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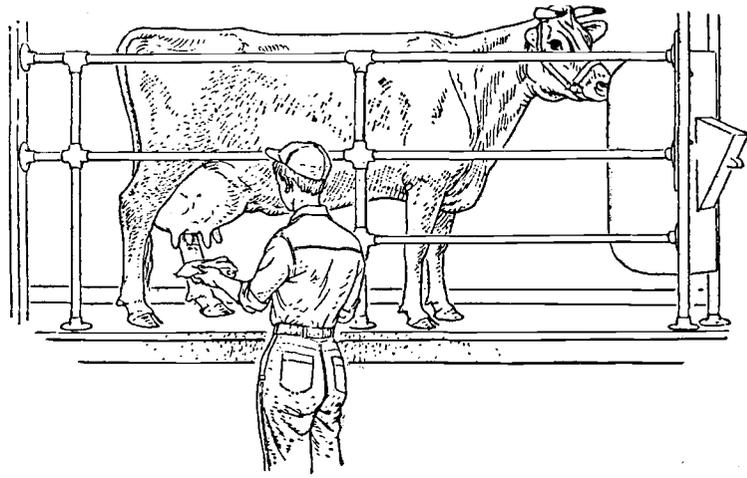
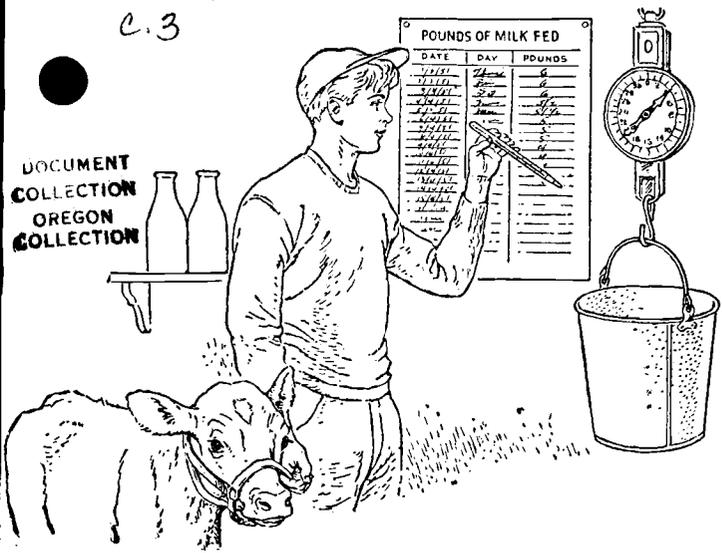
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Oregon 4-7

Dairy Advancement

Program

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Club Series H-27

March 1961



Cooperative Extension Service
Oregon State University
Corvallis

Oregon 4-H

Dairy Advancement Program

The 4-H Advancement program:

- Will make your 4-H dairy project more interesting.
 - Will help you learn more about dairy cattle.
 - Will help you develop greater skill with dairy 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 dairy project, but is something you can do because you want to.
-

The 4-H Dairy 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. Calf Raiser

Date
passed

Approved
by

1. Identify, describe the important characteristics, and be able to spell the names of six breeds of dairy cattle.
2. Name, locate, and be able to spell the names of the following parts of a cow: muzzle, withers, back, pin bones, rump, hock, pastern, teats, flank, chest, heartgirth, udder, barrel, loin.
3. Learn correct spelling, definition, and pronunciation of the following: artificial insemination, brucellosis, colostrum, dairy character, dam, sire, heifer, mammary system, purebred, grade, crossbred, registered, yearling, lactation, gestation period, freshen.
4. Describe the following desirable characteristics and tell how they may aid productive ability: strong back, level rump, wide between pins, long deep barrel, wide deep chest, strong legs, leanness, sound udder, uniform teat size and placement, wide muzzle.
5. Describe the following undesirable characteristics and tell why they are undesirable: beefiness, undersize, narrow shallow chest, weak pasterns, weak udder attachments, strutted teats, tilted udder.
6. Teach your animals to lead, stand, and pose. Make a rope halter.
7. Provide adequate shelter for your animals. Keep pens and yards clean and free of wire, nails, boards, and other materials that may injure your livestock.
8. Explain the term "forage" and name four types of forage.
9. Explain the term "concentrates" and name six kinds.
10. Name at least five safety practices in caring for livestock and tell why each is important.
11. Make a report on one dairy management practice to your 4-H club. Examples: Control of flies, grubs, etc.; how to detect mastitis; why I chose my dairy animal; sanitation; how to keep milk clean; rations for calves.
12. Control flies on your animals, and know what materials are approved for dairy cattle treatment.
13.
14.

