

# Sheep Education Catalog

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**American Sheep Industry Association, Inc.**

**2012 First Edition Revised**

***Sheep Education Catalog***  
***First Edition Revised***

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Readers are encouraged to contact the authors with new listings and updates for the next edition.

This work was supported by the National Sheep Industry Improvement Center under a 2011 Sheep and Goat Industry Grant Initiative project with the American Sheep Industry Association, Inc.

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# Table of Contents

*Sheep Education Catalog  
First Edition Revised*

<b>Section 1: Online / Distance Learning</b>	<b>1</b>
1.1 Domestic Distance Learning Course Offerings	2
1.2 International Distance Learning Course Offerings	12
<b>Section 2: Onsite Learning Courses</b>	<b>16</b>
2.1 Domestic Onsite Learning Courses and Field Day Offerings	17
2.2 International Onsite Learning Courses and Field Day Offerings	29
<b>Section 3: Other Educational Materials</b>	<b>36</b>
3.1 Books	37
3.2 Sheep Extension Service Websites	54
3.3 Other Information Portals	60

# **Section 1**

## **Online / Distance Learning**

## 1.1 Domestic Distance Learning Course Offerings

Following are the U.S. based distance learning course offerings that can be completed online. Many of these courses are free non-credit courses. However, credit is available for several of the courses offered by colleges and universities.

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### **Sheep Safety and Quality Assurance**

**American Sheep Industry**

[http://sheepindustrynews.org/sheep\\_safety/](http://sheepindustrynews.org/sheep_safety/)

Description: The sheep industry is dependent on providing safe, high-quality products to each and every customer. The Sheep Safety and Quality Assurance program (SSQA) is designed to generate safe, high-quality sheep products by improving management practices during production.

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### **Livestock Risk Protection – Lamb**

**American Sheep Industry**

[http://sheepindustrynews.org/LRP\\_LAMB/](http://sheepindustrynews.org/LRP_LAMB/)

Description: Livestock Risk Protection – Lamb is an insurance product that is designed to insure against unexpected declines in market prices. This course is designed to educate you about the general features of this product.

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**A Producer's Guide to Scrapie  
American Sheep Industry**

[http://sheepindustrynews.org/scrapie\\_guide/](http://sheepindustrynews.org/scrapie_guide/)

Description: This course is specifically designed to educate you, as a sheep producer about scrapie, the National Scrapie Eradication Program and your role within that program.

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**Targeted Grazing: A Natural Approach to Landscape Enhancement  
American Sheep Industry**

<http://sheepindustrynews.org/Targeted-Grazing/>

Description: This course is an interactive guide for land managers. Research and on the ground experiences have clearly demonstrated the effectiveness of utilizing sheep and goats as a weed management tool. Targeted sheep and goat grazing rivals traditional chemical and mechanical control methods for the management of deleterious invasive plants including, but not limited to:

1. Leafy spurge
2. Spotted knapweed
3. Yellow starthistle
4. Cheatgrass
5. Saltcedar
6. Kudzu

Viewed as environmentally friendly alternative, land managers often achieve better results using targeted grazing, especially in the vast road less areas. Like any other tool when misapplied, livestock grazing can cause harm instead of repair. Well implemented, targeted grazing removes weeds, leaves no chemical residue, and increases biodiversity.

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**Cornell University Sheep Program**

Dr. Michael L. Thonney

T: 607-592-2541 / 607-255-7712

E: [mlt2@cornell.edu](mailto:mlt2@cornell.edu)

<http://www.sheep.cornell.edu/index.html>

Description: The Cornell Sheep Program evaluates and disseminates information on management, nutrition, health, selection, and marketing strategies for highly productive sheep systems. Purebred Dorset and Finnsheep flocks and a commercial Finnsheep ´ Dorset flock are

managed under the Cornell STAR management system. Selection in the Dorset and Finnsheep flocks is for aseasonality and fertility. Strategies to make efficient use of labor and to better control health problems are evaluated in the commercial flock. Growing lambs are used to evaluate dietary ingredients such as grain by-products as sources of fermentable fiber and protein. Search site for up to date courses.

### **Kansas State University Sheep Courses**

Kansas State University College of Agriculture

Instructors/Contact:

Brian Faris     [brfaris@k-state.edu](mailto:brfaris@k-state.edu)

Timothy Rozell     [trozell@k-state.edu](mailto:trozell@k-state.edu)

<http://www.asi.ksu.edu/p.aspx?tabid=258>

Description: A number of educational opportunities are available in the sheep program at K-State. Undergraduate courses are offered that expand the students' knowledge of sheep production and that include work with sheep provided by the Sheep Teaching Unit. The educational offerings capitalize on a close working relationship with Veterinary Medicine faculty and shared responsibilities in various classes such as Production/Medicine of Small Ruminants. Extracurricular activities, such as the Little American Royal and Intercollegiate Wool Judging Contests, also are enjoyed by students. The extension outreach program focus is toward traditional production and management related information. This program not only directly benefits Kansas' sheep producers, but also facilitates the activities of the literally thousands of 4-H youth involved in sheep projects in Kansas.

This list of sheep-related courses includes both distance and on-campus offerings and the semester they are offered.

Course No:	Course	Semester	Credits	Delivery Method	
ASI 102D	<a href="#">Principles of Animal Science</a> [ <a href="#">Course Form</a> ]	Fall Spring Summer	3	Distance	
ASI 105	<a href="#">Animal Sciences and Industry Lab</a> [ <a href="#">Course Form</a> ]	Spring Fall	1	On Campus	
ASI 303	<a href="#">History and Attitudes of Animal Use</a> [ <a href="#">Course Form</a> ]	Spring	3	On Campus	
ASI 315	<a href="#">Livestock and Meat Evaluation</a> [ <a href="#">Course Form</a> ]	Spring	3	On Campus	

ASI 318	<a href="#">Fundamentals of Nutrition</a> [ <a href="#">Course Form</a> ]	Fall	3	On Campus	
ASI 318D	<a href="#">Fundamentals of Nutrition</a> [ <a href="#">Course Form</a> ]	Spring Fall Summer	3	Distance	
ASI 340	<a href="#">Principles of Meat Science</a> [ <a href="#">Course Form</a> ]	Spring Fall	2	Distance	
ASI 350	<a href="#">Meat Science</a> [ <a href="#">Course Form</a> ]	Spring Fall	3	On Campus	
ASI 361	<a href="#">Meat Animal Processing</a> [ <a href="#">Course Form</a> ]	Spring	2	On Campus	
ASI 370	<a href="#">Principles of Meat Evaluation</a> [ <a href="#">Course Form</a> ]	Fall	2	On Campus	
ASI 385	<a href="#">Wool Grading and Evaluation</a> [ <a href="#">Course Form</a> ]	Fall	1	On Campus	
ASI 399	<a href="#">ASI Quadrathlon</a> [ <a href="#">Course Form</a> ]	Spring	1	On Campus	
ASI 400	<a href="#">Farm Animal Reproduction</a>	Spring	4	On Campus	
ASI 404	Lambing	Spring	1	On Campus	
ASI 450	<a href="#">Principles of Livestock Selection</a>	Fall	2	On Campus	
ASI 470	<a href="#">Form and Function in Livestock</a>	Fall	2	On Campus	
ASI 495	Advanced Meats Evaluation [ <a href="#">Course Form</a> ]	Fall	2	On Campus	
ASI 500	<a href="#">Genetics</a>	Spring Fall	3	On Campus	
ASI 510	<a href="#">Animal Breeding Principles</a>	Fall Spring	3	On Campus	
ASI 524	<a href="#">Sheep Science</a>	Fall	3	On Campus	
ASI 533	<a href="#">Anatomy and Physiology</a>	Spring Fall	4	On Campus	
ASI 540	<a href="#">Principles of Animal Disease Control</a>	Spring	3	On Campus	
ASI 600	<a href="#">Applied Animal Biotechnology</a>	Spring	2	On Campus	
ASI 610	<a href="#">Processed Meat Operations</a>	Spring	2	On Campus	
ASI 655	<a href="#">Behavior of Domestic Animals</a>	Fall	3	On Campus	
ASI 661	M.A.E.T.	Spring	1	On Campus	



ASI 661	<a href="#">ASI Problem/Meat Fab</a>	Fall	2	On Campus
ASI 661	Meat Study Tour	Spring	1	On Campus
ASI 671D	<a href="#">Meat Selection and Utilization</a>	Spring Fall Summer	2	Distance
ASI 680	<a href="#">Ruminant Nutrition</a> [ <a href="#">Course Form</a> ]	Spring	1	On Campus
ASI 682	<a href="#">Formulation of Livestock and Poultry Diets</a>	Fall	1	On Campus
ASI 683	<a href="#">Grazing Livestock Nutrition</a> [ <a href="#">Course Form</a> ]	Spring	1	On Campus
ASI 710	Physiology of Reproduction in Farm Animals	Fall*	3	On Campus
ASI 799	<a href="#">Graduate Internship in Animal Sciences and Industry</a>	Spring Fall	1	On Campus
ASI 820	Rumen Metabolism	Spring	3	On Campus
ASI 860	Analytical Techniques--Sample Preparation and Beginning Anal	Fall	1	On Campus
ASI 861	Analytical Techniques--Mineral Analyses	Fall	1	On Campus
ASI 862	Analytical Techniques--Carbohydrate and Lipid Analyses	Fall	1	On Campus
ASI 863	Analytical Techniques--Radiosotope Use	Fall	1	On Campus
ASI 920	<a href="#">Energy Utilization in Domestic Livestock</a> [ <a href="#">Course Form</a> ]	Fall	1	On Campus
ASI 921	Protein and Amino Acid Utilization in Domestic Livestock	Fall	1	On Campus
ASI 925	Rumen Microbiology	Spring	1	On Campus

**Small Ruminant Foot Health Webinar Series**  
**The University of Maine Cooperative Extension**

T: 207-581-3188

E: [extension@maine.edu](mailto:extension@maine.edu)

<http://umaine.edu/livestock/blog/2012/01/18/small-ruminant-foot-health-webinars/>

Description: February 21 and 28, 2012 7:30 to 8:30 PM

Two one-hour webinars (parts 1 and 2) will teach beginner and experienced sheep and goat producers the cause of foot rot in sheep and goats, the conditions that promote the disease, how

to prevent foot diseases with effective biosecurity, how to treat foot rot, how to effectively trim hooves, and the specific protocol to eliminate the disease from farms. The webinars will also explain genetic markers that could identify sheep that are naturally resistant to the disease. Registration required. Both webinars are free. Presenters: Susan Schoenian, University of Maryland and Richard Brzozowski, University of Maine

- Register now for [Small Ruminant Foot Health Webinar – Part 1](#)
  - Register now for [Small Ruminant Foot Health Webinar – Part 2](#)
- 

### **Sheep and Goats: A Weapon Against Weeds – Controlling Invasive Plants with Grazing** **University of Maryland Extension Forest Stewardship Education**

Webinar recording:

<https://connect.moo.umd.edu/p73266133/>

<http://www.naturalresources.umd.edu/ResourcesWebinars.html>

(Search site for the following recorded seminar)

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### **Lamb & Wool Management Program** **Minnesota West Community & Technical College**

Contact: Sue Lovell

T: 507-847-7929

E: [Sue.lovell@mnwest.edu](mailto:Sue.lovell@mnwest.edu)

<http://www.mnwest.edu/index.php/management/lamb-and-wool>

Description: **ONLINE COURSE OFFERINGS**

- **Introduction to Sheep Management LWMP 1001**

*Course (offered each Semester)*

This course introduces basic sheep management principles. Students will study the year round management and production cycle for a sheep enterprise and understand how each production stage influences enterprise profitability. This course also studies the philosophy of sheep management and its relationship to business goals. (1 credit)

- **Equipment and Facilities LWMP 1202**

*Course (offered Spring and Fall Semester)*

This course will cover planning for sheep facilities; barn design; lot layout and sheep feeding equipment. Students will become aware of housing and feeding requirements and how to effectively plan for them. (2 credit)

- **Introduction to Sheep Diseases LWMP 1300**

*Course (offered Spring and Fall Semester)*

This course helps students become familiar with sheep diseases that need to be managed in a successful sheep enterprise. Topics discussed will be Animal Husbandry, Quality Assurance, Young Lamb Diseases/Health Issues, Metabolic Diseases, Diseases causing Abortion, Diseases causing lameness, Diseases Affecting Reproductive Performance in Rams, Parasite Diseases, Diseases of the Eye and more. (2 credit)

- **Ewe Ration Formulation LWMP 1502**

*Course (offered Spring and Fall Semester)*

This course will make students aware of the methods used to balance rations to meet the sheep nutrient needs for each specific stage of production. The course will also cover least cost ration balancing. (1 credit)

- **Wool Characteristics and Properties LWMP 1701**

*Course (offered spring and Fall Semester)*

This course will provide an in-depth look at the biological development of wool fiber and the properties that make it a unique clothing fiber. In addition this course will study the factors that determine the value of wool, how these can be improved and methods to measure these qualities. (2 credit)

## **SHORT COURSE & TOURS**

- Lambing Time Short Course & Tour (Feb. 3rd & 4th, 2012)
- Sheep for Profit School (July, 2013)
- Facility Tour (June 4, 2012)

## **PIPESTONE HOME STUDY SHEEP COURSE**

- Successful 14 Lesson Course Offered by Mail

## **RECORDED LAMBING TIME MANAGEMENT SERIES**

The Lambing Time Management Series consists of recorded video presentations and electronically-delivered fact sheets. This is an option for those who are unable to attend the Lambing Time Short Course and Bus Tour due to distance from Pipestone or have a conflict with the program dates. This Lambing Time Management web-based seminar consists of multiple-recorded presentations that you can access at your convenience.

