animal protein source that contains high concentrations of crude protein, lysine, and omega-3-fatty acids.
- E. Animal protein source that is a by-product of swine and bovine harvesting plants, has low levels of methionine.
- F. Co-product of fermentation during ethanol or alcohol production; high in polyunsaturated fatty acids.
- G. Fed primarily to ruminant animals; has an anti-nutritional factor, gossypol, which can be toxic when not heat processed.
- H. Mineral source that is important in electrolyte balance and pH regulation.

- Mineral supplement that supplies calcium and phosphorus to livestock; when deficient reduced growth and impaired bone mineralization can occur.
- J. Mineral supplement that supplies calcium to livestock; important for skeletal development, lean tissue disposition, and muscle contractions.
- K. Most common plant protein source in livestock diets.
- L. Produced after the fat and casein have been removed; contains high levels of lactose.
- M. Produced primarily in the arid parts of the U.S., this energy feed is comparable to corn, but contains slightly more statured fatty acids.
- N. Simplex carbohydrate that is used primarily when feeding young animals this feed can be fed whole but is most often further processed.
- O. Used in sheep and goat diets to promote urinary tract health.





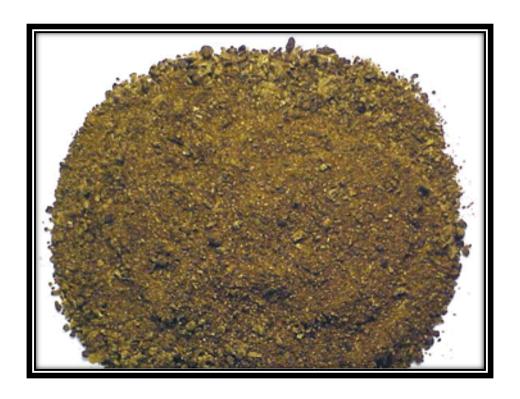




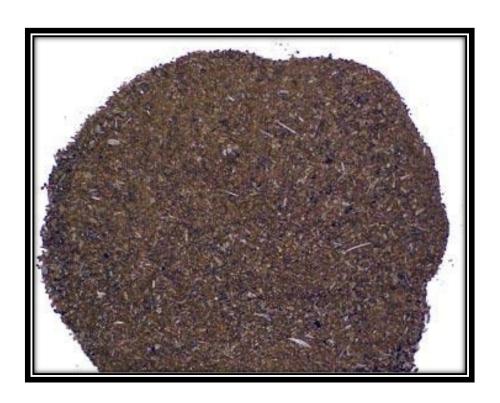


6.











Name:	Key

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County	•	

Senior Retail Meat Identification - 2024

60 points

Instructions – For each picture use the boxes below and to the right to choose the number or letter that indicates your answer for each retail meat cut. You must select a **Specie, Primal Cut**, and **both digits of the Retail Cut**. You must fill in (bubble) the scantron sheet corresponding with the specie, primal, retail first digit, and retail second digit in the meat identification – retail cuts section. Bubble your answers on the scantron sheet while you are at the retail meat identification station. You may fill out this sheet to keep and go over with your coach at the conclusion of the contest. Each question is worth 6 points (species 2 points, primal 2 points, retail 2 points).

#	Specie	Primal Cut	Retail Cut First Digit	Retail Cut Second Digit
1.	L	I	5	7
2.	P	2	7	9
3.	B	A	Ö	2
4.	P	7	6	9
5.	L	G	4	9
6.	B	D	2	\
7.	P	L	6	5
8.	L	J	5	9
9.	B	F	3	3
10.	P	K	9	7

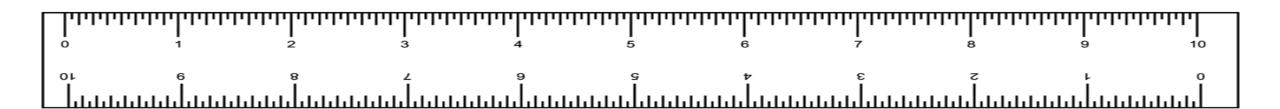
<u>Beef</u>	Lamb	<u>Pork</u>
A. Brisket	G. Leg	K. Belly/Side
B. Chuck	H. Loin	L. Ham
C. Loin	I. Rack	M. Loin
D. Plate	J. Shoulder	N. Picnic shoulder
E. Rib		
F. Round		

Specie – to be use	ed to answer specie identificat	tion
The letter may be	used more than once	
B. Beef	L. Lamb	P. Pork

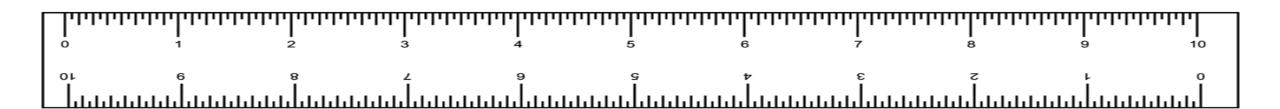
Beef	nswer retail cut identification		
01. Beef for stew	12. Flank steak	23. Rib roast, large end	34. Heel of round roast
02. Brisket, flat	13. Sirloin steak, flat bone	24. Rib roast, small end	35. Rump roast, boneless
03. Brisket, whole	14. Sirloin steak, pin bone	25. Rib steak, small end	36. Round steak
04. Arm roast	15. Sirloin steak, round bone	26. Ribeye roast	37. Round steak, boneles
05. Arm roast, boneless	16. Sirloin steak, boneless	27. Ribeye steak	38. Tip roast
06. Arm steak	17. Tenderloin steak	28. Plate short ribs	39. Tip roast, cap off
07. Arm steak, boneless	18. Porterhouse steak	29. Plate skirt steak	40. Tip steak
08. Blade roast	19. T-bone steak	30. Bottom round roast	41. Tip steak, cap off
09. Blade steak	20. Top loin steak	31. Bottom round steak	42. Top round roast
10. 7-bone roast	21. Short ribs	32. Eye round roast	43. Heart
11. 7-bone steak	22. Skirt steak	33. Eye round steak	44. Liver
Lamb			
45. Breast	50. Leg shank half	55. Loin roast	59. Should blade chop
46. Breast riblets	51. Leg sirloin chop	56. Rib chop	60. Shoulder neck slice
47. American style roast	52. Leg sirloin half	57. Rib roast	61. Shoulder square cut
48. French style roast	53. Loin chop	58. Rib roast, boneless	62. Kidney
49. Leg center slice	54. Loin double chop		63. Liver
Pork			
64. Fresh ham center slice	69. Blade roast	74. Rib chop	79. Arm steak
65. Fresh ham rump portion	70. Butterfly chop	75. Sirloin chop	80. Blade roast
66. Fresh ham shank portion	71. Center rib roast	76. Top loin chop	81. Sliced bacon
67. Fresh side pork	72. Center loin roast	77. Arm picnic roast	82. Spare ribs
68. Blade chop	73. Loin chop	78. Arm roast	83. Hock