..... is qualified and has completed all requirements for Step I of the 4-H Dairy Advancement Program,

Approved by
Name of club member Age Club No.
Advancement chairman or committee Club leader

Date

Step II. Junior Herdsman

Date
passed

Approved
by

1. In addition to the parts of a dairy animal learned in Step I, learn, locate, and be able to spell the following parts: hooks, ribs, thurls, crops, thigh, brisket, knee, heel, switch, hoof.
2. Learn the meaning of and how to spell the following terms: bacteria, chlorine solution, conformation, contagious, infectious, contaminated, dehorn, inheritance, mastitis, milk fat, navel, offspring, progeny, scours, vaccination, antibiotics.
3. Learn the meaning of and how to spell the following terms: carbohydrates, crude protein, green chop, legume, protein, silage, succulents, T.D.N.
4. Demonstrate how to clip a cow for clean milk production.
5. Describe four methods of removing horns from cattle. Assist with or perform this job on one or more animals.
6. Know the purpose of the following equipment and its recommended use: nipple bucket, strainers, filter discs, strip cup, hoof knives, hoof nippers, balling gun.
7. Describe three parasites and give the methods for their control. (Heel flies, horn flies, stable flies, house flies, lice, stomach worms, lung worms.) Undertake control of one parasite and report results and methods.
8. Learn the names and values of eight of these common feeds for dairy cattle: millrun (wheat mixed feed), linseed oil meal, barley, oats, corn, dry milk, wheat, cottonseed oil meal, soybean oil meal, beet pulp, malt, bran.
9. Learn the names of four common forages grown in your area and describe their value.
Name and learn to spell three legumes and three grasses commonly grown in your area for dairy cattle.
10. Name and tell the advantages of three different methods of harvesting forages for dairy cattle.
11. Choose either one:
 - A. Attend a livestock tour or field day and give a report at club meeting. Participate in a judging contest and give oral reasons for at least one class. Give a dairy demonstration at a club meeting.
 - B. Dehorn or trim hooves of one or more dairy animals. Report on how to register a purebred animal in a breed association.
12.
.....

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

II of the 4-H Dairy Advancement Program
Date

Approved by
Advancement chairman or committee *Club leader*

Step III. Senior Herdsman

Date
passed

Approved
by

1. Keep monthly milk and butterfat records on at least one cow for one year.
2. Visit a purebred or commercial dairy farm and learn some of the things the operator is doing to make his operation successful. Report your observations to a club meeting, or visit a milk plant to observe the manner in which milk is obtained and processed.
3. List five sanitation practices the dairy farmer should observe.
4. Learn to recognize the following sicknesses and diseases and at least one recommended treatment for each: hoof rot, milk fever, pink eye, ringworm, shipping fever, scours.
5. Learn what precautions a dairyman should observe in preventing and controlling mastitis. List four.
6. Learn the major dairy products manufactured in your area and the extent to which these products are marketed. (Local, state, national, foreign, etc.)
7. Describe the following good milking techniques: preparation for let-down, milking, stripping, utensil care.
8. Prepare and give a public demonstration on one recommended practice in dairying.
9. Make a collection of five pressed or mounted forage plants (grasses and legumes) grown in your area.
10. Name and describe three methods of pasture utilization. Give benefits or advantages of each and limitations which may be apparent in your area.
11. Explain the use of livestock transportation slips, where you get them, and how to fill them out.
12. Learn the gestation and heat periods of cattle and how to figure calving dates.
13. Learn the grades of milk and cream marketed in Oregon. Tell for what use each grade is intended.
14.

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

III of the 4-H Dairy Advancement Program

Date

Approved by

Advancement chairman or committee

Club leader

Step IV. Dairyman

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 type 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. Taking a soil sample, having it analyzed, and finding out from your county agent what fertilizers are required for efficient yields. | ..... | ..... |

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

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Dairy Cattle Publications

- USDA F.B. 1443. Dairy Cattle Breeds.
- USDA F.B. 1723. Feeding, Care, and Management of Young Dairy Stock.
- USDA F.B. 1470. Care and Management of Dairy Cows.
- USDA F.B. 1443. Breeds of Dairy Cattle.
- USDA Yearbook, 1936. Animal Diseases (\$2).
- PNW Bulletins 24, 26, and 27. Demonstration Helps.
- OSC Club Series H 21. Your 4-H Dairy Project.
- OSC S.B. 545. Control of Mastitis in Dairy Cattle.
- OSC E.B. 592. Feeding Dairy Cattle on Pasture.
- OSC E.B. 561. Livestock Pest Control.
- OSC E.B. 639. Feed Requirements and Values for Livestock.
- OSC E.C. 564. Fly Control.

Your dairy club leader has a 4-H Leaders Guide, C-7903. The last four pages list many titles in addition to the ones given above.