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**Montana Sheep Institute**  
**Montana State University**

Dr. Rodney Kott

406-994-3415

[rkott@montana.edu](mailto:rkott@montana.edu)

<http://www.sheepinstitute.montana.edu/>

Description: The Montana Sheep Institute is a cooperative project between Montana Wool Growers Association and Montana State University. The goals of the Montana Sheep institute are to:

- Improve the profitability and competitiveness of the Montana Sheep Industry.
- Explore opportunities to increase utilization of sheep in weed management programs.

The main goal of the Montana Sheep Institute is to develop and implement methods to facilitate Montana (U.S.) lamb and wool producers to increase their competitiveness in world markets. This will be accomplished by focusing Montana Sheep Institute efforts primarily utilizing sheep grazing as a tool in natural resource management, but includes efforts in animal husbandry, management and marketing system areas necessary for a sustained sheep industry. This is a cooperative program between Montana State University and Montana Wool Growers Association. Utilize this website to view online presentations.

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**MSU Sheep Ration**

**Montana State University**

<http://www.msusheerpration.montana.edu/login.aspx?ReturnUrl=%2fdefault.aspx>

Description: Montana State University's Sheep Ration Program, designed to help producers meet the nutritional needs of their sheep with available forages and feeds. Use this FREE online program to:

- View sheep nutritional requirements
  - View the standard nutrient content of more than 300 feeds
  - Enter and save custom feed values based on laboratory results
  - Balance and save rations for sheep at various lifecycles stages
  - Find answers to frequently asked nutritional questions
  - Balance feedlot rations
  - Determine quantities of feed for a flock
  - Determine supplement needs for ewes grazing winter range
-

**Buckeye Shepherds’ Symposium**  
**Ohio Sheep Improvement Association**

Contact: Roger A. High

T: 614-246-8299

E: [rhigh@ofbf.org](mailto:rhigh@ofbf.org)

<http://www.ohiosheep.org/OSIA/BSS.html>

Description: Annual symposium put on by the Ohio Sheep Improvement Association. The program is designed for sheep and goat farmers that are involved in every segment of the industry. See website for current date and location.

Many of the presentations available via web:

<http://sheep.osu.edu/2012/01/04/sheep-nutrition-sessions-available/>

**Dried Distillers Grains and Sheep Nutrition** by Dr. Steve Loerch

(<http://go.osu.edu/DDGSandSheepNutrition>)

**Storing Forages** by Dr. Bill Weiss

(<http://go.osu.edu/storingforages> )

**Basic Parasite Biology and Control Concepts**

(<http://go.osu.edu/parasitebiology>)

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**Sheep Home Study Course**

**Penn State Extension**

Author/Contact: Melanie Barkley

T: 814-623-4800

E: [meh7@psu.edu](mailto:meh7@psu.edu)

<http://extension.psu.edu/courses/sheep>

Next Course Date: February 1, 2012

Description: The Extension Sheep Home Study Course is a six lesson course for sheep producers interested in improving their production practices and ultimately profitability of their operation. The course covers topics in basic production, reproduction, nutrition, health, marketing and financial issues.

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**EXT LSM – Lambing and Sheep Management  
Utah State University**

[http://ocw.usu.edu/University\\_Extension/sheep-and-lambing-management/index.html](http://ocw.usu.edu/University_Extension/sheep-and-lambing-management/index.html)

Course Description:

This course covers lamb survival, sheep on the range, and disease control in lambing.

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**Sheep Production Home Study Course  
University of Wyoming Extension  
Laramie County Office**

T: (307) 633-4383

E: [larcntex@uwyo.edu](mailto:larcntex@uwyo.edu)

[http://www.uwyo.edu/ces/county/laramie/sheep\\_production.html](http://www.uwyo.edu/ces/county/laramie/sheep_production.html)

Description: This introductory course on sheep production is designed to give producers a good knowledge base that will assist them in making improved management decisions for increased profitability. This home study course offers the opportunity for students to participate in educational programs without a large time commitment away from home and family. This livestock production course allows the producer to strengthen his/her management prowess in the comfort of his/her own home.

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## 1.2 International Distance Learning Course Offerings

Many good online courses pertaining to sheep production have been developed by various organizations throughout the world. Following are the distance learning course offerings that can be completed online that are of non-U.S. origin. Check each offering for the specific fees and accreditation attached to it, if any.

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### **Sheep Courses**

#### **ACS Distance Education**

T: +61 7 5562 1088

Australia

<http://www.acs.edu.au/courses/sheep-178.aspx>

Description: Improve production by increasing your knowledge and skills.

This course examines:

- Selection and breeding of sheep
  - Improving Nutrition
  - Sheep health
  - Management of the commercial flock
  - Wool
  - Lamb and much more
- 

### **SHEEP BAG210**

#### **ACS Distance Education (UK)**

T: +44(0) 384 442752

E: [info@acsedu.co.uk](mailto:info@acsedu.co.uk)

<http://www.acsedu.co.uk/Courses/Agriculture/SHEEPBAG210-233.aspx>

Description: Correspondence Course Sheep

*Learn sheep care and management*

- Improve your knowledge of sheep care and management.
- Improve your job prospects working with sheep.
- Learn from our knowledgeable and experienced agriculture tutors.
- Specially developed course to improve your knowledge of sheep.

Sheep are an important agricultural livestock that are bred for meat and wool worldwide. Careful and informed management of your flock will ensure increased productivity and efficiency. Aimed at professional and amateur graziers, the course provides you with the knowledge to run your sheep effectively and productively and will help you to develop your ability to independently analyze and make decisions about the management requirements of sheep.

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## **SHEEP BAG210**

### **Careerline Courses**

Australia – Online

T: +617 55368783

E: [info@careerlinecourses.com](mailto:info@careerlinecourses.com)

<http://www.careerlinecourses.com/sheep-courses-online-distance-learning.htm>

Description: Improve production by increasing your knowledge and skills. This course examines:

- Selection and breeding of sheep
- Improving Nutrition
- Sheep health
- Management of the commercial flock
- Wool
- Lamb and much more.

Learn about the following issues and much more: There are fewer marketing problems associated with wool of good-high quality. Pure mutton breeds require less management than pure wool breeds. The lamb market is strong in many countries. A dual purpose breed can provide the farmer with two products (meat and wool), and spreads the farmer's source of income should there be an overproduction one of the two products. Sheep can also be farmed for dairy (e.g. sheep cheese can be as popular as cow's cheese in some parts of the world).



## **Making More From Sheep Meat & Livestock Australia**

Contact Information: <http://www.makingmorefromsheep.com.au/contact.htm>

Learning Modules: <http://www.makingmorefromsheep.com.au/module-index.htm>  
<http://www.makingmorefromsheep.com.au/index.htm>

Description: Australian Wool Innovation (AWI) and Meat and Livestock Australia (MLA) have joined forces to develop Making More From Sheep, a best practice package of information, tools and learning opportunities for Australian sheep producers.

Almost 250 leading sheep producers and technical experts helped develop the 11 linked modules in the manual, which cover subjects ranging from soils and pasture to wool and meat marketing, animal health, genetics and farm sustainability.

This website contains all the content within the Making More From Sheep manual and cd-rom, and also gives you information about upcoming Making More From Sheep forums, workshops and other learning activities.

View the [modules online](#) or take the '[Quick Quiz](#)' and start identifying areas of your enterprise needing attention.

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## **SHEEP CRC Teaching Units**

### **University of New England**

Armidale, New South Wales

Professor James Rowe

T: 02 6773 1317

E: [sheepcrc@sheepcrc.org.au](mailto:sheepcrc@sheepcrc.org.au)

<http://www.sheepcrc.org.au/education/training-resources.php>

Description: *The following Sheep & Wool Education Modules are available from the Australian Wool Education Trust (AWET).*

<b>Item</b>	<b>Reference</b>	<b>Title</b>
1	WOOL412	Sheep Production
2	ANUT300	Applied Animal Nutrition
3	RSNR421	Sustainable Farming and Catchment Management
4	WOOL472	Wool Biology and Metrology
5	MEAT418	Meat Technology
6	WOOL422	Wool Marketing
7	WOOL482	Wool Processing

8	GENE412	Genetic Evaluation and Breeding
9	ANPR420	Sheepmeat Production and Marketing
10	ANPR450	Managing Sheep Enterprises

Also made available via:

**woolwise: Australian Wool Education Trust**

[http://www.woolwise.com/Education\\_Modules/Education\\_Modules.html](http://www.woolwise.com/Education_Modules/Education_Modules.html)

### **Northern Melbourne Institute of TAFE**

NMIT on-campus and distance learning

T: +61 3 9269 1666

[international@nmit.vic.edu.au](mailto:international@nmit.vic.edu.au)

Description / Course Name:

#### Certificate II in Agriculture

Beef and Sheep

NMIT offers the Certificate II in Agriculture as a general introduction to agriculture techniques, but also allows you to specialize in an area such as sheep and wool production or beef production. NMIT's excellent facilities include the 600 ha working commercial farm, Northern Lodge, at Yan Yean (25 km north of Melbourne).

#### Certificate IV in Agriculture

This course prepares you for a career in agricultural production, from livestock breeding and feeding, to machinery and equipment operation. Develop knowledge of areas such as animal health, livestock competitions and tractors. NMIT's excellent facilities include the 600 ha working commercial farm Northern Lodge at Yan Yean, which runs registered cattle and is cattle care accredited.

#### Diploma of Agriculture

This is a general course that will give you a wide range of skills in agricultural production. Gain experience in: financial management, trading strategies, quality management, research trials, marketing, operation of farm equipment, website design, livestock husbandry and livestock and pasture management.

## **Section 2**

# **Onsite Learning Courses**

## 2.1 Domestic Onsite Learning Courses and Field Day Offerings

Following are U.S. – based onsite learning courses and field day offerings. Several of the college and university based courses are campus-based classes that require regular enrollment. However, several of these onsite courses and/or field days are offered at a nominal fee by local U.S. organizations. Check each offering for the specific fees and accreditation attached to it, if any.

Where possible, we listed the last known course offering date. Many of these onsite events are offered at the same time each year. If an event you'd like to attend has already come and gone this year, it still may be worth your while to contact the event organizers to make sure you are a recipient of next year's promotional efforts for the event.

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### **Wool Handling & Sorting Class American Sheep Industry**

Contact: Zahrah

T: 303-771-3500 ext. 54

E: [zahrah@sheepusa.org](mailto:zahrah@sheepusa.org)

Contact: Ron Cole, ASI Wool Education Consultant

T: 970-302-4117

E: [ihrcole@comcast.net](mailto:ihrcole@comcast.net)

<http://www.sheepusa.org>

**Description:** This unique opportunity offers students a full range of wool handling, from live sheep sorting prior to shearing to wool packaging, following ASI's wool quality program guidelines. Other topics of discussion include wool price factors, which determine wool value, an introduction to wool classing systems, reducing contamination and packing and labeling of wool bags and packs. Wool samples from a variety of grades will be available for handling, as well as finished fabrics and garments, including new military fabrics.

The wide range of information represented in this class will be of interest to growers, shearers, hand spinners and processors interested in learning more about the diverse wool industry.

See website for dates, locations and cost.

