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Oregon 4-H

BEEF ADVANCEMENT

Program

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Club Series H-26

March 1961



**Cooperative Extension Service
Oregon State University
Corvallis**

Oregon 4-H

Beef Advancement Program

The 4-H Advancement program:

- Will make your 4-H beef project more interesting.
 - Will help you learn more about beef cattle.
 - Will help you develop greater skill with beef animals.
 - Will give you credit for extra work done.
 - Will allow you to advance according to your ability and your willingness to work and study.
 - Is a voluntary activity. It is not a requirement of the 4-H beef project, but is something you can do because you want to.
-

The 4-H Beef advancement program will become an important part of your livestock project. It will be considered a part of your project record and will be checked along with your other records for county and state awards.

In order to get more information about your project, you will have to look through many pamphlets and books. Most of the answers to the questions asked in the advancement program can be found in your project booklet. Ask your county agent for additional USDA and Oregon State University bulletins. Livestock breeders in your counties will also be glad to help you with useful, practical information.

Your local vocational agricultural instructor will lend a helpful hand too. The leader of your 4-H club will want to give you useful suggestions and guide you along the way.

For Steps I, II, and III you must do 10 or more jobs. Do them all if you can. With the approval of your leader, you may write in one or two additional jobs and include them in the 10 you select.

As you do each job, fill in the date and have your leader or parent initial it. When you have done the required number of jobs for a step, tell your leader that you are ready to appear before the advancement chairman or committee. The committee will ask you questions and review the work you have done. If they decide that you are qualified, you will receive an Advancement Certificate. If you do not qualify, you may try again at another time.

When you have passed Step I, go after Steps II, III, and IV. You can do jobs for higher steps while you are working on a lower step, but you cannot qualify for the higher step until you have passed all preceding steps.

Study each job carefully. Do your work well. Good luck.

Step I. Ranch Hand

Date
passed

Approved
by

1. Identify, describe, and tell the important characteristics of five breeds of beef cattle.
2. Name, point out, and spell the following parts of a beef animal: muzzle, face, poll, neck, shoulder, crops, back, loin, rump, hip, round, hock, knee, brisket, ribs, flank, belly.
3. Describe the following characteristics and tell why they are desirable: straight legs, straight back, good bone, level rump, low set, thick bodied.
4. Describe the following characteristics and tell why they are undesirable: light bone, shallow body, narrow body, sloping rump, sickle hocks.
5. Describe or explain and spell correctly the following: bull, cow, heifer, steer, yearling, feeder, grade, purebred, registered, polled, castrate, wean, vaccinate.
6. Provide adequate shelter and fence for your beef animal. Remove nails, loose boards, wire, machinery, and sharp corners that might injure your beef animal.
7. Provide fresh clean water and salt for your beef animal.
8. Complete a 4-H livestock record on your beef project.
9. Make a report on beef or beef management to your club. Examples: My breed of beef animals; how to select a good beef calf; the importance of good pasture.
10. Take part in a judging contest and give reasons on at least one class.
11. Teach your animal to lead.
12. Make a rope halter.
13.
14.

..... is qualified and has completed all requirements for Step
Name of club member *Age* *Club No.*

I of the 4-H Beef Advancement Program
Date

Approved by
Advancement chairman or committee *Club leader*

Step II. Junior Herdsman

Date
passed

Approved
by

1. Be able to identify, describe, and tell the important characteristics of 3 breeds of swine, 3 breeds of sheep, and 3 breeds of dairy cattle.
2. Learn the following parts of livestock: heartgirth, cod, pastern, stifle, dew claw, dock, twist, udder, teat, jowl, switch, snout.
3. Learn the following additional livestock terms: abortion, brucellosis, concentrate, roughage, protein supplement, grade, open heifer, pedigree, rumen, stocker, ruminant.
4. Describe and tell the use of the following beef equipment: stock shute, dipping vat, tattoo instrument, scotch comb, show stick, dehorner, self feeder, rasp, elastrator, creep, syringe.
5. Control at least one parasite (warbles, lice, stomach worms, etc.) and report your methods and results to your club.
6. Demonstrate how to tell the age of cattle by their teeth.
7. Present a demonstration on some phase of beef husbandry.
8. Learn and explain the following USDA slaughter grades of cattle: prime, choice, good, standard, commercial, and utility.
9. Identify and locate the following cuts: loin, rib, round, rump, flank, brisket, chuck.
10. Explain why each of the following is important in a livestock ration: proteins, carbohydrates, fat, minerals, water, and vitamins. Name some of the feeds that supply each of the above.
11. Complete a 4-H feed and growth record on a beef animal. Figure average daily gain and cost per pound.
12.
13.

