Wisconsin 4-H Livestock Skill-a-thon Resource Handbook

A guide for coaches and youth

Sponsored by:

Registration
Deadline
Feb. 28th





Contest Materials available at: Wisconsin Youth Livestock Page – UW-Extension: https://4h.extension.wisc.edu/opportunities/statewide-events-and-opportunities/livestock-quiz-bowl-skillathon-contest/

Like us on Facebook at: : Wisconsin Youth Livestock Program; Wisconsin 4-H Youth Development

Instagram: WIYOUTHLVSTK

YouTube: https://www.youtube.com/c/WisconsinYouthLivestockProgram

University of Wisconsin, United States Department of Agriculture and Wisconsin counties cooperating.

University of Wisconsin-Extension provides equal opportunities in employment and programming, including Title IX

2025 Wisconsin State 4-H Livestock Quiz Bowl and Skill-a-Thon Contest

Contest Date: Saturday, March 15, 2025 Location: UW-Madison – Animal Sciences Building

> 1675 Observatory Drive Madison, WI 53706

<u>Contest Coordinators</u> *Bernie O'Rourke*

Bernie O'RourkeJill JorgensenExtension Youth Livestock Specialist4-H Youth Develop

Email: borourke2@wisc.edu

4-H Youth Development Agriculture Specialist Email: jill.jorgensen@wisc.edu

Objectives:

- 1. This contest covers the understanding and practical application and the principles of Animal Sciences related to the beef, sheep, swine, and meat goats project areas.
- 2. To provide an exciting and fun way for youth to explore their 4-H animal project.
- 3. To encourage youth to develop teamwork, self-confidence and decision-making skills.
- 4. To develop committee member organization and leadership skills.

Rules and Regulations

Eligibility:

- 1. All currently enrolled WI 4-H members (grades 3-13) Wisconsin are eligible. Contestants must participate in the division according to their age as of January 1, 2025.
- 2. **The Junior Division** will include Wisconsin 4-H members who are under 14 years of age as of January 1 of the current year.
- 3. **Mixed division** has been designated for teams that are any combination of ages BUT the team must contain at least one youth in the junior and senior age division.
- 4. **The Senior Division** will include Wisconsin 4-H members who are 14 years of age or older as of January 1 of the contest year. Senior team members cannot exceed grade 12 regardless of age.
 - a. The top 4-H senior team will be invited to attend the National Skill-a-Thon Contest which will be held in November in Louisville, Kentucky.
- 5. **Grade 13 Members** (regardless of age) WI 4-H members that are in the 13th grade are not eligible to compete on a senior team and are not eligible for national contests. WI 4-H members that are in the 13th grade are only eligible to compete in a mixed team. This is due to national contests happening after the current 4-H year ends. You need to be a currently enrolled 4-H member at the time of the national contest. Grade 13 members will not be enrolled (due to aging out of the program) during the national contest time and therefore are ineligible to compete.

- 6. Teams may consist of three or four members. All members of a four-person team will compete, but the member receiving the lowest overall score will automatically be declared the alternate.
- 7. Contestants must not have competed previously in any official post-secondary livestock quiz bowl or livestock quadrathlon contests. Contestant must already have reached his or her 14th birthday and may not have reached his or her 19th birthday before January 1 of the year in which the National 4-H Contest is held.
- 8. This resource packet includes several sample applications contestants may see at the contest. Contest coordinators reserve the right to change station activities based on availability of livestock, supplies, etc.
- 9. **Deadline** for registration is Feb 28, 2025. Only registrations completed through 4-H online will be accepted. This is a strict deadline as there is much to coordinate.
- 10. **Cost:** The cost is \$12.00 per Contestant (Checks payable to: UW Madison Extension). Payment can be made electronically when registering the day of the contest or sent prior to: WI 4-H, Attn: 2023 State Livestock Quiz Bowl and Skillathon Contest, UW-Madison Division of Extension, 432 N. Lake St., Rm 103, Madison, WI 53706
- 11. **Registration:** Each coach will register their team through 4-H online at: https://254hlivestockskillquiz.4honline.com

Registration must be completed through 4-H online by Feb 28, 2025.

*** Important: You will need to register each team separately. The coach can register multiple teams with their account, but you will need to register each team individually by their contest and age division. Please note, you need to be an enrolled and approved 4-H volunteer to complete 4-H online registrations.

Each coach will register their team(s) at: https://254hlivestockskillquiz.4honline.com

- Please note, to register a team, you must be a currently enrolled 4-H volunteer. If you are participating an individual member and not as a team, you will be able to register at that time as well.
- Registration must be completed by March 1st.
- You will need to register each team separately.

How to register your team

(See link below for helpful screen shoots and more detailed instructions)

- 1. Click on this link (same as the one above):
- 2. Click on the blue button in the lower right corner that says "Register."
- 3. Enter your email address and click on the Send Email button to get a link to log in emailed to you. If you are an existing family, make sure you use the same email address as your family login in 4-H Online.
- 4. Click on your name in the existing names you will be able to enter team member names in later questions.
- 5. It will ask you what type of registration you want to do, if you are registering a county team, click on county registration. If you are registering as an individual without a team, click on individual registration.
- 6. You will go through the questions to register the team.
- 7. On the Payment screen, if paying by Credit Card is enabled for the event, you will be able to enter credit card information or you can click on Pay by Check (checks are sent ahead of time or brought to the contest). You will only be able to pay with a credit card during this process and not the day of the event. If paying by check, click on that button. Then, click on the next button.
- 8. You will receive a confirmation email.
- 9. If you have a second team to register, you will complete this same process.

Contact Jill Jorgensen in the State 4-H Office with any registration questions jill.jorgensen@wisc.edu or (920)391-4659 or Mike Farrey at

All information is on the Extension 4-H website at:

https://4h.extension.wisc.edu/opportunities/statewide-events-and-opportunities/livestock-guiz-bowl-skillathon-contest/

Contest Method of Conduct

- 1. Registration for the contest will begin at 9:00 AM with the contest starting at 9:30 AM.
- 2. Contestants will be allowed to compete in individual rounds and team activities.
- 3. During the individual competition round, contestants will be divided into groups and will remain with that assigned group throughout the round of classes. While completing the individual competition classes, there will be no conferring between contestants or between a contestant and anyone else except as directed by contest officials. Once the individual rounds are complete then complete the team activities. If there are too many starting with the individual stations, then some teams will start with the team activities.
- 4. Team members will complete one official answer sheet for each team class representing the combined effort of all team members. Teams will be allowed twenty minutes to complete the group assignment for each class and turn in their answer sheet. During the team competition round of the contest, contestants will only be allowed to confer with their own team members during the time period allowed for each class.

5. <u>Contestants shall not wear any hats. No smart watches or cell phones are</u> allowed.

- **6.** Contestants should bring a blank steno pad, clipboard, and blank paper. Contestants may also use a small pocket calculator (programmable calculators will not be permitted). The contestants may not bring books, notes, pamphlets, or other reference materials into the contest area. **Contestants found in contempt of this rule will be disqualified.**
- 7. Contestants are not to pick up or touch any item that is being identified or evaluated in the individual competition classes, unless it is part of the class, i.e.: wool judging, etc.

Awards

Junior Awards

Awards for the top three skillathon teams Awards for the top ten individuals

Senior Awards

Awards for the top three skillathon teams Awards for the top ten individuals

2025 Skillathon Contest Classes

Disclaimer: Stated classes are just examples of what might be asked or included in the contest. The contest committee reserves the right to add additional, subtract or alter classes that might not be included in this list.

