Name	Contestant #	County

Senior Retail Meat Cut Identification - 2018

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.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

Beef Retail Meat Cuts Beef for stew	17 Civil-in -41111	22 P-44 4
	17. Sirloin steak, shell	32. Bottom round roast
. 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
. Arm steak	22. Top loin steak	37. Rump roast, boneless
. Arm steak, boneless	23. Top loin steak, boneless	38. Round steak
. Blade roast	24. Short ribs	39. Round steak, boneles
. 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
Sirloin steak, flat bone	29. Rib steak, small end, boneless	44. Top round roast
4. Sirloin steak, pin bone	30. Ribeye roast	Top round steak
Sirloin steak, round bone	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
1. Leg Center slice	57. Loin double chop	63. Blade chop
2. French style roast	58. Loin roast	64. Neck slice
3. Leg shank half	59. Rib chop	65. Shoulder square cu
Pork Retail Meat Cuts		
6. Fresh ham center slice	73. Center rib roast	80. Arm roast
7. Fresh ham rump portion	74. Center loin roast	81. Arm steak
8. Fresh ham shank portion	75. Loin chop	82. Blade Boston roast
9. Fresh side pork	76. Rib chop	83. Sliced bacon
0. Blade chop	77. Sirloin chop	84. Smoked jowl
1. Blade roast	78. Top loin chop	85. Smoked Canadian
72. Butterfly chop	79. Arm picnic roast	Style Bacon
2. Datterily chop	77. Tim pieme roust	Style Bacon

Species of Cut – to be used in answer column 2 by Seniors (You may use the letter more than once!!) 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 J. Breast P. Belly (Side, Bacon) K. Leg B. Chuck Q. Boston Butt C. Flank L. Loin R. Ham M. Rack S. Jowl D. Loin E. Plate N. Shank T. Loin F. Rib O. Shoulder U. Picnic Shoulder G. Round H. Shank

I. Variety cut

KEY

Senior Retail Meat Cut Identification - 2018

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.	41	В	G
2.	79	P	U
3.	49	L	J
4.	12	В	C
5.	31	В	\mathbf{F}
6.	68	P	R
7.	51	L	K
8.	70	P	T
9.	6	В	В
10.	65	L	0

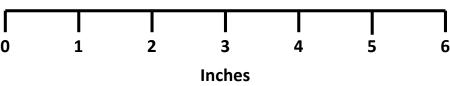
Retail Names – to be used in answer column 1 by <u>Seniors</u>			
Beef Retail Meat Cuts			
1. Beef for stew	17. Sirloin steak, shell	32. Bottom round roast	
2. Brisket, point half	18. Sirloin steak, boneless	33. Bottom round steak	
3. Brisket, whole	19. Tenderloin steak	34. Eye round roast	
4. Arm roast	20. Porterhouse steak	35. Eye round steak	
5. Arm roast, boneless	21. T-bone steak	36. Heel of round roast	
6. Arm steak	22. Top loin steak	37. Rump roast, boneless	
7. Arm steak, boneless	23. Top loin steak, boneless	38. Round steak	
8. Blade roast	24. Short ribs	39. Round steak, boneless	
Blade steak	25. Skirt steak	40. Tip roast	
10. 7-bone roast	26. Rib roast, large end	41. Tip roast, cap off	
11. 7-bone steak	27. Rib roast, small end	42. Tip steak	
12. Flank steak	28. Rib steak, small end	43. Tip steak, cap off	
13. Sirloin steak, flat bone	29. Rib steak, small end, boneless	44. Top round roast	
14. Sirloin steak, pin bone	30. Ribeye roast	45. Top round steak	
15. Sirloin steak, round bone	31. Ribeye steak	46. Cross cuts	
16. Sirloin steak, wedge bone		47. Cross cuts, boneless	
Lamb Retail Meat Cuts			
48. Breast	54. Sirloin chop	60. Rib roast	
49. Breast riblets	55. Leg sirloin half	Rib roast, boneless	
50. 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	
D. I. D. C. T. M. J. C. J.			
Pork Retail Meat Cuts 66. Fresh ham center slice	73. Center rib roast	80. Arm roast	
	74. Center loin roast	81. Arm steak	
67. Fresh ham rump portion	75. Loin chop	82. Blade Boston roast	
68. Fresh ham shank portion 69. Fresh side pork	76. Rib chop	83. Sliced bacon	
70. Blade chop	77. Sirloin chop	84. Smoked jowl	
70. Blade chop 71. Blade roast	78. Top loin chop	85. Smoked Canadian	
72. Butterfly chop	79. Arm picnic roast	Style Bacon	
72. Butterity Chop	77. Aim pieme toast	Style Dacon	

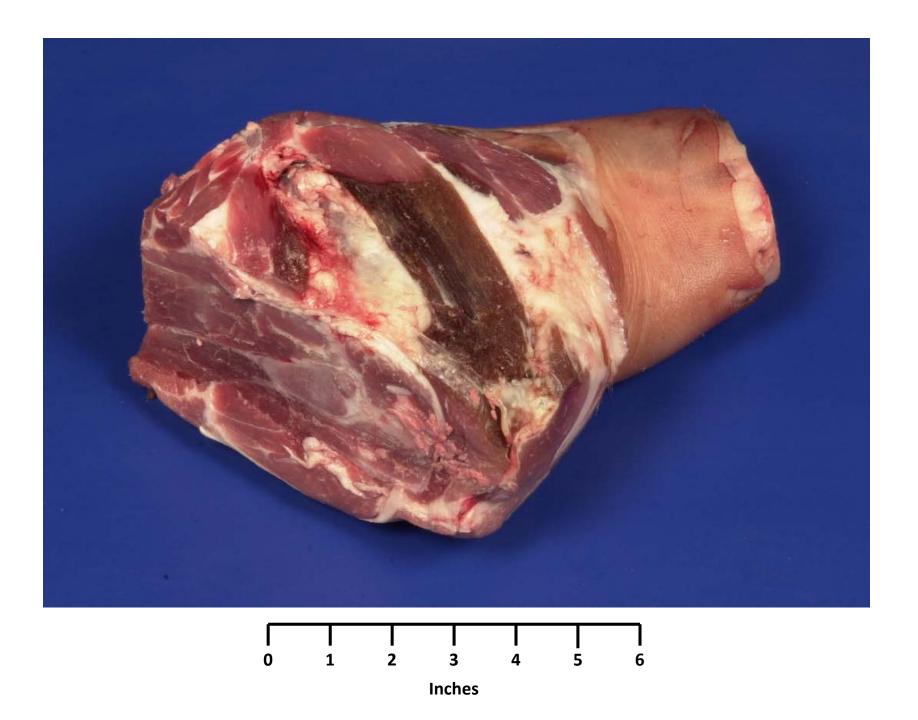
Species of Cut – to be used in answer column 2 by Seniors (You may use the letter more than once!!) B. Beef L. Lamb P. Pork

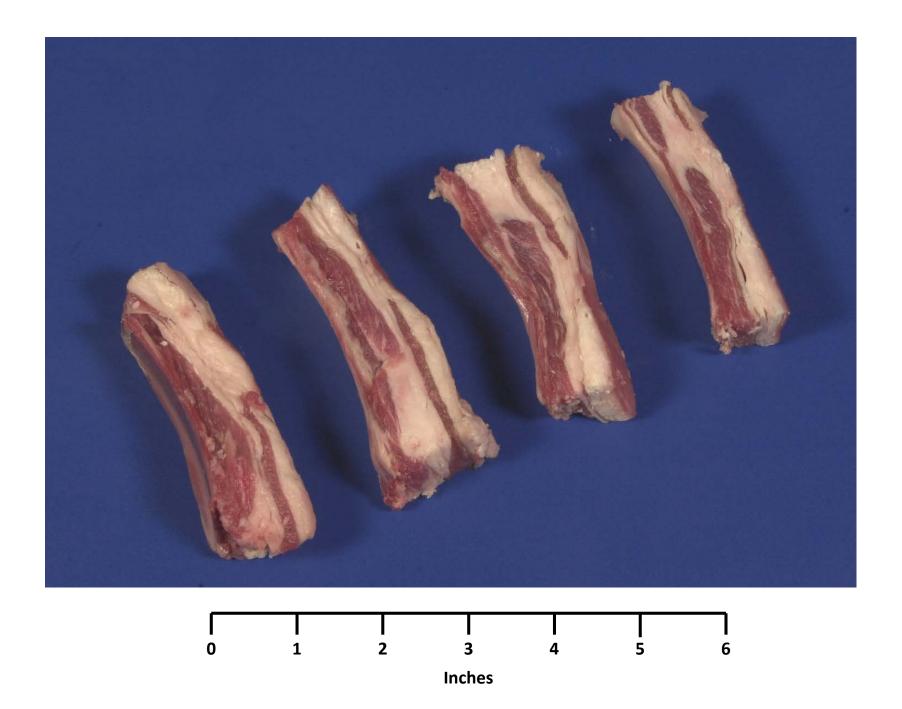
Wholesale Cut of Origin – to be used in answer column 3 by <u>Seniors</u>		
Beef Wholesale Cuts	Lamb Wholesale Cuts	Pork Wholesale Cuts
A. Brisket	J. Breast	P. Belly (Side, Bacon)
B. Chuck	K. Leg	Q. Boston Butt
C. Flank	L. Loin	R. Ham
D. Loin	M. Rack	S. Jowl
E. Plate	N. Shank	T. Loin
F. Rib	O. Shoulder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

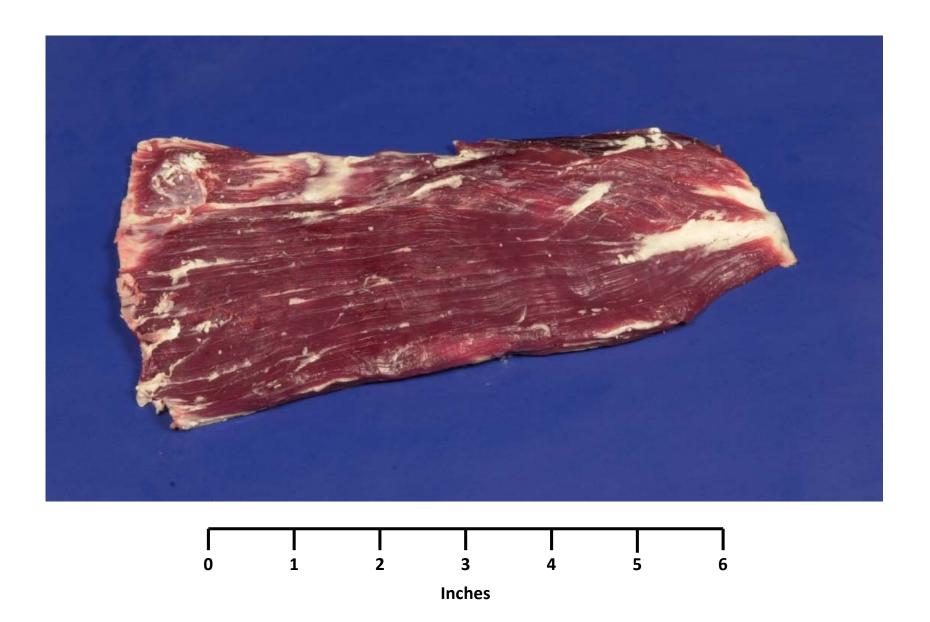
I. Variety cut



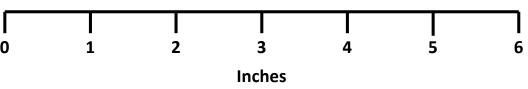






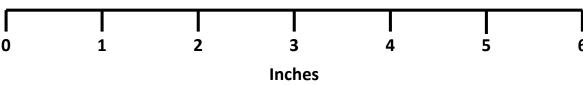






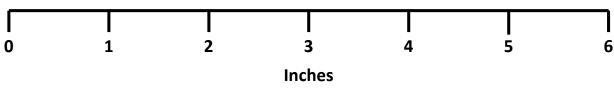




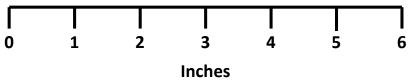












Name	Contestant #	Co	ounty

Senior Livestock Feed Identification - 2018

INSTRUCTIONS: For each sample, 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.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				