..... is qualified and has completed all requirements for Step II of the 4-H Beef Advancement Program

Name of club member Age Club No.

Date

Approved by

Advancement chairman or committee Club leader

Step III. Senior Herdsman

Date
passed

Approved
by

1. Name and describe three characteristics or conditions that are inherited and three characteristics caused by feeding and management.
2. Describe or define and spell the following livestock terms: scrotum, testicle, semen, sperm, ovary, ovulate, ovum, uterus, fetus, artificial insemination, colostrum, castrate, spay, abortion.
3. Explain heat (estrus) cycle, breeding, conception, pregnancy, gestation, and parturition. Figure the expected calving date for a beef cow bred April 15.
4. Trim the feet of your calf or dehorn a calf. You may have help in holding the animal, but you are to do the operation yourself. Explain how and why the job was done.
5. Keep a 4-H beef cow production record on a producing beef cow for at least one full year.
6. Visit a packing house, feeding operator, or a commercial or purebred beef cattle ranch and make a report of your visit at a club meeting.
7. Collect, label, and display five forage plants, four cereals, three protein supplements, and two minerals suitable for beef. Give a report on good pasture program for beef in your area.
8. Start a personal library on beef and beef management. Include bulletins and books on feeds and feeding.
9. Describe and give treatment for three of the following diseases: bloat, hoof rot, scours, brucellosis, pink eye, black leg, shipping fever.
10. Present a public demonstration on some phase of beef husbandry.
11. Explain the use of livestock transportation slips, where you get them, and how to fill them out.
12. What is margin in cattle feeding.
13.
14.

..... is qualified and has completed all requirements for Step III of the 4-H Beef Advancement Program
Name of club member Age Club No.
Date

Approved by
Advancement chairman or committee Club leader

Step IV. Cowman

Date
passed

Approved
by

Do three or more Group A jobs and one from Group B.

Group A—Leadership Jobs

1. Become a junior leader in a 4-H livestock club.
2. Serve as a superintendent, assistant superintendent, or clerk at a 4-H livestock show.
3. Get three or more new members for your club or help organize a new livestock club.
4. Help organize and conduct a livestock tour or showmanship or judging field day.
5.

Group B—Research Jobs

Study, prepare a paper (300 words or more), and give a report on one of the following topics:

1. General management of one kind of livestock.
2. Livestock feeds, feeding, and nutrition.
3. Reproduction, breeding, and genetics.
4. Prevention and control of a disease.
5. Using records as a basis for improving livestock.
6. Mixing a beef ration using home grown or local feeds so far as practical. Figure percentage of proteins, carbohydrates, and fats and the cost per pound.
7.

..... is qualified and has completed all requirements for Step IV of the 4-H Beef Advancement Program
Name of club member Age Club No.
Date

Approved by
Advancement chairman or committee *Club leader*

Beef Publications

- USDA F.B. 2126. Farm Beef Herds.
- USDA F.B. 1068. Judging Beef Cattle.
- USDA F.B. 1596. Cattle Grub or Heel Fly Control.
- USDA F.B. 1549. Feeding Cattle for Beef.
- USDA F.B. 1779. Beef Cattle Breeds.
- USDA F.B. 2141. Beef Cattle Dehorning, Castrating, Etc.
- USDA Leaflet 451. Cattle Warts.
- OSC Club Series H 22. Your 4-H Beef Project.
- OSC Club Series. Showmanship and Herdsmanship Guides.
- E.B. 690. Range Cattle Management.
- E.B. 751. Beef Cattle Equipment.