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Alternative Farming Systems Information Center

## Organic Livestock Production: A Bibliography

Selected citations from 1974-September 2004

*Special Reference Briefs Series* no. SRB 2004-05  
September 2004



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### National Agricultural Library Cataloging Record:

Gold, Mary V.  
Organic livestock production : a bibliography  
(Special reference briefs ; NAL-SRB. 2004-05  
1. Livestock systems--Bibliography.  
2. Organic farming--Bibliography. I. Title  
as21.D27 S64 no. 2004-05.  
ISSN 1052-536x

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# Introduction

## Current Status of Organic Livestock Production in the U.S.

In 2003, the U.S. Department of Agriculture's Economic Research Service (ERS) published comprehensive data and analysis for organic crop and livestock production for the first time. Their findings revealed that organically raised livestock beef cows, dairy cows, sheep, hogs and pigs, laying hens, and broilers all exhibited strong growth between 1997 and 2001. In fact, two organic livestock sectors poultry and dairy were the fastest growing sectors in overall organic production. [*U.S. Organic Farming in 2000-2001: Adoption of Certified Systems*, by Catherine Greene and Amy Kremen (AIB780) April 2003 <http://www.ers.usda.gov/publications/aib780/>] From the report:

- Farmers and ranchers raised over 72,200 certified organic cows, pigs, and sheep in 28 States in 2001, up 28 percent from the previous year.
- The number of certified organic milk cows jumped 27 percent from 2000 to 2001, and nearly quadrupled between 1997 and 2001.
- Twenty-seven States contained almost 15,200 certified organic beef cows in 2001, up 243 percent since 1997.
- The United States had 1.6 million certified organic laying hens in 2001, up from 537,826 birds in 1997. Certified organic broilers totaled 3.29 million birds in 2001, up from 38,285 in 1997. The number of certified organic turkeys was 98,653 in 2001, up from 750 turkeys in 1997.
- Over 3,100 hogs and pigs were certified organic in 2001.
- Certified organic pasture and rangeland increased 109 percent between 1997 and 2001, and increased 28 percent from 2000 to 2001.

Certification and labeling of organic livestock product in the United States were very limited before 1999. Although organically produced eggs were exempted from USDA labeling restrictions, meat and poultry could not be labeled as organic until February 1999, when a provisional label was established by USDA. The current National Organic Program (NOP) standards, which went into effect in October 2002, do include production standards and labeling guidance for most livestock and livestock-derived products. The NOP standards include provisions for acceptable origin of animals, appropriate livestock feed, standards for health care practices, and living conditions

that must be provided. [National Organic Program, Program Standards <http://www.ams.usda.gov/nop/NOP/standards.html>]

Since the implementation of USDA National Organic Standards and the availability of the USDA Organic Seal, growth in the market and sales of organic meat, poultry, eggs and dairy products have continued to expand. According to the Organic Trade Association's 2004 Manufacturer Survey, organic foods grew 20.4 percent in 2003 and accounted for \$10.38 billion in consumer sales. Of that total, organic dairy products, with 13 percent of organic food sales, accounted for \$1.38 billion with a 20.3 percent growth rate for 2003. Meat, fish and poultry accounted for \$75 million in sales, with a 77.8 percent growth rate during 2003. This rapidly growing sector comprises 1 percent of all organic food sales. [OTA 2004 Manufacturer Survey Overview, Organic Trade Association and *Nutrition Business Journal* <http://www.ota.com/pics/documents/2004SurveyOverview.pdf>]

## Organic Livestock Research

Research activity pertaining to organic farming systems has lagged behind that for conventional agriculture. And organic livestock systems research remains a small portion of organic research efforts. In the 1997 USDA research study, *Searching for the "O" Word*, author Mark Lipson, of the Organic Farming Research Foundation (OFRF), identified just 34 projects that were explicitly focused on organic farming systems out of a total 30,000 USDA funded projects at that time. (as documented in USDA's Current Research Information System (CRIS) database, <http://cris.csrees.usda.gov/>). Only one of these projects dealt with livestock husbandry. He also found several projects he termed "weak" organic, i.e. having an "organic component inferred": one livestock husbandry project and 17 rangeland and forage projects.