*Total team scores will be determined by adding the three highest individual team members' class totals with the total accumulated from the team competition classes. *

Individual Classes

- **1.** Retail Meat Cut Identification: From a provided list, identify the uniformly accepted name of a combination of ten beef, pork, and lamb retail cuts on display, including the species, wholesale cut from which each retail cut originates and the retail cut.
- **Livestock Feed Identification:** Identify the proper name for ten livestock feeds and identify each corresponding nutrient group. Feed samples and lists of feed names and nutrient groups will be provided.
- **Livestock Breed Identification:** Identify from photographs or pictures, ten livestock (beef cattle, swine, and sheep) breeds. Seniors must also match the breed with the most appropriate description supplied for each breed.
- **4. Meat Judging Class:** Rank two classes of four similar retail cuts of meat. Seniors must also answer five questions for each class.
- **5.** <u>Fleece and Hay Judging Class</u>: Rank a class of four hay samples with forage analysis information. Rank a class of four samples of fleece.
- **Livestock Equipment Identification:** Identify the proper name for ten pieces of equipment used in livestock production. (A list of equipment will be provided.) Seniors must also identify their usage type (ex: breeding).
- **Quality Assurance Exercise:** Demonstrate how to read a medicine label, calculate withdrawal times, complete a treatment record, and make responsible management decisions regarding quality assurance.
- **8. Quiz:** Complete a multiple choice quiz concerning topics relating to the livestock industry.

Skillathon Team Classes

- **1. Quality Assurance Exercise:** Demonstrate how to read an animal health product label, calculate dosage rates and withdrawal times, complete a treatment record, be familiar with administration routes, and make responsible management decisions regarding quality assurance.
- **2.** <u>Animal Breeding Scenarios and Exercise:</u> Team members will evaluate a breeding animal scenario and make animal selection decisions based upon performance data to rank breeding animals for use within the situation.
- **3.** <u>Live Judging Class:</u> Rank one class of live animals and answer a set of questions related to the class.
- **4.** <u>Welfare Scenario:</u> Evaluate management systems and practices on farms or in situations on how well animal welfare and care are monitored and decisions made for best practices.
- **5.** <u>Reproduction and Genetics (new in 2020):</u> Members should be prepared to identify parts and discuss reproduction strategies; genetics forecasting resulting progeny from a mating.

JUNIOR & MIXED RETAIL CUT IDENTIFICATION

Retail Cut Identification score sheets are included with this packet.

Meat Retail Cut Identification

01					
B Beef	Species B Beef P Pork L Lamb				
в веег	PPOIK		L Lanio		
City Will be to the second	Primal Cu	ts			
A Breast		Н	Rib or Rack		
B Brisket			Round		
C Chuck			Shoulder		
D Flank			Side (Belly)		
E Ham or Leg			Spareribs		
F Loin			Variety Meats		
G Plate		N	Various Meats		
REEL IS A P	Retail Cut	ts			
Roasts/Pot Roasts			ops		
1 American Style			Arm Chop		
2 Arm Picnic			Blade Chop		
3 Arm Roast			Blade Chop (Bnls)		
4 Arm Roast (Bnls)			Butterflied Chop (Bnls)		
5 Back Ribs			Country Style Ribs		
6 Blade Roast			Loin Chop		
7 Blade Boston			Rib Chop		
8 Bottom Round Ro			Rib Chop (Frenched)		
9 Bottom Round Ru			Sirloin Chop		
10 Brisket, Whole (Bn			Top Loin Chop		
11 Center Loin Roast		75	Top Loin Chop (Bnls)		
12 Center Rib Roast					
13 Eye Roast (Bnls)		Vai	riety Meats		
14 Eye Round Roast		76	Heart		
15 Flat Half (Bnls)		77	Kidney		
16 Frenched Style		78	Liver		
17 Fresh Side			Oxtail		
18 Leg Roast (Bnls)			Tongue		
19 Loin Roast 20 Mock Tender Roas		81	Tripe		
21 Petite Tender	st				
22 Rib Roast			rious Meats		
23 Rib Roast (French	ed)		Beef for Stew		
24 Ribs (Denver Style			Cubed Steak		
25 Rump Portion	-/		Ground Beef		
26 Seven (7) Bone Ro	ast		Ground Pork		
27 Shank Portion			Hocks		
28 Short Ribs			Sausage Link/Pattie		
29 Shoulder Roast (B	nls)	88	Shank		
30 Sirloin Roast					
31 Sirloin Half			oked/Cured		
32 Spareribs			Brisket, Corned		
33 Square Cut (Whol	e)		Center Slice		
34 Tenderloin (Whole			Ham (Bnls)		
35 Tip Roast (Bnls)			Hocks		
36 Tip, Cap Off Roast			Loin Chop		
37 Top Loin Roast (Br			Picnic (Whole)		
38 Top Roast (Bnls)			Rib Chop		
39 Top Round Roast			Rump Portion		
40 Tri-Tip Roast			Shank Portion		
		98	Slab Bacon		

99 Sliced Bacon

Cookery Methods D Dry Heat M Moist Heat D/M Dry or Moist Heat

- Steaks
 41 Arm Steak
 42 Blade Steak
 43 Bottom Round Steak
 44 Center Slice
 45 Eye Steak (Bnls)
 46 Eye Round Steak
 47 Flank Steak
 48 Mock Tender Steak
 49 Porterhouse Steak
 50 Ribeye, Lip-On Steak
 51 Round Steak
 52 Round Steak
 63 Round Steak
 64 Skirt Steak (Bnls)
 65 Tenderloin Steak
 65 Tenderloin Steak
 67 Tip, Cap Off Steak
 68 Top Blade (Bnls) Flat Iron Steak
 68 Top Loin Steak
 60 Top Loin (Bnls) Steak
 61 Top Round Steak
 62 Top Sirloin Steak
 63 Top Sirloin Steak
 63 Top Sirloin Steak
 64 Top Sirloin Steak
 65 Top Sirloin Steak
 67 Top Sirloin Steak
 68 Top Sirloin Steak
 69 Top Sirloin Steak
 69 Top Sirloin Steak
 60 Top Sirloin Steak
 61 Top Round Steak
 62 Top Sirloin Steak (Bnls)
 63 Top Sirloin Cap Off Steak (Bnls)
 64 Top Sirloin Cap Steak (Bnls)



County	
Contestant Name	
Contestant Number	224

ID#	Specie	Retail	Score
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
Number Incorrect			
Points Off			
	Total Points Off	Final Score	

- 3		
Tabel	Score:	
OTA	ZCOLO.	

