

# SMALL RUMINANT RESOURCES

Following are many sources of information helpful to producers of small ruminants. Further resources may be available at your county extension office, through your state land grant university, or through your local library.

# ATTRA PUBLICATIONS

The following publications are available from ATTRA. These publications are free of cost. Copies can be requested by calling 800-346-9140 or at our website: http://www.attra.ncat.org

# I. Livestock

# A1) Dairy Sheep

This publication offers additional information resources and includes a guick overview of production considerations.

#### A2) Sustainable Goat Production: Meat Goats

Offers information specific to meat goat production, and should be read after the companion publication, Goats: Sustainable Production Overview. This document discusses selection, breeds, marketing, feeding, profitability, and other topics. It includes sample budgets, case studies of farms in Montana and Missouri, and many further resources.

#### A3) Goats: Sustainable Production Overview

Discusses considerations of raising goats on pasture, including grazing, supplemental feeding, health concerns, reproduction, and management, as well as marketing and profitability.

#### A4) Dairy Goats: Sustainable Production

This publication is intended for those interested in starting a commercial goat dairy. It discusses the five major considerations to be addressed in planning for dairy goat production: labor, sales and marketing, processing, regulations, and bud geting and economics. It includes production information specific to dairy goats, including choosing breeds and selecting stock.

#### A5) Sustainable Sheep Production

This publication takes a look at breed selection, controlled grazing, pasture lambing, alternative health management, and innovative marketing of meat and wool products.

#### A6) Small Ruminant Sustainability Checksheet

This checksheet is designed to stimulate critical thinking when evaluating a farm that produces sheep or goats. The sustainability of a farm depends on many factors involving farm management, use of resources, and quality of life. The questions in the checksheet are intended to stimulate awareness rather than to rate management practices. Use this guide to define areas in your farm management that might be improved, as well as to identify areas of strength.

# II. Health

#### A7) Integrated Parasite Management for Livestock

With parasites developing resistance to all dewormers and more farmers producing livestock by "natural" methods, there is interest in looking for alternative ways to managing parasite problems. This publication offers a systems approach to assess and manage the soil, forages, and animals to decrease internal parasites and their effects.

#### A8) Predator Control for Sustainable & Organic Livestock Production

This publication focuses primarily on the control of coyotes and dogs, which are the main causes of livestock lost to predtion, through management practices, such as fencing and secure areas, and the use of guard animals.

# III. Forages

#### A9) Assessing the Pasture Soil Resources

How to take a soil sample and an easy way to assess soil biological activity and water infiltration. Assessment sheet included.

#### A10) Matching Livestock and Forage Resources

How to manage pastures and grazing animals to make more profitable use of the farm's resources.

#### A11) Meeting the Nutritional Needs of Ruminants on Pasture

Impact of grazing management on nutrition, supplemental feeding on high quality pasture, feed profiling, feed budgeting, matching livestock and forage resources for efficient pasture use.

#### A12) Multispecies Grazing

Brief overview of why multispecies grazing is beneficial, as well as considerations for management.

#### A13) Paddock Design

Basics of paddock design, considerations in fencing and water technology, enclosures.

#### A14) Rotational Grazing

How to manage pastures and grazing animals to make more profitable use of the farm's resources.

#### A15) Sustainable Pasture Management

Managing fertility and pests, grazing systems, conserved forages, maintaining productivity, additional resources.

# Marketing

#### A16) Alternative Meat Marketing

Comprehensive introduction to producer marketing of meat products. Pitfalls, producing and packaging for quality and consistency, direct marketing options, value-added products, food safety and labeling, niche markets, resources.

#### A17) Direct Marketing

This publication on direct marketing alternatives—with emphasis on niche, specialty and value—added crops—features many farm case studies, as well as information on enterprise budgets and promotion/publicity. A new section discusses implications of Internet marketing and e-commerce for agriculture.

#### A18) Evaluating a Rural Enterprise

This publication is for people who already live in rural areas and want to add new enterprises to their operations. Its sections guide the reader in evaluating resources, assessing finances, gathering information, and marketing. It also discusses choosing an "alternative" enterprise and offers further resources.

