

DAIRY FARMING

TRAINING MATERIALS preview

Environmental
Management

Fertility &
Breeding

Animal Health
& Welfare

Housing

Farm
Management &
Economics

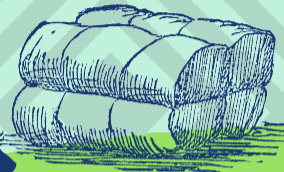
Nutrition,
Feed &
Fodder

Milk Quality &
Productivity

Farming
Technology &
Innovation

Herd
Management

General Good
Practices





GENERAL GOOD PRACTICES

BASIC

Title	Description content	Trainer / organizer	Contact to access
Dairy Farmers Training Manual	Print: Extensive manual targeting smallholder dairy farmers; covers all managerial aspects of dairy farming	USAID	

ADVANCED

Title	Description content	Trainer / organizer	Contact to access
Guide to good dairy farming practice	Print: gives individual dairy farmers proactive guidance on how to combine profitability with the responsibility of protecting human health, animal health, animal welfare and the environment. No specific focus on East Africa; and more suitable for trainers	FAO	
Effectiveness Agriculture Development Training	Print: Oriented process designed to ensure that training is both relevant and effective	Faculty of Agriculture, Department of Rural Development and Agricultural Extension (RDAE)	



ENVIRONMENTAL MANAGEMENT

BASIC

Title	Description content	Trainer / organizer	Contact to access

ADVANCED

Title	Description content	Trainer / organizer	Contact to access
Manure Management in the (Sub-) Tropics: Training Manual for Extension Workers	Print: training manual on manure management in the (sub-)tropics including biogas and composting	E. Teenstra, F. De Buissonjé, A. Ndambi, D. Pelster	



HERD MANAGEMENT

BASIC

Title	Description content	Trainer / organizer	Contact to access
Calf Rearing Guide	Print: one-page flyer summarizing recommended calf rearing practices without too much detail	Land O'Lakes	
Calf rearing	Print: Practical and simple to understand manual covering the period from pre-birth to about six months on stallholder farms with zero grazing; includes calf pen design	?	
Calf rearing	Print: telegram style manual on young calf rearing for smallholder dairy farmers	SNV	
Planning activities young stock rearing	Print: Checklist for calf rearing activities; only about the what, not about the how	?	
Measurements Young Stock Rearing	Print: Very simple form to register girth width of young stock as indicator for the farm advisor, does not refer to body weight and does not deal with race differences. Useful as an example	?	
Record keeping	Print: telegram style manual on record keeping for dairy farmers including examples of recording forms	SNV	

ADVANCED

Title	Description content	Trainer / organizer	Contact to access
Checklist Assignment Young Stock Rearing	Print: form for advisors to tick boxes referring to housing, and rearing management during a farm visit	?	
Calf rearing	Slides: on calf rearing with some useful images for re-use in other training material; final presentation of intern period	SNV - student VHL	

Rearing young ruminants on milk replacers and starter feed	Print: Reference manual on the preparation and feeding of milk replacers and starter feeds for young ruminants before activation of rumination; presents the general principles and some examples that are relevant to developing countries, but does not deal with all variations across different regions.	FAO	
Record Keeping	Slides: on Record Keeping to manage efficiently and to increase profit summarizing what should be recorded but not how	DairyBISS (Ethiopia)	
Growth young stock	Spread sheet calculating body weight development of young stock from 100 days onwards and using a maximum of 8 different periods with different feed and fodder; it also allows stock to lose weight when the ration is not sufficient for growth. (based on the Dutch young stock growth model)	Eddy Teenstra, WLR	



FERTILITY & BREEDING

BASIC

Title	Description content	Trainer / organizer	Contact to access
Dairy Breeding Guide	Print: one-page flyer; Basic Dairy Breeding Guide with methods, traits and heat signs	Land O'Lakes (Tanzania Dairy Development Program)	
Fertility	Print: well-illustrated brochure on all aspects of cattle fertility	SNV-PDTC	