Since the OFRF report, attention to, and funding for, organic livestock systems and husbandry research has been growing. Most recently, USDA's Cooperative State Research, Education, and Extension Service (CSREES) Integrated Organic Program awarded \$4.5 million in grants. Four of the 11 projects awarded focused specifically on livestock issues [USDA Press Release No. 0423.04, Sept. 29, 2004 [http://www.csrees.usda.gov/newsroom/releases/organic\\_agproject.html](http://www.csrees.usda.gov/newsroom/releases/organic_agproject.html)]:

- *University of Arkansas, \$305,015, for slow-growing broilers in organic production: an alternative to supplemental methionine and a marketing opportunity*
- *Tufts University, \$197,768, for strengthening the scientific foundation of organic standards on animal health and welfare*
- *Cornell University, \$518,306, for the transitioning dairy: identifying and addressing challenges and opportunities in milk quality and safety*
- *University of Vermont, \$301,161, for profitability and transitional analysis of northeast organic dairy farms*

The Sustainable Agriculture and Research (SARE) program has funded and continues to fund projects on organic production and husbandry. [SARE Project Reports <http://www.sare.org/projects/>] A recent count (Oct. 12, 2004) of project reports with "Organic" in the title found about 20 that focused on livestock issues out of a total 2713 reports cited in this database. In addition, USDA's Agricultural Research Service (ARS) has initiated several organic research projects pertinent to animal husbandry and health, livestock systems, and forage production.

## Information Resources

Information resources for livestock producers and marketers have likewise become more numerous and available. A search for Extension outreach publications will now yield helpful guidance and contacts. ATTRA, the National Sustainable Agriculture Information Service, funded by USDA, provides excellent practical information and publications about organic livestock production, marketing, and certification.

Bibliographic databases, in addition to helping searchers locate individual publications, can be good indicators as to a topic's informational "status." Using the search capabilities to quantify database content, in terms of publication year, general topic, and language, can reveal a great deal. For instance, a recent search (Oct. 13, 2004) of CAB Abstracts (CABI Publishing) for organic livestock-related documents published during the past five and a half years (1999-2004) turned up 665 citations. Of these, 425 were in English and 241 more than a third were written in other languages. Only 28 citations pertained specifically to U.S. or North American activities; 372 were specific to Europe; and 32 were specific to Asia. (Some citations were not geographically labeled.) The total number of relevant citations found for these five years is more than three-times the number found in the previous five year period, 1994-1998 (219 citations).

Analogies may also be observed in this data. For example, the topic of Dairy Cattle Production displays a disproportionately large number of citations for research and conference papers, and of marketing data, originating in Northern Europe. This pattern in the literature reflects the level and kinds of activity in these areas in Europe where there is an active dairy farming and research community, supportive government policy, and strong consumer markets.

Electronically accessible data sources, including databases and the Internet, contain only a small portion of the "knowledge base" relevant to organic livestock production. Many books and reports pre-date electronic formats. Also, a great deal of farmer-generated information is confined to organizational newsletters and networks with limited circulation. Research results often don't make it to accessible venues, or rest within the covers (paper and virtual) of expensive professional journals. Finally, a great deal of relevant research is documented in German, French, Danish, Russian, and other languages, with limited translations into English.

## About this Bibliography

This bibliography attempts to represent selected documentation from a wide range of resources: bibliographic databases, conference proceedings, Extension publication lists, research archives, and more. (See [Appendix A](#) for a sampling of sources searched in compiling this bibliography.) Some of the citations provide links to full-text documents; most do not. All publications cited are in English, and were produced starting in the early 1970s up until September 2004. Cited items held by the National Agricultural Library (NAL) are noted with NAL call numbers.

Citations are arranged by animal species, with a substantial chapter on General Livestock Production, containing citations for publications that are not species-specific, or are about multiple species. Each chapter is broken down into subsections related to Animal Husbandry and Welfare, Veterinary Practices, Certification, Economic Issues, Marketing, Processing, Food Quality. Some chapters have been augmented with sections about animal products, e.g. eggs and dairy products.

Although there are many veterinary-related publications listed in this bibliography, this compilation strives to address overall animal husbandry and health and is not meant to be comprehensive in terms of therapy, drugs, and other medical treatments for animals. References descriptive of animal health and welfare topics separate from veterinary care issues are listed in the Animal Husbandry sub-topic sections in each chapter. This publication also comes with the following caveat: all husbandry and veterinary practices, as well as meat, poultry, dairy and egg handling operations, are subject to organic standards and other regulations which vary with certifying agent, regulatory agency, and from country to country. Careful study should be applied before attempting any organic livestock production, handling or marketing enterprise.

Artwork appearing on the title page of this publication is by Rini Templeton.