	Total
な 11 ふ	Points O
W 15 LEC 787	
<u>TENSION</u>	
ity of Wisconsin-Extension	

SENIOR RETAIL CUT IDENTIFICATION

Meat Retail Cut Identification

,		
	sin 🔪	15
	k 1	"31
Progran	1	16/
1	1	
(-	-	"
(-
-		
	Youth Livestoo	Wisconsin Youth Livestock Program

	Species	
B Beef	P Pork	L Lamb
STATE OF THE PARTY	Primal Cuts	
A Breast	Н	Rib or Rack
B Brisket	E E	Round
C Chuck	1	Shoulder
D Flank	K	Side (Belly)
E Ham or Leg	L	Spareribs
F Loin	M	Variety Meats
G Plate	N	Various Meats
	Retail Cuts	
Roasts/Pot Roasts	Ch	ops
1 American Style	65	Arm Chon

County	
Contestant Name	
Contestant Number	

Arm Picnic 3 Arm Roast Arm Roast (Bnls) Back Ribs Blade Roast 7 Blade Boston 8 Bottom Round Roast (Bnls) Bottom Round Rump Roast (Bnls) 10 Brisket, Whole (Bnls) 11 Center Loin Roast 12 Center Rib Roast 13 Eye Roast (Bnls) 14 Eye Round Roast 15 Flat Half (Bnls) 16 Frenched Style 17 Fresh Side 18 Leg Roast (Bnls) 19 Loin Roast 20 Mock Tender Roast 21 Petite Tender 22 Rib Roast 23 Rib Roast (Frenched) 24 Ribs (Denver Style) 25 Rump Portion 26 Seven (7) Bone Roast 27 Shank Portion 28 Short Ribs 29 Shoulder Roast (Bnls) 30 Sirloin Roast 31 Sirloin Half

81 Tripe Various Meats 82 Beef for Stew 83 Cubed Steak 84 Ground Beef 85 Ground Pork 86 Hocks 87 Sausage Link/Pattie 88 Shank Smoked/Cured

66 Blade Chop 67 Blade Chop (Bnls) 68 Butterflied Chop (Bnls) 69 Country Style Ribs

71 Rib Chop 72 Rib Chop (Frenched)

74 Top Loin Chop 75 Top Loin Chop (Bnls)

70 Loin Chop

73 Sirloin Chop

Variety Meats 76 Heart 77 Kidney

78 Liver

79 Oxtail 80 Tongue

89 Brisket, Corned 90 Center Slice 91 Ham (Bnls) 92 Hocks 93 Loin Chop 94 Picnic (Whole) 95 Rib Chop 96 Rump Portion

97 Shank Portion 98 Slab Bacon 99 Sliced Bacon

Steaks 41 Arm Steak

32 Spareribs 33 Square Cut (Whole) 34 Tenderloin (Whole)

35 Tip Roast (Bnls) 36 Tip, Cap Off Roast

38 Top Roast (Bnls) 39 Top Round Roast 40 Tri-Tip Roast

37 Top Loin Roast (Bnls)

- 42 Blade Steak 43 Bottom Round Steak 44 Center Slice 45 Eye Steak (Bnls) 46 Eye Round Steak
- 47 Flank Steak
- 48 Mock Tender Steak 49 Porterhouse Steak
- 50 Ribeye, Lip-On Steak 51 Round Steak
- 52 Round Steak (Bnls) 53 Sirloin Cutlets
- 54 Skirt Steak (Bnls)
- 55 T-Bone Steak 56 Tenderloin Steak
- 57 Tip, Cap Off Steak 58 Top Blade (Bnls) Flat Iron Steak 59 Top Loin Steak
- 60 Top Loin (Bnls) Steak 61 Top Round Steak

- 62 Top Sirloin Steak (Bnls)
 63 Top Sirloin Cap Off Steak (Bnls)
 64 Top Sirloin Cap Steak (Bnls)

Cookery Methods				
D	Dry Heat			
84	Moist Hoat			

D/M Dry or Moist Heat



ID#	Specie	Primal	Retail	Score
1				
2			2	
3				3
4			2	
5				
6			2	
7				
8			£	
9				
10				
Number Incorrect				
				á
Points Off				
		=		
	Total Points Off		Final Score	

Total Score:

LIVESTOCK FEED IDENTIFICATION

Below are the various feedstuffs that will be selected from for the 2020 Wisconsin 4-H Livestock Skill-A-Thon Contest. Students could be asked to identify 10 feedstuffs and the energy group of which they are categorized. Additionally, it might be helpful to collect an actual feedstuff bank so students can determine textures and smells associated with each feedstuff that cannot be determined online.

Feed/Feedstuffs Blood Meal

Buckwheat Hay Cube
Complete Pelleted Feed Cracked Soybean Hulls
Corn Sovbean Meal

Corn Gluten Meal Dehydrated Alfalfa Steam

Meal Rolled
Pellets Dicalcium Phosphate Distillers Barley

Pellets Dicalcium Phosphate Distillers Barley
Grain Steam

Dried Sugar Beet Pulp Rolled Oats
Dried Whey Dry Molasses Trace

Fish Meal Mineral Salt

Ground Limestone (Calcium Urea Carbonate) Wheat

Middlings White Salt Whole Grain Oats Whole Grain Wheat

Whole Kernel

Corn

Nutritional Group

Energy

Minerals

Proteins

Vitamins

Water

LIVESTOCK BREED IDENTIFICATION

Students identify pictures of livestock from four species (beef, sheep, swine and meat goats). Seniors will also be asked to match the breed description with the appropriate picture and breed.

Junior	&	Mixed	Livestock	Breed
Identif	fic	ation		

<u>dentification</u>	Contoctont #
(ANSWER KEY)	Contestant #
Name	
(Place the letter of the correct breed in th	ne blanks beside the number that corresponds to the pio
1, F	Beef Breeds A. Angus B. Brahman
2T 3AA	C. Charolais D. Chianina E. Gelbvieh
4C	F. Hereford G. Limousin H. Santa Gertrudis I. Shorthorn
5X 6V	J. Simmental
7. <u> </u>	<u>Sheep Breeds</u> M. Cheviot N. Columbia
8R 9Y	O. Corriedale P. Dorset Q. Finnsheep R. Hampshire
10B	S. Katahdin T. Merino U. Rambouillet V. Southdown W. Suffolk
	Swine Breeds X. Berkshire Y. Chester White Z. Duroc
	AA. Hampshire BB. Hereford CC. Landrace DD. Pietrain
	EE. Poland China FF. Spot GG. Yorkshire

JJ. Pygmy KK. Kiko LL. Angora MM. Mytonic

Senior Livestock Breed Identification

(ANSWER KEY)

Contestant #to the pictures)	(Place the letter of the c	orrect breed and the letter of	f the corre	ect breed description in the blanks beside the number that corresponds
Breed/description			Reef Bre	eed Descriptions
1 <u>. BB</u>	<u>z</u> A.	<u>Angus</u>		
<u>2. D</u>	<u>с</u> В.	<u>Brahman</u>	a.	3 3 1 1 1 7 1
3. N	w C.	Charolais		and carcass cutability.
4. DD	<u>ff</u> D.	<u>Chianina</u>	b.	,
5. FF	aa E.	Gelbvieh		association
6 I	i F	Hereford	c.	Large framed, developed in Italy as dual purpose for beef and draft.

J. Sheep Breeds

G.

Н.

I.

Name

- M. Cheviot
- Columbia N.
- Ο. **Corriedale**

Limousin

Shorthorn

Simmental

Santa Gertrudis

- P. Dorset
- Q. Finnsheep
- Ŕ. <u>Hampshire</u>
- S. <u>Katahdin</u>
- Т. Merino
- U. Rambouillet
- V.
- <u>Southdown</u>
- W. **Suffolk**

Swine Breeds

- Berkshire
- Y. Chester White
- Z. <u>Duroc</u>
- AA. Hampshire
- BB. Hereford
- CC. Landrace DD. Pietrain
- EE. Poland China
- FF. Spot
- GG. Yorkshire

Meat Goats

- HH. Boer
- II. Spanish
- JJ. **Pygmy**
- KK. Kiko
- LL. Angora
- MM. Mytonic

- for high growth rate, milking ability,
- nt years combined polled and horned
- as dual purpose for beef and draft.
- British breed with highest number of registrations in the U. S. noted for mothering ability and carcass marbling.
- High growth breed originally from France known for cutability. e.
- Bos indicus breed with heat and insect tolerance.
- Developed in Germany with good carcass cutability and relatively early g. puberty.
- h. Developed in France with moderate growth rate and frame size and high carcass cutability.
- i. Developed in Texas by crossing the Brahman and Shorthorn breeds.
- British breed with three distinct color patterns.