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## Sheep and Goat Day

### California State University – Chico

Most Recent Offering: Saturday, February 11, 2012

Location: University Farm Pavilion

Contact: Dr. Celina Johnson

T: 530-898-4147

E: [crjohnson@csuchico.edu](mailto:crjohnson@csuchico.edu)

<http://www.csuchico.edu/ag/events/sheep-goatday.shtml>

Description: Rotational workshops beginning every 30 minutes. Participants are able to pick 4 workshops to attend. Workshops will include (but are not limited to) nutrition, showmanship, selection, and fitting and grooming for both sheep and meat goats.

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## Colorado State University Sheep Courses

Colorado State University College of Agriculture

### Primary Contact:

Dr. Steve LeValley, Extension Sheep and Wool Specialist, [steve.levalley@colostate.edu](mailto:steve.levalley@colostate.edu)

Description: Educational opportunities for sheep are available across a number of departments at Colorado State University. Undergraduate courses are offered to expand the knowledge base of sheep production, live and carcass evaluation, wool evaluation and livestock judging. The Little National Western and the exhibition sheep flock, along with internship opportunities, round out the undergraduate experience. Graduate study sheep related research projects are numerous and span across many decades within several departments.

Course #	Course Name
ANEQ 101	Food Animal Science
ANEQ 230	Farm Animal Anatomy and Physiology
ANEQ 250	Live Animal and Carcass Evaluation
ANEQ 280	Livestock Practicum
RS 300	Range and Forage Management
MIP 315	Human and Animal Disease
VS 300	Prevention and Control of Livestock Disease
ANEQ 310	Animal Reproduction
ANEQ 320	Principles of Animal Nutrition
ANEQ 330	Principles of Animal Breeding

AN EQ 360	Principles of Meat Science
AN EQ 472	Sheep Systems
AN EQ 312	Animal Ultrasound
AN EQ 354	Livestock Evaluation
AN EQ 361	Meat Product Evaluation
AN EQ 363	Wool and Fiber Evaluation
AN EQ 487	Internship
AN EQ 400	Meat Safety
AN EQ 470	Meat Systems
AN EQ 522	Metabolism
AN EQ 551	Necropsy
AN EQ 567	HACCP Meat Safety

**Other Colorado State University Resources:**

Mr. Rod Sharp: Regional Extension Economist; [rod.sharp@colostate.edu](mailto:rod.sharp@colostate.edu)  
Dr. Tony Knight: Extension Veterinarian; [Anthony.knight@colostate.edu](mailto:Anthony.knight@colostate.edu)  
Dr. Dave Van Meter: Extension Veterinarian; [dave.vanmeter@colostate.edu](mailto:dave.vanmeter@colostate.edu)  
Dr. Brett Kirch: Extension Youth Specialist; [brett.kirch@colostate.edu](mailto:brett.kirch@colostate.edu)  
Extension Agents: Marlin Eisenach; [marlin.eisenach@colostate.edu](mailto:marlin.eisenach@colostate.edu)  
Ray Hinton; [ray.hinton@colostate.edu](mailto:ray.hinton@colostate.edu)  
Robbie LeValley; [Robbie.levalley@colostate.edu](mailto:Robbie.levalley@colostate.edu)  
Bruce Fickenscher; [bruce.fickenscher@colostate.edu](mailto:bruce.fickenscher@colostate.edu)  
Michael Fisher; [mj.fisher@colostate.edu](mailto:mj.fisher@colostate.edu)  
Mick Livingston; [mick.livingston@colostate.edu](mailto:mick.livingston@colostate.edu)  
Keith Maxey; [keith.maxey@colostate.edu](mailto:keith.maxey@colostate.edu)

**Animal Science 3800**

**Cornell University**

Contact: Dr. Michael L. Thonney

T: 607-592-2541

E: [mlt2@cornell.edu](mailto:mlt2@cornell.edu)

<http://www.ansci.cornell.edu/courses/as380/organization/info.html>

Description: This is a course about sheep farming and management. The course material covers the primary areas of pasture management, sheep products, farm management, sheep management, sheep growth and development, sheep genetics, and sheep industry issues. Lecture material is reinforced through practice in the laboratory in which students run a genetic and economic simulation of a sheep farm, and a hands-on approach is used to teach how to manage sheep, including feeding and care of ewes and their newborn lambs in a small on-campus flock.

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**Master Goat and Sheep Program**  
**Florida A&M University – Small Ruminant Program**

Contact: Angela McKenzie

T: 850-875-8557

E: [angela.mckenziejakes@famuedu](mailto:angela.mckenziejakes@famuedu)

Location: Quincy, Florida

<http://www.famuedu/cesta/main/index.cfm/cooperative-extension-program/agriculture/small-ruminant/master-goat-and-sheep-program/about-the-master-goat-and-sheep-program/>

**Description:** This program is for beginning and advanced goat and sheep producers. To become certified as a Master Goat or Sheep Producer you must attend every class, take the pre-test, take the post test and pass with a score of 70% or above and pass an on-farm inspection. To become eligible for certification as an Advanced Master Goat Producer (only available for goat producers), you must pass a second on-farm inspection and pass the **web-based goat certification course** hosted on Langston University's website. We also offer a non-certification track for those producers, students or agricultural professionals who want to participate in the training activities, but are not interested in becoming certified. Individuals that take the non-certification track will not be required to have an on-farm inspection. The Master Goat and Sheep Producer's Certification Program is a comprehensive training program which offers classes in the following areas:

- The Goat and Sheep Industry
- Marketing
- Establishing a Facility (i.e., fencing, shelters, holding pens)
- Herd Health Management
- Dead Animal Disposal
- Bio-security and Food Safety
- Nutrition and Pasture Management
- Silvo-Pasture Production Systems
- Predator Control
- Reproduction and Breeding Management
- Disaster Preparedness
- Bioterrorism Awareness
- Developing Enterprise Budgets
- Business Management and Development
- Risk Management (i.e., Financial, Production and Marketing)
- Selecting and Evaluating Breeding Stock
- Hands-on Training (FAMACHA, hoof trimming, microscopic fecal examinations etc.)

The Master Goat and Sheep Producer's Certification Program is a joint initiative between the Cooperative Extension Program at Florida A&M University, Florida Department of Agriculture and Consumer Services, University of Florida and the Southeastern Small Farmer's Network.

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**Sheep Activities Calendar**  
**The University of Kentucky College of Agriculture**  
**Animal & Food Sciences**

Contact: Dr. Don Ely

T: 859-257-2717

E: [dely@uky.edu](mailto:dely@uky.edu)

<http://www.uky.edu/Ag/AnimalSciences/news/2012UKSheepActivitiesCalendar.pdf>

Description: Activities relating to sheep keeping are listed with dates and locations. These short course topics include: lambing, shearing, Eweprofit.

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**Sheep Blade Shearing School**  
**University of Maine Extension / Maine Sheep Breeders Association**

T: 1-800-287-1471 / 207-781-6099

E: [colleen.hoyt@maine.edu](mailto:colleen.hoyt@maine.edu)

<http://umaine.edu/cumberland/blog/2012/01/09/three-opportunities-to-learn-to-shear-sheep-in-2012/>

Descriptions of Most Recent Offerings:

**Blade Shearing School** with expert blade shearer, Kevin Ford

Friday and Saturday, March 30-31, 2012. Fee: \$100/person

Participation limited to 8 individuals. Site in Maine to be determined.

Blade shearing is the shearing of sheep with hand shears (no electricity). This hands-on, 2-day school will equip participants with skills and knowledge to shear sheep and in the proper use and care of hand shears. Shears are provided for the school and will be available for purchase.

**Sheep Shearing School, Beginner Level** Saturday, April 21, 2012. Fee: \$35/person.

Windham, Maine (Cumberland County).

**Sheep Shearing School, Beginner Level.** Saturday, April 28, 2012. Fee: \$35/person. Littleton, Maine (Aroostook County).



The conventional sheep shearing schools are taught by a team of experienced, Maine-based sheep shearers, including Jeff Burchstead, David Averill, Brandon Woolley, Joan Rolfe, and Richard Brzozowski. Participants will learn how to catch, handle, and maneuver sheep for shearing, shear efficiently with electric shears, shear on a table as an option, and the proper trimming of hooves, handling of wool, and caring of equipment.

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**Wool Harvesting School**  
**Montana State University Sheep Extension Program**

Dr. Rodney Kott

Contact: Peggy Kelley

T: 406-994-3415

E: [kelley@montana.edu](mailto:kelley@montana.edu)

<http://animalrangeextension.montana.edu/Sheep/sheep.htm>

Description: Wool Harvesting school participants learn to shear sheep using the methods taught by instructors trained through the New Zealand TECTRA Training Pro-gram. The school offers a three day hands-on beginner course, and a three day advanced course jointly sponsored by the Montana Department of Agriculture Growth Through Agriculture Program, Montana Woolgrowers Association and the Montana State University Cooperative Extension. Some who attended the class were sheep owners who wanted to learn how to shear their own flocks. This is an annual course offered in mid-March to coincide with the shearing of the sheep owned by MSU. Limited enrollment.

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**The Valley Shepherd Creamery Cheese Making Class**

Long Valley, New Jersey

T: 908-876-3200 ext. 22

<http://valleyshepherd.com/cheesemaking.htm>

Description: Classes include a private tour of the Creamery hosted by the owners, as well as lectures and cheesemaking in the dairy. Each student will make an individual handmade cheese wheel (app. 1Kg) and mark the wheel for future retrieval. The wheel will then join other wheels in the Valley Shepherd Creamery's cheese aging cave. After 90 days, the wheels will be brought up for pickup.

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## **Sheep and Goat WebEx Series**

### **Ohio Sheep Improvement Association & Ohio State University Extension**

Multiple site locations in Ohio see website for contact information.

<http://sheep.osu.edu/>

Description of Most Recent Offerings: The 2012 Sheep and Goat WebEx Series will concentrate on Sheep and Goat Health Programs and we will be offering a wide variety of health related topics and speakers in several extension offices across the state of Ohio. In 2012, we are offering fourteen (14) Sheep and Goat WebEx sites, one (1) live site and thirteen (13) remote sites which sheep and goat farmers can attend to get updated on sheep and goat health programs. The first session, Monday February 6, 2012 will cover “Lambing and Kidding Management and Newborn Health Issues” presented by Dr. Bill Shulaw, OSU Preventive Veterinary Medicine. The second session, Monday February 13, 2012 will cover “Internal Parasites”, presented by Rory Lewandowski and Jeff McCutcheon, both OSU Extension Educators with a wide variety of experiences in managing internal parasites in sheep and goats. The third session, Monday February 20, 2012 will cover “Udder Health and Mastitis”, and will be presented by Dr. Leo Timms, Professor, Iowa State University, who specializes in the ruminant mammary health. The fourth session, Monday February 27, 2012, will cover “Recognizing, Treating, and Preventing Major Diseases of Sheep and Goats”, presented by Dr. Eric Gordon, OSU Veterinary Medicine, Marysville.

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## **Animal Science 535: Sheep Production**

### **Pierce College – Southern California**

Los Angeles Community College District

Distance Learning – High School Satellite Classes

Location: Canoga Park Center Canoga Park High School

6850 Topanga Canyon Blvd., Canoga Park, CA 91301

Date/Time of Most Recent Offering: 2/7/2012 - 5/12/2012 3:15-7:20 Tuesdays Room TBA

Instructor: N Land

T: 818-710-2887

Pierce College Office of Academic Outreach

[http://www.piercecollege.edu/schedules/spring\\_2012/Off-Campus\\_Offerings\\_Spring\\_2012.pdf](http://www.piercecollege.edu/schedules/spring_2012/Off-Campus_Offerings_Spring_2012.pdf)

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### **Penn State Extension Sheep Shearing School**

Penn State Extension-Bucks County

Most Recent Offering: May 1-2, 2012, 5:00 pm – 9:00 pm

Delaware Valley College Farm

471 Almshouse Road

Doylestown, PA 18901

T: 215-345-3283

E: mpf1@psu.edu

<http://extension.psu.edu/bucks/news/2012/sheep-shearing-school-on-may-1-2-2012-2>

Description: Penn State Cooperative Extension-Bucks County in conjunction with Penn State Start Farming, the Bucks-Montgomery Wool Pool and Delaware Valley College, is pleased to provide a 2-session, 2-evening Sheep Shearing School. In this 2-session, evening short course you will learn: how to shear sheep and how to maintain and care for shearing equipment. All equipment will be provided. Feel free to bring your own shears if you so desire. You may want to bring a pair of light canvas work gloves. You will get dirty, so wear appropriate clothing. To prevent the spread of disease, please DO NOT wear clothing or boots that you normally wear in your own barn. DO NOT bring any of your own sheep. Shearing Sheep is physically demanding. Please bring along some water and/or snacks for yourself.