#### A19) Holistic Management

Introduction to holistic management. Holistic management is a decision-making framework that assists farmers and others in establishing a long-term goal, a detailed financial plan, a biological plan for the landscape, and a monitoring program to assess progress toward the goal. Holistic Management helps managers ask the right questions and guides them in setting priorities.

# A20) Keys to Success in Value-Added Agriculture

This publication presents, largely in the words of fourteen farmers, important lessons they learned in adding value to farm products and marketing directly to consumers.

#### A21) Marketing Strategies for Farmers and Ranchers (SAN publication)

# A22) Overview: Adding Value to Farm Products

This publication introduces the concept of value-added farm products, explains a few of the nuts and bolts for starting a food processing business, and provides resources for additional information.

#### A23) Value-Added Dairy Options

Considerations for those who want to increase profitability by bottling milk, making cheese or yogurt, or doing some other processing of their milk. This publication discusses regulations and organic milk certification and offers resources for further information. Request through 800-line since enclosures are available only with hard copy.

# **BOOKS**

The following books offer useful information on a wide variety of production and marketing issues. These titles may be available through your local library, or may be requested through inter-library loan. Most of these books will be worthwhile purchases for individuals new to sheep or goat production. Previewing the books at a library is the best way to select the titles that will be most useful to you.

Used copies may be available through on-line services or through other booksellers. Many suppliers of sheep and goat equipment also offer books in their catalogs, and titles are available from the publishers as well.

#### I. Goats

#### B1) Meat Goats: Their History, Management, and Diseases.

Mitcham, Stephanie and Allison Mitcham. 2000. Crane Creek Publications, Sumner, IA. 264 p.

A well-written combination of the authors' personal experiences raising goats, veterinary knowledge (Stephanie Mitcham is a DVM), and a compilation of information from other experts in the field. Includes information about handling systems (hard to find elsewhere).

#### **B2) Natural Goat Care**

Coleby, Pat. 2001. Acres U.S.A, Austin, TX. 371 p.

Fascinating book; Australian author pays much attention to nutrition and to maintaining health organically. Call 1-800-355-5313.

#### **B3) Goat Medicine**

Smith, Mary, and David M. Sherman. 1994. Lippincott Williams & Wilkins. Baltimore, MD. 620 p.

This book is recommended as a useful gift for a veterinarian. Very scientific; some of the terminology will only be understood by a veterinarian. Chapter 1 (Fundamentals of Goat Practice) is very helpful to producers as well as veterinarians. Chapter 20 (Herd Health Management and Preventive Medicine) is also very useful to producers.

#### B4) Goat Health Handbook: A Field Guide for Producers with Limited Veterinary Service

Thedford, T.R. 1983. Printed in collaboration with Agricultural Experimental Station, University of Arkansas. 123 p.

Available from:

International Winrock Publication Sales

P.O. Box 9363

Arlington, VA 22209-0363

# **Storey's Guide to Raising Dairy Goats**

(revised and updated; originally called "Raising Milk Goats the Modern Way")

Belanger, Jerry. 2001. Storey Books, Pownal, VT. 288 p.

Very good general book for producers of dairy goats.

# **B6) Goats and Goatkeeping**

Thear, Katie. 1988. Merehurst Press, London. 176 p.

Very interesting book for goat producers, geared for the small farm. Covers milk, meat, and fiber. Practical and concise, very similar to The New Goat Handbook, but with added detail.

#### **B7) The New Goat Handbook**

Jaudas, Ulrich. 1989. Barrons Educational Series, Inc., Hauppauge, NY. 93 p.

A colorful book with many photographs and line drawings. Very interesting and informative.



## **B8)** Goat Husbandry

Mackenzie, David. 1967. Faber and Faber Ltd., London. 368 p.

An older book, can be found in libraries and from sellers of used books. British terminology, very good reading. A classic.