Sheep Breed Descriptions

- Small framed, early maturing meat breed developed in England. m.
- Small sized meat breed noted for its hardiness from Scotland.
- Large framed, English, meat breed with black face and wool cap.
- Very fine fleece breed with heavy wool production from Spain. p.
- Large frame wool breed developed from crossing Lincoln or Leicester q. rams on Merino ewes.
- Wool breed developed in France and Germany from Merino breed. r.
- Hair breed developed in U. S. that does not require shearing because it s. sheds its' wool.
- Large framed, black faced breed known for high growth rate and t. carcass cutability from England.
- Lighter muscled breed from Finland noted for prolificacy. u.
- English, whiteface, meat breed known for out of season breeding. ٧.
- Large frame U. S. breed, developed from Lincolns and Rambouillets.

Swine Breeds

- Noted for high growth rate, durability, and pork quality, developed in х. New Jersey and New York.
- Known as a maternal breed with droopy ears, developed in PA. у.
- Dual purpose breed, red with white markings on head and lower body.
- Black and white, developed in U. S., noted for rapid growth and as aggressive breeders.
- Lean, heavy muscled, black breed with six white points and droopy ears.
- Known as "Mother Breed", they are typically long bodied and sound with erect ears.
- Predominantly black with erect ears, originally from England noted for pork quality tenderness and marbling.
- Noted for large litters and large droopy ears, generally refined in ee.
- ff. bone.
- Noted for extreme muscle volume and shape, with a high propensity for stress which is related to pork quality concerns.
- hh. Terminal sire breed with unique color markings noted for cutability.

Meat Goat Descriptions

- HH. Developed in South Africa, horned with loped ears, showing a variety of color patterns.
- Known as the "brush or scrub goat, imported from Mexico to the US.
- JJ. Developed in Africa, known as the Cameroon Dwarf Goat
- KK. Developed in New Zealand mating feral goats to dairy goats for meat.
- LL. Goat that produces Mohair and not as prolific as other meat goat
- MM. A multi-purpose breed for pets, food and fiber, i.e. "fainting goats"

MEAT JUDGING

Meat Judging Class: Rank two classes of four similar retail cuts of meat (100 possible points). Seniors must also answer five questions for each class (50 points). For more information on placing meat cuts please refer to the Skill-A-Thon Contest Resource List

FLEECE/HAY JUDGING

Fleece and Hay Judging Class: (100 possible points) Rank a class of four hay samples with forage analysis information. Rank a class of four samples of fleece. For more information on evaluation of hay and fleece samples please refer to the Indiana 4-H/FFA Skill-A-Thon Contest Resource list.

<u>2020 Hay Judging Class – EXAMPLE</u>

Scenario: The hay being ranked will be fed to cattle during early lactation. In addition to the hay, their rations will also be supplemented with grain. Any hay remaining will be marketed to other local beef producers.

	Hay #1	Hay #2	Hay #3	Hay #4
Dry Matter	91.96	90.27	92.03	90.05
Crude Protein	15.75	17.83	16.22	18.67
ADF*	34.91	27.83	33.67	26.53
NDF*	47.39	41.34	42.46	39.05
TDN*	57	58	57	59
RFV*	112	135	123	141

Official Placing: 4-2-3-1 Cuts: 3-3-5

^{*} **ADF** = Acid Detergent Fiber

^{*} **RFV** = Relative Feed Value

^{*} **TDN** = Total Digestible Nutrients

^{*} **NDF** = Neutral Detergent Fiber

LIVESTOCK EQUIPMENT IDENTIFICATION

Livestock Equipment Identification: (50 possible points) Identify the proper name for ten pieces of equipment used in livestock production. (A list of equipment will be provided.) Seniors must also identify their usage type (ex: breeding).

Contestant Number	•
--------------------------	---

${\bf Livestock\ Equipment\ Identification-Junior\ \&\ Mixed\ Scorecard}$

(under 14 years of age)

Place the letter of the correct piece of equipment in the blank matching the number on the item.

1	A.	Ammonia sensor	AA.	Hoof trimmer
2	В.	Antiseptic applicator	BB.	Intravenous set
3	C.	Balling gun	CC.	Knife steel
4	D.	Beef cattle frame stick	DD.	Lamb boot
5	E.	Beef Halter	EE.	Lamb tube feeder
6	F.	Breeding catheter	FF.	Nasal cannula
7	G.	Cattle clippers	GG.	Needle teeth clippers
8	Н.	Cattle straw A. I. gun	НН.	Nipple waterer
9	I.	Cauterizing tail docker	II.	Nose lead
10	J.	Curry comb	JJ.	Pig obstetrical forceps
	K.	Dehorner	KK.	Pig resuscitator
	L.	Disposable syringe	LL.	Pistol grip syringe
	M.	Drench gun	MM.	Prolapse ring retainer
	N.	Ear notchers	NN.	Implant gun
	O.	Ear tag pliers	OO.	Ram marking harness
	P.	Elastrator	PP.	Rumen magnet
	Q.	Electric fence tester	QQ.	Scalpel
	R.	Electronic I.D. tag	RR.	Scotch Comb
	S.	Emasculator	SS.	Shearer's screwdriver
	T.	Ewe spoon	TT.	Sheep shears
	U. W.	Foot rot shears Freeze branding iron	UU. WW.	Swine breeding Spirette Test tube
	X.	Heat detection patch	XX.	Transfer needle
	Y.	Hog snare	YY.	Vacutaner
	Z .	Hoof chisel	77.	Wool card

Livestock Equipment Identification - Senior Scorecard (14 years of age and older)

Place the letter of the correct piece of equipment in the blank matching the number on the item.

<u>I.D.</u>	Equipment I.D. List		
1 A.	Ammonia sensor	AA. Hoof trimmer	
2 B.	Antiseptic applicator	BB. Intravenous set	
3 C.	Balling gun	CC. Knife steel	
4 D.	Beef cattle frame stick	DD. Lamb boot	
5 E.	Beef Halter	EE. Lamb tube feeder	
6 F.	Breeding catheter	FF. Nasal cannula	
7 G.	Cattle clippers	GG. Needle teeth clippers	
8 H.	Cattle straw A. I. gun	HH. Nipple waterer	
9 I.	Cauterizing tail docker	II. Nose lead	
10 J.	Curry comb	JJ. Pig obstetrical forceps	
K.	Dehorner	KK. Pig resuscitator	
L.	Disposable syringe	LL. Pistol grip syringe	
M.	Drench gun	MM. Prolapse ring retainer	
N.	Ear notchers	NN. Ralgro implant gun	
O.	Ear tag pliers	OO. Ram marking harness	
P.	Elastrator	PP. Rumen magnet	
Q.	Electric fence tester	QQ. Scalpel	
R.	Electronic I.D. tag	RR. Scotch Comb	
S.	Emasculator	SS. Shearer's screwdriver	
T.	Ewe spoon	TT. Sheep shears	
U.	Foot rot shears UU.	Swine breeding spirette	
V.	Forage probe	VV. Tattoo pliers	
W.	Freeze branding iron	WW. Test tube	
X.	Heat detection patch	XX. Transfer needle	
Y.	Hog snare	YY. Vacutainer	
Z.	Hoof chisel	ZZ. Wool card	

QUALITY ASSURANCE - INDIVIDUAL

Quality Assurance Exercise: (50 possible points) Demonstrate how to read a medicine label, calculate withdrawal times, complete a treatment record, and make responsible management decisions regarding quality assurance.

