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Tracing the Evolution of Organic/Sustainable Agriculture: A Selected and Annotated Bibliography

Updated and Expanded, May 2007

By Mary V. Gold and
Jane Potter Gates

Alternative Farming Systems
Information Center



National Agricultural Library Cataloging Record

Mary V. Gold and Jane Potter Gates

Tracing the evolution of organic/sustainable agriculture : a selected and annotated bibliography.

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Introduction

“Are we going to protect our springs of prosperity, our raw material of industry and commerce and employer of capital and labor combined; or are we going to dissipate them? According as we accept or ignore our responsibility as trustees of the nation’s welfare, our children and our children’s children for uncounted generations will call us blessed, or will lay their suffering at our doors.” Gifford Pinchot, 1908¹

The U.S. Department of Agriculture’s National Agricultural Library (NAL) in Beltsville, Maryland, holds a vast archive of historical documentation covering all aspects of agriculture. This bibliography focuses on works and authors selected from the Library collection that pertain to sustainability in agriculture. It was compiled in the hope of increasing recognition of and access to knowledge that might help address today’s challenges to a sustainable agriculture. This publication builds on an original 1988 bibliography authored by former Alternative Farming Systems Information Center (AFSIC) coordinator, Jane Potter Gates.

The idea of sustainability holds ambiguities and nuances that are sometimes difficult to resolve. Sustainable agriculture was addressed by the U.S. Congress in the 1990 “Farm Bill.” Under that law, “the term sustainable agriculture means an integrated system of plant and animal production practices having a site-specific application that will, over the long term:

- satisfy human food and fiber needs
- enhance environmental quality and the natural resource base upon which the agricultural economy depends
- make the most efficient use of nonrenewable resources and on-farm resources and integrate, where appropriate, natural biological cycles and controls
- sustain the economic viability of farm operations
- enhance the quality of life for farmers and society as a whole.”²

“Doing” sustainable agriculture is a less complicated endeavor than defining it. People from all walks of life understand that there are practical steps that can be taken to protect the ecological and human resources that a viable food production system relies on. Many farmers in the U.S. have adopted practices commonly accepted as sustainable. “Hailing from small vegetable farms, cattle ranches and grain farms covering thousands of acres, [producers] have embraced new approaches to agriculture. They are renewing profits, enhancing environmental stewardship and improving the lives of their families as well as their communities.” *The New American Farmer*, 2005.³

Organic farming holds a special place under the sustainable agriculture umbrella. The U.S. Department of Agriculture now defines standards for organic practices and for food labeled as “organic.”⁴ The commercial impacts of this phenomenon have added new issues to the sustainability discussion.⁵

Although sustainable and organic approaches to food production may seem relatively new, they rest on a base of science and philosophy that has been centuries in the making. The term “sustainable agriculture” did not come into popular use until the late 1980s;⁶ however, we know that the notion of land stewardship is a very old one. Some of the earliest known writings reveal sophisticated stewardship ethics and practices. Archaeologists have unearthed indicators of soil and water conservation efforts from civilizations on every continent.

Historical evidence traces an ebb and flow of concern for stewardship and long-term food production over the years. As social, economic and environmental conditions evolved, so did the issues impacting

sustainable use of resources. It is not surprising that particularly difficult times and places spawned the most dramatic “learning curves” in terms of both successful and failed practices and systems.

The farmers, researchers, social thinkers, educators, historians, policy makers, artists and everyday citizens represented here analyzed and proposed remedies for problems of their own eras. Some of them were “movers and shakers;” others remained obscure, to be discovered by later generations. Most researched and wrote on the edges of the “conventional wisdom” of their day. Many of them studied history themselves, looking backward for information and direction.

If we listen, voices of these forebears do several things for us. They teach us practical lessons about problems and problem solving. They provide an historical context for understanding contemporary challenges. And they inspire us with their passion. Most importantly, they remind us that history is a continuum. History describes where we have been, defines the aspirations and limitations of our current endeavors, and carries us into the future.