## Disclaimers

Although we have tried to provide the most current and correct information available, the Alternative Farming Systems Information Center does not assume any legal liability or responsibility for the accuracy or completeness of the information resources presented. Internet links to people, web sites and documents change constantly; the links in this document were checked and accessed successfully on September 10, 2004.

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## General Livestock Production

Note: Each citation appearing in the General Livestock Production section pertains to livestock production in general, or to multiple species and/or facets of production.

### General Livestock Production – Overview

1. "Animal Health and Welfare in Organic Livestock Production," by D. Gray and M. Hovi. In *Organic Livestock Farming: Papers Presented at a Conference Held at the Heriot Watt University, Edinburgh and at the University of Reading, UK, 9 and 10 February 2001*, pp. 45-74. Lincoln, UK: Chalcombe Publications, 2001.  
Keywords: animal health; livestock production; animal welfare; animal diseases; surveys; pest control; veterinary medicine
2. "Animal Health and Welfare in Organic Livestock Production in Europe: Current State and Future Challenges," by M. Hovi, A. Sundrum, and S. M. Thamsborg. *Livestock Production Science* 80, no. 1/2 (2003): 41-53. Note: EAAP Publication 1-2003. [NAL Call #: SF1.L5]  
Keywords: animal health; feeds; livestock production; animal welfare; laws and legislation; beef cattle; animal diseases; milk

production; poultry; swine; sheep; Europe

3. "Animal Production Problems in European Agriculture and Possible Solutions in Organic Farming Systems," by E. Boehncke. In *Global Perspectives on Agroecology and Sustainable Agricultural Systems: Proceedings of the Sixth International Scientific Conference of the International Federation of Organic Agriculture Movements (IFOAM)*, pp. 317-322b. Santa Cruz, CA: Agroecology Program, University of California, c1988. [NAL Call #: S605.5.145 1986]  
Keywords: livestock production; environmental impact; economic analysis; animal health; animal nutrition; comparisons; Europe
4. "Animals in Ecological Farming - Possibilities and Limitations," by G. M. Gustafson. *Nordisk Jordbrugforskning* 81, no. 3 (1999): 46-49. [NAL Call #: 11 N752]  
Keywords: farming systems; grazing; livestock production
5. "Biological Farming in Switzerland 1996/1997," by S. Hartnagel and B. Freyer. *Newsletter of the European Network for Scientific Research Coordination in Organic Farming* 6 (1997): 22-25.  
Keywords: livestock production; farming systems; profitability; organic transition; Switzerland
6. "Can Organic Farming Help to Reduce N-Losses? Experiences From Denmark," by T. Dalgaard, N. Halberg, and I. S. Kristensen. *Nutrient Cycling in Agroecosystems* 52, no. 2/3 (1998): 277-287. *Note*: Paper: "International workshop on dissipation of N from the human N-cycle and its role in present and future N<sub>2</sub>O emissions to the atmosphere" held May 22-25, 1997, Oslo, Norway. [NAL Call #: S631.F422]  
Keywords: nutrient management; farming systems; Denmark