Contestant Number: KEY

4-H Skill-a-thon Quality Assurance exercise _JUNIOR Division 10 questions _ 5 points each for a total of 50 points

Please reference **KENT First Rate Show Lamb Diet 18DQ** feed tag when answering these questions

- 1. **True** or **False** (*circle one*) Withdrawal times are the minimum amount of time, usually in number of days, that must pass from the time the medication is administered until the animal can be slaughtered for meat consumption.
- 2. **True or False** (*circle one*) This feed needs to be mixed with corn and oats before I feed it to my lambs.
- 3. My lamb weighs 75 pounds. How much feed should my lamb consume per day to provide the recommended amount of the active drug ingredient.
 - a. 1.875 pounds
 - b. 2.53 pounds
 - c. 1.57 pounds
- 4. **Yes or No** (*circle one*) We are taking both lambs and pigs together to a preview show this weekend. If we run low on pig feed, will I violate label warnings by feeding this lamb feed to my pigs?
- 5. I am concerned about my lambs getting coccidiosis. What minimum length of time should I feed this feed to prevent coccidiosis?
 - a. 10 Days

b. 3 weeks

- c. 4 weeks
- 6. **Yes or No** (*circle one*) I just weaned lambs from my ewes and they weigh 40.45 pounds. Can I start giving them this feed to eat?
- 7. What are the 3 primary ingredients in this feed?
 - a. corn, alfalfa meal, fishmeal
 - b. corn, barley, oats
 - c. corn, oats, grain by-products
- 8. Which 2 feed ingredients list both minimum and maximum on the guaranteed analysis?
 - a. crude fat and calcium
- b. salt and selenium
- c. calcium and salt
- 9. 18.0% What percent crude protein is in this feed?
- 10. **Yes or No** (*circle one*) I am also feeding another feed to my lambs containing bentonite. Can I feed them both feeds at the same time?

First Rate Show Lamb Diet 18DQ Medicated

Product Description

Kent First RateTM Show Lamb Diet 18DQ is an 18% protein, texturized product for growing and finishing show lambs. It is a diet with a very specific combination and ratio of ingredients designed to optimize the genetic growth potential of sheep. Kent First RateTM Show Lamb Diet 18DQ incorporates multiple protein and energy sources; precise, highly absorbable minerals and vitamin fortification; yeast; and appetite enhancers.

Features and Benefits

Steam-rolled and cracked corn – *improves carbohydrate* availability, releasing more energy for gain.

Steam-rolled barley – provides unique fermentation and a source of energy to improve gain and facilitate proper finish.

Oats – improve diet texture, promoting appetite and gain, while providing a unique combination of digestible fiber and energy.

Multiple protein sources (including fish meal) – provide for maximum muscle expression and development, plus high-quality wool production.

Dehydrated alfalfa meal – digestible fiber source provides delayed energy release, calcium, phosphorus, and vitamins.

High-vitamin levels – *improve energy and protein metabolism, feed utilization, immunity, and overall health to help fight stress in show environments.*

Yeast – improves palatability and feed digestion, leading to increased gain and feed efficiency while promoting stable rumen fermentation.

Sodium molybdate with no added copper – *reduces the likelihood of copper toxicity*.

Ammonium chloride – aids in the prevention of urinary calculi (water belly).

Molasses – increases palatability and intake for improved acceptance and average daily gain.

Feeding Directions

Gradually adapt lambs 60 pounds or heavier to First Rate™ Show Lamb Diet 18DQ. Lambs should consume First Rate™ Show Lamb Diet 18DQ at the rate of 0.25 lb per 10 lb of body weight to provide 22.7 mg of decoquinate per 100 lb of body weight. Feed at least 28 days during periods of exposure or when experience indicates coccidiosis is likely to be a hazard. It may also be desirable to feed 0.25 to 0.5 lb of goodquality hay per head, daily.

Do not use in feed containing bentonite. Do not feed to sheep producing milk for food.

First RateTM Show Lamb Diet 18DQ Medicated

A complete grain feed for growing and finishing show lambs.

For the prevention of coccidiosis caused by *Eimeria* ovinoidalis, *Eimeria parva*, *Eimeria bakuensis* and *Eimeria crandallis*.

ACTIVE DRUG INGREDIENT

Decoquinate 0.00198% (18 gm/ton)

GUARANTEED ANALYSIS

rude i rotem, mm	10.0 /0
This includes not more than 1.3% equivalent crude p	protein from
non-protein nitrogen (NPN from Ammonium Chlori	de)

10 00/

Crude Fat, min	3.0%
Crude Fiber, max	7.5%
Calcium (Ca), min	0.8%
Calcium (Ca), max	1.3%
Phosphorus (P), min	0.4%
Salt (NaCl), min	0.4%
Salt (NaCl), max	0.9%
Selenium (Se), min	0.3 ppm
Vitamin A, min	6,000 IU/lb
Vitamin D3, min	600 IU/lb
Vitamin E, min	37 IU/lb

Warning: This feed should be used in accordance with directions on this label. Feed to ruminants only.

INGREDIENTS

Corn, Barley, Oats, Dehydrated Alfalfa Meal, Processed Grain By- Products, Plant Protein Rations, Fishmeal, Cane Molasses, Vegetable Oil, Calcium Carbonate, Salt, Ammonium Chloride, Animal Fat, Yeast Culture, Vitamin A Acetate, Cholecalciferol (source of Vitamin D3), Vitamin E Supplement, Niacin Supplement, Calcium Iodate, Manganous Oxide, Ferrous Sulfate, Cobalt Carbonate, Zinc Oxide, Magnesium Oxide, Sodium Molybdate, Sodium Selenite, Natural and Artificial Flavors, Ethoxyquin and BHT (preservatives).

QUIZ

Quiz: (50 possible points) Complete a quiz concerning the total livestock industry.

2020 Livestock Skill A Thon -KEY Junior & Mixed Written Test

C 1	l. A	is a castrat	ted male lamb.		
			C) Weth	ner	D) Ewe
\mathbf{C}	2.	is the weight	t of a lamb take	n within 24 ho	ours after birth.
			C) Birth Weigh		
carcass q	uality and mo	othering ability.		are polled wi	and and is known for its th a black, smooth coat.
D _ 4	4. Animals de	evelop a comfor	rtable space aro	and them; as	a person enters the space
A) Handl	al becomes te er	B) Quality Zor	is called the an	imai's C) Dam	D) Flight Zone
В 5	5.	is the removal	of the testicles		
			C) Wea		D) Injection
C 6	5. A period.	contains the	correct amount	of nutrients to	o nourish an animal during
	-	B) Roughage	C) Bala	nced Ration	D) Digestion
		is an intact n C) Boa		D) Stallion	
_A8 to livesto		_is the most es	sential and chea	pest off all th	e nutrients provided
		B) Protein	C) Vitai	nins	D) Minerals
C 9	9. Which of the	ne following is	a breed of swin	?	
		B) Dorset		c D) Pie	edmontese
D_ 1	10. Which of	the following a	re products pro	vided by hogs	s?
A) Heart	Valves	B) Medicines	C) Paint	brushes	D All of the Above
B 1	11. Which of	the following is	s a breed of shee	ep?	
A) Herefo		B) Southdown		ter White	D) Polled Hereford
·		g a new litter of Care C) Clippi	f pigs includes_ ng Needle Teetl	n D) All	I of the above

	muscle, bone and fa	t associated with the	slaughter of an a	animal is called the
A) Retail Cut	B) Dressing	C) Carcass	D) No	ne of the above
_		d together is called a_d D) Si		
	-	are of the same bree C) Crossbred		
D16. Mutt A) Swine B	on is the meat from) Dairy	older than 1 C) Beef	2 months of age D) Sheep	. .
	_	are beef industry care ger C) Meat Insp		of the above
without a prescri	ption.	on can be sold at farm C) Withdraw		
	is a young) Sow C) Gilt	female pig that has not be D) Ewe	ot had a litter of	pigs.
a drug and slaug	hter.	of time that must pass on C) Withdrawal		
		for market steers is C) 1100 to 1		
skeleton and mu	_	eneral body shape of the lattice of		nined by its w-hocked
· <u></u>	_	is a form of identifica C) Tail Docking		
		ocks of an animal are	_	ner. w Hocked
external stress as testing positive f	sociated with anima or the gene can die v	condition in swine that I movement and char when stress occurs. drome C) Ps	nges in their envi	ironment. Animals