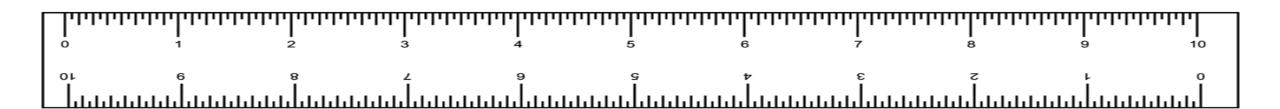


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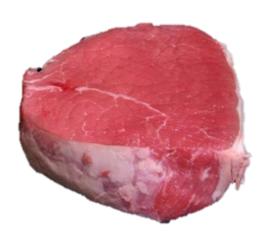


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Name: <u>hey</u>

Senior Exam - 2024

60 points

Instructions – For each question select the answer that best completes the sentence or answers the question. You must fill in (bubble) your answers on the scantron sheet in the exam section. Bubble your answers on the scantron sheet while you are at the exam station. You may fill out this sheet to keep and go over with your coach at the conclusion of the contest. Each question is worth 2 points.

1.	Vitamin is n	not a fat-soluble vitamin.			
	a. A	b. C	c. D	d.	K
2.	is the locati	on of sperm maturation and	l sperm storage in a bull.		
	a. Epididymis	b. Penis	c. Scrotum	d.	Urethra
(4)					
3.	The hindsaddle on market lar	mb is from the	back.		
	a. First rib	b. Hip bone	c. Last rib	d.	Shoulder
4.	The red roan color in Shortho	orn cattle is an example of w	hat type of inheritance?		
	a. Dominance	b. Epistasis	c. Incomplete dominance	d.	Recessive
5 .	The quality	orade in beef cattle is only u	sed for A maturity carcasses.		
	a. Choice	b. Commercial	c. Prime	d.	Select
6.	The hormone GnRH (gonado	otrophin releasing hormone)	is released by the		
J.	a. Hypothalamus	b. Ovary	c. Testicle	d.	—· Thyroid
		- ,			

Jam	ne: 1 E U	Tier	X	*
			\circ	
7.	Sunflower meal in a heifer's	diet provides what main nu	atrient?	
	a. Carbohydrate	b. Fat	c. Protein	d. Vitamins
0				
8.	A doe has grass tetany, she h			
	a. Calcium	b. Glucose	c. Magnesium	d. Sodium
9.	Ewes gestate for	days.		
•	a. 114	b. 148	c. 283	d. 336
	a. 117	D. 140	C. 263	d. 330
		N		
10.	Ruminant animals produce _	in their ru	men for an energy source.	
	a. Carbon dioxide	b. Fructose	c. Methane	d. Volatile fatty acids
		J. Tuecose	c. Mediane	acids
11.	is the site o	of fertilization in a ewe.		
	a. Cervix	b. Ovary	c. Oviduct	d. Uterus
			2	
12.	Most U.S. cattle farms breed a. 1	heifers so females give bir	th to their first calf atc. 3	year(s) of age. d. 4
		0. 2	c. <i>5</i>	и. т
13.	is a comple	x carbohydrate.		
	a. Corn	b. Feather meal	c. Molasses	d. Tall fescue hay
y - com				
14.	For a herd of Brangus cows	in Kentucky	would be an ideal body o	condition score.

d. 8

b. 3

a. 1

Nam	e: hey	7.		N) A
			4	
15.		n disease that affects sheep	and goats.	
	a. Caseous lymphadenitis	b. Erysipelas	c. Scrapie	d. Tetanus
	1) III piladeilido	b. Diyoipeias	c. Scrapic	d. Tetanus
16.	In young calves the sent directly to the aboma	is responsible for sum. b. Esophageal groove	or directing milk away from th	e rumen, instead milk is d. Trachea
		groove	c. I yione spinneter	d. Hachea
17.	To treat for footrot a foot	bath containing	is used.	,
	a. Ammonia sulfate	h Calainen autou	c. Magnesium	1 77 16
	a. Ammonia sultate	b. Calcium sulfate	sulfate	d. Zinc sulfate
18.	In cattle EPDs, which cate	egory is a lower value prefe b. Calving ease	rred when selecting a bull to b c. Scrotal circumference	reed to first-calf heifers? d. Yearling weight
19.	B is the sta	ndard waaning ago for awin	o in IIC common in law and in	
1).	a. 12 days of age	b. 21 days of age	ne in U.S. commercial operation c. 30 days of age	d. 60 days of age
20.		sheep refers to ewes being		months.
	a. Autumn	b. Spring	c. Summer	d. Winter
21.	Which is not an essential a		T	1 77 1
	a. Arginine	b. Casein	c. Lysine	d. Valine
22.	A carcass	s has two spool joints.		
9	a. Beef	b. Lamb	c. Mutton	d. Swine

Vam	ne: 100			A.
23	Which breed was develope	d in Dubois Idaho?		
23.	a. Beefmaster	b. Chester White	c. Polled Hereford	d. Polypay
24.	Pale, soft, and exudative (Pale, soft, and sof	SE) meat is an issue seen in b. Goat	c. Lamb	d. Pork
25.	To prevent urinary calculi i a. Ammonia chloride	n ram lambsA b. Copper sulfate	is added to diets. c. Sodium chloride	d. Urea
26.	A ewe lamb gives birth to t	win ram lambs. She has a _	% lamb crop.	
	a. 0	b. 100	c. 150	d. 200
27.	Stocker operations sell a. 60-100	b. 400-650	at a sale barn or stockyard.	d. 1,100-1,250
28.	In which specie is artificial	insemination most frequent	ly used?	
	a. Beef cattle	b. Goat	c. Sheep	d. Swine
29.	Goat kids are weaned at a. 21	days of age.	c. 60	d. 90
30.	Newborn pigs are given an	injection of	_ as they are born deficient.	
	a. Calcium	b. Fluoride	c. Iodine	d. Iron

Name: Hey

Senior Individual Quality Assurance - 2024

60 points

Instructions – For each question select the answer that best completes the sentence or answers the question. You must fill in (bubble) your answers on the scantron sheet in the quality assurance section. Bubble your answers on the scantron sheet while you are at the quality assurance station. You may fill out this sheet to keep and go over with your coach at the conclusion of the contest. Each question is worth 3 points.