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### **PURDUE LAMBING SCHOOL**

**Purdue Animal Sciences Research and Education Center (Sheep Unit)**

**Purdue University Department of Animal Sciences & Indiana Sheep Breeders Association**

Most Recent Offering: Saturday, February 4, 2012 - 9:00 a.m. - 3:30 p.m.

T: 765-494-4849

E: [mneary@purdue.edu](mailto:mneary@purdue.edu)

<http://www.ansc.purdue.edu/SH/index.html>

Description: The Lambing School is conducted as an educational event for new, beginning or veteran sheep or goat producers to familiarize them with lambing or kidding procedures. The program will cover the critical production phases of late gestation, lactation, and care of newborns. Topics will include: nutrition, reproduction, health considerations, lambing barn obstetrics and necessary management practices. The Lambing School is designed for maximum "hands on" experience and informal questions and discussion.

**ANSC 442 Sheep Management**  
**Purdue University Department of Animal Sciences**  
765-494-4808  
Dr. Mike Neary  
[mneary@purdue.edu](mailto:mneary@purdue.edu)  
<http://ag.ansc.purdue.edu/sheep/ansc442/syllabus.html>

Description: The objective of this course is to apply the principles learned from the core courses in the Animal Sciences curriculum to successful management of sheep. This includes topics such as breeding, performance testing, health, nutrition, feeding and grazing systems, reproduction and management topics. Current issues important to the sheep industry are also an important part of this course. There is also a two-hour weekly lab for this course. Extensive sheep production experience is not required to enroll in this course. There are typically 25-30 students enrolled in this course ranging from no sheep industry experience to extensive experience.

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**SDSU Sheep Shearing School**  
South Dakota State University  
T: (605) 688-5433  
E: [jeffrey.held@sdstate.edu](mailto:jeffrey.held@sdstate.edu)  
<http://www.sdstate.edu/ars/species/sheep/extension/sheep-shearing-school.cfm>

Topics covered:

- Professional shearing
- Equipment maintenance and repair
- Wool handling and preparation

Experience and non-experienced.

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**Tennessee Sheep Shearing School**  
University of Tennessee Extension Service  
Middle Tennessee State University School of Agribusiness and Agriscience  
T: 615-898-5575  
E: <http://frank.mtsu.edu/~tlc/>  
<http://animalscience.ag.utk.edu/Sheep/pdf/SheepShearingSchool.pdf>

Description: The shearing school is designed for either beginner or experienced shearers who wish to improve their skills. Doug Rathke and other top sheep shearers will teach the most modern, up-to-date shearing methods. One of the most important aspects of the school is information about maintenance and care of sheep shearing equipment. The school is held in late April at the Tennessee Livestock Center on the campus of Middle Tennessee State University in Murfreesboro, Tennessee.

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### **Sheep & Goat Programs**

#### **Texas A&M Department of Animal Science**

T: 979-845-1541

E: [anscience@mail.ansc.ad.tamu.edu](mailto:anscience@mail.ansc.ad.tamu.edu)

<http://animalscience.tamu.edu/academics/sheep-goats/index.htm>

Description: Sheep, goats, mohair and the associated industries are a major agricultural enterprise in Texas. Texas leads the nation in lamb and wool production and is internationally famous for its wool and mohair. Texas is also the leading state in goat production with approximately 1.4 million head.

Students interested in the sheep and goat industry can take advantage of Texas A&M University's dynamic sheep and goat teaching program. Students can take courses in sheep and goat production, wool and mohair evaluation, marketing, nutrition and selection.

Texas A&M University owns a flock of Rambouillet and Suffolk sheep, which gives students hands-on experience in management, production, and marketing. The Texas A&M University Sheep Center also hosts an annual production sale, where students take an active role in sale management and marketing.

The Wool Judging program offers students a chance to learn more about wool and mohair evaluation, through the wool judging course and team.

The Texas AgriLife Extension sheep and goat specialists conduct adult and youth educational programs to help Texans learn more about sheep and goat production.

Students in the sheep and goat program can take advantage of research information and faculty who are based out of the Texas A&M University campus in College Station, and also the Texas AgriLife Research Stations in San Angelo and Uvalde.

For distance learning there are options for ag related masters degrees but the course list was unavailable at this time. Please check the following website for updates and current courses: <http://aglifesciences.tamu.edu/academics/academicsdepartments/> .

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### **WSSP Lambing and Management Schools**

Contact: Washington State Sheep Producers

Most Recent Offerings: February 18, March 31, and April 7, 2012

T: 509-888-3003

E: [wssp@gmx.com](mailto:wssp@gmx.com)

[http://www.wssp.org/event\\_calendar.htm](http://www.wssp.org/event_calendar.htm)

Description: These one-day lambing schools are hosted by Dr. Jill Swannack, DVM, Martinez Livestock and Feustel Farms. They cover the basics in lambing and management practices including:

- Basic newborn lamb care & supplies
- Docking and castration
- Application of tags
- Assist ewes with lambing
- Practice difficult lamb extractions with a phantom ewe
- Care for weak/cold lambs
- Raising bummer lambs
- Discussion of sheep breeds
- Book and catalog review
- Jugs, mixing pens, shelters
- Herd health — deworming, vaccinating, foot trimming
- Drugs and dosages used in sheep
- Handling facilities
- Markets & marketing

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### **WSSP/WSU Shearing School**

Contact: Washington State Sheep Producers

Most Recent Offerings: April 7, 2012 (Advanced) and April 9-13 (Beginner)

T: 509-888-3003

E: [wssp@gmx.com](mailto:wssp@gmx.com)

[http://www.wssp.org/event\\_calendar.htm](http://www.wssp.org/event_calendar.htm)

Description: These shearing schools are co-hosted in April of each year in Grant County, Washington by the Washington State Sheep Producers and the Washington State University Grant County Extension Service.

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## **Wisconsin Sheep and Goat Extension Events**

Contact: Claire Mikolayunas

T: 608-890-3802

E: [mikolayunas@wisc.edu](mailto:mikolayunas@wisc.edu)

<http://fyi.uwex.edu/wisheepandgoat/>

Description: Multiple Wisconsin based seminars, conferences and webinars can be found by visiting this site. These include: Grassworks Grazing Conference, Northern Safari - Making Money with Sheep and Goats in Northern Wisconsin, Indianhead Shepherd's Clinic, EWUniversity – Shepherds School, and Small Ruminant Parasite Programs. Visit the website for descriptions of each program as well as dates, times and locations.

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## 2.2 International Onsite Learning Courses and Field Day Offerings

As we mentioned in the discussion of online courses, many good educational offerings originate from sources outside of the United States. We hesitated on whether or not to include this section on international onsite learning courses and field day offerings in this catalog. We do it for two reasons. The first is that, in any business, one of the really cool things to do is travel to neat places and learn from others. In this case, those others are experts in the sheep industry and the locations you'll be visiting are well worth the trip. The second reason for including this section in the catalog is a hope that even though you might not be able to travel abroad to attend one of these events in person maybe learning about its existence will inspire you to help organize a similar event closer to home.

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### **Sheepskills: Modern Skills for an Old Profession**

#### **Agricultural University of Iceland - LBHI**

Ragnhildur Sigurðardóttir

E: [ragnhildurs@lbhi.is](mailto:ragnhildurs@lbhi.is)

<http://www.sheepskills.eu/>

Description: Sheep have played a great role in landscape management, nature conservation, in regional economies and in rural culture in nearly all European countries. Meadows and nature grazed by sheep are amongst the richest biotopes as regards diversity of different plants and insects. Beyond the contribution of sheep to landscape management and nature conservation sheep farming has a potential for the regional economy.

All politicians and regional developers talk about experience economy and experience tourism as new opportunities for economic growth. In remote and rural areas sheep and shepherding can make a considerable contribution to sustainable agricultural tourism. The regional economy could benefit by the emergence of new sources of income, e.g. from nature conservation, from funding for land, from farmers “hiring” sheep as “grass cutters”, from sustainable agriculture tourism, from designing new products from sheep and from developing new business models.



There could be events like sheep dog demonstrations and open courses on shepherding skills. Crafts around the wool and skin and the art of preparing traditional food could be experienced. The Leonardo innovation transfer project intends to develop a curriculum for shepherds in Europe, including

- basic knowledge on European sheep races and their contribution to natural and cultural heritage
- sheep and the European landscape
- the physiology of sheep
- aspects of health and nutrition
- shepherding with sheep dogs
- economic aspects of shepherding
- contributions to sustainable agricultural tourism and to a new experience economy – guidelines, best practice models
- ICT, e-learning, e-collaboration, and e-commerce skills

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### **Animal Production (Sheep)**

#### **Agribusiness Training**

Christchurch, New Zealand

T: 03 343 3470 / 0800 444 313

E: [abtchristchurch@agribusiness.ac.nz](mailto:abtchristchurch@agribusiness.ac.nz)

<http://www.agribusiness.ac.nz/index.php?pageLoad=14&cid=81&ccId=4>

Description: Producing profitable livestock isn't just a case of providing the right feed. The process starts with the selection of appropriate sheep for your farm type and setting up your farming operations as effectively as possible. Missing any of the key ingredients in production means lower returns.

This course helps you ensure you cover all the basics, resulting in the best possible return for your efforts and the satisfaction of raising healthy prime Sheep, subjects covered are Wool Production, meat production, sheep health, feeding and Pastures.

## **Wool Harvesting / Shearing Schools**

### **tectra**

(New Zealand – on site)

Contact: Gavin Rowland

T: 027 432 5450 / 03 353 9294

E: [Gavin.Rowland@tectra.co.nz](mailto:Gavin.Rowland@tectra.co.nz)

<http://www.tectra.co.nz/wool-harvesting>

Description: Kiwi shearers, wool handlers and pressers have long been known as the best in the world.

Tectra is New Zealand's largest provider of wool harvesting training, and our programs ensure our people have the skills they need to continue that reputation long into the future. Enrolling in Tectra's wool harvesting training programs will provide you with a pathway to achieve a national qualification. The mixture of short courses and hands on experience makes it certain you will achieve your goals.

Wool handling and pressing courses also available, as well as a, Certificate in wool technology. Numerous contacts can be found at this site: <http://www.tectra.co.nz/contact-us>.

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## **FarmSkills Courses - Sheep**

**XL Vets** (available only in the UK)

T: 01765 608489

E: [farmskills@xlvets.co.uk](mailto:farmskills@xlvets.co.uk)

[http://www.xlvets.co.uk/farmskills/courses\\_sheep.php](http://www.xlvets.co.uk/farmskills/courses_sheep.php)

Description: Onsite, practical, farm based training, delivered by vets and industry experts to improve your livestock and business performance.

Courses include:

- Lameness and Foot Care
  - Sheep mobility and correct foot trimming
  - Practical foot trimming
  - Lameness Theory
  - Foot Trimming Practical
- Management of the Lambing Flock and the Newborn
  - Preparation for lambing time
  - Obstetrics
  - Ovine Abortion

- Fertility Management
    - Ram management
    - Control of breeding
    - Ewe management
  - Parasite Control
    - External Parasites
    - Internal Parasites
  - Nutrition
  - Basic sheep management procedures
    - Ear tagging
    - Drenching technique
    - Injection technique (intra-muscular and subcutaneous)
    - Basic examination of a sheep
    - Passing a stomach tube (lambs)
    - Castration of lambs (rubber ring)
    - Tail docking (rubber ring)
    - Recording Information
- 

**Sheep for the Smallholder**  
**the magdalen project** (on site day courses)  
T: 01460 30144  
Somerset, England  
[info@themagdalenproject.org.uk](mailto:info@themagdalenproject.org.uk)  
[courses@themagdalenproject.org.uk](mailto:courses@themagdalenproject.org.uk)

Description: A one day course covering all aspects of keeping sheep from choosing the most appropriate breed for your needs, what equipment is required, nutrition, breeding and lambing, flock health, producing stock for sale. Suitable for all; from the complete beginner, to the more experienced shepherd.

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## Mumbleys Farmhouse Country Courses

Courses offered in South Gloucestershire, UK

T: 01454 415296

E: [jules@mumbleysfarmhouse.co.uk](mailto:jules@mumbleysfarmhouse.co.uk)

Descriptions:

**Sheep Shearing for Beginners.** This one day course will be run by two very experienced professional shearers, who shear the Mumbleys flock every year for me. We now have three different varieties of sheep to practice on and the participants on this course will be able to shear as many as five sheep (if you have the stamina!) under their professional tutelage. The lecturers are Bob and Rob Leigh, who shear sheep all round the world.