ADVANCED

Title	Description content	Trainer / organizer	Contact to access
Breeding and Fertility in Cattle	Print: ppt handout on Breeding and Fertility in Cattle consisting of Breeding Goal, How to reach a Breeding Goal, Heritability, Phenotype, Selection, and Selection criteria	DairyBISS (Ethiopia)	
Fertility and Breeding	Slides: Training to gain knowledge of: Reproductive tract, Heat signs, Heat cycle, Insemination moment, Fertility management	DairyBISS (Ethiopia)	
AI Techniques	Print: handout ppt slides on AI	DairyBISS (Ethiopia)	
Artificial Insemination Instructional Video	Video: on Reproductive tract, Heat signs, Heat cycle, Insemination moment, Fertility management (English spoken)	Alta Genetics	
Pregnancy Diagnosis	Print: ppt handout on how to diagnose a cow for pregnancy	DairyBISS (Ethiopia)	



ANIMAL HEALTH & WELFARE

BASIC

Title	Description content	Trainer / organizer	Contact to access
Animal Health	Print: ppt with health symptoms including checklist physical condition	The Friesian	
Checkpoints Health and Welfare bad cow_	Print: single poster showing abnormalities of cows	Cow Signals	
Checkpoints Health and Welfare good cow_	Print: single poster showing characteristics of healthy cows	Cow Signals	
Health care	Print: ppt health care of cattle, adapted to Africa	SNV (PDTC)	
Clean Milk Production	Slides: ppt with basics on milking, storage, equipment	Abebe Tessema	

ADVANCED

Title	Description content	Trainer / organizer	Contact to access
Cattle diseases	Print: ppt with general diseases non-specific for Africa	The Friesian	
Major dairy cattle health problems	Slides: ppt with summary of endemic African diseases	DairyBISS (Ethiopia)	
Fresh cow management	Slides: too technical; includes introduction Body Condition Score (BCS)	Ato Tamrat & Abebe Tessema	
Body Condition Score	Print: Body Condition Score (BCS) simple step by step	Penn State University	



NUTRITION, FEED & FODDER

BASIC

Title	Description content	Trainer / organizer	Contact to access
Feeding calves	Print: one-page excursion handout with feeding schemes and rations for calves before and after weaning and for non-lactating cattle	Alfa farms Ethiopia	
Feeding Manual	Print: Feeding dairy cattle; a manual for smallholder dairy farmers and extension workers in East Africa; basic but extensive	ILRI	
Dairy Feeding Manual	Print: Feeding dairy cattle in East Africa; manual on feeding dairy cows for the farmer, extension worker and student; it covers information on the basic nutrients a dairy cow requires, the available feed resources that provide these nutrients and practical aspects of feeding the animals	East Africa Dairy Development project	
Nutrition and feeding	Print: telegram style summary on the basics of nutrition and feeding of dairy cattle including keeping records on cutting napier and concentrate uptake	SNV	
Management of Napier	Print: telegram style summary on the basics of cultivating and silage making of napier grass	SNV	
Silage Guide	Print: one-page flyer introducing above ground silage and pit silage	Land O'Lakes (Tanzania Dairy Development Program)	

ADVANCED

Title	Description content	Trainer / organizer	Contact to access
Feeding Dairy Cows	Slides: with principles of feeding dairy cattle includes rumen score, dung score and body condition score (these are easy to convert into separate files)	G. Wassink / Ato Abebe (DairyBISS)	
Densified feed blocks	Print: Crop residue based densified total mixed ration; a user-friendly approach to utilize food crop by-products for ruminant production; an Indian developed technology for making feeding blocks	FAO	
Fodder Manual	Print: Fodder and Fodder Seed Production Manual for trainers and extension agents to use as a reference to help provide evidence-based fodder production planning, growing, harvesting, storage and utilization.	Land O'Lakes	



MILK QUALITY & PRODUCTIVITY

BASIC

Title	Description content	Trainer / organizer	Contact to access
Milking technique	Print: ppt step by step on hand milking	The Friesian	
Manual milking	Print: step by step on hand milking with graphics	Eddy Teenstra, WLR	
Hygienic milk production	Print: Well-structured step by step manual for hand milking	SNV	
Milk Quality Guide	Print: one-page flyer on hand milking and the steps before, during and after	Land O'Lakes	
Milk processing	Slides: schematic break down of milk into different dairy products	Eddy Teenstra, WLR	
Chilling with solar power	Print: article on the use of solar power to chill milk	Eddy Teenstra, WLR	

