

# Livestock Skillathon Contest

## I. Eligibility

- a. Read General Rules
- b. Two 3 or 4-member teams per county in each age group or maximum of eight (8) participants in each age group

## II. Purpose/Goal

- a. The 4-H Livestock Skillathon contest will provide opportunities for youth enrolled in 4-H to gain and develop production livestock skills and life skills, by engaging them in a pleasant, yet competitive environment which focuses on the range of their knowledge and comprehension of animal science and livestock management practices.

## III. Procedures

### NOVICE

- a. **Livestock Equipment Identification: (100 points possible)** Identify from the photographs or actual equipment, the proper name for twenty-five pieces of equipment used in livestock production.
- b. **Livestock Breed Identification: (100 points possible)** Identify from the photographs or pictures, twenty livestock (beef, swine, sheep, and goat) breeds.
- c. **Feedstuff Identification: (50 points possible)** Identify ten feedstuffs by the proper name.
- d. **Meat Identification: (50 points possible)** Identify ten cuts of meat by species and name of retail cut.
- e. **Meat Judging Class: (50 points possible)** Rank a class of four similar retail cuts of meat.
- f. **Feed Tag Knowledge Exercise: (50 possible points)** Demonstrate ability to read and interpret information on a feed tag and answer questions regarding management decisions. **(possible individual points for NOVICE: 400)**

### JUNIOR

- a. **Livestock Equipment Identification: (100 points possible)** Identify the proper name for twenty-five pieces of equipment used in livestock production.
- b. **Livestock Breed Identification: (100 points possible)** Identify from the photographs or pictures, twenty livestock (beef, swine, sheep, and goat) breeds with country of origin.
- c. **Feedstuff Identification: (50 points possible)** Identify ten feedstuffs by the proper name and correct nutrient group.
- d. **Meat Identification: (50 points possible)** Identify ten cuts of meat by species and name of retail cut.
- e. **Meat Judging Class: (50 points possible)** Rank a class of four similar retail cuts of meat.

- f. **Quality Assurance Exercise: (50 points possible)** Demonstrate how to read a medicine label, calculate withdrawal times, complete a treatment record, and make responsible management decisions regarding quality assurance.
- g. **Feed Tag Knowledge Exercise: (50 possible points)** Demonstrate ability to read and interpret information on a feed tag and answer questions regarding management decisions. **(possible individual points for JUNIOR: 450)**

#### **IV. General Rules**

This contest will be held in an open format so participants can participate at their convenience, but the contest will be scored for awards. It is recommended that teams go through the contest together, however, it is not required. Each county is allowed to bring two novice and two junior teams to the district contest. A junior team may be mixed ages, novice and junior. A novice may be novice age contestants only. The county team score will be the sum of the three highest scores. If a county does not have a team, they may bring individuals in each category. Individual can compete only for high point individual. A team must consist of three or four members. Ties will be broken by Breed ID, Livestock Equipment, Feed ID, Meat Judging Class & Meat ID for Juniors in this order.

Refer to the State 4-H Webpage for additional information on the contest and scorecard examples. Teams consist of three or four members. In teams in which there are four members, all will compete; but the member receiving the lowest overall score will be automatically declared the alternate. The scores of the alternate will not be included in any of the team totals but will be considered in making all individual awards. Teams consisting of three members will have no alternate, and all members' scores will count in determining individual and team awards

NAME: \_\_\_\_\_

COUNTY: \_\_\_\_\_

**Livestock Skillathon  
Equipment Identification**

*Place the letter of the correct tool name in the blank to the right of the number that corresponds to the tool.*