H&H farm is located in south central Kentucky. The farm is a 50 head Hereford cow-calf operation. Additionally, the farm has a Hampshire farrow-to-finish operation. The farm's veterinarian recommended the use of Ivermectin Injection to treat and control parasites in both the cattle and swine herd. Use the product label to answer the following questions or complete the sentence.

1.	The slaughter withdrawal a. 18	for cattle is	_ days.	d. 59
2.	When using Ivermectin I	njection in gestating sows a	gauge need	dle should be used. d. 22
3.	Which administration rou	te should be used when givin	ng Ivermectin Injection to o	_
4.	One of the farm's sows is with Ivermectin Injection a. February 1	scheduled to farrow on Feb to minimize piglet parasite is b. February 6	ruary 20. When is the earlienfection? c. February 12	
5.	When giving Ivermectin I over two injection sites. a. 5	njection at volumes greater t	han <u>B</u> mL th	d. 20
6.	The farm is considering ra	uising several calves for veal. b. True	Ivermectin Injection is app	proved in veal calves. A

	e: <u>Peu</u>		r.	
7.		ereford cow that weighs 1,43	0 pounds. He needs to add	minister
	a. 10	b. 11	c. 12	d. 13
8.	When storing Ivermectin a. Dark at 40°F	Injection it should be stored b. Dark at 75°F	in the c. Light at 40°F	d. Light at 75°F
9.	a. AI boars	pproved to be treated with I b. Feedlot steers	vermectin Injection. c. Lactating dairy cows	d. Reindeer
10.	Where is Ivermectin Injeca. California		76.	
	a. California	b. Germany	c. Missouri	d. United Kingdom
11.		t effective for the treatment of	of	
	 Cattle grubs 			
		b. Lungworms	c. Manage mites	d. Tapeworms
12.	The average weight of the Injection is needed?	b. Lungworms farm's 8 bred sows is 328 pc		
12.	The average weight of the Injection is needed? a. 25mL			
12. 13.	a. 25mL When using Ivermectin In	farm's 8 bred sows is 328 po b. 35mL	ounds/sow. To treat all 8 so c. 40mL g pigs how many days after	ows how much Ivermectin d. 45mL
	a. 25mL When using Ivermectin In	farm's 8 bred sows is 328 pc	ounds/sow. To treat all 8 so c. 40mL g pigs how many days after	ows how much Ivermectin d. 45mL
	a. 25mL When using Ivermectin In recommended to move the a. 7 days	farm's 8 bred sows is 328 pc b. 35mL jection to treat lice in growing treated swine to a clean per	ounds/sow. To treat all 8 so c. 40mL g pigs how many days after a? A c. 21 days	d. 45mL treatment is it d. Immediately after treatment

Name: hey

a. Behind ear

15.	If a heifer gets an injection site a. Antibiotics	reaction after Ivermecti b. Copper sulfate	n Injection is given, how shou c. Lutalyse	d. Second dose of Ivermectin
16.	When administering Ivermecting a. 16 gauge, ½ inch	Injection to cattle the p		needle.
17.	The farmer is treating his 50 po	und growing pigs, he ne		d. 18 gauge, 1 inchmL per pig.
18.	a. 1/3 The slaughter withdrawal for sw	b. ½ vine is	c. 2/3 days.	d. ³ / ₄
	a. 7 The farmer is going to breed or	b. 18	c. 26	d. 35
19.	administered to the gilt?	b. February 9	c. February 17	d. February 28
20.	Where should injections of Iver	mectin Injection be adn	ninistered to boars?	d In front of

shoulder

b. Elbow pocket c. Ham

Ivermectin Injection

1% Sterile Solution



(ivermectin)

INJECTION FOR CATTLE AND SWINE 1% Sterile Solution

A Parasiticide for the Treatment and Control of Internal and External Parasites of Cattle and Swine.

Consult your veterinarian for assistance in the diagnosis, treatment and control of parasitism.

Nermectin (ivermectin) Injection is an injectable parasiticide for cattle and swine. One low-volume dose effectively treats and controls the following internal and external parasites that may impair the health of cattle and swine: gastrointestinal roundworms (including inhibited *Ostertagia ostertagi* in cattle), lungworms, grubs, sucking lice, and mange mites of cattle, and gastrointestinal roundworms, lungworms, lice, and mange mites of swine. Ivermectin's convenience, broad-spectrum efficacy and safety margin make Ivermectin Injection a unique product for parasite control of cattle and swine.

PRODUCT DESCRIPTION

Nermectin is derived from the avermectins, a family of potent, broad-spectrum antiparasitic agents isolated from fermentation of *Streptomyces avermitilis*.

Ivermectin Injection is a clear, ready-to-use, sterile solution containing 1% ivermectin, 40% glycerol formal, and propylene glycol (s. a. at 100%. Nermectin Injection is formulated to deliver the recommended dose level of 200 mcg ivermectin/kilogram of body weight in cattle when given subcutaneously at the rate of 1 mL/110 lb (50 kg). In Swine, levermectin Injection is formulated to deliver the recommended dose level of 300 mcg ivermectin/kilogram body weight when given subcutaneously in the neck at the rate of 1 mL per 75 lb (33 kg).

MODE OF ACTION

MODE OF ACTION

Vermectin is a member of the macrocyclic lactone class of endectocides which have a unique mode of action. Compounds of the class bind selectively and with high affinity to glutamate-gated chloride ion channels which occur in invertebrate never and muscle cells. This leads to an increase in the permeability of the cell membrane to chloride ions with hyperpolarization of the nerve or muscle cell, resulting in paralysis and death of the parasite. Compounds of this class may also interact with other ligand-gated chloride channels, such as those gated by the neurotransmitter gamma-aminobutyric acid (GABA).