7. "Characterisation of Extensive, Sustainable and Organic Agricultural Systems," by M. Espejo Diaz et al. In *Livestock Farming Systems: Integrating Animal Science Advances into the Search for Sustainability: Proceedings of the Fifth International Symposium on Livestock Farming Systems, Posieux, Fribourg, Switzerland, 19-20 August, 1999*, edited by D. Gagnaux and J. R. Poffet, pp. 90-95. Wageningen, Netherlands: Wageningen Pers, 2000.  
Keywords: livestock production; economics; environmental impact; farming systems; comparisons
8. "The Comparative Productivity of Organic Agriculture," by G. Stanhill. *Agriculture, Ecosystems and Environment* 30, no. 1/2 (1990): 1-26. [NAL Call #: S601.A34]  
Keywords: milk production; egg production; yields; farming systems; comparisons
9. "Comparison of Landscape Features in Organic and Conventional Farming Systems," by J. D. van Mansvelt, D. J. Stobbelaar, and K. Hendriks. *Landscape and Urban Planning* 41, no. 3/4 (1998): 209-227.  
Keywords: farming systems; environmental impact; biodiversity; biodynamic farming; land use; comparisons; Europe
10. *Conservation and Utilization of Land Resources in Less Favored Areas With Special Emphasis on the Roles of Livestock and Technology: Proceedings of the International Workshop, Matsue and Oda, Japan, 20-23 September, 1999* (CNAES Report). Hiroshima, Japan: Chugoku National Agricultural Experiment Station, 2000.  
Keywords: land resources; livestock production; conservation practices; farming systems; Japan; Finland; Germany; Switzerland; Europe
11. "Conversion of Cattle and Sheep Suckler Farming to Organic Farming: Adaptation of the Farming System and Its Economic Consequences," by M. Benoit and P. Veysset. *Livestock Production Science* 80, no. 1/2 (2003): 141-152. *Note*: EAAP Publication 1-2003. [NAL Call #: SF1.L5]  
Keywords: economic analysis; farming systems; organic transition; cattle; sheep; meat production; comparisons; profitability; France
12. "Development of Organic Livestock Production and Certification in Latvia," by A. Jemeljanovs et al. In *Organic Livestock Farming: Potential and Limitations of Husbandry Practice to Secure Animal Health, Welfare and Food Quality: Proceedings of the 2nd SAFO Workshop, 25-27 March, University of Kassel, Witzenhausen, Germany*, edited by M. Hovi, A. Sundrum, and S. Padel, pp. 183-192. Reading, UK: Sustaining Animal Health and Food Safety in Organic Farming (SAFO); University of Reading, 2004.  
Available online: [http://www.safonetwork.org/publications/wp2pub/2\\_SAFO\\_pro.pdf](http://www.safonetwork.org/publications/wp2pub/2_SAFO_pro.pdf) (accessed September 10, 2004)  
Keywords: food safety; livestock production; meat; milk; comparisons; Latvia
13. "The Development of Sustainable Farming Systems and the Challenges That Face Producers in the EU," by I. A. Wright, G. Zervas, and L. Louloudis. In *Organic Meat and Milk From Ruminants: Proceedings of a Joint International Conference Organised by the Hellenic Society of Animal Production and the British Society of Animal Science, Athens, Greece, 4-6 October 2001*, edited by I. Kyriazakis and G. Zervas, pp. 27-37 (EAAP Publication 106). Wageningen, Netherlands: Wageningen Academic Publishers, 2002. Keywords: livestock production; beef production; economics; marketing; milk production; organic transition; Europe
14. "Diversified Small Farm Serves Local Market: Tony and Dela End's Scotch Hill Farm," by J. Padgham. *The Organic Broadcaster*