- |                 |                          |                                       |
|-----------------|--------------------------|---------------------------------------|
| 1.              | A. Bailing Gun           | AA. Shears Screwdriver                |
| 2.              | B. Beef Halter           | BB. Straw Artificial Insemination Gun |
| 3.              | C. Branding Iron         | CC. Swine Breeding Spirette           |
| 4.              | D. Dehorner              | DD. Tattoo Pliers                     |
| 5.              | E. Calf Puller           | EE. Transfer Needle                   |
| 6.              | F. Curry Comb            |                                       |
| 7.              | G. Disposable Syringe    |                                       |
| 8.              | H. Drench Gun            |                                       |
| 9.              | I. Ear Natcher           |                                       |
| 10.             | J. Ear Tag Pliers        |                                       |
| 11.             | K. Elastrator            |                                       |
| 12.             | L. Emasculator           |                                       |
| 13.             | M. Heat Detection Patch  |                                       |
| 14.             | N. Hog Snare             |                                       |
| 15.             | O. Hoof Knife            |                                       |
| 16.             | P. Implant Gun           |                                       |
| 17.             | Q. Lamb Tube Feeder      |                                       |
| 18.             | R. Nipple Waterer        |                                       |
| 19.             | S. Nose Lead             |                                       |
| 20.             | T. OB Chain              |                                       |
| (JUNIORS ONLY). | U. Pistol Grip Syringe   |                                       |
| 21.             | V. Ram Marketing Harness |                                       |
| 22.             | W. Rumen Magnet          |                                       |
| 23.             | X. Scalpel               |                                       |
| 24.             | Y. Scotch Comb           |                                       |
| 25.             | Z. Sheep Shears          |                                       |

## Livestock Skillathon

### Breed Identification

*Place the letter of the correct breed name in the blank to the right of the number that corresponds to the picture.*

#### CATTLE

- 1) \_\_\_\_\_
- 2) \_\_\_\_\_
- 3) \_\_\_\_\_
- 4) \_\_\_\_\_
- 5) \_\_\_\_\_

A. Angus  
B. Brahman  
C. Brangus  
D. Braunvieh  
E. Chianina  
F. Gelbvieh  
G. Hereford  
H. Limousin

I. Maine-Anjou  
J. Salers  
K. Santa Gertrudis  
L. Shorthorn  
M. Simmental  
N. Red Angus  
O. Highland  
P. Texas Longhorn

Q. Wagyu  
R. Charolais  
S. Polled  
Hereford

#### SWINE

- 6) \_\_\_\_\_
- 7) \_\_\_\_\_
- 8) \_\_\_\_\_
- 9) \_\_\_\_\_
- 10) \_\_\_\_\_

T. Berkshire  
U. Chester White  
V. Duroc  
W. Hampshire  
X. Hereford

Y. Landrace  
Z. Pietra In  
AA. Spotted  
BB. Yorkshire

#### SHEEP

- 11) \_\_\_\_\_
- 12) \_\_\_\_\_
- 13) \_\_\_\_\_
- 14) \_\_\_\_\_
- 15) \_\_\_\_\_

CC. Cheviot  
DD. Columbia  
EE. Corriedale  
FF. Debouillet  
GG. Barbado  
HH. Merino

II. Dorset  
JJ. Dorper  
KK. Finnsheep  
LL. Hampshire  
MM. Rambouillet  
NN. Southdown

OO. Suffolk

#### GOATS

- 16) \_\_\_\_\_
- 17) \_\_\_\_\_
- 18) \_\_\_\_\_
- 19) \_\_\_\_\_
- 20) \_\_\_\_\_

PP. Boer  
QQ. Kiko  
RR. Angora  
SS. Pigmy  
TT. Nubian

UU. Lamancha  
WW. Spanish

NAME: \_\_\_\_\_

COUNTY: \_\_\_\_\_

### Livestock Skillathon

#### Livestock Feeds

*Place the letter of the correct feed name in the blank to the right of the number that corresponds to the feed.  
Place the correct nutrient in the second space for each feed. You must indicate if the feed is an energy, protein, or mineral*

	<i>Feed Name</i>	<i>Feed Type (Juniors Only)</i>
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