Feed Names - to be used in answer column 1 by Seniors

- Alfalfa cubes Alfalfa pasture Barley (whole) Blood meal Brewers dried grain Canola meal Copper sulfate Corn distillers dried grain Corn distillers dried grain with soluble
- 10. Corn gluten feed 11. Copper Sulfate 12. Cottonseed (whole) 13. Cottonseed hulls 14. Cottonseed meal 15. Cracked shelled corn 16. Crimped oats 17. Defluorinated rock phosphate
- 19. DL-methionine 20. Dried Beet pulp 21. Dried molasses 22. Dried skim milk 23. Feather meal 24. Fish meal

18. Dicalcium phosphate

- 25. Grain sorghum (whole) 26. Ground ear corn 27. Ground limestone 28. Ground shelled corn 29. Kentucky Bluegrass pasture 30. L-lysine HCl 31. L-threonine 32. L-tryptophan 33. Linseed meal 34. Liquid molasses 35. Meat and bone meal 36. Millet (whole) 37. Oats (whole) 38. Oat hulls 39. Orchardgrass hay 40. Orchardgrass pasture 41. Oyster shells 42. Peanut meal 43. Red Clover hay 44. Red Clover pasture 45. Roller dried whey 46. Rye (whole) 47. Salt, white 48. Santoquin 49. Shelled corn 50. Soybean hulls
- 51. Soybean meal 52. Soybeans (whole) 53. Spray-dried animal plasma 54. Spray-dried whey 55. Steam flaked corn 56. Steam rolled barley 57. Steam rolled oats 58. Steamed bone meal 59. Sunflower meal 60. Tall Fescue hay 61. Tall Fescue pasture 62. Timothy hay 63. Timothy pasture 64. Trace-mineral premix 65. Trace-mineralized salt 66. Triticale (whole) 67. Tryptosine 68. Urea 69. Vegetable oil 70. Vitamin premix 71. Wheat (whole) 72. Wheat bran 73. Wheat middlings

74. White Clover hay

75. White Clover pasture

Feeds Nutrient Groups - to be used in answer column 2 by Seniors

(You may use the letter more than once!!)

- B. By-product feed 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. Excellent feedstuff for horses that is high in protein, minerals, and
- B. Shelled corn that has been passed through a roller mill to break it into smaller particles.
- C. Byproduct of wheat flour milling that consists of the fine particles of wheat bran, wheat shorts, wheat germ, wheat flour, and some of the offal from the "tail of the mill".
- D. Bulk density = 56 pounds/bushel
- E. Bulk density = 32 pounds/bushel
- F. Bulk density = 48 pounds/bushel
- G. Rarely fed to livestock in the whole, full-fat form, but can be if first heated to destroy anti-nutritional factors (trypsin inhibitor).

- H. Produced by grinding the flakes which remain after the oil is extracted from whole flaxseed.
- I. Whole barley that is subjected to high-moisture steam for a short period of time (usually 1 to 8 minutes) and then rolled to produce a flat flake.
- J. High in protein, and contains active immunoglobulins.
- K. Commonly used source of calcium and phosphorus in livestock feeds.
- L. Also referred to as bluestone.
- M. Dried byproduct of the manufacture of sugar from either sugar beets or, more commonly, sugarcane.
- N. Primarily used as a ruminant roughage extender during times when forages are in short supply.

KEY

Senior Livestock Feed Identification - 2018

INSTRUCTIONS: For each sample, 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.	21	B or C	M
2.	37	<u>C</u>	E
3.	38	В	N
4.	73	<u>B</u>	C
5.	33	P	Н
6.	52	P or F	G
7.	1	P or C	A
8.	56	C	I
9.	49	C	D
10.	15	<u> </u>	В

Feed Names – to be used in	aı <u>Seniors</u>	
by	25. Grain sorghum (whole)	
Alfalfa cubes	26. Ground ear corn	
2. Alfalfa pasture	27. Ground limestone	
3. Barley (whole)	28. Ground shelled corn	Soybean meal
4. Blood meal	29. Kentucky Bluegrass pasture	52. Soybeans (whole)
5. Brewers dried grain	30. L-lysine HCl	Spray-dried animal plasma
6. Canola meal	31. L-threonine	54. Spray-dried whey
7. Copper sulfate	32. L-tryptophan	Steam flaked corn
8. Corn distillers dried grain	33. Linseed meal	Steam rolled barley 57.
9. Corn distillers dried grain	34. Liquid molasses	Steam rolled oats
with soluble	35. Meat and bone meal	58. Steamed bone meal
Corn gluten feed	36. Millet (whole)	Sunflower meal
11. Copper Sulfate	37. Oats (whole)	Tall Fescue hay
12. Cottonseed (whole)	38. Oat hulls	Tall Fescue pasture
13. Cottonseed hulls	Orchardgrass hay	62. Timothy hay
14. Cottonseed meal	40. Orchardgrass pasture	63. Timothy pasture
15. Cracked shelled corn	41. Oyster shells	64. Trace-mineral premix
16. Crimped oats	42. Peanut meal	Trace-mineralized salt
 Defluorinated rock phosphate 	e 43. Red Clover hay	66. Triticale (whole)
18. Dicalcium phosphate	44. Red Clover pasture	67. Tryptosine
19. DL-methionine	45. Roller dried whey	68. Urea
20. Dried Beet pulp	46. Rye (whole)	69. Vegetable oil
21. Dried molasses	47. Salt, white	70. Vitamin premix
22. Dried skim milk	48. Santoquin	71. Wheat (whole)
23. Feather meal	49. Shelled corn	72. Wheat bran
24. Fish meal	50. Soybean hulls	73. Wheat middlings
	Ť	74. White Clover hay
		75. White Clover pasture

Feeds Nutrient Groups - to be used in answer column 2 by Seniors

(You may use the letter more than once!!)

B. By-product feed M. Mineral V. C. Carbohydrate (energy)

F. Fats (energy)

V. VitaminP. Protein

NameCounty	
------------	--

Senior Livestock Breeds Identification - 2018

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. <u>Seniors</u> provide answers for breed name, origin of breed, and important characteristics/traits. Each question is worth 5 points for each part of the question. (150 points total for Seniors).

	Breed Name	Origin of Breed	Important Traits
1.			
2			
3			
4			
5			
6.			
7			
8.			
9.			
10			

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

Origins of Breeds – to be used in answer column 2 by Seniors Some answers will be used more than once A. England E. Finland B. Scotland F. India / US C. Ohio, US G. Bavaria, Germany D. Tees River Valley, England F. Senior S

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

Some answers will be used more than once

Beef Cattle Characteristics/Traits

- A. Foraging Ability and Docility.
- B. Heavily Muscled, Excellent Growth Rate, Late Maturing.
- C. Mothering Ability, Disease and Heat Resistant.
- D. Excellent Meat Quality (nicely marbled), Calving Ease, and Hardy.
- E. Early Maturity, Reproductive Performance, Mothering Ability, Disposition.

Goats Characteristics/Traits

- F. Hardy, Adaptable Animals that thrive in any climate while maintaining good health.
- G. Meat Yield.
- H. High Butterfat Content, Extended Breeding Season, Multi-Purpose use, (milk, meat and hide).

Sheep Characteristics/Traits

- I. Lambing Ability, Early Maturity, Vigorous Instinct and Heavy Boned.
- J. Prolificacy, Wool Production and Mothering Ability.
- K. Growth Rate, Muscling and Leanness.

Swine Characteristics/Traits

- L. Prolificacy (litter size), milking ability, known as the mother breed.
- M. Meat Quality (Intramuscular Fat).
- N. Excellent rate of gain and feed efficiency.



Senior Livestock Breeds Identification - 2018

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 for each part of the question. (150 points total for Seniors).

	Breed Name	Origin of Breed	Important Traits
1.	17	<u>H</u>	F
2.	51	J	M
3.	7	A	A
4.	35	E	J
5.	45	A	K
6.	2	F	C
7.	54	C	M
8.	14	D	E
9.	23	A	<u>H</u>
10.	1	В	D

Breed Names – to be used in answer column 1 by <u>Seniors</u>			
Beef BreedsGoat Breeds1. Angus17. Alpine2. Brahman18. American Cashmere3. Brangus19. Angora4. Charolais20. Boer5. Chianina21. Kiko6. Gelbvieh22. Lamancha7. Hereford23. Nubian8. Limousin24. Oberhasli9. Maine Anjou25. Pygmy10. Polled Hereford26. Saanen11. Red Angus27. Spanish12. Red Poll28. Tennessee Fainting13. Santa Gertrudis29. Toggenburg14. Shorthorn29. Toggenburg15. Simmental16. Tarentaise	Sheep Breeds 30. Cheviot 31. Columbia 32. Corriedale 33. Dorper 34. Dorset 35. Finnsheep 36. Hampshire 37. Katahdin 38. Merino 39. Montadale 40. Oxford 41. Polled Dorset 42. Rambouillet 43. Romney 44. Southdown 45. Suffolk 46. White Dorper	Swine Breeds 47. Berkshire 48. Chester White 49. Duroc 50. Hampshire 51. Hereford 52. Landrace 53. Pietrain 54. Poland China 55. Spotted 56. Tamworth 57. Yorkshire	

Origins of Breeds – to be used in answer column 2 by Seniors Some answers will be used more than once A. England E. Finland B. Scotland F. India C. Ohio, US G. Bavaria, Germany D. Tees River Valley, England F. Pennsylvania, US

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

Some answers will be used more than once

Beef Cattle Characteristics/Traits

- A. Foraging Ability and Docility.
- B. Heavily Muscled, Excellent Growth Rate, Late Maturing.
- C. Mothering Ability, Disease and Heat Resistant.
- D. Excellent Meat Quality (nicely marbled), Calving Ease, and Hardy.
- E. Early Maturity, Reproductive Performance, Mothering Ability, Disposition.

Goats Characteristics/Traits

- F. Hardy, Adaptable Animals that thrive in any climate while maintaining good health.
- G. Meat Yield.
- H. High Butterfat Content, Extended Breeding Season, Multi-Purpose use, (milk, meat and hide).

Sheep Characteristics/Traits

- I. Lambing Ability, Early Maturity, Vigorous Instinct and Heavy Boned.
- J. Prolificacy, Wool Production and Mothering Ability.
- K. Growth Rate, Muscling and Leanness.

Swine Characteristics/Traits

- L. Prolificacy (litter size), milking ability, known as the mother breed.
- M. Meat Quality (Intramuscular Fat).
- N. Excellent rate of gain and feed efficiency.





















