

EM4877E



Dairy Cattle and Dairy Goat 4-H Member Advancement

Member Manual



By

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THE ADVANCEMENT PROGRAM WILL:

- Make your project more interesting.
- Help you learn more about what animals need to produce milk.
- Help you develop greater skill with dairy animals.
- Provide you with new, enjoyable experiences.
- Allow you to advance according to your ability, interest, and willingness to work.
- Recognize you for work well done.

The Advancement Program can be an important part of your dairy project. Include it as part of your project records. Most answers to the questions asked in the Advancement Program are in your project manual.

In the Advancement Program, you work at your own pace. Your leader and parents can help you complete skill options.

As you do each option, fill in the date and have your leader or parent initial it. When you have completed the required number of options for a step, tell your leader that you are ready to be tested to qualify for that step. If you need an animal to complete a skill option and you do not have one, you must try to obtain an animal to complete the skill. If this proves impossible, your leader may exempt you from completing the skill option. You will be asked questions on the work you have done. When each step is completed, your leader will give you an advancement certificate.

When you have passed Step I, go on in turn to Steps II, III, IV, V, and VI. You can do options for higher steps while you are working on a lower step, but you cannot qualify for a higher step until you have qualified for all the lower ones.

ADVANCEMENT CHECKLIST

STEP 1

You must complete fourteen skill options and three personal development options to pass Step I.

Skill Options	Date Passed	Approved By
1. Spell the names of five breeds of dairy cattle or five breeds of dairy goats and describe two important characteristics of each one.	_____	_____
2. Name, locate, and correctly spell these parts of a cow or goat: muzzle, withers, back, pin bones, rump, hock, pastern, teats, flank, chest floor, heart girth, udder, barrel, loin, chine.	_____	_____
3. Learn the correct spelling, definition, and pronunciation of the following: artificial insemination, brucellosis, colostrum, dairy character, dam, sire, heifer, kid, mammary system, purebred, grade, crossbred, registered, yearling, parturition, lactation, gestation period.	_____	_____
4. Describe six of these desirable characteristics and tell how each may aid productive ability: strong back, width and length of rump, width between pins, long deep barrel, wide deep chest, strong legs, leanness, sound udder, uniform teat size and placement, strong head, depth of flank.	_____	_____
5. Describe six of the following undesirable characteristics and tell why each is undesirable: meatiness, undersize, narrow shallow chest, weak pasterns, weak udder attachments, strutted teats, tilted udder, overshot or undershot jaw, pendulous udder.	_____	_____
6. Teach an animal to lead.	_____	_____
7. Learn to show your animal.	_____	_____
8. Make a rope halter (optional for goat projects).	_____	_____

STEP II

You must complete fifteen skill options and three personal development options to pass Step II.

Skill Options	Date Passed	Approved By
1. In addition to the parts of a dairy cow or goat learned in Step I, identify, locate, and correctly spell these parts: ribs, thurls, crops, thigh, brisket, knee, heel, stifle, hoof, poll.	_____	_____
2. Learn the meaning of and how to spell ten of these terms: bacteria, chlorine solution, conformation, contagious, infectious, contaminated, dehorn, inheritance, mastitis, milkfat, naval, offspring, progeny, scours, vaccination, antibiotics.	_____	_____
3. Learn the meaning of and how to spell five of these terms: carbohydrates, green chop, legume, protein, silage, supplement, total dry matter (TDM), crude fiber.	_____	_____
4. Clip an animal for clean milk production or for showing.	_____	_____
5. Describe two methods of removing horns from a dairy animal. Help dehorn at least one animal.	_____	_____
6. Know the purpose and recommended use of five of these pieces of equipment: nipple bottle, ear punch, strainer, strip cup, farrier's (hoof) knives, hoof trimmers, balling gun, magnets, rotary tattoo.	_____	_____
7. What is a parasite?	_____	_____
8. Describe the recommended methods for control of any three of the following: heel flies, horn flies, stable flies, house flies, lice, stomach worms, lung worms.	_____	_____
9. Try to control one type of parasite and report results and methods.	_____	_____
10. Learn the average TDN and protein values of five of these dairy feeds: linseed oil meal, barley, oats, corn, wheat, cottonseed meal, soybean oil meal, beet pulp, bran, whole cottonseed, corn silage.	_____	_____

STEP III

You must complete fourteen skill options and four personal development options to pass Step III.

Skill Options	Date Passed	Approved By
1. Keep monthly milk and/or fat production records on at least one animal for at least one year.	_____	_____
2. Visit a goat dairy or commercial dairy farm and learn what the operator does to make the operation successful. Report your observations to a club meeting, discussing management techniques used in feeding, breeding, and milking.	_____	_____
3. List five livestock sanitation practices a dairy operator should observe and tell why.	_____	_____
4. Describe a recommended milking procedure.	_____	_____
5. Learn to recognize four of these health problems and identify at least one recommended treatment for each: hoof rot, milk fever, pink eye, ringworm, shipping fever, scours.	_____	_____
6. List four practices a dairy operator should observe to prevent and control mastitis.	_____	_____
7. Describe the symptom leading to parturition, the process of a normal birth, and how to care for the mother and baby following birth.	_____	_____
8. Describe what the dry period is, how the cow or doe is dried off, and how she should be fed during this period.	_____	_____
9. Name and describe three ways to manage pastures. Give benefits or advantages of each, or limitations that may exist in your area.	_____	_____
10. Learn the length of gestation and intervals of heat periods of goats or cattle and how to figure freshening dates.	_____	_____

STEP VI

You must complete all five skill options and five personal development options to pass Step VI.