Challenges to a sustainable, global food system that will carry us through the coming years and into the next century are daunting. However, we have access to a storehouse of tools with which to work: a diverse agricultural knowledgebase; interdisciplinary research and expertise; cutting-edge technology applications; and a global communication system with which to share information.

“Our television documentaries and books show us in graphic detail why the Easter Islanders, Classic Maya and other past societies collapsed. Thus, we have the opportunity to learn from mistakes of distant peoples and past peoples. That’s an opportunity that no past society enjoyed to such a degree.” Jared Diamond, 2006⁷

AFSIC staff member Becky Thompson provided invaluable technical assistance and support for this work. Special appreciation goes to Bill Thomas, current AFSIC Coordinator, Stephanie Ritchie, AFSIC Librarian, and former AFSIC coordinators, Jane Potter Gates and Jayne MacLean. Thanks also go to Andy Clark, Sustainable Agriculture Network coordinator, for his helpful review.

¹ *The Conservation of Natural Resources*. Washington DC: U.S. Dept. of Agriculture, 1908. (Farmers’ Bulletin, 327) NAL Call no.: 1 Ag84F no.327

² *Food, Agriculture, Conservation, and Trade Act of 1990 (FACTA)*, Public Law 101-624, Title XVI, Subtitle A, Section 1603 Government Printing Office, Washington, DC, 1990. NAL Call # KF1692.A31 1990

³ *The New American Farmer: Profiles of Agricultural Innovation*, 2nd edition. Sustainable Agriculture Research and Education (SARE), 2006.

⁴ Information about the National Organic Program is available at <http://www.ams.usda.gov/nop/indexNet.htm>

⁵ For a lengthy discussion and list of references about the definition of sustainable agriculture and related terms, see the AFSIC publication, *Sustainable Agriculture: Definitions and Terms*, by Mary V. Gold, 1999 (http://www.nal.usda.gov/afsic/AFSIC_pubs/srb9902.htm).

⁶ “In popular literature, sustainable agriculture generally is presented as a new phenomenon. Wes Jackson is credited with the first publication of the expression in his *New Roots for Agriculture* (1980), and the term didn’t emerge in popular usage until the late 1980s.” (“A Brief History of Sustainable Agriculture,” by Fred Kirschenmann, in *The Networker*, vol. 9, no. 2, March 2004)

⁷ *Collapse: How Societies Choose to Fail or Succeed*. New York: Viking Press, 2005.

How to Use this Bibliography

This bibliography includes almost 200 annotated references to historical and current works that pertain to many facets of sustainable agriculture. The references are arranged chronologically starting with 50 AD and concluding with two citations from 2007. Indexes to the chronological list are provided in the form of author, title and topical indexes. This compilation also includes a short list of books and articles about the history of sustainable and organic agriculture (*Appendix A*), and a directory of online libraries containing full-text historical works about agriculture (*Appendix B*).

In her original introduction to *Tracing the Evolution of Organic/Sustainable Agriculture*, Jane Potter Gates wrote of citing works “through which may be traced the evolution of organic/sustainable agriculture and its pattern of philosophical and scientific aspects.” She hoped that the reader would explore each cited author’s references, individual bibliographies and sources, thus “widening the traced path” she had laid out. This expanded version aspires to do the same.

Almost all of the works cited in this bibliography are held in the collection of the National Agricultural Library. NAL call numbers are listed with each citation. Each document is cited chronologically by its original publication date. Within each year, works are listed alphabetically by author. Some annotations include information about other editions of the work.

Selection criteria. This bibliography focuses on books, conference proceedings and essay collections. It does not cite journal articles except in *Appendix A*. Cited works were written by authors recognized as important to the development of sustainable agriculture and organic farming and/or works that are representative of significant sustainable agricultural thought and practices of the time. This compilation is not intended to be exhaustive. AFSIC welcomes suggestions and comments to be addressed in later versions of this bibliography.