2020 Livestock Skill A Thon - KEY Senior Written Test

	_	cattle was deve	eloped by the United States
Department of Agricu			
A) Brangus	B) Gelbvieh	C) Angus	D) Hereford
C2bacterial infection.	_is an inflammation of	the udder or ma	ammary gland caused by a
	B) Ketosis	C) Mastitis	D) Dystocia
	a form of inbreeding tanding ancestor in a h		empt is made to concentrate the
			g D) Line Breeding
	is a disease that bs affected cannot wal		nd is caused by a lack of vitamin erly.
			vel ill D) Parasites
_B5. implanting them in ot	involves the collecther cows called recipion	tion of embryos	from a donor cow and
A) Pasture Breeding	B) Embryo Transfer	C) AI	D) Handmating
_C6. Which of the red, has droopy ears a		e breed develop	ed in America. The breed is solid
A) Chester White	B) Tamworth	C) Duroc	D) Spot
A 7. Thread lik	e structures that contain	in genes are call	led
A) Chromosomes	B) Genetics	C) Heterosis	D) None of the above
B 8. Which of t	the following is a trait	of economic im	portance in beef cattle?
A) Reproductive	Performance	B) Growth Ra	te
C) Conformation		D) All of the A	Above
	is a figure used to dence of other animals in		spring will perform in relation to
A) MPPA			djusted Weaning Weight
C) EPD		D) 365 Day A	djusted Yearling Weight
_C10. The lengtl	h of gestation for a ew	e is	<u>.</u>
A) 83 to 92 days	B) 93 to 102 days	C) 143 to 152	days D) 193 to 202 days
A 11. The term	used to describe the e	xpression of gen	netic traits is
	B) Genotype		
_C12. Iron inject	tions are given to baby	pigs to prevent	t <u> </u> .
A) Flu B) Par			

_D13	is the hormo B) Testosterone	ne that maintains pre	gnancy.
A) Oxytocin	B) Testosterone	C) Estrogen D)	Progesterone
external stress asso testing positive for	the gene can die when s	ement and changes in stress occurs.	n their environment. Animals
A) Napole B) P	Porcine Stress Syndromo	e C) Pseudor	rabies D) Dysentery
15ram/boar/bull.	is the hormone	that causes the secon	dary sex characteristics in the
	B) Testosterone	C) Estrogen D)	Progesterone
_B16. Which of A) The knife many C) Elastrator	of the following is NOT nethod	B)	on used for lambs? Docking Burdizzo
_C17. The pig	is a simple stomached	animal called a	
A) Ruminant B) H	ind gut fermenter	C) Monogastric	D) None of the above
			ve a four-compartment stomach D) None of the above
	rcass grades Rib eye area C) Q		
	is a term that is us Cotted C) Dead woo		that is badly matted or tangled.
	causes swelling C) Pinkeye		are disease
_C22	is a fungus that g	gets into the skin and	develops a rough condition
where the hair drop A) Foot Rot B) S	<u>*</u>	ingworm D)	Pinkeye
B 23. An ope	<u>=</u>	mb and wool that is d	estined for the consumer is
A) Club Lamb		B)	Commercial Flock
C) Herd		D)	None of the above
Shorthorn and 3/8 I	Brahman. They are know	-	ped in Texas? The breed is 5/8 ate, long life and hardiness. Sertrudis
_D25. Animal A) Splayfooted	s with this condition the B) Pigeon Toed		are too close together. D) Cow Hocked

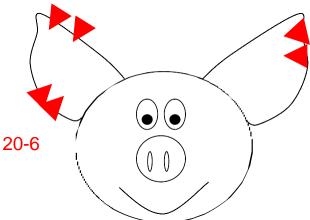
QUALITY ASSURANCE EXERCISE - TEAM EXAMPLE

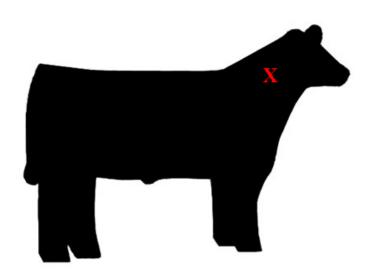
Quality Assurance Exercise: (100 possible points) Demonstrate how to read an animal health product label, calculate dosage rates and withdrawal times, complete a treatment record, be familiar with administration routes, and make responsible management decisions regarding quality assurance.

TEAM CLASS	
Team Name:	Team Number:

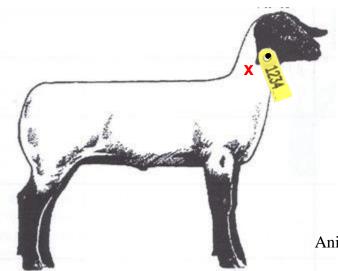
2020 Wisconsin 4-H Livestock Skill-A-Thon Contest Team Quality Assurance Exercise (100 Points)

Place an "X" on the proper location for a subcutaneous injection on this steer. (5 points)





This market hog needs to be ear-notched, he was the 6th pig processed from the 20th litter born on the farm this year. Mark the appropriate position of the notches on the above drawing. (10 points Seniors/5 points Juniors)



This 4-H market lamb was born on January 28, 2020 weighing 15 pounds.

Today is July 30, 2020 and it is ready for market at 130 pounds.

Place an "X" on the proper location for a subcutaneous injection on this lamb. (5 points)

Use the attached product labels to complete the following records and determine if the withdrawal times on all medications have been met. (3 points each seniors/5 points each juniors)

Treatment Record

Animal ID #: 1234

(5 points)

Treatment Date	Condition Being Treated	Animal's Weight	Product Name (Info was provided for Juniors only)*	Dosage	Route Administered	Withdrawa l Time	Date Withdraw a l Completed
*1/29/2020	Vitamin E Supplement	15 lbs.	Vital E—300	2—3 mL	IM or SQ	None	N/A
2/11/2020	White Muscle Disease Prevention	25 lbs.	BO-SE	1 mL	IM or SQ	14 days	2/25/2005
3/25/2020	Worming	50 lbs.	Levasole	1 bolus	Oral	72 hours	3/28/2005
4/22/2020	Clostridium Vaccination	65 lbs.	Covexin 8	5 mL	SQ	21 days	5/13/2005
6/17/2020	Clostridium Vaccination Booster	100 lbs.	Covexin 8	2 mL	SQ	21 days	7/8/2005

^{*}Note to coaches: Top line and product name was provided for Juniors only.

LIVESTOCK SCENARIO TEAM EXAMPLE

Animal Breeding Scenarios and Exercise: (100 possible points) Team members will evaluate a breeding animal scenario and make animal selection decisions based upon performance data to rank breeding animals for use within the situation. Examples from previous contests (including National Contest) follow.