The margin of safety for compounds of this class is attributable to the fact that mammals do not have glutamate-gated chloride channels, the macrocyclic lactones have a low affinity for other mammalian ligand-gated chloride channels and they do not readily cross the blood-brain barrier.

Cattle: Ivermectin Injection is indicated for the effective treatment and control of the following harmful species of gastrointestinal roundworms, lungworms, grubs, sucking lice, and mange mites in cattle:

Gastrointestinal Roundworms (adults and fourth-stage larvae): Ostertagia ostertagi (including inhibited O. ostertagi) O. lyrata Haemonchus placei

Trichostrongylus axei T. colubriformis Cooperia oncophora

C. punctata

C. pectinata

Oesophagostomum radiatum Bunostomum phlebotomum Nematodirus helvetianus (adults only)

N. spathiger (adults only)

Lungworms (adults and fourth-stage larvae): Dictyocaulus viviparus

Hypoderma bovis H. lineatum

Sucking Lice: Linognathus vituli Haematopinus eurysternus Solenopotes capillatus

Psoroptes ovis (syn. P. communis var. bovis)

Sarcoptes scabiei var. bovis

Persistent Activity Ivermectin injection has been proved to effectively control infections and to protect cattle from reinfection with *Dictyocaulus viviparus* and *Oesophagostomum* radiatum for 28 days after treatment, *Ostertagia astertagi, Tirchostrongylus axei* and *Cooperia punctata* for 21 days after treatment, *Haemonchus placei* and *Cooperia oncophora* for 14 days after treatment.

Swine: Ivermectin Injection is indicated for the effective treatment and control of the following harmful species of gastrointestinal roundworms, lungworms, lice and mange mites in swine:

Gastrointestinal Roundworms:

Large roundworm, *Ascaris suun* (adults and fourth-stage larvae) Red stomach worm, Hyostrongylus rubidus (adults and fourth-stage larvae) Nodular worm, Oesophagostomum spp. (adults and fourth-stage larvae) Threadworm. Strongyloides ransomi (adults)

Somatic Roundworm Larvae:

Threadworm, Strongyloides ransomi (somatic larvae) Sows must be treated at least seven days before farrowing to prevent infection in

Lungworms: Metastrongylus spp. (adults)

Haematopinus suis

Mange Mites: Sarcoptes scabiei var. suis

Cattle; Ivermectin Injection should be given only by subcutaneous injection under the loose skin in front of or behind the shoulder at the recommended dose level of 200 mcg of ivermectin per kilogram of body weight. Each mL of Ivermectin Injection contains 10 mg of ivermectin, sufficient to treat 110 lb (50 kg) of body weight (maximum 10 mL per injection site).

Body Weight (lb)	Dose Volume (mL)
220	2
330	3
440	4
550	5
660	6
770	7
880	8
990	9
1100	10

<u>Swine:</u> Ivermectin Injection should be given only by subcutaneous injection in the neck of swine at the recommended dose level of 300 mcg of ivermectin per kilogram (2.2 lb) of body weight. Each mL of Ivermectin Injection contains 10 mg of ivermectin, sufficient to treat 75 lb of body weight.

	Body Weight (Ib)	Dose Volume (mL)
Growing Pigs	19 38 75 150	1/4 1/2 1 2
Breeding Animals (Sows, Gilts, and Boars)	225 300 375	3 4 5

Do not underdose. Ensure each animal receives a complete dose based on a current body weight. Underdosing may result in ineffective treatment, and encourage the development of parasitic resistance.

Administration:

Cattle: Ivermeetin Injection is to be given subcutaneously only, to reduce risk of potentially fatal clostridial infection of the injection site. Animals should be appropriately restrained to achieve the proper route of administration. Use of a 16-gauge, 1/2 to 3/4 inch needle is suggested. Inject under the loose skin in front of or behind the shoulder (see illustration).



When using the 250, 500 or 1000 mL pack size, use only automatic syringe

Use sterile equipment and sanitize the injection site by applying a suitable disinfectant. Clean, properly disinfected needles should be used to reduce the potential for injection site infections.

No special handling or protective clothing is necessary.



Ivermectin Injection

1% Sterile Solution

Swine: Ivermectin (ivermectin) Injection is to be given subcutaneously in the neck. Animals should be appropriately restrained to achieve the proper route of administration. Use of a 16- or 18-gauge needle is suggested for sows and boars, while an 18- or 20-gauge needle may be appropriate for young animals. Inject under the skin, immediately behind the ear (see illustration).



When using the 100, 250, 500 or 1000 mL pack size, use only automatic syringe equipment. As with any injection, sterile equipment should be used. The injection site should be cleaned and disinfected with alcohol before injection. The rubber stopper should also be disinfected with alcohol to prevent contamination of the contents. Mild and transient pain reactions may be seen in some swine following subcutaneous administration.

Recommended Treatment Program
<u>Swine:</u> At the time of initiating any parasite control program, it is important to treat all breeding animals in the herd. After the initial treatment, use Ivermectin Injection regularly as follows:

BREEDING ANIMALS

Treat prior to farrowing, preferably 7-14 days before, to minimize infection of piglets.

Gilts:

Treat 7-14 days prior to breeding.

Treat 7-14 days prior to farrowing.

Frequency and need for treatments are dependent upon exposure. Boars:

Treat at least two times a year.

FEEDER PIGS

(Weaners/Growers/Finishers)
All weaner/feeder pigs should be treated before placement in clean quarters. Pigs exposed to contaminated soil or pasture may need retreatment in

- hermectin Injection has a persistent drug level sufficient to control mite infestations throughout the egg to adult life cycle. However, since the ivermectin effect is not immediate, care must be taken to prevent reinfestation from exposure to untreated animals or contaminated facilities. Generally, pigs should not be moved to clean quarters or exposed to uninfested pigs for approximately one week after treatment. Sows should be treated at least one week before farrowing to minimize transfer of mites to newborn baby pigs.
- Louse eggs are unaffected by Ivermectin Injection and may require up to three weeks to hatch. Louse infestations developing from hatching eggs may require retreatment.
- Consult a veterinarian for aid in the diagnosis and control of internal and external parasites of swine.

