Farm Structures FACTSHEET



Order No. 320.000-4 CPS: 2000 July 1985

DAIRY CATTLE HOUSING AND EQUIPMENT

	PLAN 320-00
DAIRY CATTLE HOUSING AN	ID EQUIPMENT
CPS PLAN 2000	GOMPLETE INSTRUCTIONS
REV. 85:07	with a good gravel base. Consider a circular driveway if milk is shipped in bulk. The truck driver should not
Good dairy housing is important for quality milk pro- duction. A well-designed barn provides a clean, com- fortable home for the herd and a pleasant, efficient workplace for the operator.	have to open or close gates or back up to load. Build the barn close to pasture lanes and where it gives easy access to the house and other work areas.
Plan carefully for the storage and handling of milk,	Remember, if you raise your own replacement stock,
rian carefully for the storage and handling of milk, feed, bedding and manure, as these account for most of your labor. Also remember that a dairy building must satisfy a number of regulations; investigate these before construction begins.	you'll have twice as many animals and will need calf barns, maternity areas, dry cow housing, and storage for bedding, feed and manure. Based on the number of milking cows, you can estimate the additional animals you'll need for replacements as follows:
Make sure you have a plentiful, dependable supply of	Heifer calves (0-3 months) 12% Bull calves (0-3 months, if housed) 12%
good water, made available 24 h a day. A lactating cow	- Heifers (3-10 months) 20%
will drink 135 L (30 gal) a day. The ideal water tem- perature is about 5-10°C. Supply pipes buried deep in the ground will help keep the water cool in summer and prevent freezing in winter. Use automatic heating	— Heifers (10 months-2 years) 35% — Heifers (2 years to freshening) 0-20% — Dry cows 12%
(1) the water is located where it might freeze. Provide 0.1 m^2 (1 sq ft) of watering tank surface for every 50 head.	HOUSING SYSTEMS Barns must protect cows from wind, moisture and extreme temperatures. Whether you choose warm or
A large, mechanized operation also needs dependable electrical power plus a standby system.	cold housing, or loose tie-stall or free-stall manage- ment depends on the size of your operation, avail- ability of bedding, climate, existing facilities, the degree of mechanization and personal preferences.
SITE SELECTION	
Choose a high, relatively level, well-drained site that will allow future building expansion. Build the floors above ground level to keep out runoff water.	Warm housing is kept no cooler than 4°C (40°F) in winter. It must be well-insulated to retain animal heat. Ventilation (either fan-powered or automated natural ventilation) removes excess moisture in the winter and excess heat in the summer.
Where possible, pick a site that allows good snow and vind control. You may have to add windbreaks and	Cold housing in winter is only slightly warmer than
now-and wind-control fences.	outdoors. Natural ventilation removes moisture and
ocate the milkhouse and/or milk parlor on the north or	keeps the barn temperature about 5-10°C above that outside. Insulation under the roof reduces con-
ast side of the barn to reduce the summer heat load. ocate yards where they are exposed to winter sun- ight; those facing south or southeast thaw and dry aster, so are easier to manage.	densation in winter and heat buildup in summer. Cold barns cost less than warm barns but their watering systems must be protected against freezing.
The barn should be served by a good all-weather drive- vay, or border on a high, well-drained service yard	The three basic housing systems are tie-stall, free-stall and loose. Tie-stalls are the most common in Canada. Each cow has a separate stall that permits individual
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righteritarian Eligilie	ering Flan Service

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