Skill Options	Date Passed	Approved By
1. Report on how milk is processed from the farm to the store, according to regulations.	_____	_____
2. Grade A milk is marketed in three classes. Explain which dairy products come from each class.	_____	_____
3. Each month the Federal Milk Order Administration publishes a price for each class of milk and an average price for all milk. How does each producer's receipt per 100 pounds relate to the average price?	_____	_____
4. Indicate which of the following functions are performed by the Federal Milk Order Administration, the Milk Stabilization Division of the State Department of Agriculture, or the producer marketing cooperative.	_____	_____
A. Determines the Class III price of milk.	_____	_____
B. Collects money from milk processors and handlers.	_____	_____
C. Determines the price of quota milk.	_____	_____
D. Performs butterfat testing service for producers.	_____	_____
E. Determines the percent of parity at which to support manufactured products.	_____	_____
F. Collects and processes surplus milk.	_____	_____
G. Coordinates movement of milk to its logical destination of highest value.	_____	_____
H. Provides the trucking to move producer milk.	_____	_____
I. Determines the amount of base and excess milk for each producer.	_____	_____
5. Describe the functions of the following agencies:		
A. Washington Dairy Products Commission	_____	_____
B. Washington Dairy Council	_____	_____
C. Washington Dairy Association	_____	_____
D. Dairy and Consumer Service Division of the State Department of Agriculture	_____	_____

PERSONAL DEVELOPMENT OPTIONS

1. Lead the Pledge of Allegiance and 4-H Pledge at a 4-H meeting.
2. Lead a song or a game at a 4-H meeting.
3. Preside at a meeting of your 4-H club.
4. Write a news story for a local paper.
5. Participate in a radio or television program.
6. Present a demonstration or illustrated talk to your club.
7. Present a demonstration or illustrated talk to a group other than your 4-H club.
8. Host a 4-H meeting. See that everyone is welcomed and made comfortable.
9. Participate in a community service project.
10. Chair a club committee.
11. Participate in a judging contest.
12. Serve as a junior leader.
13. Serve as a teen leader.
14. Attend 4-H camp.
15. Attend a Statewide 4-H Teen Workshop.
16. Serve as clerk, chair, or apprentice judge at a 4-H show.
17. Develop and exhibit a science display related to dairy cattle or goats.
18. Serve as a camp counselor.
19. Make arrangements for a tour by your club.
20. Arrange for a film to be shown at your club meetings.
21. Secure a speaker to talk at your club meeting.
22. Develop some options of your own with your parents' and leader's guidance.
23. Participate in a "bowl" contest.
24. Visit an agricultural processing plant.
25. Complete your 4-H Record Book.
26. Attend a field day.
27. Explore a career and report back to your club or leader.
28. Be a big brother or sister to a new 4-H member.

REFERENCES

Use these references to get information for the skill options.

Dairy Cow References

4H0078L	N4HCCS Dairy Cattle Series <i>Dairy Cow Unified Score Card</i>	www.4hccsprojects.com/dairycattle
EB0518	<i>Tying Rope Halters</i>	
PNW0091	<i>4-H Dairy Science</i>	
EB1032	<i>Hoof Trimming for Show and Health</i>	
EB1031	<i>Flush Cleaning Dairy Facilities</i>	
EM2797	<i>Selecting the 4-H Dairy Calf</i>	
PNW0113	<i>4-H Dairy Leader Guide</i> Washington State RCW 15.36 Milk & Milk Products	
MWPS0007	Dairy Freestall Housing and Equipment Handbook—National Publication available through Iowa State Extension Service Marketing Bulletin 27. Published by the Federal Milk Market Association	

Dairy Goat References

N4HCCS	Dairy Goat Series	www.4hccsprojects.com/dairygoat
EB0518	<i>Tying Rope Halters</i>	
PNW0091	<i>4-H Dairy Science</i>	
EM4425	<i>Goat Project, Leader Guide</i>	
EM4894	<i>Your Dairy Goat</i>	
EM4781	<i>Dairy Goat Show Procedures</i>	

Agency References

Washington Dairy Products Commission	www.wnpa.com/foodsafetyforum/ag_c_c/dairy.html
Washington Dairy Council	www.eatsmart.org
Washington State Dairy Federation	www.wadairyfederation.org
Dairy and Food Division	agr.wa.gov/FoodAnimal/Dairy/default.htm
Agricultural Marketing Service—Dairy Division	www.ams.usda.gov/dairy



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