Special Minor Use

Reindeer: For the treatment and control of warbles (Oedemagena tarandi) in reindeer, inject 200 micrograms ivermectin per kilogram of body weight, subcutaneously. Follow use directions for cattle as described under ADMINISTRATION.

American Bison: For the treatment and control of grubs (*Hypoderma bovis*) in American bison, inject 200 micrograms ivermectin per kilogram of body weight, subcutaneously. Follow use directions for cattle as described under ADMINISTRATION.



RESIDUE WARNINGS: Do not treat reindeer or American bison within 8 weeks (56 days) of slaughter.

WARNING NOT FOR USE IN HUMANS. Keep this and all drugs out of the reach of children.

The Safety Data Sheet (SDS) contains more detailed occupational safety

information. To report suspected adverse drug events, for technical assistance, or to obtain a copy of the SDS, contact Norbrook, Inc at 1-866-591-5777. For additional information about adverse drug experience reporting for animal drugs, contact FDA at 1-888-FDA-VETS or http://www.fda.gov/reportanimalae.



RESIDUE WARNINGS: Do not treat cattle within 35 days of slaughter. Because a withdrawal time so days of staggitter, because a winturawar fine in milk has not been established, do not use in female dairy cattle of breeding age. A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.

Do not treat swine within 18 days of slaughter.

PRECAUTIONS

Transitory discomfort has been observed in some cattle following subcutaneous administration. A low incidence of soft tissue swelling at the injection site has been observed. These reactions have disappeared without treatment. For cattle, divide doses greater than 10 mL between two injection sites to reduce occasional discomfort or site reaction. Use sterile equipment and sanitize the injection site by applying a suitable disinfectant. Clean, properly disinfected needles should be used to reduce the potential for injection site infections.

Observe cattle for injection site reactions. Reactions may be due to clostridial infection and should be aggressively treated with appropriate antibiotics. If injection site infections are suspected, consult your veterinarian.

This product is not for intravenous or intramuscular use.

Ivermectin Injection for Cattle and Swine has been developed specifically for use in cattle, swine, reindeer, and American bison **only**. This product should not be used in other animal species as severe adverse reactions, including fatalities in dogs, may result.

When to Treat Cattle with Grubs

When to Treat cattle with Grubs

Wermectin Injection effectively controls all stages of cattle grubs. However, proper
timing of treatment is important. For most effective results, cattle should be
treated as soon as possible after the end of the heel fly (warble fly) season.

Destruction of Hypoderma larvae (cattle grubs) at the period when these grubs are
in vital areas may cause undesirable host-parasite reactions including the possibility of fatalities. Killing *Hypoderma lineatum* when it is in the tissue surrounding the esophagus (gullet) may cause salivation and bloat; killing *H. bovis* when it is in the vertebral canal may cause staggering or paralysis. These reactions are not specific to treatment with Ivermectin Injection, but can occur with any successful treatment of grubs. Cattle should be treated either before or after these stages of grub development. Consult your veterinarian concerning the proper time for treatment.

Cattle treated with Ivermectin Injection after the end of the heel fly season may be retreated with Ivermectin Injection during the winter for internal parasites, mange mites, or sucking lice without danger of grub-related reactions. A planned parasite control program is recommended.

OTHER WARNINGS:

Parasite resistance may develop to any dewormer, and has been reported for most classes of dewormers.

Treatment with a dewormer used in conjunction with parasite management

practices appropriate to the geographic area and the animal(s) to be treated may slow the development of parasite resistance.

Fecal examinations or other diagnostic test and parasite management history should be used to determine if the product is appropriate for the herd/flock, prior to the use of any dewormer, Following the use of any dewormer, effectiveness of treatment should be monitored (for example, with the use of a fecal egg count reduction test or another appropriate method).

A decrease in a drug's effectiveness over time as calculated by fecal egg count

reduction tests may indicate the development of resistance to the dewormer administered. Your parasite management plan should be adjusted accordingly based on regular monitoring.

STORAGE Store at 59° to 86°F (15° to 30° C).

ENVIRONMENTAL SAFETY

Studies indicate that when ivermectin comes in contact with soil, it readily and studies indicate unart when we muccuit comes in contact wint son, it reading and tightly binds to the soil and becomes inactive over time. Free ivermectin may adversely affect fish and certain aquatic organisms. Do not permit water runoff from feedlots to enter lakes, streams, or ponds. Do not contaminate water by direct application or by improper disposal of drug containers. Dispose of containers in an approved landfill or by incineration.

As with other avermectins, ivermectin is excreted in the dung of treated animals and can inhibit the reproduction and growth of pest and beneficial insects that use dung as a source of food and for reproduction. The magnitude and duration of such effects are species and life-cycle specific. When used according to label directions, the product is not expected to have an adverse impact on populations of dung-dependent insects.

HOW SUPPLIED

Ivermectin Injection for Cattle and Swine is available in five ready-to-use pack

The 50 mL pack is a multiple-dose, rubber-capped bottle. Each bottle contains sufficient solution to treat 10 head of 550 lb (250 kg) cattle or 100 head of 38 lb (17.3 kg) swine.

The 100 mL pack is a multiple-dose, rubber-capped bottle designed for use with automatic syringe equipment. Each bottle contains sufficient solution to treat 20 head of 550 lb (250 kg) cattle or 200 head of 38 lb (17.3 kg) swine.

The 250 mL pack is a multiple-dose, rubber-capped bottle designed for use with automatic syringe equipment. Each bottle contains sufficient solution to treat 50 head of 550 lb (250 kg) cattle or 500 head of 38 lb (17.3 kg) swine.

The 500 mL pack is a multiple-dose, rubber-capped bottle designed for use with automatic syringe equipment. Each bottle contains sufficient solution to treat 100 head of 550 lb (250 kg) cattle or 1000 head of 38 lb (17.3 kg) swine.

The 1000 mL pack is a multiple-dose, rubber-capped bottle designed for use with automatic syringe equipment. Each bottle contains sufficient solution to treat 200 head of 550 lb (250 kg) cattle or 2000 head of 38 lb (17.3 kg) swine.

Restricted Drug - California, Use Only as Directed,

Approved by FDA under ANADA # 200-437

Made in the UK.