(MOSES The Midwest Organic and Sustainable Education Service) (2002)

Available online: <http://www.mosesorganic.org/ob/scotchhill.htm> (accessed September 10, 2004)

Keywords: case studies; goats; free-range husbandry; poultry; chickens; community supported agriculture; livestock production; marketing; eggs; dairy products

15. *Diversity of Livestock Systems and Definition of Animal Welfare: Proceedings of the Second NAHWOA Workshop, Cordoba, Spain, January 8-11, 2000*, edited by M. Hovi and R. Garcia Trujillo. Reading, UK: University of Reading Library, 2000.  
Available online: <http://www.veeru.reading.ac.uk/organic/proc/proceedings.htm> (accessed September 10, 2004)  
Keywords: animal welfare; livestock production; farming systems
16. "The Diversity of Organic Livestock Systems in Europe," by S. Roderick et al. In *Animal Health and Welfare in Organic Agriculture*, edited by M. Vaarst et al., pp. 29-56. Wallingford, UK: CABI Publishing, 2004.  
Keywords: livestock production; farming systems; Europe
17. "Does Organic Farming Require Too Much Livestock," by J. Bender. *American Journal of Alternative Agriculture* 3, no. 1 (1988): 2, 40. [NAL Call #: S605.5.A43]  
Keywords: livestock production; farm inputs; manures
18. "Ecological Agriculture What It Is and How It Works," by M. Kiley-Worthington. *Agriculture and Environment* 6, no. 4 (1981): 349-381. [NAL Call #: S601.A34]  
Keywords: livestock production; ecology; environmental impact; farming systems
19. "Eight Years of Organic Farming at Pwllpeiran - Livestock Production and the Financial Performance of Organic Upland Farms," by David Frost, Barbara M. L. McLean, and Eifion D. Evans. In *UK Organic Research 2002: Proceedings of the COR Conference, 26-28th March 2002, Aberystwyth*, edited by Jane Powell et al., pp. 259-262. Aberystwyth: Organic Center Wales, 2002.  
Available online: <http://www.organic.aber.ac.uk/library/Eight%20years%20of%20organic%20farming%20at%20Pwllpeiran.pdf> (accessed September 10, 2004)  
Keywords: livestock production; beef cattle; sheep; grazing; economics; meat production; pasture management; United Kingdom
20. *Enhancing Animal Health Security and Food Safety in Organic Livestock Production Systems: Abstracts for the 3rd SAFO Workshop, 16-18 September, 2004, in Falenty, Poland*. Reading, UK: Sustaining Animal Health and Food Safety in Organic Farming (SAFO); University of Reading, 2004.  
Available online: <http://www.safonetwork.org/workshops/ws3/ws3abstract.pdf> (accessed September 10, 2004)  
Keywords: livestock production; animal health; animal welfare; food safety
21. *The Environmental Impacts of Organic Farming in Europe*, by M. Stolze et al. (Organic Farming in Europe: Economics and Policy, 6). Stuttgart, Germany: University of Hohenheim, Department of Farm Economics, 2000.  
Keywords: livestock production; farming systems; environmental impact; agricultural policy; comparisons; Europe
22. "Establishment of Organic Experimental Farms in Denmark A Multi-Disciplinary Study," by V. Ostergaard. In *Economic Aspects of Environmental Regulations in Agriculture: Proceedings of the 18th Symposium of the European Association of Agricultural Economists (EAAE), November 1-4, 1988, Tunde, Copenhagen, Denmark*, edited by A. Dubgaard and A. H. Nielsen, pp. 289-298. Kiel, German Federal Republic: Wissenschaftsverlag Vauk, 1989.  
Keywords: livestock production; economic analysis; agricultural policy; Denmark
23. *Ethics and Animal Welfare in Organic Animal Husbandry: An Interdisciplinary Approach*, by Vonne Lund. Skara: Swedish University of Agricultural Sciences, 2002. Note: Thesis (doctoral), Swedish University of Agricultural Sciences, 2002. [NAL Call #: SF615 .A28 no. 137]  
Keywords: animal welfare; livestock production
24. *European Organic Production Statistics, 1993-1996*, by C. Foster and N. Lampkin (Organic Farming in Europe: Economics and Policy, 3). Stuttgart, Germany: University of Hohenheim, Department of Farm Economics, 2000.  
Keywords: livestock production; statistics; crop production; demography; Europe
25. *Extensive and Organic Livestock Systems: Animal Welfare Implications: Proceedings of a Symposium Organized by Universities Federation for Animal Welfare and Humane Slaughter Association: Held at the Royal Agricultural College, Cirencester, 10th, 11th, September 1990*, edited by Universities Federation for Animal Welfare. Hertfordshire, England: Universities Federation for Animal Welfare, c1993. [NAL Call #: HV4757.E98 1993]  
Keywords: animal welfare; livestock production; farming systems; slaughter; United Kingdom
26. *Farm Animal Welfare - Who Writes the Rules? Proceedings of an International Symposium*, edited by A. J. F. Russel et al. (Occasional Publication 23). Edinburgh: British Society of Animal Science, 1999. [NAL Call #: SF5 B74 no. 23]  
Keywords: animal welfare; livestock production; laws and legislation; slaughter; Europe