**Sheep for Beginners Day.** This one day course is designed to give you a complete introduction to keeping sheep, whether as pets, lawnmowers or fattening lambs. We will also cover an introduction to breeding your own lambs and what is involved. This is a combination of theory, demonstration and practice, with opportunities to participate at all levels.

- Part One – Choosing your Sheep: The different uses for sheep, a discussion of the various types and breeds, their different uses & merits and what you should consider in making your choice.
- Part Two – Grazing & Feeding: Managing grassland for sheep – how much you will need, hedges, fencing and shelter and what to do in winter
- Part Three – Routine Management & Health: What needs doing on a daily, weekly & annual basis? The Shepherd's Calendar. What equipment you need. How to handle a sheep – demonstrations & practicals
- Part Four – Advanced Shepherding: A brief look at breeding and lambing and its requirements.

The lecturer is Jules Moore.

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## Cow & Sheep Courses

**Smallholding Life** – onsite, hands-on seminars

Carmarthenshire, United Kingdom

T: 01558 669198

E: [sales@cjtrophies.com](mailto:sales@cjtrophies.com)

<http://www.smallholdinglife.co.uk/courses/cow-sheep-courses/>

Description: The aim of this course is to give all the necessary information you will need before making a decision whether you do want to purchase either sheep or cattle. Both of these livestock (cows particularly) represent a significant increase in both time & money in

comparison to chickens or even pigs. Think carefully & plan ahead before making this commitment.

### Course Details will cover – Sheep

- Appropriate breed selection for your land
- Commercial or rare breeds, maybe even milking sheep
- Where to buy your sheep and how many
- A sheep dog or 'bucket' friendly sheep to round them up!
- Sheep handling facilities
- Sheep shearing – machine or hand, rolling fleece, felt making
- Disease control – worms, fly strike, foot rot, scab orf & scours
- Feeding – Summer/Winter & housing
- Sheep terminology – wether, hogget, ewe lamb etc
- Practical experience – Turning a sheep, foot trimming, dagging, injections & drenches
- Body condition scoring & teeth growth
- Poisonous plants
- Stock density, worming & grassland management
- Halter training
- Ewes, rams, tugging & lambing and lamb aftercare

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### **Smallholder Training Course – (On Site)**

#### **South Yeo Farm East**

Ian & Gillian Dixon

Devon, England

T: + (0)1837 810274

E: [southyeofarm@btinternet.com](mailto:southyeofarm@btinternet.com)

<http://www.southyeofarm.co.uk/sheep/index.html>

Descriptions:

**An Introduction to Sheep Keeping** - A beginner's guide to keeping sheep including, current regulations (plenty!), choosing a breed, sourcing healthy stock, feeding, annual management, handling, managing the land for sheep, how and when to send off to the butcher and potential health problems - Also briefly touches on lambing but this is covered in greater depth in our January lambing course. We will collect a group of sheep in from the field and get hands-on with several different ages and breeds (including Balwen, Shropshire, Gotland and Kerry Hill), learn how to trim feet, dag and administer wormers and different types of injections. We point out

what you should be looking for (or not) in a healthy breeding ewe and let you have a go yourself...

**Lambing** - A day spent looking at lambing from preparing the ewe & ram for tugging, care of the in-lamb ewe, preparing your lambing shed, collecting together your essential lambing kit, routine lambing, potential problems with lambing/ewe/lambs, to follow-on lamb care - if all goes well we should be 2 weeks into lambing our Shropshires with ewes & lambs to view and work with.

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### **Sheep Keeping Courses**

#### **Treberfedd Farm**

T: 01570 470672

E: [info@treberfedd.co.uk](mailto:info@treberfedd.co.uk)

Seminars held in UK

<http://www.treberfedd.co.uk/Sheep-Keeping-Courses>

Description: Introduction to Lambing Course

Dates of Most Recent Offering: Friday March 2nd 2012; Friday March 9th 2012

Topics covered will include:

- Feeding the ewe in late pregnancy

- How to spot problems during labor and when to assist the ewe

- Caring for the ewe and lamb after birth

- Reviving weak lambs and feeding

- Essential equipment needed at lambing time

- This course runs for half a day, from 1pm – 5.30pm and includes refreshments.

## **Section 3**

# **Other Educational Materials**

## 3.1 Books

Following is a list of books about sheep production. All of these books can be purchased from online or local retailers. They range in price just a few dollars to around \$100 for the more the comprehensive scientific listings. However, a majority of them are softbound and very reasonably priced. All of them are pretty high quality in content.

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### **Beautiful Sheep: Portraits of Champion Breeds**

Author: Kathryn Dun

Publication Date: November 11, 2008, First Edition

Paperback: 112 pages

ISBN-10: 0312385129

ISBN-13: 978-0312385125

Description: For those in the know, sheep are the stars of the huge annual agricultural shows, as they parade their polished hooves and oiled horns. Swathed in fleeces expertly trimmed and coiffured to accentuate their finer points, *Beautiful Sheep* is a testament that skillful shepherds can create unique and living works of art. There are a great many breeds of sheep that for centuries provided income from their wool--thus today's versions are able to produce long heavy fleeces. Likewise, those sheep used primarily for their meat were bred and developed to graze the harsh upland and hill territories well-suited for those climates.

### **Beginning Shepherd's Manual**

Author: Barbara Smith

Publication Date: May 11, 1999, Second Edition

Paperback: 160 pages

ISBN-10: 081382799X

ISBN-13: 978-0813827995



Description: Introduces shepherding to novice producers such as 4-H members, hobbyists, and farmers. The book is written by an experienced sheep producer, with chapters by a ruminant nutritionist and a veterinarian.

### **Breeding Stud Sheep**

Author: Murray Long

Publication Date: June 2008, First Edition

Paperback: 144 pages

ISBN-13: 978-0-64309-480-2

Description: *Breeding Stud Sheep* shows how to establish and manage a successful sheep stud. All aspects of stud breeding are covered, including where and how to buy your sheep, selecting the right breeding stock for your stud, flock management, nutrition, disease, lambing problems, showing sheep, promotion and marketing, and selling stud genetics. The detailed step-by-step strategies will give the reader the ability to develop alternative approaches that best suit their situation.

It also explains how new initiatives such as performance recording, DNA testing and modern reproduction techniques can be integrated with the old, time-honored traditions of sheep breeding.

Profiles of highly recognized stud breeders are included, detailing how they started and the strategies they have used to grow their stud sheep operations over many years.

This book will help new breeders avoid the pitfalls and mistakes that can occur when starting a new stud venture, and show how to succeed in what is ultimately a tough, but very rewarding industry.

### **Controlled Reproduction in Farm Animals Series Volume 2: Controlled Reproduction in Sheep and Goats**

Author: Ian Gordon

Publication Date: January 11, 1996

Hardcover: 480 pages

ISBN-10: 0851991157

ISBN-13: 978-0851991153

Description: This book is the second in a set of four providing a series on controlled reproduction in farm animals. The aim of the series is to provide a general review of the literature dealing with the different ways in which reproduction in the major farm mammals can be controlled and manipulated. The four volumes are effectively an expanded and new edition of a previous work, *Controlled Breeding in Farm Animals* (Pergamon Press, 1983). However, the literature on this subject has expanded so rapidly since the time of the earlier volume, that it is now thought appropriate to publish it in four separate volumes. Buffaloes, goats, deer and camelids have been added to the species covered by the series compared to the previous book. All volumes provide

comprehensive reference lists and are fully up-to-date. This second volume focuses on sheep and goats. It will appeal to reproductive physiologists and workers in animal production, animal breeding and veterinary medicine.

### **Dairy Sheep Nutrition**

Author: Giuseppe Pulina

Publication Date: October 28, 2004

Hardcover: 240 pages

ISBN-10: 0851996817

ISBN-13: 978-0851996813

Description: Sheep milking is widespread throughout the Mediterranean, and is becoming more common in countries such as the UK, USA, Central America, South Africa, Australia and New Zealand. Good nutrition is a critical factor in optimizing dairy production from sheep. This book is a translation of a popular Italian text, originally published in 2001 and includes updated information, and new material on temperate regions. It contains chapters on all aspects of dairy sheep nutrition and feeding, such as milk production, feed intake, nutrition and reproduction, nutrition and milk quality, and grazing and stocking rate management.

### **Gastrointestinal Nematodes of Sheep and Cattle: Biology and Control**

Authors: Ian Scott and Ian Sutherland

Publication Date: November 10, 2009

Hardcover: 256 pages

ISBN-10: 1405185821

ISBN-13: 978-1405185820

Description: A unique resource for all those interested in the impact of worms on livestock, the anthelmintics used to get rid of them and the emerging problem of anthelmintic resistance. This book provides an over-arching view of past, present and suggested future strategies for control of gastrointestinal nematode parasites in sheep and cattle.

The book begins with descriptions of the biology of gastrointestinal nematodes, the harm they cause to the host and their economic impact. The main body of the book deals with the control of worms, focusing on the use of anthelmintic drenches. The relationship between drenching practices and the development of drug resistance is discussed, as well as resistance management. The authors also break new ground by discussing alternative options for worm control, including: nutritional interventions, biological control, breeding for desirable genetics and artificially improving immunity to infection. They also offer useful recommendations for program development.

### **A Handbook for Raising Small Numbers of Sheep**

Author: Edmond C. Loomis

Publication Date: 2002, Third Edition

Paperback: 73 pages

ISBN-13: 978-1-60107-337-2

Description: This Third Edition of the handbook covers management, reproduction, nutrition, health, and wool quality. Also includes plans for barn and feeding equipment, and a glossary.

### **How to Raise Sheep**

Author: Philip Hasheider

Publication Date: April 15, 2009

Paperback: 192 pages

ISBN-10: 0760334811

ISBN-13: 978-0760334812

Description: Fluffy white sheep dotting green fields have been a part of the American landscape for centuries. And these days, this picture is more and more often a part of the small farms that have always been at the heart of country life. If you've ever envisioned sheep in your own pasture--one or two hobby animals or a full scale herd--this book is the perfect place to begin. With information on everything from particular breeds to feed requirements, fencing and general care, showing and breeding and marketing, this handy, expert guide tells you all you need to know to raise healthy sheep. Author Philip Hasheider, himself a successful farmer, offers reliable directions for getting started and going the distance. He discusses the merits of various breeds, as well as the basics of different farming methods--organic, sustainable, and conventional--and which approach best meets your needs.

### **An Introduction to Keeping Sheep**

Authors: Jane Upton and Denis Soden

Publication Date: April 1, 2007

Paperback: 208 pages

ISBN-10: 1904871224

ISBN-13: 978-1904871224

Description: This highly acclaimed book is an excellent introduction for anyone starting with sheep. It is full of detailed information and sensible advice complemented by descriptive line drawings and color plates of the breeds. The contents include buying, housing, care of the breeding flock, veterinary advice and a useful shepherd's calendar.

### **Lamb Problems: Detecting, Diagnosing, Treating**

Author: Laura Lawson

Publication Date: April 1996, Revised Edition

Paperback: 264 pages

ISBN-10: 0963392301

ISBN-13: 978-0963392305

Description: This sheep farming book shows you how to treat respiratory, scours, feet, prolapse, digestive, and 145 other problems in lambs. *Lamb Problems: Detecting, Diagnosing, Treating* uses the author's unique system of Diagnostic Check Sheets, Symptom Flow Charts, and Treatment Text.

Discover how easy it is to: DETECT - Use the Diagnostic Check Sheet to check off the lamb's symptoms. They are all listed. You simply check them off! DIAGNOSE - Use the Flow Charts indicated by the Diagnostic Check Sheet to quickly determine the problems. TREAT - Referring to the text indicated by the flow charts, you know how to treat and what medications to use. By following this simple, yet effective, system you can quickly determine the lamb's problem, treat it, and understand how and why the problem occurred.

### **Lameness in Sheep**

Author: Agnes Winter

Publication Date: November 22, 2004

Hardcover: 168 pages

ISBN-10: 1861267215

ISBN-13: 978-1861267214

Description: Lameness is one of the most important welfare issues in sheep keeping. This invaluable book has been designed to assist all those who keep sheep in controlling lameness and in maintaining a flock with sound healthy feet. This is a comprehensive reference work for all sheep keepers written by an experienced veterinary surgeon and acknowledged specialist in sheep medicine. It covers all of the main causes of sheep lameness, including foot, joint and leg. It emphasizes the importance of accurate diagnosis and the control of infectious forms of lameness. It examines the equipment needed for efficient foot care. It presents a detailed consideration of correct methods of treatment and control including foot trimming, footbaths and foot-bathing chemicals and the use of vaccine and antibiotics.