Manufactured by: Norbrook Laboratories Limited, Newry, BT35 6PU, Co. Down, Northern Ireland

Manufactured for:

Durvet, Inc., Blue Springs, MO 64014 www.durvet.com

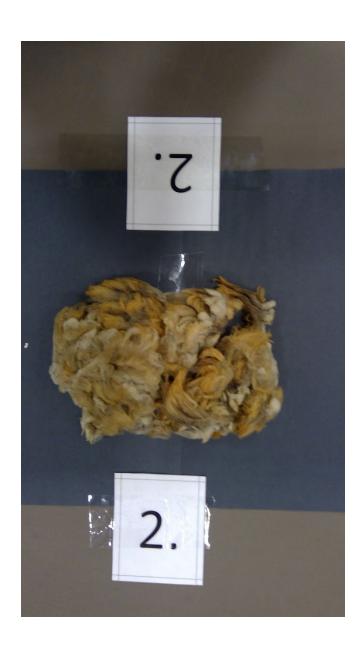
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SENIOR WOOL JUDGING

OFFICIAL: 2-4-1-3

CUTS: 3/2/4









OFFICAL: 3-4-1-2

CUTS: 5/4/3

Senior Hay Judging – 2024

Mark placing in column 2 in the placing classes section on scantron sheet.

Scenario:

Rank the hay samples in order that you are utilizing them to produce the most efficient milk production in 200 pound ewes suckling twins during the first 45 days of lactation.

Nutrient Requirements for 200 Pound Ewe with Twin Lambs:

DM ^a (Pounds)	CP ^a (%)	TDN ^a (%)	Ca ^a (%)	P ^a (%)
7	16.0	65.0	0.59	0.29

^a: DM = dry matter, CP = crude protein, TDN = total digestible nutrients, Ca = calcium, P = phosphorus

Chemical Composition of Individual Hay Samples:

Chemical Component %

Hay	DM ^b	CP ^{b,c}	$\mathbf{ADF}^{\mathrm{b,c}}$	NDF ^{b,c}	TDN ^{b,c}	Ca ^{b,c}	P ^{b,c}
1	88.4	10.9	41.0	63.7	48.3	0.46	0.23
2	89.8	10.3	41.4	62.6	47.9	0.35	0.31
3	90.0	17.0	35.6	55.4	58.2	1.41	0.24
4	86.9	16.4	36.4	54.1	52.3	0.67	0.35

b: DM = dry matter, CP = crude protein, ADF = acid detergent fiber, NDF = neutral detergent fiber, TDN = total digestible nutrients, Ca = calcium, P = phosphorus

c: 100% dry matter













4.

County: Key	Names:
Score:	

TEAM Senior Breeding & Marketing – 2024 200 points

Team Tasks:

Part A - Weaning Weight Ratio (20 points)

Anderson Angus has two bulls for sale, each with different weaning weights and current weights. As a buyer you want to determine which bull has the best performance ratio at weaning to make the ideal choice. The average weaning weight for all the bulls in this herd is 547 pounds.

Bull	Age at Weaning (Days)	205 Adjusted Weaning Weight (Pounds)	Current Weight (Pounds)
A	206	575	820
В	195	608	870

For each bull calculate the weaning weight ratio. Report your answers in the table below.

A= 575/547* 100= 105 B= 608/547* 100=

Bull	Weaning Wei	ght Ratio
A	105	iopts
В		10pts

Part B – Selection Questions (80 points)

Your team works for Wildcat Genetics Boar Stud and is responsible for purchasing a new boar for the farm. Your team is looking for boar to breed to purebred Durocs and crossbred gilts and sows. Most Wildcat Genetics customers market offspring to youth that exhibit hogs on a state and national level. Offspring that are not sold as youth projects are fed out on a finishing floor. Wildcat Genetics has set aside money to invest in a new boar, but obviously your team want to be reasonable in purchasing the new boar.

Using pedigrees, EPDs, and photos answer the 8 questions. Circle your answers.

1. Which boar's offspring should spend the least time on the finishing floor while being the stoutest constructed? | Op+

1

2

3

County	:		Names:	
Score: _				
2.	Which boar's offs	pring should be th	e least profitable w	hen sold on a fat-free lean grid? 10p+
	1	2	3	4
3.	Which boar appea	rs to be the lightes	t muscled? 10pt	
	1 (2	3	4
4.	Between the boars the point of the sh	ranging in price froulder forward?	com \$1,000 to \$2,00	00 which boar is more extended and cleaner from
	1	2	3	4
5.	Between the two M	Iarch boars, which	boar's daughters w	yould be less profitable in a commercial sow
	1	2	3	4
6. 1	Which boar has the	e best look and des	ign from the side?	IOpt
	1	2	3	4
7. V	Which boar had the	e fewest littermates	= 10pt	
		2	3	4

County:	Names:
Score:	

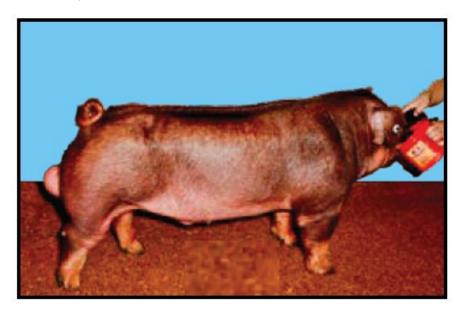
Part C - Selection Discussion (100 points)

Your team will need to discuss your choice of boar with the station official. Please explain, in depth, why your team ultimately chose the boar selected.

	20 - Excellent	15 – Good	10 – Fair	5 - Needs Improvement
Content & Organization	 Demonstrates full knowledge of why the male was selected with explanations and elaboration Provides pertinent examples and facts that support the male chosen 	 Is at ease with explaining why male was selected, but without elaboration Has somewhat clear examples and data or evidence that support the male chosen 	 Is uncomfortable with information and only rudimentary explanation of why male was selected Provides weak examples which do not adequately support the male chosen 	• Does not have a grasp of information and
Delivery	• Holds the attention of the audience with use of direct eye contact, seldom looking at notes • Speaks with fluctuation in volume and inflection to maintain audience interest and emphasize key points	Consistent use of direct eye contact with audience, but still returns to notes Speaks with satisfactory variation of volume and inflection	 Displays minimal eye contact with audience, while reading mostly from notes Speaks in uneven volume with little to no inflection 	Holds no eye contact with audience, as entire report is read from notes Speaks in low volume and/or monotonous tone, which causes audience to disengage
Enthusiasm & Audience Awareness	 Demonstrates strong enthusiasm about selected male during entire presentation Significantly increases audience understanding and knowledge of selected male; convinces audience to recognize the validity of male selected 	Shows some enthusiastic feelings about male selected Raises audience understanding and awareness of male selected	Shows little or mixed feelings about the male selected Somewhat raises audience understanding and knowledge of male selected	Shows no interest in male selected Fails to increase audience understanding and knowledge of male selected
Group Participation	• All group members participate equally	• Some group members participate	Only 1 or 2 group members participate	• No group members participate
Response to Questions	 Responds to questions with organized thoughts and concise answers Answers questions effectively, but has to stop and think and sometimes get off focus Answers show some knowledge of male selected and supports answers with strong evidence 		Rambles or responds before thinking Answers show little knowledge of male selected and lacks evidence	• Questions not answered
Comments:				Total Points:

Boar #1 – RW Duroc "Main Man"

DOB: 05/01 Litter size: 8



Price: \$1,400.00

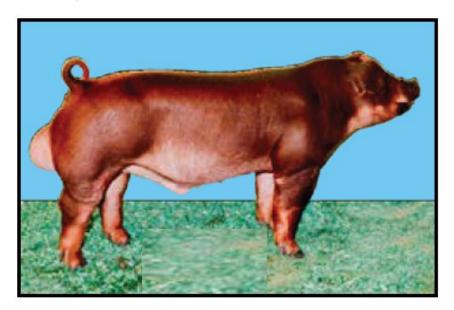
Pedigree:

Sire: LSNB2 MAIN DRAG 78-1

Sire of dam: TMGS9 TAKE ME HOME 24-1

1	Days to 250 EPD	Backfat EPD	Pounds of Lean EPD	Number Born Alive EPD	21-day Litter Weight EPD	TSI	MLI
	-2.7	+0.03	+1.24	+0.07	+1.60	134	104

Boar #2 – Sampson & Sons "King Maker" Litter size: 10



Price: \$900.00

Pedigree:

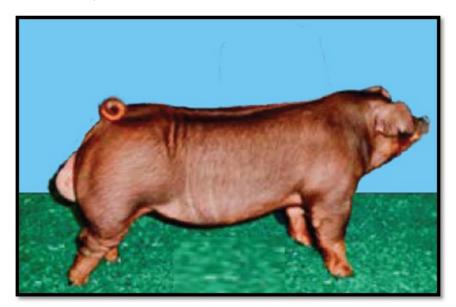
Sire: ESSP MAIN CHARACTER 4-4

Sire of dam: WTXO GREEN BOTTLES 262-2

Days to 250 EPD	Backfat EPD	Pounds of Lean EPD	Number Born Alive EPD	21-day Litter Weight EPD	TSI	MLI
-2.3	-0.03	+1.15	+0.21	+2.61	122	109

Boar #3 – Fork Farms "Big Bang" Litter size: 10

DOB: 03/20



Price:

\$1,200.00

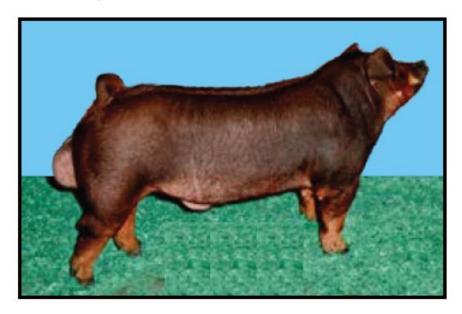
Pedigree:

Sire: BEYEO CRY BABY 16-3

Sire of dam: LRTBO HILL KINGDOM 1-7

Days to 250 EPD	Backfat EPD	Pounds of Lean EPD	Number Born Alive EPD	21-day Litter Weight EPD	TSI	MLI
-2.7	+0.03	+1.25	-0.02	+1.58	134	101

Boar #4 – Smith Show Stock "Red Wagon" Litter size: 13



Price: \$2,200.00

Pedigree:

Sire: AFLS2 BADGER 4-1

Sire of dam: TSPO SIMBA 36-5

Days to 250 EPD	Backfat EPD	Pounds of Lean EPD	Number Born Alive EPD	21-day Litter Weight EPD	TSI	MLI
-3.5	+0.01	+1.38	+0.35	+1.58	140	105

County:	hey	Names:	
C			

TEAM Livestock Feeding & Performance – 2024 200 points

Team Tasks:

Part A – Performance Calculations (95 points)

Freddy 4-Her purchases a market steer on August 31. He later purchases one market hog on March 31 and a market lamb on April 20. Freddy weighs in his market animals at the county fair on July 15. The initial weight, country fair weight, pounds of feed consumed, and days on feed are reported in the table below.

Market Animal	Initial Weight (pounds)	Country Fair Weight (pounds)	Feed Consumed (pounds)	Days on Feed
Steer	520	1,380	5,246	318
Hog	58	289	780	106
Lamb	65	153	377	86

For each market animal calculate the pounds gained during the feeding period, average daily gain, and feed efficiency. Report your answers in the table below. Report answers with one number after the decimal.

Market Animal	Pounds Gained During Feeding Period	Average Daily Gain	Feed Efficiency
Steer	5pt 860	10pt 2.7 1/2	10pt 6.1
Hog	5pt 231	10pt or 2. 1 16/1	10pt 3.3 or
Lamb	spt 88	10pt 1.01b/d	10pt 4.2 or

The swine feed that Freddy fed his pig cost \$27.99/50 pounds. Calculate the total feeding cost for the pig and the feeding cost per pound gained. Report your answers in the table below.

Market Animal	Total Feeding Cost	Feeding Cost Per Pound Gained	
Hog	10pt \$439.00	10pt \$1.85	
	\$ 436.80	\$ 1.89	

County:	Names:	
C		

Part B - Diet Cost (35 points)

A sheep producer creates the following 100 pound diet to be fed to his gestating ewes along with hay. What is the cost of each ingredient per pound in the diet and what is the total cost of the diet? Report your answers in the table below.