Name	Contestant #	County	

Senior Livestock and Meat Equipment Identification – 2018

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** provide answers for livestock/meat equipment names and equipment use. Each question is worth 5 points (100 points total for Intermediates).

	Equipment Name	Equipment Use
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		

Livestock Equipment		Meat Equipment	
1. All Weather Paintstik.	26. Lamb tube feeder	43. Backfat ruler	
2. Artificial insemination pipettes	27. Needle teeth nippers	44. Band saw	
(Swine)	28. Nipple waterer	45. Bone dust scraper	
3. Bowl waterer	29. Nose ring	46. Boning knife	
4. Balling gun	30. Nose ring pliers	47. Bowl chopper	
5. Barnes dehorner	31. Obstetrical (O.B.) chain	48. Dehairing machine	
6. Cattle clippers	32. Plastic Sleeve	49. Electrical stunner	
7. Clipper comb	33. Ralgro pellet injector	50. Emulsifier	
8. Clipper cutter	34. Ram marking harness	51. Ham net	
9. Currycomb	35. Rumen magnate	52. Hand saw	
10. Disposable syringes	36. Scotch Comb	53. Hard hat	
11. Drench gun	37. Slap tattoo	54. Loin eye area grid	
12. Ear notchers	38. SYNOVEX Implant cartridge	55. Meat grinder	
13. Ear tag	39. SYNOVEX Implant gun	56. Meat grinder auger	
14. Elastrator	40. T-Post Electric Fence Insulator	57. Meat grinder knife	
15. Electric branding iron	41. Water Heater	58. Meat grinder plate	
16. Electric docker	42. Wood post electric fence	59. Meat grinder stuffing roo	
17. Electric fence wire roller	insulator	60. Meat hook	
18. Electric sheep shears		61. Meat tenderizer	
19. Emasculatome (Burdizzo)		62. Meat trolley	
20. Ewe prolapse retainer		63. Metal knife scabbard	
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. Hand sheep shears		68. Tumbler	
		69. Vacuum sausage stuffer	
		70. Whale saw	

Equipment Uses – to be used in answer column 2 by Seniors

- ${\bf A.}\,$ A non-rusting, electric fence insulator that fits snugly around the web and flange of T-posts.
- B. A device placed on rams that shows when a ewe has been serviced.
- C. Used to chop meat for sausages.
- D. Used to cut up meat 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 shear and groom the wool from sheep. Blade lengths typically range from 3 to 6-1/2 inches.
- G. An instrument used to control vaginal prolapse in ewes.
- $\boldsymbol{H}.$ Used to prevent hogs raised outdoors from rooting holes in the ground.
- I. Used for temporary identification of livestock.

- $\label{eq:J.An automatic waterer used to provide clean, fresh water to pigs.$
- K. Used to keep water tanks from freezing.
- L. An instrument used for the bloodless castration of young male calves, lambs, and goats by severing (crushing) the testicular cord.
- M. Used to clip off the 4 pairs of very sharp teeth found in baby pigs.
- N. Used to comb (groom) the hair on cattle.
- O. Used to dock the tails of lambs and piglets. It cauterizes as it cuts the tail to eliminate excessive bleeding.
- P. Used to administer precise amounts of liquid medications to cattle, goats, sheep and horses.

KEY

Senior Livestock and Meat Equipment Identification – 2018

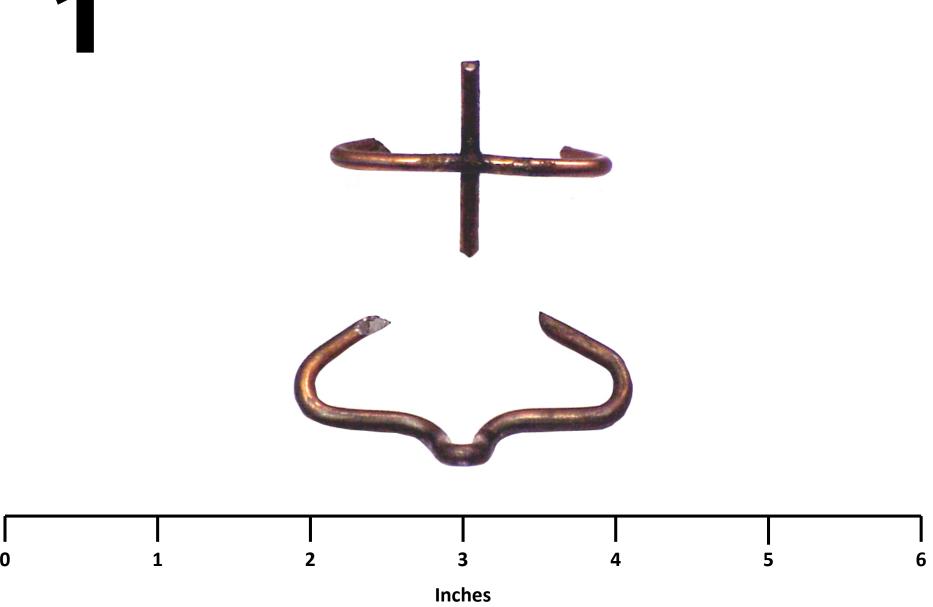
INSTRUCTIONS: For each picture, use the columns on the right to choose the number or letter that indicates your answer for each piece of equipment. Use capital letters and write neatly. **Intermediates** provide answers for livestock/meat equipment names and equipment use. Each question is worth 5 points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

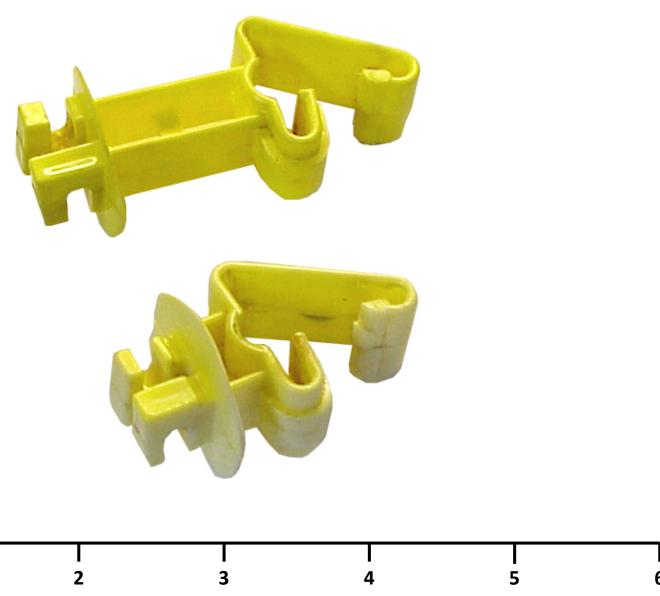
	Equipment Name	Equipment Use
1.	29	Н
2.	40	<u>A</u>
3.	14	E
4.	25	F
5.	27	M
6.	41	K
7.	1	
8.	16	0
9.	11	<u> </u>
10.	19	L

Equipment Uses – to be used in answer column 2 by Seniors

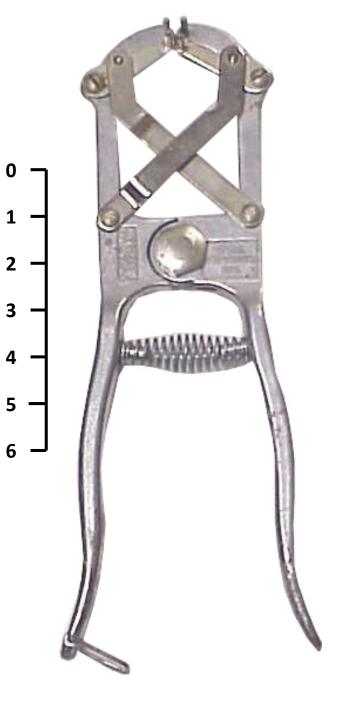
- A. A non-rusting, electric fence insulator that fits snugly around the web and flange of T-posts.
- B. A device placed on rams that shows when a ewe has been serviced.
- C. Used to chop meat for sausages.
- D. Used to cut up meat carcasses.
- E. An instrument used for the bloodless castration (young 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 shear and groom the wool from sheep. Blade lengths typically range from 3 to 6-1/2 inches.
- G. An instrument used to control vaginal prolapse in ewes.
- H. Used to prevent hogs raised outdoors from rooting holes in the ground.
- I. Used for temporary identification of livestock.

- J. An automatic waterer used to provide clean, fresh water to pigs.
- K. Used to keep water tanks from freezing.
- L. An instrument used for the bloodless castration of young male calves, lambs, and goats by severing (crushing) the testicular cord.
- M. Used to clip off the 4 pairs of very sharp teeth found in baby pigs.
- N. Used to comb (groom) the hair on cattle.
- O. Used to dock the tails of lambs and piglets. It cauterizes as it cuts the tail to eliminate excessive bleeding.
- P. Used to administer precise amounts of liquid medications to cattle, goats, sheep and horses.