### **Living with Sheep: Everything You Need to Know to Raise Your Own Flock**

Authors: Geoff Hansen and Chuck Wooster

Publication Date: February 1, 2007

Paperback: 256 pages

ISBN-10: 1592289061

ISBN-13: 978-1592289066

Description: A unique guide to sheep, for would-be farmers and people who simply love animals and the outdoors.

### **Managing Your Ewe and Her Newborn Lambs**

Author: Laura Lawson

Publication Date: June 1997, Revised Edition

Paperback: 352 pages

ISBN-10: 096339231X

ISBN-13: 978-0963392312

Description: This sheep farming book covers preparation for breeding and lambing, lambing, and care of the ewe and lambs after lambing. Some of the things you will learn about are: Ewe & Ram Selection, Lambing Procedures, Ration Mixes, Treating Diseases of Ewes and Newborn Lambs, Handling Difficult Births, Castrating & Docking, and much more.

By following the simple system of Diagnostic Check Sheets, Symptom Flow Charts, and Written Text, you can determine a ewe's problem, treat her, and understand how and why the problem occurred.

### **A Manual of Lambing Techniques**

Authors: Agnes C. Winter and Cicely W. Hill

Publication Date: February 2003

Hardcover: 96 pages

ISBN-10: 1861265743

ISBN-13: 978-1861265746

Description: Lambing can be a challenging prospect whether it's your first or 31st season. This practical manual takes you through the period approaching, during and immediately after lambing. Advice is given on how to deal with a range of situations, including normal and malpresentations; the sick in-lamb ewe; abortion; pre- and post-lambing prolapses; the health of the newborn lamb; and problems and emergencies in the first few days.

### **Natural Sheep Care**

Author: Pat Coleby

Publication Date: March 1, 2006

Paperback: 215 pages

ISBN-10: 0911311904

ISBN-13: 978-0911311907

Description: In this comprehensive guide for all breeders and keepers of sheep, Pat Coleby draws on decades of experience in natural animal husbandry to provide essential information for organic and sustainable farmers. A longtime commercial livestock farmer who takes a natural approach to husbandry, Coleby covers breeds of sheep, wool, meat and milk production, feeding

requirements, poisonous plants, minerals and vitamins, herbal, homeopathic and natural remedies, and more. Originally published in Australia, this edition has been expanded significantly in the areas of breeding for finer wool and meat, land management, sheep management, and treatment of health problems. Coleby's step-by-step explanations of how to best benefit from a naturalistic, holistic approach make this book an invaluable resource for everyone with sheep.

## **Nutrient Requirements of Small Ruminants: Sheep, Goats, Cervids, and New World Camelids**

### **Animal Nutrition Series**

### **National Research Council**

Authors: Committee on the Nutrient Requirements of Small Ruminants

Publication Date: December 22, 2006

Hardcover: 384 pages

ISBN-10: 0309102138

ISBN-13: 978-0309102131

Description: Updating two previous National Research Council publications, *Nutrient Requirements of Sheep*, Sixth Revised Edition, 1985, and *Nutrient Requirements of Goats*, First Edition, 1981, this new book provides an evaluation of the scientific literature on the nutrient requirements of small ruminants in all stages of life. In addition, effects of the environment, feed additives, and metabolism modifiers on nutrient requirements are addressed. Proper formulation of diets for small ruminants depends on adequate knowledge of their nutrient requirements. These requirements depend on the breed and age of the animal and whether he or she is exercising, pregnant, or lactating. *Nutrient Requirements of Small Ruminants* brings together a summary of this latest data with new and expanded information on the composition of feeds commonly consumed by small ruminants, both domestic and wild. For the first time this authoritative reference work includes information on cervids and camelids. Primarily intended for animal nutritionists, veterinarians, and other scientists, some sections will be useful to individual sheep and goat owners and managers and to those responsible for the care and management of wildlife species. As both a practical and a technical reference book, this material is written to ensure that diets of small ruminants contain adequate amounts of nutrients and that intakes of certain nutrients are not so excessive that they inhibit performance or impair health.

## **Planned Sheep Production**

Authors: David Croston and GE Pollott

Publication Date: January 13, 1994

Paperback: 224 pages

ISBN-10: 0632035765

ISBN-13: 978-0632035762

Description: A comprehensive handbook on sheep breeding, production systems and marketing. The book emphasizes that a planned approach to sheep production is a necessary prerequisite for profitable production. The book draws heavily on the latest information from the Meat and

Livestock Commission, whose purpose is improving the efficiency of production and quality of meat. A major part of the book concentrates on the factors which contribute to economic production - ewe output, lamb returns including carcass quality, grassland management, breeding for characters of economic importance, ewe and ram replacement policies, feeding, planned flock health and production systems.

### **Practical Lambing and Lamb Care: A Veterinary Guide**

Authors: Andrew Eales, John Small, and Colin Macalodowie

Publication Date: November 22, 2004, Third Edition

Paperback: 272 pages

ISBN-10: 1405115467

ISBN-13: 978-1405115469

Description: Millions of lambs and ewes die each year during the lambing season. The reasons behind this high level of perinatal mortality are not easily explained and problems that do arise may be difficult to predict.

This fully revised new edition of Practical Lambing and Lamb Care attempts to unravel this complex subject by providing practical guidance and information on all aspects of lambing and lamb care. It covers the major diseases and problems in lambs, from poisoning to foot and mouth disease, and includes chapters on the health of the ewe (including abortion issues), preventative methods, lambing techniques and also considers animal welfare issues.

### **Practical Sheep Dairying**

Author: Olivia Mills

Publication Date: September 1982

Paperback: 224 pages

ISBN-10: 0722507313

ISBN-13: 978-0722507315

Description: This book is good with lots of information. It is an older book, but is still applicable. It has sections on care of sheep, types of sheep, how to build milk stands, problems you can encounter and other helpful information.

### **Raising Healthy Sheep**

Authors: Cleon Kimberling and Gerilyn Parsons

Publication Date: August 1, 2008, Second Edition

Paperback: 144 pages

ISBN-10: 1886532184

ISBN-13: 978-1886532182

Description: This handbook will help the sheep producer select production goals, select the type of sheep most suitable for a particular area, and will serve as a guide for the production of

healthy sheep. Sheep are one of the most common livestock and among the first to be domesticated. They are very adaptable and will produce milk, fiber and meat under a wide range of environmental conditions and management systems. This manual covers the main principles of sheep production and management with an emphasis on disease prevention. The production of high quality products is also discussed. This handbook will help the sheep producer select production goals, select the type of sheep most suitable for a particular area, and will serve as a guide for the production of healthy sheep.

### **Raising Sheep the Modern Way**

Author: Paula Simmons

Publication Date: January 3, 1989, Revised & Updated Edition

Paperback: 288 pages

ISBN-10: 0882665294

ISBN-13: 978-0882665290

Description: Here's the small-scale sheep raiser's bible. It includes information on: new theories about breeding, pregnancy management, and handling of lambs; new medications; new vaccines; new products; as well as a completely new chapter on using guard dogs.

### **Ruminations of a Grumpy Shepherd**

Author: Richard Regnery

Publication Date: March 10, 2010

Paperback: 332 pages

ISBN-10: 0557344220

ISBN-13: 978-0557344222

Description: Ruminations of a Grumpy Shepherd recounts Dick and Gretchen Regnery's experiences from over 20 years of raising sheep in Door County in northeast Wisconsin. In their late 30's, they abandoned their urban life to buy and rehabilitate an old dairy farm. Their flock of white and naturally colored Corriedale sheep produces specialized wool for use in hand spinning. Along with insights on raising and caring for sheep and producing quality wool, the book introduces many of the individual members of the flock. Certain flock members also contribute their own essays in order to assure that a "balanced" perspective is maintained. Join us for tales ranging from trolls and phobias to artificial insemination to a journey to the end of the earth.

### **Sheep and Goat Medicine**

Authors: D. G. Pugh DVM MS and N. (Nickie) Baird DVM MS DACVS

Publication Date: August 22, 2011, Second Edition

Hardcover: 640 pages

ISBN-10: 1437723535

ISBN-13: 978-1437723533



Description: Authoritative yet easy to read, *Sheep and Goat Medicine, 2nd Edition* covers all the latest advances in sheep and goat medicine, including medical treatment, surgery, theriogenology, and nutrition. Full-color photographs and clear instructions provide the answers you need, guiding you through common procedures and techniques such as restraint for examination, administration of drugs, blood collection, and grooming; these descriptions are often accompanied by explanatory diagrams and charts. With diseases, surgeries, and treatments organized by body system, information is always easy to find. New to this edition are chapters on parasite control, nutritional requirements, and performing a necropsy. Developed by Dr. D.G. Pugh, a world-renowned expert on the medical care of sheep and goats, this reference is unmatched for its comprehensive coverage of herd health, physical examination, anesthesia, and multisystem diseases.

### **Sheep Book: Handbook For The Modern Shepherd**

Authors: Ronald B. Parker and Garrison Keillor (Contributor)

Publication Date: August 15, 2001, Revised Edition

Paperback: 340 pages

ISBN-10: 0804010323

ISBN-13: 978-0804010320

Description: In this revised edition of *The Sheep Book*, Ron Parker updates many aspects of sheep stewardship—such as new or newly banned medications, progress in reproductive technology, popular new sheep breeds, and the growing dairy sheep field. Updated nutrition tables, as well as email and web addresses, further enhance the book’s sensible advice and gentle wit. *The Sheep Book* is organized according to the natural reproductive cycle of the ewe, leading the reader through a year in sheep’s life during which sheep and shepherd form a symbiosis. A good shepherd manages a flock so that its care and environment fits all stages of the annual journey—from breeding through pregnancy, lambing, growing of lambs, marketing of lambs and wool, and the revitalization of the ewe for another cycle. “Sheep are the ideal, useful domesticated animal,” writes Parker. “They are hardy and healthy. Except for an occasional aggressive ram or uppity ewe they are gentle and submissive. They are small enough for a good-sized child or senior citizen to handle. They give both superlative meat and a fiber that has no peer. They are the ideal animal for the homestead, small farm, place in the country, suburban backyard, or any other place where man makes his home and grass will grow.” *The Sheep Book* is especially valuable for small and moderate-scale sheep raisers and those interested in growing wool for fiber arts. Enhanced and updated for the internet age, this classic book is a valuable companion for anyone who wants to raise sheep that are healthy and productive, and to do so by working in harmony with the natural instincts of sheep and the rhythms of the natural world.

The entire *The Sheep Book* by Ron Parker, Ohio University Press (Swallow Press), is available as a group of PDF files for use by individuals at his website:

<http://hem.bredband.net/ronpar/tsb.html>.

### **Sheep Health, Husbandry and Disease**

Authors: Agnes C Winter and Clare Phythian

Publication Date: April 12, 2011

Hardcover: 192 pages

ISBN-10: 1847972357

ISBN-13: 978-1847972354

Description: This comprehensive book covers all aspects of sheep health and disease, and sheep husbandry throughout the annual breeding cycle. Through extensive and detailed photographs it highlights the disease and welfare issues that can arise within the great variety of breeds and flock types. Written by two veterinary surgeons closely involved in sheep health, this book takes a veterinary view of husbandry and emphasizes the importance of keeping diseases out of a flock. From practical tasks such as how to check teeth, feet and udders, through to vaccination schedules, injection techniques and parasite control, it covers the whole life cycle of your flock.

### **The Sheep Keeper's Veterinary Handbook**

Authors: Agnes Winter and Judith Charnley

Publication Date: September 1, 1999

Hardcover: 208 pages

ISBN-10: 1861262353

ISBN-13: 978-1861262356

Description: This comprehensive book covers how to acquire a healthy flock, routine procedures to keep them healthy, common diseases, how to identify problems, how to deal with them, and when to consult the vet. Written by two qualified veterinary surgeons, each with extensive experience of running their own flocks, the clear, easy-to-follow style will enable the book to be used by all sheep keepers, from novices or amateurs with small flocks, to those with larger or pedigree flocks.

### **Sheep Medicine**

Author: Philip Scott

Publication Date: October 31, 2006

Hardcover: 300 pages

ISBN-10: 1840760494

ISBN-13: 978-1840760491

Description: The author has many years of experience in both farm animal practice and commercial sheep farming. In this book he aims to take into account the relationship between the veterinary surgeon and the farmer by focusing on the veterinary clinical examination and inspection of husbandry practice, along with subsequent practical and cost effective advice that the veterinarian will have to discuss with the farmer. This book describes the important diseases of sheep encountered in general practice, their diagnosis, treatment, prognosis, and control. It is divided into chapters based upon each body system and, where appropriate, chapters open with a suggested approach to clinical examination of that body system. Many of the chapters conclude

with self-assessment exercises featuring typical clinical cases. This book will be of use to veterinarians in practice and training.