#### FEED NAME

A. Cracked Corn

B. Rolled Oats

C. Cottonseed Hulls

D. Rolled Milo

E. Whole Milo

F. Beet Pulp

G. Whole Oats

H. Whole Soybeans

I. Alfalfa Pellet

J. Whole Wheat

K. Whole Cottonseed

L. Whole Sunflower

M. Whole Corn

N. White Salt

O. Blood Meal

P. Fish Meal

Q. Dried Molasses

R. Rolled Corn

S. Rolled Barley

T. Trace mineral

U. Soybean Meal

V. Buckwheat

#### FEED TYPE

EE. Energy

PP. Protein

MM. Mineral

NAME: \_\_\_\_\_

COUNTY: \_\_\_\_\_

**Livestock Skillathon  
Meats Identification**

Item	Species	Retail Name
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

Species	Retail Name
<b>1. Beef</b>	1) Top Blade Steak (Flat Iron).      12) Beef For Stew 2) Flank steak      13) Ground Beef 3) Porterhouse Steak      14) Heart 4) T-Bone Steak      15) Kidney 5) Short ribs      16) Liver 6) Short Ribs      17) Oxtail 7) Ribeye Steak      18) Tongue 8) Bottom Round Roast 9) Eye Round Steak 10) Top Round Steak 11) Cube Steak
<b>2. Pork</b>	19. Pork Fresh Ham Center Slice      31. Slab Bacon 20. Pork Fresh Ham Shank Portion      32. Sliced Bacon 21.      Blade Chops      33. Pork Spareribs 22.      Blade Roast      34. Smoked Jowl 23.      Center rib roast      35. Heart 24.      Country Style Ribs      36. Kidney 25.      Loin Chops      37. Liver 26.      Rib Chops      38. Tongue 27.      Butterfield Chop Boneless 28.      Arm Roast 29.      Blade Boston Roast 30.      Blade Steak
<b>3. Lamb</b>	39. Loin Chops 40. Rib Chops 41. Rib Roast 42. Arm Chops 43. Blade Chops 44. Center Slice 45. Heart 46. Kidney 47. Liver 48. Tongue

### ***Retail Meat ID Master List***

**Important Notice:** The following material is provided as a study guide. Juniors will identify ten (10) cuts as to Species, Primal, Retail, and Cookery

Species	Primal	Retail	Cookery
Beef	Chuck	Top Blade Steak (Flat Iron)	Dry
Beef	Flank	Flank Steak	Dry/Moist
Beef	Loin	Porterhouse Steak	Dry
Beef	Loin	T-Bone Steak	Dry
Beef	Plate	Short Ribs	Moist
Beef	Rib	Short Ribs	Dry
Beef	Rib	Ribeye Steak	Dry
Beef	Round	Bottom Round Roast	Dry/Moist
Beef	Round	Eye Round Steak	Dry/Moist
Beef	Round	Top Round Steak	Dry
Beef	Various	Cube Steak	Dry/Moist
Beef	Various	Beef for Stew	Moist
Beef	Various	Ground Beef	Dry
Beef	Variety	Heart	Dry/Moist
Beef	Variety	Kidney	Dry/Moist
Beef	Variety	Liver	Dry/Moist
Beef	Variety	Oxtail	Moist
Beef	Variety	Tongue	Dry/Moist
Pork	Ham/Leg	Pork Fresh Ham Center Slice	Dry/Moist
Pork	Ham/Leg	Pork Fresh Ham Shank Portion	Dry/Moist
Pork	Loin	Blade Chops	Dry/Moist
Pork	Loin	Blade Roast	Dry/Moist
Pork	Loin	Center Rib Roast	Dry
Pork	Loin	Country Style Ribs	Dry/Moist
Pork	Loin	Loin Chops	Dry
Pork	Loin	Rib Chops	Dry
Pork	Loin	Butterfield Chop Boneless	Dry
Pork	Shoulder	Arm Roast	Dry/Moist
Pork	Shoulder	Blade Boston Roast	Dry/Moist
Pork	Shoulder	Blade Steak	Dry/Moist
Pork	Side/Belly	Slab Bacon	Dry
Pork	Side/Belly	Sliced Bacon	Dry
Pork	Spareribs	Pork Spareribs	Dry/Moist
Pork	Variety	Smoked Jowl	Dry/Moist
Pork	Variety	Heart	Dry/Moist
Pork	Variety	Kidney	Dry/Moist
Pork	Variety	Liver	Dry/Moist
Pork	Variety	Tongue	Dry/Moist
Lamb	Loin	Loin Chops	Dry
Lamb	Rib	Rib Chops	Dry
Lamb	Rib	Rib Roast	Dry
Lamb	Shoulder	Arm Chops	Dry/Moist
Lamb	Shoulder	Blade Chops	Dry/Moist
Lamb	Leg	Center Slice	Dry
Lamb	Variety	Heart	Dry/Moist
Lamb	Variety	Kidney	Dry/Moist
Lamb	Variety	Liver	Dry/Moist
Lamb	Variety	Tongue	Dry/Moist

## Livestock Skillathon

### Meat Judging Classes

Placing Card

for

4-H Judging

Events

Class    \_\_\_\_\_

Contestant No. \_\_\_\_\_

Placing Score. \_\_\_\_\_

Reasons Score. \_\_\_\_\_

Total Score \_\_\_\_\_

1234	
1243	
1324	
1342	
1423	
1432	
2134	
2143	
2314	
2341	
2413	
2431	
3124	
3142	
3214	
3241	
3412	
3421	
4123	
4132	
4213	
4231	
4312	
4321	