27. "Farm Profile: Sortorp, an Organic Farm in Sweden," by W. Lockeretz. *American Journal of Alternative Agriculture* 14, no. 1 (1999): 37-42. [NAL Call #: S605.5.A43]  
Keywords: business management; education; livestock production; marketing; case studies; Sweden
28. *First SREN Workshop on Research Methodologies in Organic Farming: Proceedings, Frick, Switzerland, 30 September- 3 October 1988*, edited by R. Zanolli and R. Krell (REU Technical Series 58). Rome: Food and Agriculture Organization (FAO), 1999.  
Keywords: research; models; education; livestock production; case studies
29. *Food, Health and the Environment: The Vital Connections: Proceedings of the 9th National Conference of British Organic Farmers, Organic Growers Association, Cirencester, UK, 6-8 January 1995*. Bristol, UK: Organic Growers Association, 1995.  
Keywords: dairy farming; livestock production; crop production; milk production; United Kingdom
30. "Future Developments in Organic Farming - Implications for the Animal Feed Industry," by N. Lampkin. In *Recent Advances in Animal Nutrition: 2001*, by P. C. Garnsworthy and J. Wiseman, pp. 151-159. Nottingham, UK: Nottingham University Press, 2001.  
Keywords: livestock production; economic outlook and situation; feeds; organic transition; laws and legislation; Europe
31. "Future Strategies for Livestock Production in Tropical Third World Countries," by T. R. Preston. *AMBIO* 19, no. 8 (1990): 390-393. [NAL Call #: QH540.A52]  
Keywords: cattle; economics; environmental impact; tropics; developing countries; livestock production
32. *The Humane Consumer and Producer Guide*. Minneapolis, MN; Washington, DC: Humane Sustainable Agriculture Project of the International Alliance for Sustainable Agriculture; Humane Society of the United States, c1993. [NAL Call #: S494.5.S86H86]  
Keywords: meat production; livestock and meat industry; consumer economics; United States
33. "Incorporation of Existing Animal Welfare Assessment Techniques into Organic Certification and Farming," by T. Leeb et al. In *Organic Livestock Farming: Potential and Limitations of Husbandry Practice to Secure Animal Health, Welfare and Food Quality: Proceedings of the 2nd SAFO Workshop, 25-27 March, University of Kassel, Witzenhausen, Germany*, edited by M. Hovi, A. Sundrum, and S. Padel, pp. 169-176. Reading, UK: Sustaining Animal Health and Food Safety in Organic Farming (SAFO); University of Reading, 2004.  
Available online: [http://www.safonet.org/publications/wp2pub/2\\_SAFO\\_pro.pdf](http://www.safonet.org/publications/wp2pub/2_SAFO_pro.pdf) (accessed September 10, 2004)  
Keywords: animal welfare; animal health; certification; livestock production; European Union
34. "Increasing the Efficiency of Plant Nutrient Recycling Within the Agricultural System As a Way of Reducing the Load to the Environment - Experience From Sweden and Finland," by A. Granstedt. *Agriculture, Ecosystems and Environment* 80, no. 1/2 (2000): 169-185. [NAL Call #: S601.A34]  
Keywords: livestock production; crop production; nutrient management; manures; conservation practices; environmental impact
35. "Integrated Evaluation of Greenhouse Gas Emissions (CO<sub>2</sub>,CH<sub>4</sub>,N<sub>2</sub>O) From Two Farming Systems in Southern Germany," by H. Flessa et al. *Agriculture, Ecosystems and Environment* 91, no. 1/3 (2002): 175-189. [NAL Call #: S601 .A34]  
Keywords: farming systems; air pollution; environmental impact; pasture management; beef cattle; nutrient management; cropping systems; Germany
36. "Integrating Animals into a Production System," by H. H. Koepf. In *Sustainable Agriculture & Integrated Farming Systems: 1984 Conference Proceedings*, edited by Thomas C. Edens, Cynthia Fridgen, and Susan L. Battenfield, pp. 34-42. East Lansing, MI: Michigan State University Press, 1985. [NAL Call #: S441.S8]  
Keywords: livestock production; farming systems; soil quality; Germany; Austria; United States; Sweden
37. "Investigations on the Nutrient Cycle and Its Components of a Biodynamically Managed Farm," by C. Nolte and W. Werner. *Biological Agriculture and Horticulture* 10, no. 4 (1994): 235-254.  
Keywords: livestock production; pasture management; soil quality; economic analysis; biodynamic farming; nutrient management; manures; rotations
38. "Just What Is Organic Meat?," by Kenneth Solway. *Cognition* (1995) Note: Posted by Ecological Agriculture Projects, McGill University  
Available online: [http://eap.mcgill.ca/MagRack/COG/COG\\_E\\_95\\_04.htm](http://eap.mcgill.ca/MagRack/COG/COG_E_95_04.htm) (accessed September 10, 2004)  
Keywords: livestock production; meat production; marketing
39. *Livestock, Ethics, and Quality of Life*, edited by John Hodges and I. K. Han. Wallingford, UK: CABI Publishing, 1999. Note: Chapters: Ethics and community of life in animal production; Agribusiness and consumer ethical concerns over animal use and foods of animal origin: the emergence of new ethical thinking in society; An alternative ethic for animals; Consumer expectations for animal products: availability, price, safety and quality; Ethics, culture and development: livestock, poverty and quality of rural life; Intensification of agriculture and free trade; Livestock, ethics and quality of life in Asia: the food-feed dimension of grain



demand; Livestock, ethics, quality of life and development in Latin America; Livestock, ethics, quality of life and development in Africa; The relationship of ethics to livestock and quality of life; Why livestock, ethics and quality of life?; Animal biotechnology: convergence of science, law and ethics; Animal welfare and use. [NAL Call #: SF140.S62-L58-1999]  
Keywords: animal welfare; ethics; consumer economics; housing; animal behavior