2020 Animal Breeding Scenario - Team Exercise

Team Name:	Team Number:

Ram Selection Scenario

You are a Midwest sheep rancher who needs to purchase rams for your two flocks of ewes. One flock of ewes consists of purebred Suffolk females who have been selected over the years to excel in maternal traits, including genetic resistance to Scrapie disease and Spider Lamb Syndrome. Thirty percent of the ewe lambs are kept annually as replacements from this purebred flock. Top quality rams are retained as stud bucks or sold to other purebred producers at national sales. All other lambs are retained and fed to market weight in the family-owned feedlot.

Your second flock of ewes consists of crossbred females (Suffolk X Columbia) who have been selected for post-weaning growth and prolificacy. All offspring from this flock are sold at weaning to a lamb buyer in Colorado, who puts the lambs in a feedlot and feeds them to market weight. The lamb buyer is a regular customer because he knows this commercial flock is genetically resistant to the Spider Lamb Syndrome.

Suffolk Ram Performance Data

_		Expected Progeny Differences								
Ram No.	Name	Weaning Weight	Post Weaning	Milk	Milk & Gain	Number of Lambs Born	Number of Lambs with wts.	Codon 171 Genotype	Spider Lamb Genotype	*Birt h Type
1	Star	3.2	3.5	1.2	1.9	2.8	151	RR	NN	TW
2	Chapman	1.4	1.7	0.1	0.8	0.7	08	QQ	NS	S
3	Donner	-1.4	-2.5	0.0	-0.7	1.6	17	RR	NN	S
4	Eagle	2.8	5.6	1.5	2.9	2.9	43	QR	NS	TR
5	Perfection	3.1	4.7	-0.1	0.7	3.4	51	RR	NN	TW
6	Horse	0.5	0.6	0.2	0.4	2.5	40	QR	NN	TW
7	Slacker	3.1	5.3	1.6	2.1	4.7	149	RR	NN	TW
8	Outlier	1.2	2.5	-2.5	-0.1	-3.1	35	QR	NN	S
Breed Ave	rages	1.1	2.1	0.2	0.9	1.23				

^{*}S = single *TW = twin *TR = triplet

Tea	m NameKEY Team Number
QU	ESTIONS
1.	Which two rams are best suited for use in the purebred flock?Star (1) and Slacker (7)
2.	Which ram has no genetic resistance to the Scrapie disease?Chapman (2)
3.	Which ram is most likely to sire the slowest growing progeny to 120 days-of-age?Donner (3)
4.	Which ram will improve prolificacy the most?Slacker (7)
5.	Which ram is least suited for use in your flock of crossbred ewes?Chapman (2)
6.	Which two rams should you purchase to meet the goals of your crossbred flock?Perfection (5) and Slacker (7)
7.	Which two rams are not genetically resistant to the Spider Lamb Syndrome?Chapman (2) and Eagle (4)
8.	Which two rams are the most proven?Star (1) and Slacker (7)
9.	Which ram's daughters would you expect to generate the lowest number of lambs born?Outlier (8)
10.	Which ram has two siblings?Eagle (4)
11.	Which of the rams that were born a twin, offers the least post weaning growth?Horse (6)
12.	Which ram is the least suited as a maternal sire?Outlier (8)
13.	Which two rams have the most balanced performance profile when considering a combination of growth, maternal traits
	and Scrapie resistance?_Star (1) and Slacker (7)
14.	Which ram would be well suited for your crossbred ewes, except for the fact that he is not genetically resistant to Spider
	Lamb Syndrome?Eagle (4)_
15.	Which ram is below breed average for all of the listed traits except "number of lambs born"?Donner (3)

National/Wisconsin 4-H Livestock Skillathon Resource Materials:

*Suggested study materials include but are not limited to the following list.

Swine Resources

OSU Swine Resource Handbook

4-H circular 134R

The Ohio State University

https://extensionpubs.osu.edu/swine-resource-handbook-for-market-and-breeding-projects/

4-H Literature:

Swine 1 – Growing with Swine (revised 2004) Swine 2 – Becoming Swine Smart (revised 2004) Swine 3 – Entering the Arena (revised 2004) Swine Helper's Guide (revised 2004) Available from your extension offices

4-H CCS Materials - Available at https://4-h.org/parents/curriculum/

National Pork Board Swine Quiz and Skillathon Resources:

http://www.pork.org/youth-and-education/skillathon-quiz-bowl/

Pork Checkoff Quick Facts publication:

http://www.pork.org/pork-quick-facts/

Seedstock Edge: www.nationalswine.com

National Swine Registry West

Lafayette, IN

Nasco Farm & Ranch Catalog Fort

Atkinson, WI 1-800-558-9595

http://www.enasco.com

National Hog Farmer

Monthly Periodical 7900 International Drive, Suite 300 Minneapolis, MN 55425 http://www.nationalhogfarmer.com/

OSU Swine Learning Lab Interactive CD

The Ohio State University Phone: 614-292-4848

https://ohio4h.org/sites/ohio4h/files/d6/files/CD%20flver%20smallest.pdf

Livestock E-Quiz: http://web.extension.illinois.edu/equiz/

Illinois Trail - Technology and Research: Allied & Integrated Livestock Linkages

http://livestocktrail.illinois.edu/

Illini Porknet (Ask the Expert): http://livestocktrail.illinois.edu/porknet/

PORK magazine: http://www.Porkmag.com

Information on all swine breeds: http://www.ansi.okstate.edu/breeds/

American Meat Institute: https://www.meatinstitute.org/

Pork Industry Handbook: https://www.usporkcenter.org/jobs-resources/pork-industry-handbook/

Beef Resources

UNL Beef Manual Handbook

This is an updated manual that replaces the OSU beef manual Download is electronic and costs approximately \$40. http://marketplace.unl.edu/ne4h/4h4200.html

OSU Beef Resource Handbook

4-H circular 117R
The Ohio State University
https://extensionpubs.osu.edu/beef-resource-handbook/

4-H Literature:

Beef 1 – Bite into Beef (revised 2005)
Beef 2 – Here's the Beef (revised 2005)
Beef 3 – Leading the Charge (revised 2005)
Beef Helper's Guide (revised 2005)
Available from your extension offices

4-H CCS Materials – Available at https://4-h.org/parents/curriculum/

Information on all beef breeds: http://www.ansi.okstate.edu/breeds/

Illini Beefnet (Ask the Expert): http://web.extension.illinois.edu/oardc/

Illinois Beef Handbook - http://web.extension.illinois.edu/oardc/downloads/43908.pdf

Beef Production and Management Decisions 2nd Edition by Robert Taylor Feeds and

Feeding by Morrison and Morrison

Forages, Fourth Edition by Maurice E. Heath, Robert F. Barnes and Darrel S. Metcalfe

Meat Evaluation Handbook by National Cattlemen's Beef Association

For Mixed and Senior Divisions:

Nebguides: UNL Extension Publications

Beef Cattle Implant Update and Synchronizing Estrus in Beef Cattle, can be found at http://beef.unl.edu/learning/estrussynch.shtml

Sheep Resources

Sheep Resource Handbook

4-H circular 194R The Ohio State University Phone number 614-292-1607

https://extensionpubs.osu.edu/sheep-resource-handbook-for-market-and-breeding-projects/

Sheep Production Handbook

Formerly called the sheep industry development handbook or SID 803-771-3500 ext. 46

4-H Literature: (Available from your Extension Offices)

Sheep 1 – Lambs, Rams, and You (revised 2000)

Sheep 2 – Shear Delight (revised 2000)

Sheep 3 – Leading the Flock (revised 2000)