## Livestock Skillathon

### Beef Quality Assurance

## EXAMPLE

### MG Calf Builder - Gen 2

For Beef Cattle on Pasture

GUARANTEED ANALYSIS					
Crude Protein	min	12.00%	Salt	min	0.20%
Crude Fat	min	3.00%	Salt	max	0.70%
Crude Fiber	max	12.90%	Potassium	min	0.50%
Calcium	min	1.00%	Copper	min	30 ppm
Calcium	max	1.50%	Selenium	min	0.45 ppm
Phosphorus	min	0.50%	Vitamin A	min	5,000 IU/lb

#### List of Ingredients

Grain Products, Roughage Products, Processed Grain By-Products, Plant Protein Products, Molasses Products, Calcium Carbonate, Sodium Chloride, Monocalcium Phosphate, Hemicellulose Extract, Hydrated sodium calcium aluminosilicate, Magnesium-Mica, Manganous Oxide, Diatomaceous Earth (flow agent), Copper Sulfate, Zinc Sulfate, Zinc Oxide, Manganese Sulfate, Sodium Selenite, Cobalt Carbonate, Lactic Acid, Origanum Oil, Thyme White Oil, Cinnamaldehyde, Vitamin E Supplement, Mineral Oil, Vitamin A Supplement, Vitamin D3 Supplement, Fenugreek Flavor Extract, Ethylenediamine Dihydriodide, Dried Seaweed Meal (Fucaceae, Bangiaceae, Ulvaceae), Chicory Root, Red Pepper, Cloves, Anise Oil, Saccharin Sodium, Natural Flavor.

#### Feeding Directions

Feed at the rate of 1½ to 2% of body weight per head per day to beef cattle on pasture. Provide plenty of fresh, clean water at all times.

CAUTION: Follow label directions. The addition to feed of higher levels of this product containing selenium is not permitted.

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



Manufactured by:  
M-G, Inc.  
PO Box 697 • Weimar TX 78962  
1-800-460-8581



NET WEIGHT: 50 lb. (22.7 kg) OR BULK

1. What is the guaranteed max amount of calcium and the guaranteed min amount of salt included in this product?

Calcium \_\_\_\_\_ Salt \_\_\_\_\_

2. This product is used for feeding what type of animal?
3. Does this product contain more Hemicellulose Extract or more Sodium Selenite?
4. How much would you feed per day if you were feeding 60 head, each weighing 450 lbs, if you fed at the max percent of body weight?

5. Can this product also be fed to sheep? Why or why not?

### Beef Quality Assurance: Medication Label (Juniors only)

## Naxcel® gran1

(c) ceftriaxone sodium sterile powder

Sterile Powder

For Intramuscular and Subcutaneous Injection in cattle only

For Intramuscular Injection in swine, sheep, goats and horses

For Intramuscular and Subcutaneous Injection in 14-day-old chickens and day-old turkey poult. **Not for Use in Lactating Dairy Cattle, Sheep or Goats.**

**Caution:** Federal (USA) law restricts this drug to use by or on the order of a licensed veterinarian.

NADA #145-334, Approved by FDA

1465000

Age	Dose	Frequency
Day-old Chick	0.05-0.2 mg/lb BW	1 mL/50-100 chicks
Day-old Poultry	0.17-0.35 mg/poul	1 mL/100-200 poul
Sheep/Piglets	25-100 mg/B	1 mL/50-100 lb
Cattle	65-100 mg/B	1 mL/50-100 lb
Swine	1.35-2.27 mg/lb	1 mL/22-37 lb
Horses	10-20 mg/B	2-4 mL/100 lb

**For Intramuscular and Subcutaneous Injection in 14-day-old chickens and day-old turkey poult. **Not for Use in Lactating Dairy Cattle, Sheep or Goats.****

1. **What is the route of administration in cattle only?**
  - a. **Subcutaneous injection only**
  - b. **Intramuscular injection only**
  - c. **Intramuscular and Subcutaneous injection only**
  - d. **Intradermal injection only**
2. **How frequently may this product be administered?**
3. **What is the dosage for a 550lb calf in mL?**
4. **Name the active ingredient(s)?**
5. **What is the name of this medication?**