### **B9) Angora Goats the Northern Way**

Drummond, Susan Black. 1988. 2nd edition. Stony Lonesome Farm, 1451 Sisson Rd., Freeport, Michigan, 49325. 203 p.

#### **B10) Raising Goats for Milk and Meat**

Sinn, Rosalee. 1995. Raising Goats for Milk and Meat: A Heifer Project International Training Course. Heifer Project International, Little Rock, AR. 140 p.

Written for persons with limited resources, this is a very practical book. Available through Caprine Supply (among other sources).

#### **B11) The Meat Goats of Caston Creek**

Tomlinson, Sylvia. 1999. Redbud Publishing Co., Edmond, OK. 181 p.

Personal experiences of the author.

Redbud Publishing Co. P.O. Box 4402 Victoria, TX 77903 361-572-8898

# B12) Your Goats: A Kid's Guide to Raising and Showing

Damerow, Gail. 1993. Storey Books, Pownal, VT. 172 p

Gail Damerow writes very good books; this one is easy to understand and very informative. Not just for kids.

# II. Sheep

# **B13) Storey's Guide to Raising Sheep**

Simmons, Paula, and Carol Ekarius. 2001. Storey Books, Pownal, VT. 390 p.

This book is a very useful resource, covering many aspects of raising and marketing sheep and their products. Enjoyable to read, helpful to beginners and to experienced producers.

#### **B14) Turning Wool into a Cottage Industry**

Simmons, Paula. 1991. Storey Books, Pownal, VT. 188 p.

This book is a big help to those who want to use fiber.

# B15) More Sheep, More Grass, More Money

Schroedter, Peter. 1997. Ramshead Publishing Ltd. Moosehorn, Manitoba. p.112

Personal experiences of the author, emphasizing the need to make a profit with the sheep enterprise and giving examples of how to cut costs and increase profits. Emphasis on grazing management. Very practical.

# III. Sheep and Goats

#### B16) Small- Scale Livestock Farming: A Grass Based Approach for Health, Sustainability, and Profit.

Ekarius, Carol. 1999. Storey Books, Pownal, VT. 217 p.

Not specific to any species of livestock; contains farmer profiles and quite a bit of holistic planning and economic information. Very complete in treatment of rotational grazing.

#### **B17) Sheep and Goat Medicine**

Pugh, D.G. 2002. W.B. Saunders Company, Philadelphia, PA. 468 p.

A great gift for a veterinarian. A wealth of information for producers and for veterinarians. Knowledge of veterinary terminology will be helpful in using this book.

# B18) Building a Sustainable Business: A Guide to Developing a Business Plan for Farms and Rural Business

DiGiacomo, Gigi, Robert King, and Dale Nordquist. 2003. Minnesota Institute for Sustainable Agriculture, Saint Paul, MN, and the Sustainable Agriculture Network, Beltsville, MD.

Business planning is an important part of owning and managing a farm. A business plan helps farmers demonstrate that they have fully researched their proposed enterprise; they know how to produce their product, how to sell what they produce, and how to manage financial risk. This comprehensive workbook will guide farmers through every step of the process in creating a business plan. Includes many examples from existing farms. This workbook is a bargain. Available for \$14.00 + \$3.95 S/H by calling 802-656-0484 or 800-909-6472. Publication can also be viewed at <a href="http://www.misa.umn.edu/publications/bizplan.html">http://www.misa.umn.edu/publications/bizplan.html</a>.

#### **B19) A Veterinary Guide for Animal Owners**

Spaulding, C.E. 1976. Rodale Press, Inc., Emmaus, PA. 420 p.

Very readable and practical book, with chapters for cattle, horses, hogs, sheep, goats, dogs, and cats.

#### B20) Keeping Livestock Healthy

Haynes, N. Bruce. 1992. Storey Books, Pownal VT. 322 p.

Covers cattle, horses, swine, sheep and goats. A good book to educate about diseases in general; emphasis on prevention. Most attention is given to large animals.

# B21) ... May Safely Graze: Protecting Livestock Against Predators

Fytche, Eugene. 1998. Published by the author. 103 p.

