

# Dairy Production Primer

## features

Dairy Production Primer modules are presented in *portable document format* (Adobe PDF®). PDF allows for easy navigation through the document on any computer, using Adobe Acrobat Reader®, a program which is freely distributed by Adobe Systems Inc. and included with each Dairy Production Primer CD. In addition, Acrobat Reader® makes it possible to search documents for keywords, to print them from any computer to any printer and to post them on an internet World Wide Web site for remote access.



A special feature of the compact disc (CD) version of Dairy Production Primer is the inclusion of Alberta Green Certificate Curriculum Guides for both Dairy Production Technician and Dairy Production Supervisor Certificates, including training objectives in the areas covered by each module. Hyperlinks between the Curricula, Training Objectives and module content make it easy to find relevant information.

All three Dairy Production Primer modules are extensively illustrated with full-colour diagrams and photographs. In addition, the Herd Health and Breeding Management modules feature full-motion video clips which enhance the information contained in the text.

Dairy Production Primer modules can be ordered in either CD (\$19.95 + \$1.40 GST + \$1.55 postage = \$22.90) or print (\$49.95 + \$3.50 GST + \$5.00 postage = \$58.45) format. Send your order and cheque to:

Dairy Production Primer  
Western Dairy Science, Inc.  
14904 - 121A Avenue NW  
Edmonton AB T5V 1A3

# Western Dairy Science Inc.

## Who We Are and What We Do

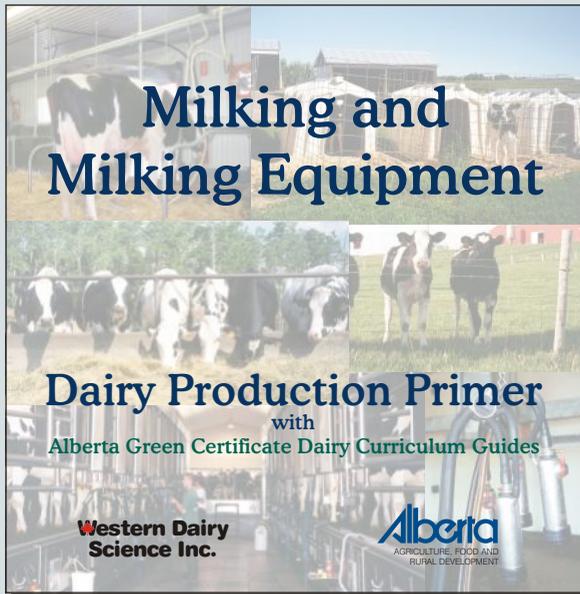
Western Dairy Science, Inc. (WDSI) is a non-profit company, incorporated in 2000 under the Companies Act (Alberta). WDSI is the successor to the Alberta Dairy Extension Advisory Group, an ad hoc industry committee set up in 1992 to assume responsibility for producer extension activities after the termination of those activities by Alberta Agriculture. The WDSI Board represents Alberta Milk Producers (3 members), Western Canadian Dairy Herd Improvement Services, Alberta Agriculture, Food and Rural Development, the University of Alberta, Lakeland College, Agriculture and Agri-Food Canada, the Alberta Veterinary Medical Association, the Animal Nutrition Association of Canada and Alberta Dairy Council. WDSI provides information services to dairy producers including:

- *Western Dairy Digest*, a quarterly magazine distributed free to all milk producers in Western Canada, summarizing current production, research and industry information.
- *1(877)Dairy21*, a toll-free telephone service encouraging Western Canadian milk producers and their advisors to access services provided by WDSI.
- *western dairyscience.com*, the Western Dairy Science website which hosts production and research articles, quota management calculators for Alberta producers and links to other dairy websites.
- *Dairy Production Primer*, a CD-based training resource containing basic concepts of dairy production in a series of linked modules. Module content is tightly integrated with Alberta Green Certificate curriculum guides and learning objectives.
- A *Matching Grants Program* which stimulates the organization of local dairy seminars, workshops and other dairy production extension events in Alberta.
- The *Winter Seminar Series* which delivers information of current interest to producers across Alberta who are unable to attend the Western Canadian Dairy Seminar.
- Western Dairy Science is a principle sponsor of the annual *Western Canadian Dairy Seminar*.