### **Sheep Nutrition**

Authors: Mike Freer and Hugh Dove

Publication Date: September 9, 2002

Hardcover: 400 pages

ISBN-10: 0851995950

ISBN-13: 978-0851995953

Description: This book provides a review of the current state of knowledge on all aspects of sheep nutrition. The main emphasis is on sheep grazing in systems that range from intensively utilized sown pastures to extensive rangelands.

### **Sheep Production Handbook**

American Sheep Industry Association, Inc.

Publication Date: 2002 Edition, Volume 7

Hardcover: 1060 pages

ISBN-10: 0974285706

ISBN-13: 978-0974285702

Description: This reference handbook, covering the basics of sheep production, is for beginner and experienced sheep producers alike. Topics include Sheep Breeding, Forages, Handling, Health, Management, Marketing, Nutrition, Predator Control, Quality Assurance, Reproduction, Sheep Care, Wool, and Contact Lists for State Extension Personnel, State Extension Veterinarians and State Animal Health Officers.

### **The Sheep Raiser's Manual**

Authors: William K. Kruesi and Ken Braren (Illustrator)

Publication Date: December 1984

Paperback: 288 pages

ISBN-10: 0913589101

ISBN-13: 978-0913589106

Description: Information on: grazing management; pasture renovation; parasites; housing; fencing; selection; breeding; new born lambs; lambs on grass; lamb grading; genetic improvement; controlled reproduction; record keeping; and more.

**Sheep: Small-Scale Sheep Keeping**

Author: Sue Weaver

Publication Date: June 2005

Paperback: 160 pages

ISBN-10: 1931993491

ISBN-13: 978-1931993494

Description: Whether for pleasure or profit, both neophyte and seasoned sheep-keepers will benefit from this helpful advice. This is a Hobby Farm Press publication.

**Sheep Success: The Low Cost Costwold Way (A Better Ewe & Big Bucks, Too)**

Author: Nathan Griffith

Publication Date: 2000

Paperback: 204 pages

ISBN-10: 096651033X

ISBN-13: 978-0966510331

Description: Filled with great ideas for a profitable Cotswold flock, this book also shows how you can earn more money regardless of breed.

See how today's shepherds are getting up to six times the usual net returns by using long-established—but not widely known—strategies for breeding, growing, and selling.

Boost your flock's profits with any one of the thrifty shepherd skills you'll find in this book.

**Showing Sheep: Selecting, Raising, Fitting, & Showing Guide**

Author: Laura Lawson

Publication Date: November 1994, Revised Edition

Paperback: 224 pages

ISBN-10: 0963392328

ISBN-13: 978-0918752116

Description: Everything you need to successfully show sheep. An excellent reference for 4-H, FFA and adults, whether you have never shown sheep before or you are experienced at showing and would like to learn more about how to care for and show your sheep.

**Storey's Barn Guide to Sheep**

Editor: Storey Publishing LLC

Publication Date: May 1, 2006

Spiral-bound: 96 pages

ISBN-10: 1580178499

ISBN-13: 978-1580178495

Description: Raising sheep involves far more than choosing the perfect breed and training a herding dog. The successful sheep farmer must know how to maintain his animals' health and solve daily crises, large and small.

Designed to accompany the farmer into the barn, Storey's Barn Guide to Sheep provides clear, step-by-step help, visible from several feet away. Oversized, heavy-duty pages illustrate dozens of procedures with simple, straightforward illustrations. A nail hole at the top of each page enables the farmer to open to the needed instructions, hang the book on a barn wall, and refer to the step-by-step illustrations throughout every procedure.

Graphic presentations guide farmers through trimming hooves, administering injections, assisting with lambing, bottle feeding, milking, shearing, and every other situation that might arise during the normal course of a sheep's life. In addition to the procedural information, the book also features full-color anatomical illustrations, a lambing calendar, a feeding chart, and a helpful record-keeping section.

Guiding farmers through the ups and downs of sheep care, Storey's Barn Guide to Sheep will be a trusted companion and an invaluable practical resource.

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

Authors: Carol Ekarius and Paula Simmons

Publication Date: December 16, 2009, Fourth Edition

Paperback: 438 pages

ISBN-10: 1603424598

ISBN-13: 978-1603424592

Description: *Storey's Guide to Raising Sheep* has earned the praise and trust of sheep farmers around the world, with its in-depth coverage of breed selection, lambing, feeding, housing, pasture maintenance, and disease prevention and treatment.

The new 4th edition, now with 253,000 copies in print, contains new and expanded features:

- Guidelines for organic certification
- Tips and advice on Web marketing and networking
- Coverage of rare breeds, including photographs

Storey's Guide to Raising Series is the essential animal husbandry information from the trusted source with a combined total of 1.7 million copies in print.

**Storey's Illustrated Breed Guide to Sheep, Goats, Cattle and Pigs: 163 Breeds from Common to Rare**

Author: Carol Ekarius

Publication Date: September 10, 2008

Paperback: 320 pages

ISBN-10: 1603420363

ISBN-13: 978-1603420365

Description: From the large-rumped Karakul sheep to the wrinkled Fengjing pig, North America is home to an extraordinary array of livestock breeds. Increasingly, a rare breed renaissance celebrates heritage breeds for their contribution to biodiversity, adaptation to specific environments, curious appearance, or ability to produce singular meat, milk, or fiber. At the same time, people continue to need up-to-date information about the major domestic breeds.

Finally, a single resource offers detailed information about both common and heritage breeds: Storey's Illustrated Breed Guide to Sheep, Goats, Cattle, and Pigs by Carol Ekarius. This attractive, at-a-glance reference, written by one of America's foremost livestock experts, covers 194 of North America's most significant breeds of cattle, goats, sheep, and swine — from the common Guernsey cow to the near-extinct Guinea hog. For each breed, Ekarius provides full-color photographs, a brief history, and details about the breed's unique qualities and quirks. Readers will enjoy reading about major breeds such as the iconic Holstein cow, and Icelandic sheep, as well as hundreds of lesser-known varieties, like the long-legged, ginger-colored Tamworth pig; the lilac-spotted Jacob Sheep; the deer like San Clemente goat; and the powerful, droopy-eared Guzerat cow.

Comprehensive, colorful, and captivating, this definitive, in-depth guide is informative enough to aid farmers in breed selection, but beautiful enough for fanciers to browse as a coffee-table book. Storey's Illustrated Breed Guide to Sheep, Goats, Cattle, and Pigs will appeal to anyone interested in North American livestock — small-scale farmers, conservationists, agricultural historians, gourmets, biodiversity champions, animal lovers, and anyone dreaming about crafting fibers from sheep and goats. This indispensable reference showcases North American livestock breeds for what they truly are: fascinating, stunning, and endlessly varied.

**Therapeutics and Control of Sheep and Goat Diseases, An Issue of Veterinary Clinics: Food Animal Practice**

Authors: George C. Fthenakis, DVM MSc PhD and Paula Menzies, DVM MPVM

Publication Date: February 8, 2011

Hardcover: 264 pages

ISBN-10: 1455705225

ISBN-13: 978-1455705221

Description: A comprehensive review of therapeutics and control of sheep and goat diseases for the food animal practitioner! Topics include pharmaceutical control of reproduction in sheep and goats, drug laws and regulations in sheep and goats, treatment and control of peri-parturient metabolic diseases in sheep and goats, treatment and control of mastitis and contagious agalactia,

control of important clostridial diseases of sheep, treatment and control of ectoparasites in small ruminants, treatment and control of respiratory disease in sheep, treatment of emergency conditions in sheep and goat, control of brucella ovis infection in sheep, non-pharmaceutical control of endoparasitic infections of sheep, anaesthesia and analgesia in sheep and goats, control of paratuberculosis in sheep and goats, pharmaceutical control of endoparasitic infections in sheep, treatment and control of hoof disorders in sheep and goats, and much more!

### **Veterinary Book for Sheep Farmers**

Author: David C. Henderson

Publication Date: December 2002, Revised Edition

Hardcover: 700 pages

ISBN-10: 1903366305

ISBN-13: 978-1903366301

Description: A wide-ranging manual on sheep diseases which offers to increase productivity and profitability by improving the standard of husbandry and upgrading the health status of the flock. The book stresses the understanding of the causes and development of disease so that a full prevention program can be planned. A major section describes the latest techniques for fertility control. Quick reference pages offer action checklists at key points in the shepherd's year. Appendices cover such basic but essential techniques as dipping procedures. David Henderson has experience of the practical side of raising sheep He qualified as a veterinary surgeon and has worked in a general veterinary practice. He has been an agricultural college lecturer and has worked in pharmaceutical research and development. This manual is for sheep farmers but has also been prepared with the needs of agricultural and veterinary students in mind.

### **The Welfare of Sheep**

Author: Cathy Dwyer (Editor)

Publication Date: November 19, 2010, softcover reprint of hardcover 1st ed. 2008 edition

Paperback: 380 pages

ISBN-10: 9048179092

ISBN-13: 978-9048179091

Description: The welfare of the sheep has received less attention than the welfare of intensively husbanded animals. However, domestic sheep may be kept under conditions that are very different from the environment in which wild sheep live, with adverse effects on their behavior and welfare. This book, written by leading researchers from Europe and Australia, takes a multidisciplinary approach to focus on the specific welfare challenges facing the sheep. The book begins with a discussion of current welfare thinking and how this might be relevant to sheep husbandry. The adaptations of wild sheep to diverse environments, and how their behavior and physiology has developed to deal with these conditions is described and compared to conditions in modern sheep husbandry. The varied welfare demands of disease, nutrition and metabolism, farming systems and management practices are then discussed by specialists in those areas. The book concludes by considering the economics of improved welfare, and by describing breeding goals and new challenges and opportunities for good sheep husbandry. This

book will be of interest to students and academics in animal welfare, animal production, and veterinary medicine, and those with a particular interest in or concern for sheep.



## 3.2 Sheep Extension Service Websites

Following is a list and brief description of various websites maintained by sheep extension personnel at land-grant universities throughout the United States. Many of these websites contain numerous factsheets and other publications, too numerous to list them all here. We provide only a brief description of each site and leave it up to the reader to explore. The universities are listed in alphabetical order by state with the exception of Cornell University. Some listings have more than one website listed. In those cases, even though the two websites may be linked to one another, we felt they warranted both being listed as individual sites.

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### **Colorado State University**

Colorado State University Extension Publications Online  
Livestock Publications

<http://www.ext.colostate.edu/pubs/pubs.html#livestock>

Description: This is the current CSU Extension Livestock Publication listings containing articles from 2005 to present. Articles listed cover the areas of Health, Judging, and Management.

CSU Livestock Extension/Outreach  
Sheep Extension Articles

<http://livestock.colostate.edu/sheep/articles.html>

Description: This website contains articles from the CSU Sheep Extension Service from 1992-2004. Topics include Feeding and Nutrition, Immunology and Animal Health, Meat Science, and Reproductive Technologies and Management.

### **Cornell University Sheep Program**

<http://www.sheep.cornell.edu/>

Description: This is the home page of the Cornell Sheep Program, a global source of information about sheep, wool, sheep milk, and their management, production, and marketing in the Northeastern United States.

### **Florida Agricultural and Mechanical University**

College of Engineering Sciences Technology and Agriculture

Small Ruminant Program

<http://www.famu.edu/cesta/main/index.cfm/cooperative-extension-program/agriculture/small-ruminant/about-the-small-ruminant-program/>

Description: The mission of the FAMU Small Ruminant Program is to provide research-based educational opportunities to small and limited resource goat and sheep producers in the state of Florida. In 1983, Florida A&M University (FAMU), College of Engineering Sciences, Technology and Agriculture (CESTA) recognized the role meat goats could play in complementing existing agricultural production systems. Faculty and staff at FAMU therefore, shifted their research and extension efforts to evaluating goat production as an alternative enterprise for small-scaled farmers.

### **University of Georgia Cooperative Extension**

Sheep & Goats home page

<http://extension.uga.edu/agriculture/animals/sheep-goats/>

Description: Contains publications, news, website links, and training events from the University of Georgia Cooperative Extension.

### **University of Illinois Extension**

Illini SheepNet & Meat GoatNet

<http://www.livestocktrail.illinois.edu/sheepnet/papers.cfm>

Description: The Illini SheepNet & Meat GoatNet website contains over 50 papers on sheep and goat production management. Categories include Behavior & Training, Breeding & Selection, Economics, Management, Marketing, Facilities & Housing, Feeding & Nutrition, Grafting, Grazing, Health & Disease, Lambing and Weaning.