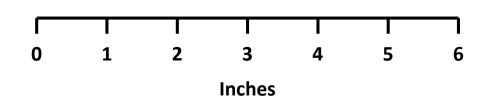


Inches

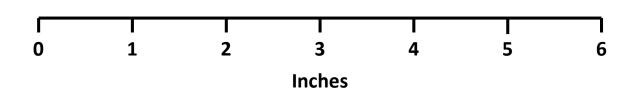


Inches





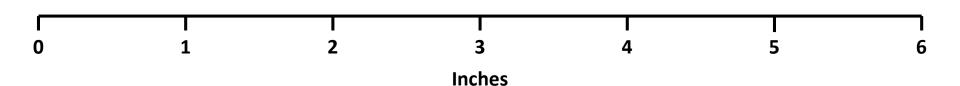


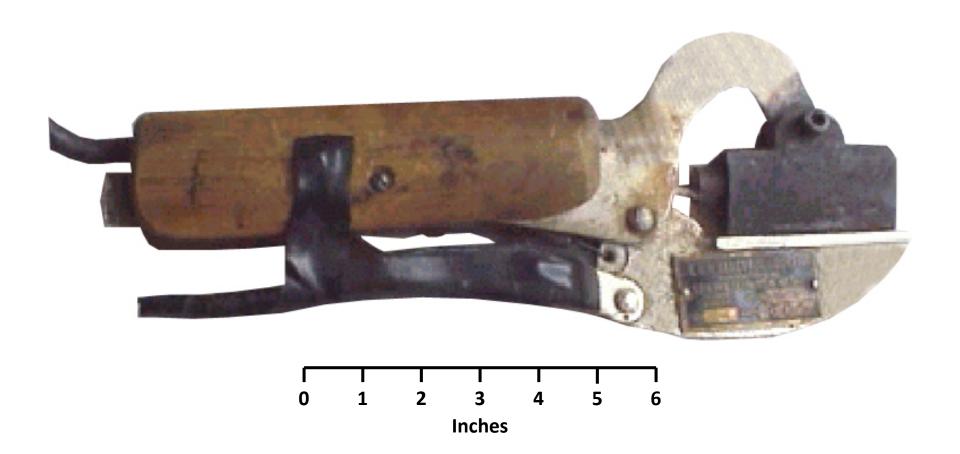




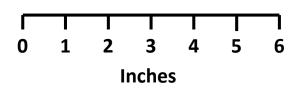


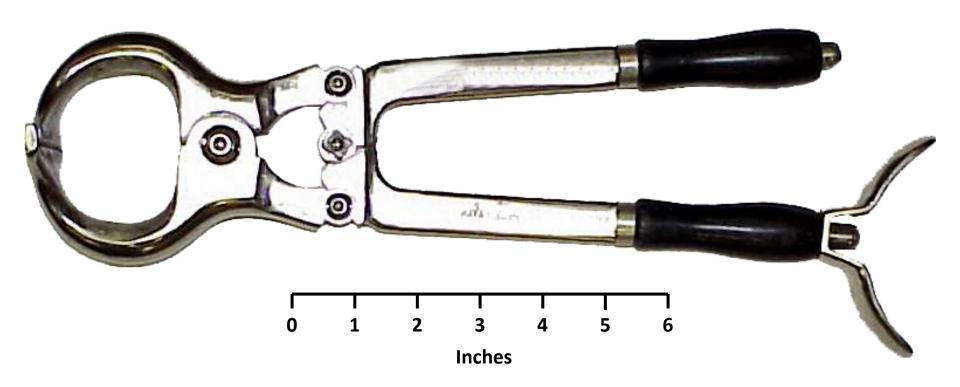












Name	·	Contestant#	County
	Senior Individ	ual Quality	Assurance - 2018
called (want to knowle	Optaflexx in your finishing ratio	on for market heifers. eeding it. Use the Opt agement to answer th	
1.	What is the active ingredien	t in Optaflexx?	
	A.) monensin	C.)	Flexx
	B.) Gamma-cyhalothrin	D.	ractopamine hydrochloride
2.	What does the control group	represent?	
	A.) Cattle fed 100 mg/hd	I/d C.	Cattle not fed Optaflexx
	B.) Cattle fed 200 mg/hd	J/d D.	Cattle easy to work with
3.	What percentage of the heif Choice or Higher?	ers in the trial fed 30	O mg/hd/d had a USDA quality grade of
	A.) 64.8 %	C.)	63.56 %
	B.) 98.76 %	D.) 100 %
4.	On average, what happened	to the marbling scor	e when dosage of Optaflexx increased?

C.) No change

D.) Modest

A.) Increased

B.) Decreased

5.	By how many pounds did compared to the control		eight ir	ncrease for cat	tle fed a	at 300 mg/hd/d when
	A.) 753.3 pounds			C.) 0.3 pound	ls	
	B.) 17.8 pounds			D.) 14.1 poun	ds	
6.	What is Optaflexx?					
	A.) Beta-antagonist	B.) Illegal	C.) Be	ta-agonist	D.) Ma	de in China
7.	How many total studies	met all the sele	ection c	riteria in this s	summar	γ?
	A.) 16 studies	B.) 28 studies		C.) 42 studies		D.) 12,342 studies
8.	How is Optaflexx used?					
	A.) Off-Label	B.) On-Label		C.) Not Used		D.) Both A and B
9.	When fed as a top dress, minimum of 1.0 lb/hd/d	•			M basis	continuously in a
	A.) 90 – 430 mg/hd/d			C.) 28 - 42 mg	g/hd/d	
	B.) 70 – 400 mg/hd/d			D.) 8.2 – 24.6	mg/hd,	⁄d
10. Your goal is to increase feed efficiency and ribeye area in the cattle you feed based off of previous years cut out data on your cattle. Should you feed Optaflexx?						
	A.) No, it does not increa	se ribeye area		C.) Yes	s, feed a	s much as possible
	B.) No, it is too expensive	e		D.) Ye	s, if used	l as directed

Name	<u>KEY</u>	_Contestant	t#	County	
	Senior Indivi	dual Qua	ality	Assurance -	2018
called O want to knowled Circle th	nage a 1000 head feed lot. ptaflexx in your finishing ra do further research before dge of quality assurance ma ne best answer. (10 questio	tion for market feeding it. Use nagement to an ns worth 5 poin	heifers. ' the Opta nswer the ts per que	You are unfamiliar with the flexx trial summary proving 10 questions.	nis product and ded and your
1.	What is the active ingredie	ent in Optaflexx	?		
	A.) monensin		C.)	Flexx	
	B.) Gamma-cyhalothrir		D.)	ractopamine hydrochlori	de
2.	What does the control gro	up represent?			
	A.) Cattle fed 100 mg/	hd/d <	C.)	Cattle not fed Optaflexx	
	B.) Cattle fed 200 mg/	hd/d	D.)	Cattle easy to work with	
	What percentage of the he Choice or Higher?	eifers in the tria	l fed 300	mg/hd/d had a USDA qu	ality grade of
	A.) 64.8 %		C.)	63.56 %	
	B.) 98.76 %		D.)	100 %	
_	On average, what happene		•	harden to to	

C.) No change

D.) Modest

A.) Increased

B.) Decreased

5.	By how many pounds did compared to the control	_	nt increase for cattle fe	ed at 300 mg/hd/d when
	A.) 753.3 pounds		C.) 0.3 pounds	
	B.) 17.8 pounds		D.) 14.1 pounds	
6.	What is Optaflexx?			
	A.) Beta-antagonist	B.) Illegal C.)	Beta-agonist D.)	Made in China
7.	How many total studies	met all the selection	on criteria in this sumn	nary?
<	A.) 16 studies	B.) 28 studies	C.) 42 studies	D.) 12,342 studies
8.	How is Optaflexx used?			
	A.) Off-Label	B.) On-Label	C.) Not Used	D.) Both A and B
9.	When fed as a top dress minimum of 1.0 lb/hd/d	•		asis continuously in a
	A.) 90 – 430 mg/hd/d		C.) 28 - 42 mg/hd,	/d
	B.) 70 – 400 mg/hd/d		D.) 8.2 – 24.6 mg/	/hd/d
10. Your goal is to increase feed efficiency and ribeye area in the cattle you feed based off of previous years cut out data on your cattle. Should you feed Optaflexx?				
	A.) No, it does not increa	ase ribeye area	C.) Yes, fee	ed as much as possible
	B.) No, it is too expensive	e	D.) Yes, if u	used as directed

Optaflexx® Research Brief 7

Effects of Optaflexx® on Performance and Carcass Characteristics in Finishing Heifers: 16-trial Summary

Elanco Study No. T4VUS130001



Study overview

A meta-analysis of 16 trials was conducted to quantify the effects of Optaflexx dose level on performance and carcass characteristics in finishing heifers.

Key study results

- · Compared to the control, Optaflexx fed at 200 mg/hd/d:
 - Improved feed efficiency by 12.5%
 - Increased live weight gain by 11.9 lbs
 - Increased hot carcass weight (HCW) by 9.4 lbs
 - Increased dressing percent by 0.2 units

- Compared to the control, Optaflexx fed at 300 mg/hd/d:
 - Improved feed efficiency by 18.8%
 - Increased live weight gain by 17.8 lbs
 - Increased HCW by 14.1 lbs
 - Increased dressing percent by 0.3 units

Background information

TRIAL DESIGN

- Trial selection criteria
 - Experimental unit was pen or lot
 - Negative control and at least one Optaflexx treatment
 - On-label use for dose and duration
 - Period performance data (28 to 42 days)
- A total of 16 studies met selection criteria

STATISTICS

- Data were analyzed in SAS using mixed effects regression models with Optaflexx intake (mg/hd/d) as the primary predictor
- The meta-analysis used a regression model that inversely weighted each study to its variation — the more variation there was in a study, the less weight the study was given in the analysis
- Differences were deemed statistically significant if P < 0.05

MATERIALS AND METHODS

Total head — 12,342

- Control: 5,387 hd

- 100 mg/hd/d Optaflexx: 172 hd

- 200 mg/hd/d Optaflexx: 5,139 hd

- 300 mg/hd/d Optaflexx: 1,644 hd

· Research conducted in 8 states

Initial weight ranged from 1.015 to 1.267 lbs

Final weight ranged from 1,097 to 1,362 lbs

Hot carcass weight ranged from 638 to 813 lbs

Average duration of Optaflexx feeding was 32.3 days

Study results

Table 1. Live performance of heifers comparing multiple Optaflexx doses

	Optaflexx treatment, mg/hd/d			SEM	<i>P</i> -value		
	0	100	200	300	SEIVI	Linear	Quadratic
Live weight gain, lbs	72.8	78.7	84.6	90.6	3.62	< 0.01	0.62
Response over controls, lbs	_	5.9	11.9	17.8	_	_	_
Daily gain, lbs	2.56	2.76	2.96	3.16	0.10	< 0.01	0.92
Response over controls, %	_	7.8	15.7	23.5	_	_	_
DM intake, lbs/d	20.30	20.18	20.36	20.14	0.63	0.97	0.23
Feed conversion	7.78	7.30	6.81	6.32	0.21	< 0.01	0.39
Response over control, % improvement	_	6.3	12.5	18.8	_	_	_

Table 2. Carcass characteristics of heifers comparing multiple Optaflexx doses

	Optaflexx treatment, mg/hd/d			SEM	<i>P</i> -value		
	0	100	200	300	SLIVI	Linear	Quadratic
Dress, %	62.54	62.64	62.74	62.84	0.46	0.03	0.98
Response over controls, units	_	0.1	0.2	0.3	_	_	_
HCW, Ibs	739.2	743.9	748.6	753.3	8.59	< 0.01	0.07
Response over controls, lbs	_	4.7	9.4	14.1	_	_	_
12 th rib back fat thickness, in	0.59	0.60	0.61	0.62	0.023	0.42	0.51
Ribeye area, in²	13.28	13.42	13.57	13.72	0.187	< 0.01	0.91
Response over controls, in ²	_	0.14	0.29	0.44	_	_	_
Calculated USDA yield grade	2.94	2.92	2.90	2.88	0.098	0.38	0.12
Marbling score ^a	540	538	537	536	7.3	0.32	0.84

^aMarbling score — 500=Small⁰⁰, 600=Modest⁰⁰.

Table 3. USDA quality-grade distribution of heifers comparing multiple Optaflexx doses

		Optaflexx treat	SEM	<i>P</i> -value		
	0	100	100 200 300		SLIVI	Linear
Prime, %	1.59	1.46	1.35	1.24	0.20	< 0.01
Choice, %	68.84	67.15	65.39	63.56	0.18	< 0.01
Select, %	28.10	29.79	31.52	33.30	0.19	< 0.01
Standard/No roll, %	1.47	1.61	1.75	1.90	0.03	0.01

^aDegrees of freedom (DF) = 17; Treatment x duration interaction P = 0.56.

Table 4. USDA yield-grade distribution of heifers comparing multiple Optaflexx doses

		Optaflexx treat	SEM	<i>P</i> -value		
	0	100	200	300	SLIVI	Linear
Yield grade 1, %	11.30	11.92	12.58	13.27	0.23	< 0.01
Yield grade 2, %	39.55	40.44	41.31	42.13	0.23	< 0.01
Yield grade 3, %	38.50	37.55	36.57	35.57	0.23	< 0.01
Yield grade 4, %	9.73	9.22	8.73	8.27	0.25	< 0.01
Yield grade 5, %	0.92	0.86	0.81	0.76	0.03	0.02

 $^{^{}a}DF = 15$; Treatment x duration interaction P = 0.31.

Key findings

- Live and carcass weight gain increased as the dose of Optaflexx increased
- Effects on carcass characteristics and USDA quality and yield grades changed with increasing doses of Optaflexx, resulting in slight shifts in yield- and quality-grade distributions
- In a highly dynamic marketplace, Optaflexx is the only beta-agonist that gives cattle feeders more management options,*
 allowing them to respond to changes in the market while optimizing both live and carcass performance

The label contains complete use information, including cautions and warnings. Always read, understand and follow the label and use directions.