40. *Livestock Farming Systems: Integrating Animal Science Advances into the Search for Sustainability: Proceedings of the Fifth International Symposium on Livestock Farming Systems, Posieux, Fribourg, Switzerland, 19-20 August, 1999*, edited by D. Gagnaux and J. R. Poffet. Wageningen, Netherlands: Wageningen Pers, 2000.  
Keywords: feeds; animal health; animal nutrition; livestock production; animal welfare; grazing; conservation practices
41. "Managing Soil Fertility in Organic Farming Systems," by C. A. Watson et al. *Soil Use and Management* 18, no. supplement (2002): 239-247. [NAL Call #: S590.S68]  
Keywords: livestock production; manures; nutrient management; soil quality; crop production; cropping systems
42. *Methods in Agricultural Chemical Analysis: A Practical Handbook*, by N. T. Faithfull. Wallingford, UK: CABI Publishing, 2002.  
*Note:* Contains chapter: Methods for organic farmers and growers.  
Keywords: animal nutrition; chemical composition; feeds; silage; soil quality
43. "A Model for Fossil Energy Use in Danish Agriculture Used to Compare Organic and Conventional Farming," by T. Dalgaard, N. Halberg, and J. R. Porter. *Agriculture, Ecosystems and Environment* 87, no. 1 (2001): 51-65. [NAL Call #: S601.A34]  
Keywords: cropping systems; crop yield; energy; farming systems; cattle; swine; comparisons; Denmark
44. "A Multi-Scale System Approach to Nutrient Management Research in the Netherlands," by J. J. Neeteson, J. J. Schroder, and H. F. M. t. Berge. *Netherlands Journal of Agricultural Science* 50, no. 2 (2002): 141-151. [NAL Call #: 12 N3892]  
Keywords: livestock production; dairy farming; farming systems; land use; nutrient management; Netherlands
45. "Natural Behavior, Animal Rights, or Making Money - A Study of Swedish Organic Farmers' View of Animal Issues," by V. Lund, S. Hemlin, and J. White. *Journal of Agricultural and Environmental Ethics* 17, no. 2 (2004): 157-179. [NAL Call #: BJ52.5 .J68]  
Keywords: ethics; animal behavior; livestock production; animal welfare; farmers' attitudes; Sweden
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## General Livestock Production – Certification

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### Dairy Cattle Production – Overview

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# Poultry Production (Chickens, Turkeys, Ducks, Geese)

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## Poultry Production – Animal Husbandry and Welfare

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Keywords: egg production; poultry production; costs and returns; economics; farm budgets
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## **Poultry Production – Broilers – Animal Husbandry and Welfare**

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Keywords: chickens; poultry production; housing; pasture management
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## **Poultry Production – Laying Hens – Animal Husbandry and Welfare**

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## Swine Production

### Swine Production – Overview

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## Swine Production – Veterinary Practice

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## Swine Production – Marketing

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## Small Ruminant Production (Goats and Sheep)

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## Small Ruminant Production – Meat Animals – Animal Husbandry and Welfare

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### Appendix A: Selected Databases and Information Resources Searched in Compiling Organic Livestock Production: A Bibliography

- *AgEcon Search, Research in Agricultural and Applied Economics, University of Minnesota* <http://agecon.lib.umn.edu/>
  - *AGRICOLA, National Agricultural Library* <http://agricola.nal.usda.gov/>
  - *Agricultural Marketing Resource Center (AgMRC), A National Information Resource for Value-Added Agriculture* <http://www.agmrc.org/>
  - *Animal Welfare Institute (AWI) Bibliography* <http://www.awionline.org/>
  - *Appropriate Technology Transfer for Rural Areas (ATTRA), Publications List* <http://attra.ncat.org/livestock.html>
  - *Biological Sciences, Cambridge Scientific Abstracts* <http://www.csa.com/csa/factsheets/biolset.shtml>
  - *Cyber-Help for Organic Farmers, A Rural Capacity Building Through Organic Agriculture Project (RCBTOA) (Canada)* <http://www.certifiedorganic.bc.ca/rcbtoa/index.html>
  - *Ecological Agriculture Project (EAP), McGill University* <http://www.eap.mcgill.ca/>
  - *Food Science and Technology Abstracts (FSTA), IFIS Publishing* <http://www.ifis.org/>
  - *Missouri Alternatives Center (MAC), Extension Information on Alternatives Database* <http://agebb.missouri.edu/mac/links/>
  - *Network for Animal Health and Welfare in Organic Agriculture (NAHWOA), Workshop Proceedings* <http://www.veeru.reading.ac.uk/organic/events.htm>
  - *Organic Center Wales, Web Site and Meeting Proceedings* <http://www.organic.aber.ac.uk/index.shtml>
  - *Organic Eprints, Archive* <http://orgprints.org/>
  - *OrganicAgInfo, Organic Agriculture Information* <http://www.organicaginfo.org/>
  - *Organic-research.com, CABI Publishing,* <http://www.organic-research.com/>
  - *PubMed/MEDLINE, National Library of Medicine,* <http://www.ncbi.nlm.nih.gov/entrez/query.fcgi>
  - Various Land Grant University/Extension publication lists including Iowa State University and University of Wisconsin
  - *Zoological Record, Thomson Scientific* <http://www.biosis.org/products/zr/>
- 