Available from:

Eugene Fytche

R.R. #1,

Almonte, Ontario. KOA 1AO.

This book explores how to identify and quantify the predator problem, and includes information on many methods to control the problem, including guard animals, fencing, and management.

#### **B22) The Complete Herbal Handbook for Farm and Stable**

Bairacli Levy, Juliette de. 1984. Faber and Faber, Boston, MA. 383 p.

Very interesting book, offering a different perspective on prevention of disease and production of healthy animals without using conventional medicine.

#### **B23) The Dairy Practices Council Small Ruminant Guidelines**

Guidelines for the Dairy Industry Relating to Sanitation and Milk Quality for Small Ruminant Operations. The Dairy Practices Council, 51 East Front Street, Suite 2, Keyport, NJ 07735. Telephone 732-264-2643. <a href="http://www.dairypc.org">http://www.dairypc.org</a>. Set: \$70.00. A set of 17 Guidelines relating to small ruminants; each may also be purchased separately. Very good technical information for commercial producers of dairy sheep and goats.

# **B24) Sheep Housing and Equipment Handbook**

Hirning, Harvey J., Tim C. Faller, Karl J. Hoppe, Dan J. Nudell, and Gary E. Ricketts. 1994. MidWest Plan Service, Ames. IA. 90 p.

# Web Sites

# I. General

W1) USDA

www.usda.gov

W2) NRCS

www.nrcs.usda.gov



# W3) ATTRA—National Sustainable Agriculture Information Service

www.attra.ncat.org



#### W4) Maryland Small Ruminant Page

www.sheepandgoat.com

#### W5) Oklahoma State University

www.ansi.okstate.edu

# W6) Forage Information System, Oregon State University

http://forages.orst.edu/

#### W7) Farm Financial Standards Council Guidelines

www.ffsc.org/html/guidelin.htm

# W8) Measuring and Analyzing Farm Financial Performance, Purdue Extension

www.agecon.purdue.edu/extension/programs/fbm21/Ec712entry.htm

# W9) A PRIMER for Selecting New Enterprises for Your Farm, University of Kentucky Extension

www.uky.edu/Ag/AgEcon/pubs/ext\_aec/ext2000-13.pdf

# II. Goats

# W10) Cyber Goats

www.cybergoat.com

#### W11) Goat Connection

www.goatconnection.com

#### W12) Langston University-E (Kika) de la Garza American Institute for Goat Research

www2.luresext.edu/goats/index.htm

#### W13) Fort Valley State University

Georgia Goat Center Publications- www.ag.fsvu.edu/html/publications/GoatCenter/Publications.htm

Dairy Goat- www.aginfo.fvsu.edu/publicat/commoditysheets/fvsu005.htm

Meat Goat- www.aginfo.fvsu.edu/publicat/commoditysheets/fvsu006.htm

#### W14) North Carolina State University – Extension Animal Husbandry (see Meat Goat)

www.cals.ncsu.edu/an sci/extension/animal/eahmain.html

#### W15) Florida A & M - Goat Program

www.famu.edu/acad/colleges/cesta/goat\_program.html

# W16) The University of Maryland's National Goat Handbook

www.inform.umd.edu/EdRes/Topic/AgrEnv/ndd/goat

# W17) University of California Cooperate Extension

www.vetmed.ucdavis.edu/vetext/INF-GO\_CarePrax2000.pdf

# W18) Empire State Meat Goat Producers Association

www.esmgpa.org/index.cfm

# W19) Meat Goat Home Study Course, Penn State Extension

http://bedford.extension.psu.edu/agriculture/goat/Goat%20Lessons.htm

# W20) Meat Goat Program, Virginia State University

www.vsu.edu/ext/smallruminantprogram/meatgoat/index.htm

#### W21) Boer and meat goat information

www.boergoats.com/



# III. Sheep

# W22) National Sheep Improvement Program www.nsip.org

# W23) American Sheep Industry Association www.sheepusa.org

- W24) Sheep Extension Program, Farm Flock Sheep Production Handbook, Montana State Univ. http://animalrangeextension.montana.edu/Sheep/sheep\_pub.htm
- W25) Sheep Resources, Virginia Polytechnic Institute & State University Extension www.ext.vt.edu/resources
- W26) Sheep Information Cornell University STAR System www.ansci.cornell.edu
- W27) **Sheep Publications, University of Nebraska** www.ianr.unl.edu/pubs/sheep
- W28) **Sheepnet, University of Illinois** http://sheepnet.outreach.uiuc.edu/