Optaflexx: Complete feed

For increased rate of weight gain and improved feed efficiency: Feed 8.2 to 24.6 g/ton of ractopamine hydrochloride (90% DM basis) continuously in a complete feed to provide 70 to 430 mg/hd/d for the last 28 to 42 days on feed.

For increased rate of weight gain, improved feed efficiency and increased carcass leanness: Feed 9.8 to 24.6 g/ton of ractopamine hydrochloride (90% DM basis) continuously in a complete feed to provide 90 to 430 mg/hd/d for the last 28 to 42 days on feed.

Optaflexx: Top dress

For increased rate of weight gain and improved feed efficiency: Feed 70 to 400 mg/hd/d of ractopamine hydrochloride (90% DM basis) continuously in a minimum of 1.0 lb/hd/d top dress Type C medicated feed (maximum 800 g/ton ractopamine hydrochloride) during the last 28 to 42 days on feed.



^{*}Based on zero-day withdrawal and dose range.

NameCounty

Senior Quiz - 2018

Carefully circle the correct answer to each of the questions below. (Each question is worth 2 points each for a total of 50 points)

		1 /		
1.)	What of	class of nutrients are consider	red the bod	y's fuel?
	a.	Roughages	c	. Vitamins
	b.	Energy	d	. Minerals
2.)	How n	many steers are born in the U	nited States	s each year?
	a.	0	c	. 100,000
	b.	10,000	d	. 1,000,000
3.)	The re	ecommended time frame to ca	strate lamb	os and pigs is?
	a.	Day born	c	. 5 weeks of age
	b.	First 2 weeks of age	d	. 10 weeks of age
4.)	What	may cause hay to be yellow o	or brownish	in color?
	a.	Bleached out by the sun	c. Stored	d in the bale at too high moisture
	b.	Rained on	d. All of	these
5.)	Which	of these is the least desirable	e, lowest qı	uality roughage?
	a.	Alfalfa	c	. Clover
	b.	Timothy	d	. Fescue
6.)	What i	is docking?		
	a.	Vacinating	c	. Dehorning
	b.	Detailing	d	. Castrating
7.)		is a concern of swine breeder nortality rate?	s where ba	by pigs get dehydrated, have scours and have a
	a.	PEDv	c	. Parakaratosis
	b.	Rhinitis	d	. Gestation
8.)	What i	is the most important thing to	provide li	vestock?
	a.	Show Feed	c	. Water
	b.	Vitamins	d	. Salt

9.) Progr	ams such as "Berkshire Gold", or "Ce	rtified Hereford Beef "are called?
a.	Organic	c. Cheap products
b.	Boxes of meat	d. Branded Products or niche market
10.) What	is the most acceptable weight on mark	xet hogs?
a.	75 – 125	c. 250 – 325
b.	125 – 225	d. 375 – 450
11.) Whe	n would it be recommended to give ire	on shots to swine after birth?
a.	First 48 hours	c. 84 days
b.	48 days	d. 480 days
12.) Wha	t is most important when selecting bre	eding animals to be used as replacements?
a.	Color and breed	c. Bone and foot size
b.	Structural and reproductive soundne	ss d. Muscle
13.) Whi	ch breed would you select for motherin	ng ability and marbling?
a.	Hereford	c. Charolais
b.	Chianina	d. Angus
	at Quality Grade would you expect a b receive?	eef animal with extra fat cover and intra - muscular
a.	1 or 2	c. High Choice
b.	Select	d. 5 or 6
15.) Whi	ch state is the leading cattle producing	state east of the Mississippi?
a.	Kentucky	c. Illinois
b.	Texas	d. Maine
16.) Wha	t is the most important vitamin for a b	reeding beef animal?
a.	Vitamin A	c. Vitamin T
b.	Vitamin C	d. Vitamin Z
17.) Wha	t is included at Livestock Judging Cor	itests?
a.	Classes of animals	c. Reasons
b.	Questions	d. All of the above

18.) Whic	h one is not a common parasite of catt	tle?	,
a.	Grubs	c.	Lice
b.	Birds	d.	Flies
19.) Calci	um and Phosphorous are?		
a.	Vitamins	c.	Minerals
b.	Proteins	d.	Oils
20.) Feedi	ng cattle grain that is too finely groun	d c	an cause?
a.	Extra growth	c.	More Profit
b.	Bloat	d.	Less days on feed
21.) A noi	rmal beef steer will consume what per	cen	nt of its body weight in feed each day?
a.	1%	c.	10%
b.	2.5%	d.	25%
22.) Long	periods of stress prior to the harvest of	of b	eef cattle causes?
a.	Dark Cutter	c.	Better Yield Grade
b.	Better Quality Grade	d.	Extra Carcass Weight
23.) Whic		su	pplement feed to beef calves on pasture prior to
a.	Provide extra water	c.	Creep feeding
b.	Providing poor quality hay or straw	d.	None of these
24.) What		a	given trait that is passed on directly from parent to
a.	Heterozygous	c.	Heritability
b.	Homozygous	d.	Both A and C
25.) Whic	h of these is not used to identify new	bor	n lambs in the flock setting?
a.	Ear Notches	c.	Paint branding
b.	Tagging	d.	DNA

KEY

Senior Quiz - 2018

Carefully circle the correct answer to each of the questions below. (Each question is worth 2 points each for a total of 50 points)

1.) What class of nutrients are considered the body's fuel?				
a. Roughages	c. Vitamins			
b. Energy	d. Minerals			
2.) How many steers are born in the United	States each year?			
a. 0	c. 100,000			
b. 10,000	d. 1,000,000			
3.) The recommended time frame to castrate	e lambs and pigs is?			
a. Day born	c. 5 weeks of age			
b. First 2 weeks of age	d. 10 weeks of age			
4.) What may cause hay to be yellow or bro	wnish in color?			
a. Bleached out by the sun c.	Stored in the bale at too high moisture			
b. Rained on d. A	All of these			
5.) Which of these is the least desirable, low	vest quality roughage?			
a. Alfalfa	c. Clover			
b. Timothy	d. Fescue			
6.) What is docking?				
a. Vacinating	c. Dehorning			
b. Detailing	d. Castrating			
7.) What is a concern of swine breeders where baby pigs get dehydrated, have scours and have a high mortality rate?				
a. PEDv	c. Parakaratosis			
b. Rhinitis	d. Gestation			
8.) What is the most important thing to prov	vide livestock?			
a. Show Feed	c. Water			
b. Vitamins	d. Salt			

9.) Progr	ams such as "Berkshire Gold", or "Ce	rtified Hereford Beef "are called?
a.	Organic	c. Cheap products
b.	Boxes of meat	d. Branded Products or niche market
10.) What	is the most acceptable weight on mark	ket hogs?
a.	75 – 125	c. 250 – 325
b.	125 – 225	d. 375 – 450
11.) Whe	n would it be recommended to give in	on shots to swine after birth?
a.	First 48 hours	c. 84 days
b.	48 days	d. 480 days
12.) Wha	t is most important when selecting bre	eeding animals to be used as replacements?
a.	Color and breed	c. Bone and foot size
b .	Structural and reproductive soundne	d. Muscle
13.) Whic	ch breed would you select for motheri	ng ability and marbling?
a.		c. Charolais
b.	Chianina	d. Angus
	at Quality Grade would you expect a breceive?	peef animal with extra fat cover and intra - muscular
a.	1 or 2	c. High Choice
b.	Select	d. 5 or 6
15.) Which	ch state is the leading cattle producing	state east of the Mississippi?
a.	Kentucky	c. Illinois
b.	Texas	d. Maine
16.) Wha	t is the most important vitamin for a b	reeding beef animal?
a.	Vitamin A	c. Vitamin T
b.	Vitamin C	d. Vitamin Z
17.) Wha	t is included at Livestock Judging Cor	ntests?
a.		c. Reasons
b.	Questions	d. All of the above

18.) W	/ nic	n one is not a common parasite of	or cattle?	
	a.	Grubs	c.	Lice
	b.	Birds	d.	Flies
19.) C	alci	um and Phosphorous are?		
	a.	Vitamins	c.	Minerals
	b.	Proteins	d.	Oils
20.) Fe	eedi	ng cattle grain that is too finely g	ground ca	an cause?
	a.	Extra growth	c.	More Profit
	b.	Bloat	d.	Less days on feed
21.) A	noı	mal beef steer will consume wha	at percen	t of its body weight in feed each day?
	a.	1%	c.	10%
	b.	2.5%	d.	25%
22.) L	ong	periods of stress prior to the har	vest of b	eef cattle causes?
	a.	Dark Cutter	c.	Better Yield Grade
	b.	Better Quality Grade	d.	Extra Carcass Weight
	/hic		sed to su	pplement feed to beef calves on pasture prior to
	a.	Provide extra water	c.	Creep feeding
	b.	Providing poor quality hay or st	traw d.	None of these
		is the proportion of total variationg?	on for a g	given trait that is passed on directly from parent to
	a.	Heterozygous	c.	Heritability
	b.	Homozygous	d.	Both A and C
25.) W	/hic	h of these is not used to identify	new born	n lambs in the flock setting?
	a.	Ear Notches	c.	Paint branding
	b.	Tagging	d.	DNA

Senior Retail Meat Judging Class 1 - 2018

Name	Contestant #	County
INAME	Contestant #	County

Placing is worth a possible 50 points

Contestant Number	
Placing Score	
_	
University of Kentucky	
College of Agriculture Animal Sciences Department	
Anima Sciences Department	A 1234
	B 1243
Contestant's Name	C 1324
	D 1342
	E 1423
	F 1432
	G 2134
	H 2143
Address	I 2314
	J 2341
	K 2413
	L 2431
	M 3124
	N 3142
County	O 3214
County	P 3241
	Q 3412
	R 3421
	S 4123
Class: 1. Bone in Ribeyes	T 4132
	U 4213
	V 4231
	W 4312
	X 4321
	<u> </u>

Senior Retail Meat Judging Class 1 - 2018

Placing is worth a possible 50 points

Official: 1-4-2-3 Cuts: 3-4-2

Contestant Number			
Placing Score			
Hairanita of Kantada	A	1234	40
University of Kentucky College of Agriculture	В	1 2 4 3	46
Animal Sciences Department	С	1 3 2 4	38
	D	1 3 4 2	42
Contestant's Name	Е	1 4 2 3	50
	F	1 4 3 2	48
	G	2 1 3 4	33
	Н	2 1 4 3	39
4 JJ	I	2 3 1 4	24
Address	J	2 3 4 1	21
	K	2 4 1 3	36
	L	2 4 3 1	27
	M	3 1 2 4	29
County	N	3 1 4 2	33
Sounty	0	3 2 1 4	22
	Р	3 2 4 1	19
	Q	3 4 1 2	30
Class: 1. Bone in Ribeyes	R	3 4 2 1	23
	S	4123	47
	Т	4132	45
	U	4213	40
	V	4231	31
	W	4 3 1 2	36
	X	4 3 2 1	29

Senior Retail Meat Judging Class 2 - 2018

Name	Contestant #	County

(Placing is worth a possible 50 points and each of the 5 questions is worth 10 points for 50 possible points - Grand Total of 100 possible points)

Contestant Number	
Placing Score	
University of Kentucky	
College of Agriculture	
nimal Sciences Department	A 1234
	B 1243
N 4 4 19 N	C 1324
Contestant's Name	D 1342
	E 1423
	F 1432
	G 2134
	H 2143
A 11	I 2314
Address	J 2341
	K 2413
	L 2431
	M 3124
	N 3142
3 4	O 3214
County	P 3241
	Q 3412
	R 3421
	S 4123
Class	T 4132
	U 4213
Retail Meat Class 2 Strip Steaks	V 4231
	W 4312
	X 4321

[Turn over and answer questions on the back of this sheet]

QUESTIONS

1)	Which steak has the most external fat cover and least amount of edible product?
2)	Which steak has the least amount of tail waste?
3)	Between 3 and 4, which steak has less seam fat?
4)	Between 1 and 2, which steak has the more uniform and more correctly textured
	marbling?
5)	Between 3 and 4, which steak has a more correct shape to the eye?