Sheep Helper's guide

Available from your extension offices

4-H CCS Materials - Available at https://4-h.org/parents/curriculum/

Meat Goats

OSU Goat Resource Handbook 4H

135R – The Ohio State University Phone number 614-292-1607 https://extensionpubs.osu.edu/goat-resource-handbook/

4-H Literature:

Meat Goats

Meat Goat 1 – Just Browsing
Meat Goat 2 – Growing up with Meat Goats
Meat Goat 3 – Meating the Future
Meat Goat Helper's Guide
Available from your extension offices
4-H CCS Materials – Available at https://4-h.org/parents/curriculum/

American Boer Goat Association: http://www.abga.org/

Information on Goat breeds: http://www.ansi.okstate.edu/breeds/goats/

International Boer Goat Association

P. O. Box 663 Spicewood, TX 78669

Toll Free phone: 877-640-4242 Toll Free Fax: 877-640-4060 Web: http://abga.org/

New Hampshire Extension Goat Resources: https://extension.unh.edu/4-H-Animal-and-Ag-science/4-H-Meat-Goat-Page

The 4-H Meat Goat Project: An Introduction - https://extension.unh.edu/blog/new- hampshire-4-h-goat-project-overview

Texas A&M University Meat Goat Resources:

https://extension.unh.edu/resources/files/Resource002493 Rep3663.pdf

North Carolina State University Meat Goat Materials: https://youthlivestock.ces.ncsu.edu/

Penn State University Meat Goat Materials: https://extension.psu.edu/animals-and-livestock/goats

Iowa State Meat Goat Resources:

http://www.extension.iastate.edu/4h/projects/meat-goat http://www.extension.iastate.edu/4h/page/meat-goat-judging

Cornell University Meat Goat Fact Sheets: http://4h.ansci.cornell.edu/animal-programs/goats/meat-goats/

Langston University Goat Materials: Search this site for a variety of goat related tools and resources. http://www.luresext.edu/

Other Helpful Resources:

4-H Literature: Vet Science Curriculum BooksBook 1 – From Airedales to Zebras (2004) Book
2 – All Systems Go (2004)
Book 3 – On The Cutting Edge (2004)
Helper's Guide (2004)
Available from your extension offices

4-H CCS Materials – Available at https://4-h.org/parents/curriculum/

The Meat We Eat (13th edition, Interstate Publishers, Inc.) 510 North Vermillion St., PO Box 50, Danville, IL 61834. Phone 800-843-4774. It is also available from www.amazon.com

Websites & Current Event References:

A small percentage of questions will be based on current events in the beef, sheep and swine industries. Since studying from these may appear to be overwhelming, keep these points in mind. Think about major issues that has affected the livestock industry in many ways such as: animal diseases, exports, animal ID, environmental issues, and regulator changes. The following on-line resources will be used to develop these questions:

- 1. American Sheep Industry Association website at: www.sheepusa.org
- 2. National Cattlemen's Beef Association website at: www.beef.org
- 3. National Pork Board website at: www.pork.org
- 4. American Meat Institute website at: https://www.meatinstitute.org/
- 5. **Pork Magazine** (questions related to current industry issues, at: www.porkmag.com, you need to subscribe for a free subscription.
- 6. **Beef Magazine** (questions related to current industry issues, at: http://www.beefmagazine.com/
- National Hog Farmer Magazine (questions related to current industry issues), website at: http://nationalhogfarmer.com/
- 8. **Meatingplace.com** (an on-line community for red meat and poultry processors in North America, questions related to current industry issues, January) website at: www.meatingplace.com
- Drovers Cattle Network (questions related to current industry issues) website at: https://www.drovers.com/resources
- 10. American Boer Goat Association http://www.abga.org/
- 11. Aphis www.aphis.usda.gov
- 12. Wisconsin Livestock Identification Consortium www.wiid.org
- 13. Wisconsin/USDA Ag Statistics (NASS):
 http://www.agcensus.usda.gov/Publications/2012/Full_Report/Volume_1,_Chapter_1_S
 tate Level/Wisconsin/

Forage Resources

Forages CD-ROM Companion

Volume 1 – An Introduction to Grassland Agriculture Volume 2 – The Science of Grassland Agriculture

Iowa State University Press

Ames, IA 50014

Orders: 1-800-862-6657 Office: 1-515-292-3348

Forages-The Science of Grassland Agriculture, 4th Edition

by Maurice E. Heath, Robert F. Barnes, Darrel S. Metcalfe Iowa State University Press

Ames, IA 50014

Orders: 1-800-862-6657

Online at: http://www.amazon.com/Forages-Volume-Introduction-Grassland- Agriculture/dp/0813804213

Pennsylvania Forage Handbook

Penn State College of Agricultural Sciences 217 Ag Administration Bldg. University Park, PA 16802 Phone:

814-865-2541

Southern Forages

Circulation Department Potash & Phosphate Institute 655 Engineering Drive, Suite 110 Norcross, Georgia 30092-2843 Phone: 770-447-0335

Phone: //0-44/-055.

Price: \$25.00

Forage Web Links

Purdue University - http://www.agry.purdue.edu/ext/forages/forageid/forageid.htm

University of Idaho- https://www.uidaho.edu/cals/kimberly-research-and-extension- center/research/forage

UW-Extension- https://fyi.uwex.edu/forage/

University of Kentucky- http://www.uky.edu/Ag/Forage/ForageBooks.htm

Meat Resources

ITCS Instructional Materials

1401 South Maryland Drive Urbana IL 61801 USA (217) 244-3906 (800) 345-6087 (orders only) FAX (217) 333-0005 http://im.itcs.illinois.edu/MDS100a.htm

Flash Cards

Retail Meat Cut Identification-Flash Card Set (updated 2017)

This is the easiest way to teach or learn to recognize the common retail cuts of beef, pork, and lamb! These 5"x7" cards, with cut descriptions on the back, showcase 126 full-color photographs of the retail cuts of meat. Each image is printed on high- quality, glossy- finished card stock and comes in a custom -designed box. https://www.enasco.com/p/Retail-Meat-Cut-Flash-Cards%2BC30003?searchText=flash+cards+meat 175 cards \$97.25

Online Web Resources

QUIZLET- online tool with a variety of resources: FLASH CARDS: https://quizlet.com/ - use key words to search for sets. These are tools that people have uploaded to the site; they may or may not be accurate.

ICEV Media - Great listing of online tools/judging classes

https://www.icevonline.com/search?search_paths%5B%
5D=&query=judging&submit=

Texas A&M - Listing of relevant meats judging contacts

http://agrilife.org/4hmeat/academics/meat-science/4h/resources/

Texas A&M Meat Judging Online Judging Tools

American Meat Science Associationhttp://agrilife.org/4hmeat/academics/meat-science/4h/meat-judging/

http://meatscience.org/students/meat-judging-program/national-4-h-meat-judging

Nasco Farm and Ranch Catalog

https://www.enasco.com/q?question=meats&x=0&y=0

Online Meats Identification and Placing Classes Texas

A&M University Aggie Meat Judging Resources

http://aggiemeat.tamu.edu/

Texas Tech University Meat Judging Resources

http://www.depts.ttu.edu/meatscience/classes.php

University of Nebraska-Lincoln Meats Judging Resources

https://animalscience.unl.edu/pase-and-cde-meats-contest

The Guide to Identifying Meat Cuts

Booklet published cooperatively by American Meat Science Association, National Cattlemen's Beef Association and National Pork Producers Council focused on meat labeling, meat safety, cuts of meats, nutrition labeling, wrapping meat, and meat cookery.

ONLINE at: https://www.beefresearch.org/CMDocs/BeefResearch/PE/GuideToID_MeatCuts.pdf