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# FACTSHEET

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## Title: Body Condition Scoring of Dairy Cattle

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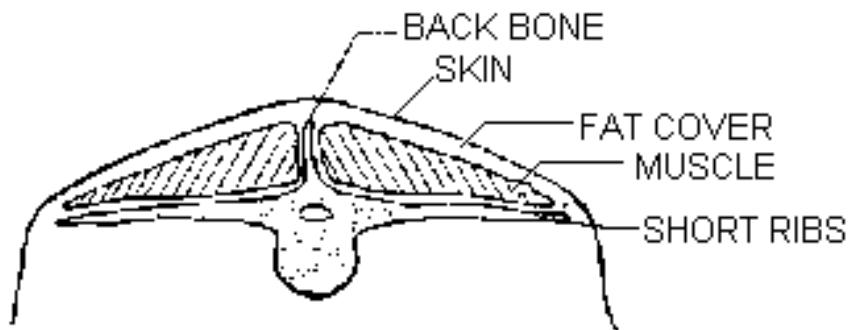
### Introduction

Every dairy producer has cattle that are too fat or too thin for their stage of lactation. Failure to recognize these cows and take action costs dearly for disease treatments, lost milk production, and decreased fertility. This Factsheet describes how to score the body condition of cows and compare them to normal scores for various stages of lactation. The system described here was developed by E.E. Wildman, University of Vermont.

Body condition is a reflection of the body fat reserves carried by the animal. These reserves can be used by the cow in periods when she is unable to eat enough to satisfy her energy needs. In high producing cows, this normally happens during early lactation, but it may also happen when cows get sick, are fed poor quality feeds, or feed intake is restricted. After a period of weight loss, cows should be fed more than their requirements to restore normal body condition.

Cows should be scored both by looking at, and handling the backbone, loin and rump areas. Since the pin bone, hip bone, the top of the backbone, and the ends of the short ribs do not have muscle tissue covering them, any covering you see or feel is the combination of skin and fat deposits.

**Figure 1.** Only skin and fat cover the backbone and ends of the short ribs, making these ideal locations to assess body condition.



Assessing condition by handling is quite easy. Press the fingertips against the backbone, pin bone and hip bone. Grip the loin of the cow where the short ribs project from the backbone, just ahead of the hips, with your fingers on top of the loin, and the thumb curved around the ends of the short ribs. Fingertip pressure will provide a good indication of the amount of fat cover.

Condition scoring should be done by the person responsible for feeding the herd. To keep the scores "standardized", regularly refer back to the standards outlined in this Factsheet, and discuss condition scores with your nutrition advisors and herd veterinarian.

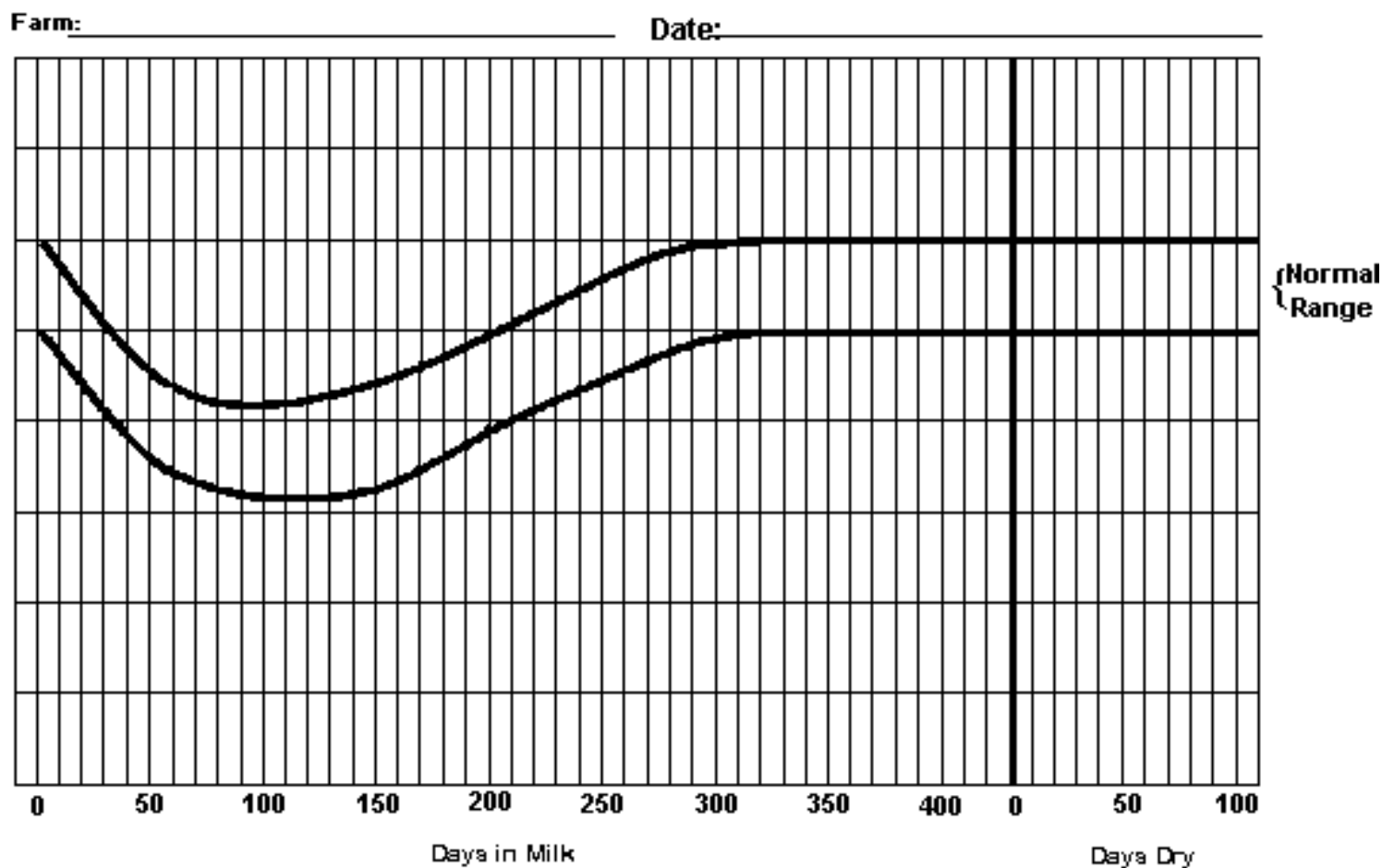
Cows should be scored regularly to reflect changes in fat reserves in each stage of lactation. Ideally all cows should be scored at the beginning and end of their dry period and at least 4 or 5 times during lactation. Scores should be evaluated based on stage of lactation (days in milk or days dry). In more sophisticated systems such as computerized records, the days to next calving should also be monitored. One convenient way to do this is to record condition scores on the edge of the Ontario Dairy Herd Improvement herd report after each test day. This provides a single reference to cow identification, days in milk, production level, and condition score, thereby including all the information needed to set feeding levels for individual cows. To analyze condition scores for a herd, or for a cow throughout a lactation, the individual scores can be plotted on the chart on the back page of this Factsheet. Notations such as lactation number, production level or health problems can be added above plotted points to improve interpretation of the chart.