# IV. Sheep and Goats

- W29) Association of Small Ruminant Practitioners http://aasrp.org
- W30) Electronic Zoo/Net Vet Veterinary Resources, AVMA Network, Small Ruminants http://netvet.wustl.edu/smrum.htm
- W31) Sheep and Goat Extension and Research, Texas A&M University http://sheepandgoats.tamu.edu
- W32) Northeast Sheep and Goat Marketing Program, Cornell University www.sheepgoatmarketing.org/sgm/index.html
- W33) Clinton County Sheep and Goats, Cornell Cooperative Extension www.cce.cornell.edu/clinton/ag/ag-production.html
- W34) Virginia Livestock Marketing Services www.vdacs.state.va.us/livestock/index.html
- W35) Animal Agriculture Alliance www.soundagscience.org/
- W36) National Institute for Animal Agriculture www.animalagriculture.org/
- W37) Livestock for Landscapes www.livestockforlandscapes.com
- W38) BEHAVE- Behavioral Education for Human Animal Vegetation and Ecosystem Management www.behave.net



#### W39) National Scrapie Education Initiative

www.animalagriculture.org/scrapie

#### W40) FAMACHA Information

www.vet.utk.edu/departments/LACS/pdf/FAMACHA.pdf

#### W41) Pipestone Vet

www.pipevet.com

# **CD-ROMs**

# Multi-Species Grazing and Leafy Spurge

TEAM Leafy Spurge. 2002. USDA-ARS Northern Plains Agriculture Research Laboratory 1500 North Central Avenue Sidney, MT 59270 406-433-2020

#### www.team.ars.usda.gov

This CD provides a variety of useful information about using grazing as an effective, affordable, and sustainable leafy spurge management tool. It contains economic reports, posters, photos, a PowerPoint presentation, extensive bibliography, and more. A great resource.

#### **GOATS!** For Firesafe Homes in Wildland Areas

Kathy Voth 6850 West County Road 24 Loveland, CO 80538

www.livestockforlandscapes.com

This CD/Handbook is designed to provide fire managers, communities, and livestock owners information on using goats to reduce fire danger. It includes expected results, and the "hows" of managing animals, choosing treatment sites, developing contracts for services, estimating costs, and starting projects. This is a great CD with some excellent videos.

# Magazines

#### **Goat Rancher**

Terry Hankins, editor and publisher 731 Sandy Branch Road Sarah, MS 38665 888-562-9529 www.goatrancher.com

#### Sheep! Magazine

W11564 Hwy. 64 Withee, WI 54498 www.sheepmagazine.com

# The Shepherd

5696 Johnston New Washington, OH 44854-9736 419-492-2364 \$25.00 per year. (12 issues)

#### **Meat Goat Monthly**

Ranch Publishing P.O. Box 2678, San Angelo, TX 76902 915-655-4434 www.ranchmagazine.com/mgn.html \$25 per year. (12 issues)

#### The Goat Magazine

9250 New Salem Road Pleasantville, OH 43148-9764 740-468-3000 866-221-GOAT (4628) (toll free) www.goatmagazine.com

#### The Stockman Grass Farmer

P.O. Box 2300 Ridgeland, MS 39158-2300 601-853-1861 \$32.00 per year. (12 issues)

#### **Small Farm Today**

3903 W. Ridge Trail Road Clark, MO 65243-9525 800-633-2535 (toll-free) www.smallfarmtoday.com \$21.00 per year. (6 issues)