### **Iowa State University**

Extension and Outreach

Extension Online Store – Sheep Publications

<https://store.extension.iastate.edu/ProductList.aspx?CategoryID=69>

Description: Contains the BRaNDS software ordering information as well as a sheep enterprise budget and articles on sheep diseases, parasites, lambing problems, overeating disease, shelter, pasture management, and guard animals.

### **University of Kentucky**

College of Agriculture

Animal & Food Sciences Department

Sheep Research & Education

<http://www.uky.edu/Ag/AnimalSciences/sheep/sheep.html>

Description: Home page for the University of Kentucky Animal & Food Sciences Department sheep research and education team. It contains a sheep program slide show and links to

- Sheep Information Resources
- Sheep Instruction
- Sheep Research Program
- Sheep Research Facilities
- Undergraduate and Graduate Programs

### **University of Maine**

Cooperative Extension: Livestock

Sheep & Goats

<http://umaine.edu/livestock/sheep/>

Description: Home page for the University of Maine livestock sheep extension group. It contains Are You Thinking of Raising Sheep bulletin, sheep shearers list for Maine, and research and education information.

### **Maryland Small Ruminant Page**

<http://www.sheepandgoat.com/>

Description: The Maryland Small Ruminant Page [sheepandgoat.com] is an extensive information portal for sheep and goat producers and anyone else interested in small ruminants. The site was developed and is solely maintained by Susan Schoenian, University of Maryland Extension Sheep & Goat Specialist. This home page shows links that are mostly original to this site. These articles and images may be used with permission of Susan or the other author(s).

This information portal also contains the Sheep 101 (<http://www.sheep101.info/>) and Sheep 201 (<http://www.sheep101.info/201/index.html>) materials for basic instruction of beginning sheep producers.

### **Michigan State University**

College of Veterinary Medicine

Veterinary Extension – Sheep home page

<http://cvm.msu.edu/alumni-friends/continuing-education/extension/sheep>

Description: Contains faculty contact information, links to a newsletter, and links to an extensive library of articles.

### **University of Minnesota Extension**

Small Farms Sheep and Goats home page

<http://www1.extension.umn.edu/food/small-farms/livestock/sheep-goats/>

Description: Contains articles on getting started with sheep, sheep diseases, the use of vaccines in sheep, and moldy feed for sheep and goats.

### **University of Missouri Extension**

<http://extension.missouri.edu/main/DisplayCategory.aspx?C=213>

Description: This is the sheep publications home page for the University of Missouri. It contains links to several articles on sheep production and management practices.

### **Montana State University**

MSU Animal & Range Sciences Sheep Extension Program

<http://animalrangeextension.montana.edu/sheep/sheep.htm>

Description: Links to fact sheets, research, market reports, scrapie information, and the Montana Farm Flock Sheep Production Handbook. It also contains information on the Montana Wool Harvesting School and the Montana Sheep Institute.

Montana Sheep Institute

<http://www.sheepinstitute.montana.edu/index.htm>

Description: The Montana Sheep Institute (MSI) is a cooperative project between the Montana Wool Growers Association and Montana State University. The MSI is dedicated to developing and implementing non-traditional adjustment strategies that will increase the competitiveness of Montana's lamb and wool in the world market. Our goal is to explore opportunities to increase the utilization of sheep in weed management programs and improve the profitability and competitiveness of the Montana Sheep Industry. Through this cooperative effort, we strive to utilize sheep grazing as a tool in natural resource management, reduce lamb mortality, and research non-traditional lamb and wool marketing strategies.

### **University of New Hampshire Cooperative Extension**

<http://extension.unh.edu/Agric/AGDLEP/Sheep.htm>

Description: Sheep home page for the University of New Hampshire Cooperative Extension.

### **North Dakota State University**

College of Agriculture, Food Systems, and Natural Resources

Sheep page

<http://www.ag.ndsu.edu/ndsuaag/livestock/sheep>

Description: Contains links to Sheep Fact Sheets home page maintained by Roger Haugen, NDSU Extension Sheep Specialist, the North Dakota Lamb & Wool Producers Association, an NDSU feed list serve, and the NDSU Hettinger Research Extension Center sheep page.

### **Oklahoma State University**

Sheep page

<http://pods.dasnr.okstate.edu/docushare/dsweb/View/Collection-308>

Description: This page contains links to over 20 fact sheets on topics such as slaughter lamb marketing, livestock tagging, crossbreeding sheep, breeding programs, electric fencing, starting a sheep enterprise, parasite control, sheep health and management, a planning calendar, sheep showmanship, disease, ram selection, fertility testing, foot rot, and stocking rate.

### **The Ohio State University**

OSU Sheep Team front page

<http://sheep.osu.edu/>

Description: Extensive blog site maintained by the OSU sheep extension team. It contains several articles and WebEx presentation recordings on sheep topics by OSU faculty and others.

### **Oregon State University Extension Service**

Publications & Multimedia Catalog

<http://extension.oregonstate.edu/catalog/>

Description: The Oregon State University Extension Service produces educational materials to help people across Oregon. Our catalog contains more than 1,200 items including publications, books, videos, and other educational media.

### **Sheep@Purdue**

Purdue University Sheep home page

<http://www.ansc.purdue.edu/SH/index.htm>

Description: Contains links to Purdue University sheep and goat extension articles, video and webinar presentations, research activities, blog, and personnel contact information.

### **South Dakota State University**

SDSU Sheep Extension home page

<http://www.sdstate.edu/ars/species/sheep/extension/index.cfm>

Description: Contains links to a specialized staff listing, publications, the Dakota performance ram test, education programs PowerPoints, sheep shearing school, and facilities.

iGrow Sheep website

<http://igrow.org/livestock/sheep/>

Description: A service of South Dakota State University Extension.

### **University of Tennessee Institute of Agriculture**

Department of Animal Science

Sheep Extension Program

<http://animalscience.ag.utk.edu/Sheep/Extension-Sheep.html>

Description: This is the UT Sheep Extension Program home page providing links to the 4-H Sheep Project page, publications on breeding and genetics, health and management, marketing, nutrition and forage utilization, and reproduction, and information on the Tennessee Sheep Shearing School.

### **Texas A & M University**

Department of Animal Science

Sheep & Goat Programs

<http://animalscience.tamu.edu/academics/sheep-goats/>

Description: Contains links to Texas A & M Sheep & Goats Programs

- Faculty
- Publications
- Sheep & Goat Center
- Sheep & Goat Workshops
- Sheep Skillathon Speech Topics
- Sheep Skillathon Power Point

### **Utah State University**

Cache County Extension

Sheep Production home page

<http://www.cachecounty.org/usuextension/sheep.php>

Description: Article on sheep production and a description of the annual Sheep and Goat Day held in January.

### **Virginia Cooperative Extension**

Sheep & Goats Publications Home

<http://pubs.ext.vt.edu/category/sheep-goats.html>

Description: This is the current webpage for publications on Sheep & Goats by the Virginia Cooperative Extension. Articles are dated 2009 to present.

### **Washington State University Extension**

Small Ruminants Publication page

<https://pubs.wsu.edu/ListItems.aspx?CategoryID=170>

Description: Contains articles on the control of keds, tube feeding, multispecies grazing, nutritional management, composting, quality assurance education, and odor control.

### **University of Wisconsin**

Wisconsin Sheep and Goat Extension

<http://fyi.uwex.edu/wisheepandgoat/>

Description: Contains a listing of producer resources, upcoming events, publications, and contact information for the University of Wisconsin Cooperative Extension Service.

Department of Animal Sciences Sheep Extension page

<http://www.ansci.wisc.edu/Extension-New%20copy/sheep/index.html>

Description: Contains a dairy sheep budget, Wisconsin ram testing archive, and various proceedings, presentations, and publications from the University of Wisconsin Department of Animal Sciences.

### 3.3 Other Information Portals

Following is a list and description of other websites with a dedicated focus on the sheep industry. Like the extension websites, many of these websites contain numerous factsheets and other publications. Many also maintain and make available an extensive list of links to other sheep focused resources available on the internet.

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#### **American Lamb Board**

<http://www.americanlamb.com/>

Description: Home page for the American Lamb Board containing links to the Lamb 101 materials which include cooking and nutritional informational for various lamb cuts. It also includes a cuts chart and information on buying and storing lamb as well as lamb recipes.

#### **American Sheep Industry Association**

<http://www.sheepusa.org>

Description: Home page for the American Sheep Industry Association containing links to numerous educational materials as well as links and contact information for 39 state sheep associations and 51 sheep breed associations.

#### **Cleon's Corner**

<http://www.cleonscorner.com/>

Description: Dr. Cleon Kimberling spent 40 years practicing as an extension veterinarian at Colorado State University. Cleon's Corner is a repository website for articles and thoughts from Dr. Kimberling and colleagues regarding sheep health and sheep production management issues.

#### **Livestock Library**

<http://www.livestocklibrary.com.au/>

Description: This online resource was developed by the Sheep CRC and the Beef CRC and is now managed by the Australian Wool Education Trust. It provides one-stop access to a wide range of Australian research publications, conference proceedings and reports on sheep and cattle research.

### **Manitoba Agriculture, Food and Rural Initiatives – Sheep**

<http://www.gov.mb.ca/agriculture/livestock/sheep/bsa01s00.htm>

Description: Sheep home page for the Manitoba, Canada government. It contains links to numerous articles, presentations, and factsheets pertaining to sheep production.

### **National Lamb Feeders Association**

<http://nlfa-sheep.org/>

Description: Home page for the National Lamb Feeders Association containing links to industry and association news as well as the annual Howard Wyman Sheep Industry Leadership School.

### **OPP Concerned Sheep Breeders Society**

<http://www.oppsociety.org/>

Description: Home page for the OPP Concerned Sheep Breeders Society. OPP is Ovine Progressive Pneumonia which, according to research, is prevalent in about 26% of sheep in the United States. This website represents an organized effort to combat this disease and contains an abundance of information on the disease and on-going research and efforts to manage it.

### **Ranching with Sheep**

<http://www.ranching-with-sheep.com/>

Description: Explore our site and learn about flock management via a low input, sustainable grass based manner. From our experience it is a very workable arrangement.

- On this site we discuss the elements that make sheep management on pasture work
- We discuss how to start a flock of sheep and some pros and cons to pasture lambing
- We share the basic facts about sheep farming
- And when ranching with sheep, herding dogs and livestock guardian dogs become an essential part of the operation
- Need to learn about sheep breeds suited to grass or what to do about sheep wool?

We cover that to.

### **sheep!**

<http://www.sheepmagazine.com/index.html>

Description: sheep! Magazine, The Voice of the Independent Flockmaster, explores a wide range of sheep-related topics of interest to sheep growers and sheep product marketers at all levels of experience. The sheep! magazine website library contains a number of articles on various topics.

### **SheepBooks.com**

<http://www.sheepbooks.com/>

Description: Are you sheep farming, raising or breeding sheep, showing sheep or considering starting in sheep? Our sheep books will answer your questions. Sheep Care Books by Laura Lawson use a unique system of Diagnostic Check Sheets, Symptom Flow Charts, and Treatment Text so you can easily and quickly diagnose and solve sheep problems or find solutions for your sheep farming operation.

### **Sheep and Goat Research Journal**

[http://www.sheepusa.org/Sheep\\_and\\_Goat\\_Research\\_Journal](http://www.sheepusa.org/Sheep_and_Goat_Research_Journal)

Description: The seminal journal for sheep and goat research with articles dating back to 1994.



**WikiHow**

How to Get Started Raising Sheep

<http://www.wikihow.com/Get-Started-in-Raising-Sheep>

Description: Raising sheep is rewarding - whether it be for one's livelihood, as a source of homegrown food or as a hobby. But success in raising sheep requires good planning in advance and solid, continual management of the sheep farm. Here are some starting pointers to help the beginner who is starting out with raising sheep. More complex topics on raising sheep will be added over the course of time.

**Wikipedia**

Sheep

<http://en.wikipedia.org/wiki/Sheep>

Description: Very comprehensive Wikipedia Encyclopedia entry for sheep.

**Woolshed 1**

<http://woolshed1.blogspot.com/>

This website provides wide-ranging information on animal production in NZ, alongside insights into the often entertaining agricultural heritage of Northumberland in the UK, where the editor's farming journey began. The editor is Dr Clive Dalton who studied agriculture in the UK before teaching animal production at Leeds University. He came to New Zealand to do hill country animal research and then extension/promotion at the Ruakura Research Centre.