ADVANCED

Title	Description content	Trainer / organizer	Contact to access
Problem Tree Milk Quality	Slide: Problem Tree Milk Quality Ethiopia with cause-effect relations (adjustable ppt version)	Eddy Teenstra, WLR	
Milk Hot Holding System	Print: The Milk Hot-Holding System; Collective observations and recommendations	Global Good	
Milk Quality Train Guide	Training guide for small-scale milk market traders in Kenya	FAO	
Milk testing and payment system Resource Book	Print: practical guide to assist milk producer groups (89 pages)	FAO, Jurjen Draaijer	
Milk Producer Group Resource Book	Print: practical guide to assist milk producer groups (95 pages)	FAO, Jurjen Draaijer	
Mozzarella	Manual on the production of traditional buffalo mozzarella cheese (56 pages)	Matilde Calandrelli, source unknown	



FARM MANAGEMENT & ECONOMICS

BASIC

Title	Description content	Trainer / organizer	Contact to access
Dairynomics <ul style="list-style-type: none">- Module 1 - Daily registration- Module 2 - Milk Records- Module 3 - Cow card- Module 4 - Feed & fodder- Module 5 - Financials- Summary	Print: Dairynomics is a Mobile phone App with Web interface developed for the purposes of analyzing the cost price of raw milk and dairy farm profitability in this the farm. It consists of 5 modules plus a summary	SNV	
Milk testing and payment system Resource Book	Print: practical guide to assist milk producer groups (89 pages)	FAO, Jurjen Draaijer	

ADVANCED

Title	Description content	Trainer / organizer	Contact to access
Dairy management benchmark	Slides: benchmarking dairy farm by using the DLV Dairy Manager; ppt based on Dutch situation	DLV	
Dairy Farm Benchmarking	Print: Dairy Farm Benchmarking is a tool to score farm performance on all farming aspects to reveal points for improvement	Perfometer Dairy Advisory Centre	
Agricultural Producer Organization Manual	Agricultural Producer Organization (AgPrO) Manual; A Field Practitioner's Guide to Cooperative Development	Land O'Lakes	
Dairy Farm Economy; part 1	Print: ppt training dairy farm economy for production advisors	Jelle Zijlstra, WLR	
Dairy Farm Economy; part 2	Print: ppt training dairy farm economy for production advisors	Jelle Zijlstra, WLR	
Economic Strengthening Toolkit	Print: toolkit with tools to support vulnerable households to build assets, income, and livelihoods	Land O'Lakes	
Interview skills	Print: ppt on how to perform an on-farm interview for gathering information	Qpoint	

<u>Business Management for Tropical Dairy Farmers</u>	Book: multipurpose in that it forms the basis for various structured training programs in farm business management	John Moran Published by CSIRO	
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FARMING TECHNOLOGY & INNOVATION

BASIC

Title	Description content	Trainer / organizer	Contact to access

ADVANCED

Title	Description content	Trainer / organizer	Contact to access
Rural dairy technology	Print: extensive training manual on Rural Dairy Technology including equipment, housing, processing methods, and price calculation	ILRI	



HOUSING

BASIC

Title	Description content	Trainer / organizer	Contact to access
Housing	Print: telegram style summary on cattle housing for zero grazing including technical specifications and floor plans	SNV	
Water system	Slides: with simple design to construct free water supply in barns with cemented troughs by a system of communicating vessels and using available local materials	Eddy Teenstra, WLR	
One-calf pen	Slides: showing how to construct a one-calf pen with the use of mainly cheap local materials (metric system)	Eddy Teenstra, WLR	

ADVANCED

Title	Description content	Trainer / organizer	Contact to access
Modular Dairy Cow House	Print: Designing and planning modular dairy cow house; emphasis is on the design and on all other important support functions and structures that are part of a commercial dairy unit. The Handbook follows a modular approach and shows examples of 4 different cow house modules, starting with 20 cows and moving to 40, 60 and up to 80 cows. Including technical drawings	SNV	
Principals of good housing	Print: ppt handout (6/1) on criteria for building large scale cow housing	The Friesian (DairyBISS)	
Cattle Sheds for Medium and Smallholders	Print: of ppt Dairy Cattle Housing; a concept for medium & small-scale family farms with some examples and simple drawings	Wytze Heida, The Friesian (DairyBISS)	
Modular cow barn design for smallholder dairy entrepreneurs	Print: Handbook of 6 modular cow barn designs for smallholder dairy	SNV	

	entrepreneurs with technical characteristics and floor plans		
Cross section smallholder cow barn in steel	Print: One-page technical drawing smallholder cow barn typical module section in steel construction, cross section	SNV	
Cross section smallholder cow barn in wood	Print: One-page technical drawing smallholder cow barn typical module section in wood construction, cross section	SNV	