Senior Retail Meat Judging Class 2 - 2018

Official: 2-3-4-1 Cuts: 4-2-7

(Placing is worth a possible 50 points and each of the 5 questions is worth 10 points for 50 possible points - Grand Total of 100 possible points)

Placing Score	A	1234	21
	В	1 2 4 3	19
niversity of Kentucky	С	1 3 2 4	17
ollege of Agriculture nimal Sciences Department	D	1 3 4 2	11
7	Е	1 4 2 3	13
Contestant's Name	F	1 4 3 2	9
ontestant's Name	G	2 1 3 4	34
	Н	2 1 4 3	32
	I	2 3 1 4	43
	J	2 3 4 1	50
	K	2 4 1 3	39
Address	L	2 4 3 1	48
	M	3 1 2 4	26
	N	3 1 4 2	20
	О	3 2 1 4	39
	P	3 2 4 1	46
County	Q	3 4 1 2	27
	R	3 4 2 1	40
	S	4123	20
	T	4132	16
Class	U	4213	33
Retail Meat Class 2 Strip Steaks	V	4 2 3 1	42
	W	4 3 1 2	25
	X	4 3 2 1	38

[Turn over and answer questions on the back of this sheet]

QUESTIONS

1)	Which steak has the most external fat cover and least amount of edible product?1
2)	Which steak has the least amount of tail waste?4
3)	Between 3 and 4, which steak has less seam fat?4
4)	Between 1 and 2, which steak has the more uniform and more correctly textured
	marbling?2
5)	Between 3 and 4, which steak has a more correct shape to the eye?3

Senior Hay Judging Class - 2018

rame ouncestant " ouncy	Name	Contestant #_	County
-------------------------	------	---------------	--------

(50 points possible)

Contestant Number	
Placing Score	
University of Kentucky	
College of Agriculture	A 1234
Animal Sciences Department	B 1243
	C 1324
Contestant's Name	D 1342
	E 1423
	F 1423
	G 2134
	H 2143
Address	I 2314
	K 2413
	L 2431
County	M 3124
County	N 3142
	O 3214
	P 3241
Class	Q 3412
	R 3421
Hay Judging Class	S 4123
	T 4132
	U 4213
	V 4231
	W 4312
	X 4321

[Turn over for Scenario and Forage Analysis Information]

Scenario:

You are backgrounding a load of feeder heifers with an average weight of 400 pounds. These cattle have been purchased from a local stockyard and have not been vaccinated or started on feed. Rank the four hay samples in the order that you would utilize them as the most cost effective source of forage for these feeder heifers. A commercial preconditioning feed will be feed for the first 3 weeks of the backgrounding period in addition to the hay that you choose. Ultimately the hay you choose will be the main source of feed for the next 60 days.

Nutrient Requirements for 400 pound feeder heifers to gain 1.5 pounds per day.

Dry Matter: 10.7 pounds per day

Crude Protein: 12.1% Total Digestible Nutrients 64%

Forage Analysis

	Hay Lot #1 2017 2 nd Cutting Orchardgrass	Hay Lot #2 2014 Late Cut Grass Mixture	Hay Lot #3 2017 2 nd Cutting Orchardgrass	Hay Lot # 4 2014 Late Cut Grass Mixture
Dry matter	88.6%	88.9%	88.6%	88.9%
Crude protein	12.6%	7.4%	12.7%	8.5%
Acid detergent fiber (ADF)	44.8%	49.9%	44.6%	49.7%
Neutral detergent fiber (NDF)	67.3%	69.2%	67.5%	69.4%
Total digestible nutrients (TDN)	64.6%	50.0%	65.5%	52.0%
Price per ton	\$110	\$85	\$110	\$85

Senior Hay Judging Class - 2018

Official: 3-1-4-2 Cuts: 3-7-2

(50 points possible)

Placing Score			
University of Kentucky			
College of Agriculture Animal Sciences Department	A	1234	33
	В	1 2 4 3	23
Contestant's Name	С	1324	45
Contestant's Name	D	1 3 4 2	47
	Е	1 4 2 3	25
	F	1 4 3 2	37
	G	2 1 3 4	24
A 11	Н	2 1 4 3	14
Address	I	2 3 1 4	27
	J	2 3 4 1	20
	K	2413	7
	L	2 4 3 1	10
	M	3 1 2 4	48
County	N	3 1 4 2	50
	O	3 2 1 4	39
	P	3 2 4 1	32
~	Q	3 4 1 2	43
Class	R	3 4 2 1	34
Hay Judging Class	S	4123	18
	T	4 1 3 2	30
	U	4213	9
	V	4231	12
	W	4 3 1 2	33
	X	4 3 2 1	24

[Turn over for Scenario and Forage Analysis Information]

Scenario:

You are backgrounding a load of feeder heifers with an average weight of 400 pounds. These cattle have been purchased from a local stockyard and have not been vaccinated or started on feed. Rank the four hay samples in the order that you would utilize them as the most cost effective source of forage for these feeder heifers. A commercial preconditioning feed will be feed for the first 3 weeks of the backgrounding period in addition to the hay that you choose. Ultimately the hay you choose will be the main source of feed for the next 60 days.

Nutrient Requirements for 400 pound feeder heifers to gain 1.5 pounds per day.

Dry Matter: 10.7 pounds per day

Crude Protein: 12.1% Total Digestible Nutrients 64%

Forage Analysis

	Hay Lot #1 2017 2 nd Cutting Orchardgrass	Hay Lot #2 2014 Late Cut Grass Mixture	Hay Lot #3 2017 2 nd Cutting Orchardgrass	Hay Lot # 4 2014 Late Cut Grass Mixture
Dry matter	88.6%	88.9%	88.6%	88.9%
Crude protein	12.6%	7.4%	12.7%	8.5%
Acid detergent fiber (ADF)	44.8%	49.9%	44.6%	49.7%
Neutral detergent fiber (NDF)	67.3%	69.2%	67.5%	69.4%
Total digestible nutrients (TDN)	64.6%	50.0%	65.5%	52.0%
Price per ton	\$110	\$85	\$110	\$85

Leftovers and Food Safety

Often when we cook at home or eat in a restaurant, we have leftovers. To ensure that leftovers are safe to eat, make sure the food is cooked to a safe temperature and refrigerate the leftovers promptly. Not cooking food to a safe temperature and leaving food out at an unsafe temperature are the two main causes of foodborne illness. Safe handling of leftovers is very important to reducing foodborne illness. Follow the <u>USDA Food Safety and Inspection Service's</u> recommendations for handling leftovers safely.

Cook Food Safely at Home

The first step in having safe leftovers is cooking the food safely. Use a food thermometer to make sure that the food is cooked to a safe, minimum internal temperature.

- Red meats: Cook all raw beef, pork, lamb and veal steaks, chops, and roasts to a minimum internal temperature of 145° F as measured with a food thermometer before removing meat from the heat source. For safety and quality, allow meat to rest for at least three minutes before carving or consuming. For reasons of personal preference, consumers may choose to cook meat to higher temperatures.
- **Ground meats:** Cook all raw ground beef, pork, lamb, and veal to an internal temperature of 160° F as measured with a food thermometer.
- Poultry: Cook all poultry to an internal temperature of 165° F as measured with a food thermometer.

Keep Food out of the "Danger Zone"

Bacteria grow rapidly between the temperatures of 40° F and 140° F. After food is safely cooked, hot food must be kept hot at 140° F or warmer to prevent bacterial growth. Discard any cold leftovers that have been left out for more than 2 hours at room temperature (1 hour when the temperature is above 90° F).

Cool Food Rapidly

To prevent bacterial growth, it's important to cool food rapidly so it reaches as fast as possible the safe refrigerator-storage temperature of 40° F or below. To do this, divide large amounts of food into shallow containers. A big pot of soup, for example, will take a long time to cool, inviting bacteria to multiply and increasing the danger of foodborne illness. Instead, divide the pot of soup into smaller containers so it will cool quickly.

Cut large items of food into smaller portions to cool. For whole roasts or hams, slice or cut them into smaller parts. Cut turkey into smaller pieces and refrigerate. Slice breast meat; legs and wings may be left whole.

Wrap Leftovers Well

Cover leftovers, wrap them in airtight packaging, or seal them in storage containers. These practices help keep bacteria out, retain moisture, and prevent leftovers from picking up odors from other food in the refrigerator.

Store Leftovers Safely

Leftovers can be kept in the refrigerator for 3 to 4 days or frozen for 3 to 4 months. Although safe indefinitely, frozen leftovers can lose moisture and flavor when stored for longer times in the freezer.

Thaw Frozen Leftovers Safely

Safe ways to thaw leftovers include the refrigerator, cold water and the microwave oven. Refrigerator thawing takes the longest but the leftovers stay safe the entire time. After thawing, the food should be used within 3 to 4 days or can be refrozen.

Microwave thawing is the fastest method. When thawing leftovers in a microwave, continue to heat it until it reaches 165° F as measured with a food thermometer. Foods thawed in the microwave can be refrozen after heating it to this safe temperature.

Reheat Leftovers Safely

When reheating leftovers, be sure they reach 165° F as measured with a food thermometer. Reheat sauces, soups and gravies by bringing them to a rolling boil. Cover leftovers to reheat. This retains moisture and ensures that food will heat all the way through.

County	=		
Toom Momboro			

Senior Team Quality Assurance Exercise – 2018

In today's Food Industry, it is becoming more and more important that we have trained, qualified individuals to provide research based information that is guided by common sense about the food we raise, provide and sell to the general population. Food Safety jobs are in high demand. They give you the opportunity to make a difference in local, state, national and international markets. Plus, with the continued growth in population and need for safe, affordable food, this allows for job security. Your mission at the Quality Assurance Station is work together as a team to answer the following questions which deal with food safety and animal / human contact dealing with influenza. Take your time but work efficiently. This is a double station so you have 24 minutes to work through this activity and you do not defend to a listener at this station. (Each correct answer for questions 1-9 are worth 10 points each. Questions 10-31 are worth 5 points each. Questions 1-9 and 10-31 combine for a total of 200 points).

