Owning a Dairy Cow or Goat

H.P. Adams, F. Bodyfelt, and M. Gamroth

People living in the suburbs and owning a small acreage often select dairy cattle or dairy goats as a means of harvesting and using their forage. Milk production can reduce the family grocery bill. Goats, especially, will help control brush and weeds and keep the area from becoming unsightly.

If you already own a cow or goat, this publication will give you information about caring for your animal and using the milk produced. If you are still choosing, remember there is a tremendous variation in the capacity of individual dairy cows and goats to produce milk.

Selecting animals

Buy animals from a producer who keeps production records. Select an animal with the desired level of production, or a calf or kid from a dam (female parent) with an acceptable production record. In most cases, a long milk production period is more important for family use than very high production. An animal with poor lactation abilities that milks for only a short period after calving often will cost more to keep than the value of the milk produced.

Choose the proper size. A big cow, such as a Holstein, will eat much more than a smaller cow such as a Jersey. A goat requires much less forage than any cow. To estimate forage needs, a milking animal will eat about 3 percent of her body weight in air-dry feed daily. For example, a 1,000-pound cow will need 30 pounds of hay or pasture dry matter per day. Select the most appropriate animal to meet family needs, using the pasture supply you have available. In addition, a cow may need supplemental grain or purchased feed daily for highest milk production.

Feeding

There are many bulletins and books on feeding dairy animals. Extension agents, feed suppliers, and others can give advice for your specific situation. A well-fed animal will produce more milk than one fed poorly. Often, when family cow produces more milk than needed, her production can be adjusted downward by reducing her grain ration. This may be desirable when the extra milk cannot be used, but there are limits, of course, and you cannot stop production during your vacation.

Breeding

Cows or goats should be bred to calve (or kid) at approximately 12-month intervals. You may breed them to your own or a neighbor’s males, or you can be more sure of top quality by using an insemination service. Semen and insemination services are available through several businesses. The use of their service ensures superior, disease-free semen, and eliminates the necessity of keeping a male. Your county agent of the OSU Extension Service can provide addresses and telephone numbers of the semen services in your area.

Use of the milk produced

One problem in keeping a family cow or goat is that often more milk is produced than the family can use. Some would like to sell this surplus. There are provisions to allow the owners of not more than two producing cows or three producing goats to sell their surplus milk. Before planning to sell, however, you should apply to:

- Division of Food and Dairy
  Oregon Department of Agriculture
  635 Capitol Street N.E.
  Salem, Oregon 97310
  503-986-4720

To sell fluid milk, the producer must be licensed and must meet sanitation and structural requirements for the milking area and milk room to ensure high-quality, safe milk. Unless you can meet these requirements, you will have to find other ways to use surplus milk. A few suggestions follow.

Fluid milk

Fluid milk is the simplest and most obvious way to use surplus milk. All milk, even from your own cow or goat, should be pasteurized. Even if your cows or goats are tested and known to be free of brucellosis or tuberculosis, milk can be a dangerous medium for the transfer of other disease organisms such as E. coli.

Milk also can transfer diseases from one person to another, such as from the milker to the consumer. Typhoid fever, septic sore throat, paratyphoid fever, scarlet fever, and gastroenteritis can be transferred by milk. All of these organisms are readily destroyed by pasteurization.

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Cream is at a temperature of 54 to 58 °F and liquid buttermilk separate out. Churning, butter granules should form into the cream and causes it to increase one-half full. Churning incorporates air paddles. Fill the churn only one-third to form butter granules (about pea size). In the cream adhere to each other and cream until the tiny globules of milk fatmeans to aerate, dash, or agitate the cream skimmings for 3 to 4 days before soured exhibits a strong off-flavor and is from pasteurized sweet cream. Butter Making butter at home sanitizers only as directed. Out of reach of children, and use the chemicals, store sanitizer concentrates available from most farm or dairy supply stores or mail order firms. Follow instructions on the container. As with other household and farm cleanliness in all phases of milking and milk handling is important. Churns, separators, and milk handling equipment should be washed thoroughly and sanitized with chlorine (bleach) or iodophor (iodine) solution. These are available from most farm or dairy supply stores or mail order firms. Follow instructions on the container. As with other household and farm cleanliness, store sanitizer concentrates out of reach of children, and use the sanitizers only as directed. Making butter at home You can make high-quality butter from pasteurized sweet cream. Butter made from old cream or cream that has soured exhibits a strong off-flavor and does not keep well. Save the well-cooled cream skimmings for 3 to 4 days before churning. Churning uses mechanical to asphalt, dash, or agitate the cream until the tiny globules of milk fat in the cream adhere to each other to form butter granules (about pea size). The most common churn for making small quantities of butter is a gallon glass churn equipped with wooden paddles. Fill the churn one-third to one-half full. Churning incorporates air into the cream and causes it to increase in volume from 30 to 40 percent of churning. Butter granules should form and liquid buttermilk separate out. Butter granules form best when the cream is at a temperature of 60 °F in summer and 56 to 62 °F in winter. Stop churning when the butter granules are about the size of corn kernels. Remove the granules of butter from the buttermilk and wash them with water about the same temperature as the buttermilk or slightly cooler. After draining the waste water, add salt at the rate of 1 tablespoon to each pound of butter. Then work the butter with a paddle until the salt is evenly distributed and the buttermilk is extracted. Since goat cream does not separate from milk by itself, it is necessary to use a cream separator to make goat butter. Homemade yogurt For 3-plus quarts of yogurt, prepare the yogurt base in a 4-quart saucepan or double boiler: 3 quarts of fresh whole milk or nonfat milk 1 1/2 cups of nonfat dry milk or 1 can of evaporated milk Heat the yogurt base to 180 °F and hold for 10 to 15 minutes. This changes the properties of the milk protein and results in a creamier, more custard-like body and texture in the finished product. As the heated milk falls to 110 °F, (You'll need a good thermometer.) Heat the tempered milk with approximately 1/2 cup plain commercial yogurt or your own yogurt starter. Pour into clean, sanitized jars or cheese cartons. Incubation and when transferring to the yogurt base in the late stages of incubation. Yogurt should keep for 1 to 2 weeks, depending on the degree of care exercised in preparing it. Use of well-cleaned, sanitized containers will greatly aid shelf-life. You can make a number of different types of cheeses at home. Obtain instructions from your local Extension office. Animal feed You can use excess milk for animal feeds. A few suggestions: • Calves or kids. Milk is, of course, the natural food for calves or kids. It should be limited to 8 percent of the body weight of young calves or kids, to avoid digestive disturbances. • Pigs. Skimmed milk, buttermilk, and whey are excellent feed. • Chickens. Milk is an excellent feed supplement for chicks. However, it is somewhat laxative and may cause wet litter when birds are confined. • Miscellaneous. You can feed milk to a variety of young animals such as puppies, lambs, foals, and kittens. If puppies develop diarrhea, stop feeding them milk until the stool is normal.

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