# Dairy Production Primer

a training resource  
for the herdsman  
and farm manager

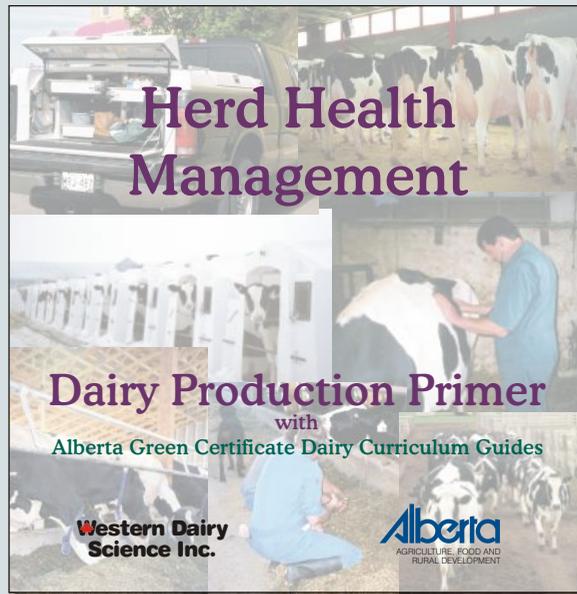
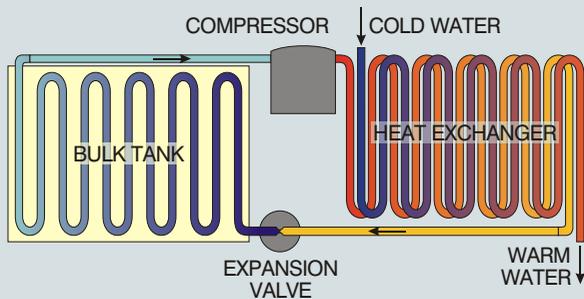
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The Milking & Milking Equipment module is designed for those wanting to learn about:

- mammary gland anatomy and the physiology of milk production and release;
- the principles behind milking practices; • components of the milking system;
- milking system troubleshooting and maintenance;
- objectives of milking schedules and routines;
- maintaining milk quality and udder health.

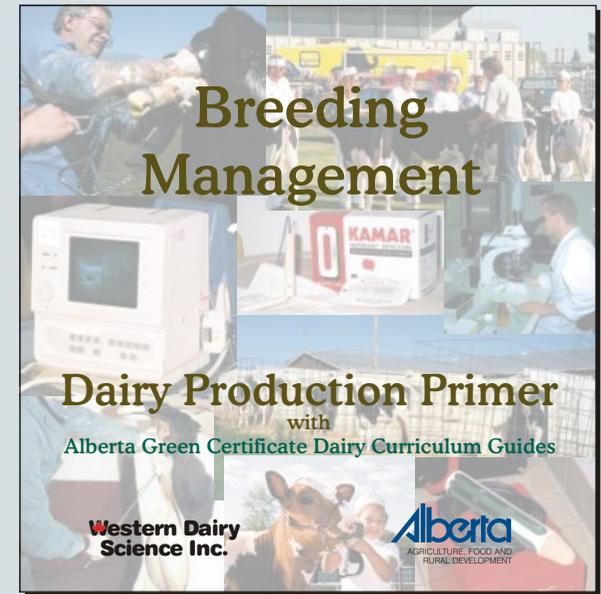
Milking & Milking Equipment is extensively illustrated with full-colour photographs and graphics showing components of the milking system and the way they work together.



Herd Health Management is designed to help the herdsman and manager to work more effectively with the herd veterinarian. Content includes:

- principles of health and disease - signs of good health, effects of environment and nutrition on health, resistance to disease, types of diseases;
- biosecurity - minimizing the introduction and spread of disease;
- vaccination to prevent disease - vaccine types, vaccination programs;
- diagnosis of disease - working with the herd veterinarian to determine the causes of herd health problems;
- treatment of disease - animal restraint; drug types, selection, storage and administration;
- prevention of drug residues in milk;
- an explanation of antibiotic resistance;
- an extensive glossary of veterinary terms which will help managers and herdsmen to communicate with the herd veterinarian.

A 'disease finder' program helps the user to identify problems based on animal class and signs of disease and leads to brief, well illustrated descriptions of 80 common diseases and disorders of dairy cattle.



The Breeding Management module covers all of the basic information required to understand, design and implement a dairy cattle breeding program, including:

- principles of reproduction - the basics of anatomy and physiology;
- reproductive management - how to maintain high conception rates;
- understanding and interpreting Canadian sire proofs and pedigrees;
- selection of sires based on production, management and conformation traits and inbreeding;
- embryo transfer;
- semen handling, collection and storage;
- heat detection, AI timing and technique;
- timed insemination protocols;
- pregnancy confirmation and measures of breeding success;
- breeding records and software;
- working through difficult calvings.

A special feature of the Breeding Management CD is a 14 minute video clip provided by SelectSires, Inc., showing proper AI procedures with a combination of live and animated segments.