<u>er.</u>

	<u>]</u>	Using the attached handout answer t They are worth 10 points each for a total of 90		
1.	Th	e best instrument to use to determine proper cool	king	temperature is?
	a.	Knife b. Eye ball c. Outdoor Thermom	eter	d. Cooking Thermometer
2.	То	thaw frozen ground beef, you should?		
	a.	Take out of package and thaw in hot water		c. Thaw in microwave
	b.	Place on top shelf of refrigerator just on the racl	ζ.	d. Thaw on the counter
3.	Ve	eal steaks should be cooked to a minimum interna	ıl tei	mperature of?
	a.	160 degrees b. 145 degrees c. 146	0 de	grees d. 90 degrees
4.	Af	ter properly placing leftovers in a sealed contained	er?	
	a.	There is no risk of bacteria	c.	Place in the refrigerator
	b.	Leave on the counter	d.	Place in a cool 60 ⁰ cabinet
5.	La	rge portions of meat or large pots of soup/stew sl	noul	d be?
	a.	Divided into smaller portions or containers	c.	Placed in refrigerator as is
	b.	Leave out to cool on the counter	d.	Reheat to 100 degrees & leave out 2 hrs

6. The proper cooking temperature for a medium-rare steak is 130° F. However accordiodsafety.gov it should at least be cooked to a minimal internal temperature of?	rding to
a. 150^{0} b. 120^{0} c. 145^{0} d. 160^{0})
7. Turkey should be served when?	
a. When the outside is nice and brown c. Internal temperatur	e of 165 ⁰
b. You taste it and it is awesome d. Internal temperatur	e of 145 ⁰
8. When reheating foods in a microwave you should?	
a. Stir and or turn the food to evenly cook c. Cook till the lid blo	ows off
b. Set on an appropriate time for the food d. Both A and B	
9. When dealing with preparing and keeping food safe, we are concerned with?	
a. Virus b. Bacteria c. Petrel d. Priu	18
Questions 10-13 deal with animal/human contact dealing with influenza They are worth 5 points each. Please circle your answer.	<u>•</u>
10. What is a "zoonotic disease"?	
a. Any disease that an animal at a Zoo gets. c. A disease where you see Zoo anim	als
b. There is no such thing as zoonotic disease d. Disease transmitted from animal to	human
11. What are fomites?	
a. A special brush for show animals. c. Any object that can spread a disea	se from touch
b. A small biting animal d. A brand of disinfectant for show b	parns
12. When should exhibitors report that pigs are ill to the show veterinarian?	
a. Anytime an animal becomes ill during a show c. When animals have a fever	ſ
b. Never d. Both A and C	
13. When should you disinfect equipment used with your animals at a show?	
a. After every show c. No need, doesn't matter	
b. Depends on value of your animals d. Only if you think they are dirty	

14. Refrigerator temperature will not kill bacteria
15. Hot enough to prevent most harmful bacteria from growing
16. Food Temperature Danger Zone
17. Freezer temperature will not kill bacteria
18. Hot enough to kill most harmful bacteria
Options for $14 - 18$.
A. 160 ⁰ to 212 ⁰ B20 ⁰ to 0 ⁰ C. 140 ⁰ to 160 ⁰ D. 32 ⁰ to 40 ⁰ E. 40 ⁰ to 140 ⁰
uestions 19 -31 are Random Food Safety Questions. They are worth 5 points each. Please circle answer
19. Placing grilled meats on the plate that held the raw meat is an example of:
a. Contamination b. Cross - contamination c. Cross - cooking
20. Tiny microorganisms which cause foodborne illness are called:
a. Lice b. Flagella c. Bacteria
21. What is the Food Temperature Danger Zone?
a. $10 - 15$ degrees b. $40 - 140$ degrees c. $160 - 212$ degrees
22. In order to multiply, most bacteria need:
a. Cold & Dry conditions b. Placed in a freezer c. Warm and Moist conditions
23. What are the most common symptoms of foodborne illness?
 a. Stomach and Bowel issues b. Sneezing and Cough c. Sore feet and legs

24.	. The abbreviation for the gove	ernment agency that is concern	ed with cause and control of disease:
	a. FFA b. FD	DA c. HUD	d. CDC
25.	. The safest place to store raw	meats in the refrigerator is:	
	a. On the top shelf	b. On the bottom shelf	c. On the counter
26.	. Who is least at risk to contra	act a foodborne illness?	
	a. A tiny baby	b. An elderly person	c. A lively teenager
27.	. Which food does not have to	o be kept cold to be safe?	
	a. Eggs	b. Meat	c. Apple
28.	. After using a cutting board f	For raw beef, what needs to be	done?
	a. Wipe with a paper towel	b. Switch to Poultry	c. Wash with soap and hot water
29.	. Which is the most unsafe to o	eat?	
	a. A washed apple b. C	Cookie dough with raw egg in i	it c. Cold tuna sandwich
30.	. Recommended handwashing	g takes how long?	
	a. 5 seconds b. 20	seconds c. 5 minutes	d. 20 minutes
31.	. What is a foodborne illness?		
	a. An illness caused by eati	ng too much food.	
	b. An illness caused by eati	ng foods that are high in fat ar	nd cholesterol.
	c. An illness caused by dise	ease causing microorganisms is	n food.

County		
Toom Momborou		

Senior Team Quality Assurance Exercise – 2018

In today's Food Industry, it is becoming more and more important that we have trained, qualified individuals to provide research based information that is guided by common sense about the food we raise, provide and sell to the general population. Food Safety jobs are in high demand. They give you the opportunity to make a difference in local, state, national and international markets. Plus, with the continued growth in population and need for safe, affordable food, this allows for job security. Your mission at the Quality Assurance Station is work together as a team to answer the following questions which deal with food safety and animal / human contact dealing with influenza. Take your time but work efficiently. This is a double station so you have 24 minutes to work through this activity and you do not defend to a listener at this station. (Each correct answer for questions 1-9 are worth 10 points each. Questions 10-31 are worth 5 points each. Questions 1-9 and 10-31 combine for a total of 200 points).

<u>r.</u>

	Using the attached handout answer the following 9 questions.
	They are worth 10 points each for a total of 90 points. Please circle your answer.
1.	The best instrument to use to determine proper cooking temperature is?
	a. Knife b. Eye ball c. Outdoor Thermometer d. Cooking Thermometer
2.	To thaw frozen ground beef, you should?
	a. Take out of package and thaw in hot water c. Thaw in microwave
	b. Place on top shelf of refrigerator just on the rack d. Thaw on the counter
3.	Veal steaks should be cooked to a minimum internal temperature of?
	a. 160 degrees b. 145 degrees c. 140 degrees d. 90 degrees
4.	After properly placing leftovers in a sealed container?
	a. There is no risk of bacteria c. Place in the refrigerator
	b. Leave on the counter d. Place in a $cool 60^0$ cabinet
5.	Large portions of meat or large pots of soup/stew should be?
	a. Divided into smaller portions or containers c. Placed in refrigerator as is
	b. Leave out to cool on the counter d. Reheat to 100 degrees & leave out 2 hrs

6. The proper cooking temperature for a medium-rare steak is 130°F. However according to foodsafety.gov it should at least be cooked to a minimal internal temperature of?
a. 150^{0} b. 120^{0} c. 145^{0} d. 160^{0}
7. Turkey should be served when?
a. When the outside is nice and brown c. Internal temperature of 165 ⁰
b. You taste it and it is awesome d. Internal temperature of 145 ⁰
8. When reheating foods in a microwave you should?
a. Stir and or turn the food to evenly cook c. Cook till the lid blows off
b. Set on an appropriate time for the food d. Both A and B
9. When dealing with preparing and keeping food safe, we are concerned with?
a. Virus b. Bacteria c. Petrel d. Prius
Questions 10-13 deal with animal/human contact dealing with influenza. They are worth 5 points each. Please circle your answer.
10. What is a "zoonotic disease"?
a. Any disease that an animal at a Zoo gets. c. A disease where you see Zoo animals
b. There is no such thing as zoonotic disease d. Disease transmitted from animal to human
11. What are fomites?
a. A special brush for show animals. c. Any object that can spread a disease from touch
b. A small biting animal d. A brand of disinfectant for show barns
12. When should exhibitors report that pigs are ill to the show veterinarian?
a. Anytime an animal becomes ill during a show c. When animals have a fever
b. Never d. Both A and C
13. When should you disinfect equipment used with your animals at a show?
a. After every show c. No need, doesn't matter
b. Depends on value of your animals d. Only if you think they are dirty

Questions 14-18 are matching temperatures with food safety terms. They are worth 5 points each.									
14. Refrigerator temperature will not kill bacteria									
15. Hot enough to prevent most harmful bacteria from growing									
16. Food Temperature Danger Zone									
17. Freezer temperature will not kill bacteria									
18. Hot enough to kill most harmful bacteria									
Options for $14-18$.									
A. 160° to 212° B20° to 0° C. 140° to 160° D. 32° to 40° E. 40° to 140° Questions 19 -31 are Random Food Safety Questions. They are worth 5 points each. Please circle answers. 19. Placing grilled meats on the plate that held the raw meat is an example of:									
a. Contamination b. Cross - contamination c. Cross - cooking									
20. Tiny microorganisms which cause foodborne illness are called:									
a. Lice b. Flagella c. Bacteria									
21. What is the Food Temperature Danger Zone?									
a. 10 – 15 degrees b. 40 – 140 degrees c. 160 – 212 degrees									
22. In order to multiply, most bacteria need:									
a. Cold & Dry conditions b. Placed in a freezer c. Warm and Moist conditions									
23. What are the most common symptoms of foodborne illness?									

b. Sneezing and Cough c. Sore feet and legs

a. Stomach and Bowel issues

24. The abbreviation for the government agency that is concerned with cause and control of disease:							
a. FFA b. FDA c. HUD d. CDC							
25. The safest place to store raw meats in the refrigerator is:							
a. On the top shelf b. On the bottom shelf c. On the counter							
26. Who is least at risk to contract a foodborne illness?							
a. A tiny baby b. An elderly person c. A lively teenager							
27. Which food does not have to be kept cold to be safe?							
a. Eggs b. Meat c. Apple							
28. After using a cutting board for raw beef, what needs to be done?							
a. Wipe with a paper towel b. Switch to Poultry c. Wash with soap and hot water							
29. Which is the most unsafe to eat?							
a. A washed apple b. Cookie dough with raw egg in it c. Cold tuna sandwich							
30. Recommended handwashing takes how long?							
a. 5 seconds b. 20 seconds c. 5 minutes d. 20 minutes							
31. What is a foodborne illness?							
a. An illness caused by eating too much food.							
b. An illness caused by eating foods that are high in fat and cholesterol.							
c. An illness caused by disease causing microorganisms in food.							