### Appendix B: Obtaining Full-text Journal Articles

Copyright law prevents free access to most published journal article text. There are several ways to receive copies of the articles you need. Most methods involve a fee.

- From an academic library that carries the journal(s) of interest, in print or electronic format: Most academic library catalogs are now available for searching through the web. Check catalog for journal title and back issue "holdings." For a directory of U.S. Land Grant University Libraries: [http://www.nal.usda.gov/pubs\\_db/landgrant.htm](http://www.nal.usda.gov/pubs_db/landgrant.htm)
- From an Interlibrary Loan request at your local or academic library: Ask at your library about this service; present the complete journal citation if available. Non-U.S. searchers should consult an Agricultural Libraries Network (AGLINET) participating library for Interlibrary loan services in their country, [http://www.fao.org/library/\\_info\\_services/Index.asp](http://www.fao.org/library/_info_services/Index.asp) [click on "Partnerships/Networks"]
- From a journal publisher's archives: Many publishers provide reprint distribution and/or online delivery services for individual journal articles or issues. Check with the individual publisher for availability.
- From a commercial document delivery service: Examples of commercial services (no endorsement intended):
  - *Infotrieve*, 800-422-4633, <http://www.infotrieve.com/>
  - *Information Express*, 650-812-3588, <http://www.ieonline.com/docdel.html>
  - *Ingenta*, 800-296-2221 (within US only) or 617 395 4046, <http://www.ingenta.com/>
  - *ISI Document Solution*, 800-603-4367, <http://www.isinet.com/documentdelivery/>
  - *Linda Hall Library*, 800-662-1545, <http://www.lindahall.org/>

See also: *Document Delivery Specialists - Agriculture*, <http://www.docdel.net/Agriculture.html>

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## Appendix C: USDA National Organic Program Information

- NOP Standards/ Regulatory Text <http://www.ams.usda.gov/nop/NOP/standards.html>
- Production and Handling Factsheet <http://www.ams.usda.gov/nop/FactSheets/ProdHandE.html>
- Labelling and Marketing Factsheet <http://www.ams.usda.gov/nop/FactSheets/LabelingE.html>
- National List of Allowed and Prohibited Substances Information <http://www.ams.usda.gov/nop/NationalList/ListHome.html>
- List of the USDA Accredited Certifying Agents (ACAs) <http://www.ams.usda.gov/nop/CertifyingAgents/Accredited.html>
- List of organic feedgrain producers and handlers <http://www.ams.usda.gov/nop/ProdHandlers/FeedProducers.html>

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**About AFSIC:**

The Alternative Farming Systems Information Center (AFSIC) is one of several topic-oriented information centers at the National Agricultural Library (NAL). AFSIC specializes in locating and accessing information related to alternative agricultural systems including sustainable and organic production, alternative and industrial crops, and farmer direct marketing. AFSIC is supported, in part, by USDA's Sustainable Agriculture Research and Education (SARE) program and by a Cooperative Agreement with the University of Maryland, College Park.

For further information:

**Alternative Farming Systems Information Center**

National Agricultural Library  
10301 Baltimore Avenue, Room 132  
Beltsville MD 20705-2351  
phone 301/504-6559 or 301/504-5724, fax 301/504-6927  
TDD/TTY: 301/504-6856  
e-mail [afsic@nal.usda.gov](mailto:afsic@nal.usda.gov)  
<http://www.nal.usda.gov/afsic/>



*The Alternative Farming Systems Information Center*

[afsic@nal.usda.gov](mailto:afsic@nal.usda.gov), [www.nal.usda.gov/afsic/](http://www.nal.usda.gov/afsic/)

Page URL - [http://www.nal.usda.gov/afsic/AFSIC\\_pubs/srb0405.htm](http://www.nal.usda.gov/afsic/AFSIC_pubs/srb0405.htm), September 2004

[Disclaimers](#)