Ingredient	Cost	Amount (pounds)	Cost/Pound in Diet (\$)
Wheat	\$280/ton	55	5pt 7.70
Triticale	\$180/ton	20	5pt 1.80
Dehydrated alfalfa meal	\$300/ton	12	5pt 1.80
Cottonseed meal	\$320/ton	10	5pt 1.60
Mineral premix	\$8/50 pounds	2	5pt 0.32
Vitamin premix	\$27/50 pounds	1	5pt 0.54
		Total Diet Cost:	#13.76

Part C - Feed Identification & Classification (70 points)

Identify the following feeds; indicate if they are a roughage/forage, concentrate, or neither; and indicate the main nutrient the feed provides to livestock energy, protein, or vitamin/mineral.

Number	Feed Name	Type of Feed (circle one)	Main Nutrient Provided (circle one)
1.	4pt Whole Corn	Forage/roughage Concentrate Neither	Energy 3 pt Protein Vitamin/mineral
2.	4pt Molasses	Forage/roughage Concentrate Neither	Energy Protein Vitamin/mineral

County:	Names:	

Score:

3.	Apt Silage/Haylage	Forage/roughage Concentrate Neither	Energy Protein Vitamin/mineral
4.	4pt Ground Corn	Forage/roughage 3pt Concentrate Neither	Spt Protein Vitamin/mineral
5.	Apt Urea	Forage/roughage 3pt Concentrate Neither	Energy Protein Vitamin/mineral
6.	4pt Hay (fescue)	Forage/roughage 3pt Concentrate Neither	Bnergy Protein Vitamin/mineral
7.	4pt Borley	Forage/roughage 3pt Concentrate Neither	Energy 3pt Protein Vitamin/mineral

mance
500-9101L
500-9101b
-00-01A1L
520=8601b
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0011
0010
8816
0010
0010
9010
9010
136.64 or 2 129.00 or 2 total
1

-Cost/Pound Gained: # 436.64 - # 1.89

> # 429.00 = \$1.86 or \$1.85 231

<u>#436.80 - #1.89</u> <u>231</u>

किर्विक

Part B

Wheat = \$\frac{4}{380}\accos = .14 \tau 55 = 7.70

Truticale = \$\frac{4}{180}\accos = .09 \times \accos = 1.80

Alfalfa meal = \$\frac{4}{300}\accos = .15 \times 1\accos = 1.80

Cottonseed meal = \$\frac{4}{300}\accos = .16 \times 10 = 1.60

mineral = \$\frac{4}{8}\sqrt{50} = .16 \times \accos = .3\accos = .3\accos = .4 \times 1 = .54

Vitamin = \$\frac{4}{37}\sqrt{50} = .54 \times 1 = .54

County:	Names:
Score: <u>hey</u>	

TEAM

Meat & Carcass Evaluation & Marking - 2024

200 points

Team Tasks

Part A - Determining Carcass Weight, Yield, and Quality Grade (120 points)

For each carcass (4 total carcasses) calculate the hot carcass weight, USDA yield grade (see reference equation), and USDA quality grade (see quality grade chart). In order to determine quality grade you will need to determine marbling score for each carcass, use the tools provided. Report your answers in the table below.

	Carcass #1	Carcass #2	Carcass #3	Carcass #4
Live Weight (pounds)	1,220	1,425	1,020	1,280
Dressing Percent	60%	64%	60%	65%
Hot Carcass Weight (pounds)	5pt=	Spts	5pts	5pts
Adjusted Fat Thickness (inches)	0.4	0.2	0.4	0.4
Ribeye Area (inches²)	12.5	16.5	13.3	11.1
% Kidney, Pelvic, Heart Fat	2.5	1.5	3.0	2.0
Yield Grade	12pts 3.2	12pts	12pts	12pts
Maturity Score	C ₅₀	A_{80}	A ₅₀	A ₆₀
Marbling Score	5pts 3light80	Spts Slight 50	5pts Moderates	5pts Slightly
Quality Grade	8pts Utility	8 pts elect	0	8pts
Muscle Type	Beef	Beef	Beef	Beef
Major Trim Loss	No	No	No	Yes

County:	Names:	
Score: hey		

Part B - Carcass Pricing (80 points)

Using the information you calculated in Part A and the market cattle pricing grid, determine the carcass value/cwt for each carcass and the total carcass value for each carcass. Report your answers in the table below.

	Carcass #1	Carcass #2	Carcass #3	Carcass #4
Carcass Value/cwt	19bts	12pts	19bts	12pts
(\$)	asa.00	259.00	278.00	250 00
Total Carcass	8pts	8pts	8pts	8 ots
Value (\$)	1119.88	2362.08	1701.36	208 00

```
#
  HCW= 1220 x. 60= 1732
  YG= 2.5+ (2.5x.6) + (.2x 2.5)+ (.0038x732)-
      (.32x 12.5)=
      2.5+1.5+.5+2.7816-4=3.2816=3.2
 QG= C50+ Slightgo= Utility
 carcass value (cut = #269.00
                        5.00 (YG3)
                    - 30.00 (hard bone)
[#234.00/cwt]
total value = #234 x 7.32 = [#1712.88
 HCW= 1425x, 64=1912
 YG= 2.5+ (2.5x.2)+ (.2x1.5)+ (.0038 x912)-
      (.32x 16.5)=
     2.5+.5+.3+3.4656-5.28=1.4856=1.4
GG = Agot Slightso = Select
arcass value cut = #269.00
                   + 8.00 (YGI)
                   - 9.00 (select)
                   - 9.00 (carcass wt.)
                   13259.00 kwt
total value = #259 x 9.12 = [#2362.08
```

```
#3
  HCW= 1020x. 60=16121
  YG= 2.5+ (2.5x.4) + (.2x3)+(.0038x612)-
      (.33 \times 13.3) =
      25+1+.6+2.3256-4.256=2.1696/2.1
 QG= Asot Moderate - Choice (high)
 Carcassvalue cut = #269.00
                   + 0.00 (YG2)
                  + 9.00 (Highchoice)
 totalvalue = #278.00x 6.12= 1701.36
 #4
 HCW= 1280 x. 65 = 1832
 YG= 2.5+(2.5x.4)+(.2x2)+(.0038x832)-
     (.3ax11.1)=
     2.5+1+.4+3.1616-3.552=3.5096=3.5
QG = Abot Slightly Abundant To= Prime
Carcass value cut = $ 269.00
                    - 5.00 (YG3)
                   + 11.00 (Prime)
                   - 25.00 (Trim Loss)
                   $350.00 cut
total value = $250.00 x 8.32 = $2080.00
```