Sim-Angus Bull Data

SPRING 2018 EPDs

Bull # 1	CE	Brth	Wean	Year	ADG	MCE	Milk	MWW	Stay	Doc	CW	YG	Marb	BF	REA	Shr	API	TI
EPD	9.0	1.1	70.3	104.4	0.21	2.9	21.2	56.3	7.3	11.9	33.4	-0.29	0.42	-0.044	0.84	-0.14	123.2	76.2
ACC	0.53	0.62	0.45	0.46	0.46	0.40	0.39	0.41	0.31	0.20	0.39	0.27	0.40	0.25	0.32	0.16		
%	75	65	25	35	50	90	50	30	80	40	35	30	35	45	15	99	55	30
Bull #	CE	Brth	Wean	Year	ADG	MCE	Milk	MWW	Stay	Doo	e CW	Y YG	Marb	BF	REA	Shr	API	TI
EPD	13.0	1.1	61.6	89.1	0.17	12.0	20.3	51.1	13.1	9.5	24.4	0.04	0.59	0.035	0.33	-0.30	153.6	79.0
ACC	0.33	0.40	0.34	0.33	0.33	0.29	0.28	0.30	0.13	0.22	0.28	0.18	0.17	0.19	0.16	0.01		
%	15	35	55	55	75	15	60	55	25	80	60	99	1	99	99	60	3	10
<i>Bull #</i> 3	CE	Brth	Wean	Year	ADG	MCE	Milk	MWW	Stay	Doc	CW	YG	Marb	BF	REA	Shr	API	TI
EPD	10.8	0.8	64.3	110.6	0.29	5.5	12.3	44.5	10.9	9.1	37.7	-0.22	0.30	-0.032	0.78	-0.37	136.6	75.0
ACC	0.84	0.86	0.83	0.83	0.83	0.81	0.81	0.82	0.44	0.44	0.58	0.37	0.45	0.42	0.38	0.21		
%	35	30	40	10	10	85	99	90	55	85	15	90	20	90	55	25	20	20
Bull # 4	CE	Brth	Wean	Year	ADG	MCE	Milk	MWW	Stay	Doc	CW	YG	Marb	BF	REA	Shr	API	TI
EPD	7.1	3.9	74.3	109.2	0.22	6.4	22.6	59.7	3.0	11.5	40.2	-0.44	0.28	-0.069	1.20	-0.36	111.6	77.2
ACC	0.36	0.42	0.36	0.37	0.37	0.30	0.31	0.32	0.28	0.13	0.31	0.25	0.40	0.25	0.31	0.18		
%	75	90	10	15	10	80	40	15	99	40	10	10	20	35	2	30	75	15

Sim-Angus Bull Data

2018 Senior Team Breeding Activity

	Team Name:	 	_	
Team Members:				

You are the owner operator of a highly regarded Purebred Angus and Sim-Angus cow herd in Kentucky. Customers from across the United States visit your farm looking for high quality cattle to use in their commercial herds. Most of your bulls go to operations that run an Angus cow base or some type of an F-1 cross of angus/Hereford. You have recently partnered with a high end restaurant to provide them with steaks that will grade choice or better. This allows you another avenue of helping your bull customers merchandise their calves at a premium. You are an entrepreneur and are always looking for ways to improve your ability to merchandise your product. Answer the questions that follow and explain to the listener, which heifer you would pick to breed to bull number 2 and why, which female you would pick to breed to bull number three and why, and which bull do you feel could cause the most potential issues for an individual who works off the farm, has limited feed resources and prefers longevity in his cow herd. (Each Heifer will have a point value for a total of 25 pts on who you select to breed to bulls 2 and 3 for a total of 50 points. There are ten questions over the data worth 10 points each for a total of 100 pts. Your presentation to the listener is worth 50 points. Total for Breeding Activity 200 pts.) Turn Paper Over to Finish this Activity.

<u>Count</u>	y :	
<u>Team</u>	Members:	
	2018 Senior Team Breeding Activity	
	10 questions worth 10 points each for a total of 100 point	<u>ts.</u>
1.	Which bull's daughters would potentially be moderate framed, require less input	s / labor and
	should stay in the herd longer?	
2.	Which bull would pose the most issues with labor, feed resources and offspring g	rading choice?
3.	Which bull's daughters would potentially be large framed, heavy muscled and wo	ould have a hard stay
	reaching an extended life in the herd?	
4.	Which bull is the oldest or at least has had the most data collected?	
5.	Which bull's offspring are probably the most alert when humans enter their space	e?
6.	Which bull has the best combination of indexes?	
7.	Which bull's offspring should have the most likelihood of meeting the needs of the	ne high-end
	restaurant?	
8.	Which bull's, daughter's offspring will probably need to be provided a creep feed	er?
9.	I have some cows that are so easy keeping their offspring are always High Prime a	and Yield grade 5's.
	Which bull should I use to improve my bottom line on a Grid basis?	
10.	Which bull is not an answer to any other question?	
	Selection Portion: 25 points for each question for a total of 50	points.
A.	Which heifer would you AI to bull #2?	
В.	Which heifer would you AI to bull #3?	
<u>Disc</u>	uss your decision with the listener. Discussion is worth 50 points.	<u>Total Score</u>
	Score for Discussion	

<u>2018</u>

Senior Team Breeding Activity KEY

10 questions worth 10 points each for a total of 100 points.

1.	. Which bull's daughters would potentially be moderate framed, require less inputs / labor and							
	should stay in the herd longer?2							
2.	Which bull would pose the most issues with labor, feed resources and offspring grading choice? 4							
3.	. Which bull's daughters would potentially be large framed, heavy muscled and would have a hard stay							
	reaching an extended life in the herd?4							
4.	. Which bull is the oldest or at least has had the most data collected?							
5.	Which bull's offspring are probably the most alert when humans enter their space?3							
6.	. Which bull has the best combination of indexes?							
7.	. Which bull's offspring should have the most likelihood of meeting the needs of the high-end							
	restaurant?2							
8.	Which bull's, daughter's offspring will probably need to be provided a creep feed	er? <mark>3</mark>						
9.	9. I have some cows that are so easy keeping their offspring are always High Prime and Yield grade 5's.							
	Which bull should I use to improve my bottom line on a Grid basis?							
10	. Which bull is not an answer to any other question?1							
	Selection Portion: 25 points for each question for a total of 50	points.						
A.	Which heifer would you AI to bull #2?							
В.	Which heifer would you AI to bull #3?	<u>Total Score</u>						
Disc	uss your decision with the listener. Discussion is worth 50 points.							
	Score for Discussion							
		i						

Team Name	Team Number							
2018 Kentucky Skillathon – Senio	r Team Activity							
You have purchased a group of 10 feeder pigs (average weight = 65 lb.) at \$0.90/lb. Your plans are to feed the pigs for 100 days and sell them at 250 lb. for freezer pork.								
1. What is the expected daily gain per day for each pig?	lb/d 2decimals							
2. If the expected feed/gain efficiency is 3.0, what is the expected total feed consumption for the group	o?							
3. If feed cost is \$320/ton, what is the estimated total group feed cost?	Total \$							
4. What is the feed cost of gain per pig?	\$/lb, 2 decimals							
5. If you are considering a premix to add to your feed and the amount of feed, how much of the premix would you need to								
6. If the premix was packaged in 50lb bags costing \$20/bag	, what is your total premix cost? \$, 2 decimals							
7. What is breakeven live price (\$/cwt) you would have to r and feed (not including premix)?	eceive to cover your investment in pigs \$ /cwt, 2 decimals							
8. If your customers preferred to purchase pigs on a carcass equivalent carcass price? Assume your pigs will dress 72								
9. Based on a \$1.25/lb. carcass price, your projected net retube for the pen of pigs.	urn above pig and feed costs should \$ 2 decimals							
10. If miscellaneous costs were an additional \$10/pig and year per day on your pig project what was your return to your lab	· · · · · · · · · · · · · · · · · · ·							
	\$/hr, 2 Decimals							

		Score
Team Name	Team Number	
Team Members		
2018 Kentucky Skillath 10 pts. / question and 100 p You have purchased a group of 10 to feed the pigs for 100 days and s	on Contest – Senior Team Feeding Activity points for your explanation for 200 point total. feeder pigs (average weight = 65 lb.) at \$0.90/lb. Your place them at 250 lb. for freezer pork. Explain how you thing e might want to buy from you and will you make a profit?	ık the
1. What is the expected daily gain p	per day for each pig?	
	lb/d 2d	decimals
2. If the expected feed/gain efficien what is the expected total feed co		lbs
3. If feed cost is \$320/ton, what is the feed cost?	<u> </u>	otal \$
4. What is the feed cost of gain per	pig? \$/lb, 2 d	lecimals
5. If you are considering a premix to amount of feed, how much of the pr	o add to your feed and the inclusion rate was 5% of the tot remix would you need to purchase?	al 1b
6. If the premix was packaged in 50	Olb bags costing \$20/bag, what is your total premix cost?	decimals
7. What is breakeven live price (\$/c and feed (not including premix)?	ewt) you would have to receive to cover your investment in	
	\$ /cwt. 2	2 decimals
8. If your customers preferred to pu equivalent carcass price? Assume	rchase pigs on a carcass price basis, what would be an	2 decimals
9. Based on a \$1.25/lb carcass price be for the pen of pigs	e, your projected net return above pig and feed costs should so \$2 decin	
	additional \$10/pig and you estimated that you spent 60 min as your return to your labor? (express on an hourly basis)	nutes
	\$/	hr, 2 Decimals

Score

KEY

2018 Kentucky Skillathon Contest – Senior Team Feeding Activity 10 pts. / question and 100 points for your explanation for 200 point total.

You have purchased a group of 10 feeder pigs (average weight = 65 lb.) at \$0.90/lb. Your plans are to feed the pigs for 100 days and sell them at 250 lb. for freezer pork.

1. What is the expected daily gain per day for each pig? (250 lb - 65 lb) / 100 d = 1.85 lb/hd/d

1.85 lb/d

1b/d 2decimals

2. If the expected feed/gain efficiency is 3.0, what is the expected total feed consumption for the group?

5,550 lb feed

1bs

 $(3.0 \text{ lb feed/lb gain}) \times 1.85 \text{ lb gain} = 5.55 \times 100 \text{ d} = 550 \times 10 \text{ pigs} = 5.550 \text{ lb feed}$

3. If feed cost is \$320/ton, what is the estimated total group feed cost?

\$888.00 feed cost

Total \$

(5,550 lb feed / 2,000 lb per ton) = 2.775 tons feed2.775 tons x \$320 / ton = \$888.00 total feed cost

4. What is the feed cost of gain per pig? $$888.00 \text{ feed cost} / [(250 \text{ lb} - 65 \text{ lb} = 185 \text{ lb gained}) \times 10 \text{ pigs}]$ So, \$888 / 1850 = \$.48/lb.

\$.48/lb

\$/lb, 2 decimals

5. If you are considering a premix to add to your feed and the inclusion rate was 5% of the total amount of feed, how much of the premix would you need to purchase?

5,550 lb feed x .05 = 277.50 lb

277.50 lb

lbs

6. If the premix was packaged in 50lb bags costing \$20/bag, what is your total premix cost?

277.5 lb / 50 lb = 5.55 bags. So, you have to round to 6 bags 6 bags x \$20/bag = \$120.00

\$120.00

\$, 2 decimals

7. What is breakeven live price (\$/cwt) you would have to receive to cover your investment in pigs and feed (not including premix)?

[10 pigs x (65 lb x .90 = \$58.50)] = \$585 purchase price\$585.00 purchase price + \$888.00 feed cost = \$1473.00

\$58.92/cwt.

\$1473.00 / (10 pigs x 250 lb = 2,500 lb sold) = 0.5892 x 100 (because it is cwt)

\$ /cwt, 2 decimals

8. If your customers preferred to purchase pigs on a carcass price basis, what would be an equivalent carcass price? Assume your pigs will dress 72% \$58.92/.72= \$81.83

\$81.83/cwt.

\$ /cwt, 2 decimals

9. Based on a \$1.25/lb carcass price, your projected net return above pig and feed costs should for the pen of pigs.

10 pigs x (250 x.72) x (\$1.25) = \$2,250.00 income \$2,250 - [\$585 (pigs) + \$888 (feed)]

\$2250 - \$1473 = \$777.00

\$777.00

\$ 2 decimals

10. If miscellaneous costs were an additional \$10/pig and you estimated that you spent 60 minutes per day on your pig project what was your return to your labor? (express on an hourly basis)

[\$777 - (10 pigs x \$10)]/(100 days x 1 hr.)(\$777 - \$100) / 100 = \$677/100 hrs = \$6.77/hr

\$6.77/hr.

\$/hr, 2 Decimals