Condition scores range from 1, a very thin cow with no fat reserves, to 5, a severely overconditioned cow. Ideal condition scores fall in the range of 3.5-4.0 at dry off and calving and 2.5-3.0, at peak lactation, with no cows changing by more than 1 condition score class over any lactation period. Refer to OMAFRA Factsheet, "Using Body Condition Scoring in Dairy Herd Management", Agdex 410/20 for more information on interpreting herd scores. Descriptions of the 5 condition score classes follow.

With practice, "hands on" scoring of the herd takes only 10-15 seconds per cow and provides a wealth of information. To monitor the results of your feeding and management program put a regular body condition scoring routine to work in your herd.

**Figure 2.** Dairy Herd Body Condition Score Chart. Plot individual cows on this chart according to stage of lactation. The chart can be used to profile a herd at one point in time or to monitor changes over a lactation for an individual cow.

## Dairy Herd Body Condition Score Chart



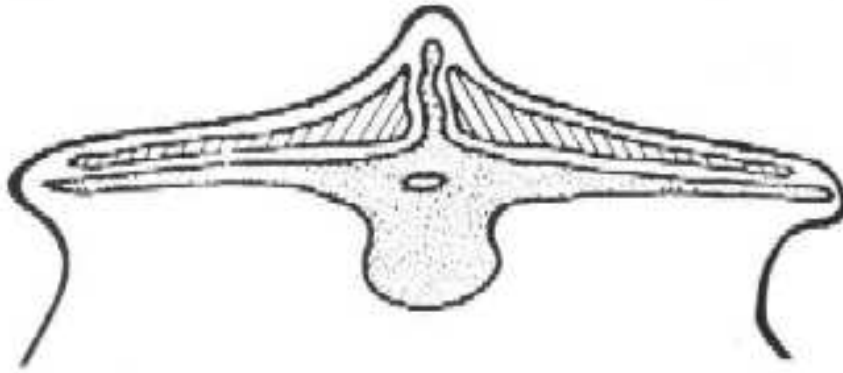
Plot individual cows on this chart according to stage of lactation. The chart can be used to profile a herd at one point in time or to monitor changes over a lactation for an individual cow.

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## Condition Score 1

This cow is emaciated. The ends of the short ribs are sharp to the touch and together give a prominent shelf-like appearance to the loin. The individual vertebrae (spinous processes) of the backbone are prominent. The hook and pin bones are sharply defined. The thurl region and thighs are sunken and in-curving. The anal area has receded and the vulva appears prominent.

Figure 3 - Condition Score 1



**Photo 1 - Condition Score 1 (emaciated cow)**



This cow is thin. The ends of the short ribs can be felt but they and the individual vertebrae are less visibly prominent. The short ribs do not form as obvious an overhang or shelf effect. The hook and pin bones are prominent but the depression of the thurl region between them is less severe. The area around the anus is less sunken and the vulva less prominent.