#### Spin Off

Interweave Press 201 E. Fourth Street Loveland, CO 80537-5655 www.interweave.com \$24.00 per year. (4 issues)

# **Dairy Goat Journal**

W11564 Hwy 64 Withee, WI 54498 \$21.00 per year or \$35.00 for two years. (bi-monthly)

#### Ranch and Rural Living

P.O. Box 2678 San Angelo, TX 76902 915-655-4434 \$25.00 per year. (12 issues)

#### **Countryside & Small Stock Journal**

W11564 Hwy 64 Withee, WI 54489 800-551-5691 www.countrysidemag.com \$18.00 per year.

### **United Caprine News**

P.O. Box 328 Crowley, TX 76036 817-297-3411 www.unitedcaprinenews.com \$22.50 per year.

# Organizations

# Dairy Sheep Association of North America (DSANA)

Contact: Carol Delaney c/o University of Vermont 270 Main St. 200B Terrill Hall Burlington, VT 05406 Caroldelaney@uvm.edu www.dsana.org

# **American Dairy Goat Association**

209 West Main Street P.O. Box 865 Spindale, NC 28160 828-286-3801 www.adga.org/

### **American Meat Goat Association**

www.meatgoats.com Marvin Shurley P.O. Box 1321 Sonora, TX 76950 915-387-6100 marvin@sonoratx.net

#### **International Goat Association**

HPI/IGA 1015 Louisiana Street Little Rock, AR 72202 501-907-2649 www.iga-goatworld.org

# **American Sheep Industry Association**

6911 S. Yosemite St. Englewood, CO 80112-1414 303-771-3500 www.sheepusa.org



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# Suppliers

# **Caprine Supply**

P.O. Box Y 3301 W. 83rd Street DeSoto, KS 66018 913-585-1191 800-646-7736 (toll-free) http://www.caprinesupply.com

# **Hoegger Supply Company**

160 Providence Road Fayetteville, GA 30215 800-221-4628 (toll-free) www.hoeggergoatsupply.com

#### Sydell

46935 SD Hwy. 50 Burbank, SD 57010-9605 605-624-4538 800-842-1369 (toll-free) www.sydell.com

# **Hamby Dairy Supply**

2402 SW Water Street Maysville, MO 64469-9102 800-306-8937 (toll-free) www.hambydairysource.com

# **Billy Goat Gruff**

P.O. Box 10 Dunnville, KY 42528 www.billygoatgruff.net

#### **NASCO**

901 Janesville Avenue P.O. Box 901 Fort Atkinson, WI 53538-0901 800-558-9595 (toll-free) www.nascofa.com

# **Jeffers Livestock Supply**

P.O. Box 100 Dothan, AL 36302 800-JEFFERS or 800-533-3377 (toll free) 334-793-6257 334-793-5179 FAX customerservice@jefferspet.com

#### **Premier**

800-282-6631 (toll-free) www.premier1supplies.com

#### **Pipestone Vet**

P.O. Box 188 1300 Hwy 75 S. Pipestone, MN 56164 800-658-2523 (toll-free) www.pipevet.com

### **Ketchum Manufacturing Inc.**

396 Berkley Avenue Ottawa, Canada 613-722-3451 613-722-5612 FAX www.ketchum.ca

#### **Gallagher Animal Management Systems**

Gallagher Power Fence, Inc. 130 W. 23rd Ave. P.O. Box 7506 North Kansas City, MO 64116 800-531-5908 (toll-free) 816-421-2005 816-421-2009 FAX www.gallagherams.com

# **Publishers**

#### **Storey Books**

Available at your bookstore, farm store, or directly from Storey Publishing, Schoolhouse Road, Pownal, VT 05261, or by calling 800-441-5700 or visit the Web site, <a href="https://www.storev.com">www.storev.com</a>.

#### **Barron's Books**

May be ordered from your favorite bookstore or visiting the Web site <a href="https://www.barronseduc.com">www.barronseduc.com</a> or by calling 800-645-3476.

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