Cited in. Many books and articles about the history of sustainable and organic agriculture were consulted in compiling this bibliography. The author acknowledges their guidance. Outstanding reference works are cited in *Appendix A: Articles and Books about Sustainable Agriculture Used in Compiling this Bibliography*. The following abbreviated terms are used for these sources when listed in an individual book annotation’s “Cited in” field. Full citations for “cited in” sources appear in the *Chronological List of Books, Book Chapters and Reports* section or in *Appendix A*. Names in bold text refer to sources listed in Jane Gate’s original 1988 version of this publication.

Bailey (1915)
Balfour (1943)
Beeman (1993)
Blum (1993)
Coleman (1976)
Conford (1988)
Conford (2001)
Esbjornson (1992)
Harwood (1983)
Harwood (1990)
Heckman (2006)
Kirschenmann (2004)

Korcak (1992)
Kuepper, Gegner (2004)
Lehman (1993)
McDonald (1941)
Madden (1998)
Merrill (1983)
Northbourne (1940)
Pieters (1927)
Rateaver (1973)
Scofield (1986)
Waksman (1936)
Worster (1985)

General topic indicators/icons. The following icons are used to indicate the primary topic area of each cited work. An index to titles arranged by general topic may be found on page 93.

 Ecology & Agroecology	 Pest Management
 Economics & Marketing	 Philosophy and Ethics
 Energy & Global Climate Change	 Plants & Biodiversity
 Farmland Preservation	 Policy & Regulation
 Food Quality, Distribution and Security	 Social, Rural & Quality of Life Issues
 General Agricultural & Multi-Disciplinary Works	 Soil
 History of Agriculture & Resource Conservation	 Water
 Livestock, Rangeland & Pasture	

Annotations. A short paragraph that describes the content and/or significance of the work or author accompanies each citation. “JPG” indicates text written by Jane Potter Gates for the fifty references included in the original 1988 compilation; “MVG” indicates text written by Mary V. Gold for citations added to this edition of the bibliography. Some annotations also include wording from other sources and these sources are so noted.

Other works by the author. Individual annotations may also include an abbreviated list of selected works by the same author. The list emphasizes books that are in the NAL collection and is not meant to be comprehensive. Selected works are cited to help the reader gain a better understanding of the author’s interests and publishing history. They are indexed in the *Index to Titles*.

Availability. Many of the books cited in this bibliography are still in print or are available in reprint editions. Many are now available in full-text online. An Internet source and URL are included in the annotations for these works. Most of these online versions are not maintained by NAL, and, although they have been verified for accuracy and completeness, the author and the National Agricultural Library assume no liability for the legal copyright status or the ongoing availability of these sources. A directory of important libraries of online agricultural literature may be found in *Appendix B*.

For information about how to obtain the books through InterLibrary Loan, consult your local library and/or see the NAL Web site, *Request Library Materials*, <http://www.nal.usda.gov/services/request.shtml>

Chronological List of Books, Book Chapters and Reports

References through 1799

Note about early works

The environmental impacts of early agriculture remain undocumented, at least in terms of written records. Archaeological discoveries provide clues. For instance, rock paintings found in the Tibesti Mountains of North Africa dating to 3,500 BCE indicate that overgrazing and desertification were phenomena even in ancient times. The pictures show that areas of the Sahara described as barren in the first century A.D. were once fertile fields.

On varying timetables, people in Europe, Asia, Africa and the Americas developed agricultural systems, many incorporating land stewardship practices. Examples include: the Chinese adoption of composting and mulching (ca. 2000 BCE); Sumerian irrigation and windbreak techniques evidenced in document tablets from circa 1500 BCE; and the Aztec Chinampas (floating garden) system utilized since the 1100s that produces several corn crops per year. (From: *The People's Chronology: A Year-by-Year Record of Human Events from Prehistory to the Present*, by James Trager, New York: Henry Holt, 1994) Several works written during the 19th and 20th centuries that document these and other ancient systems are cited in this bibliography. See: Dickson, 1788; King, 1911; Wrench, 1946; Lowdermilk, 1948; Osborn, 1948; Hyams, 1952; and Diamond, 2005.

0050

 Columella, Lucius Junius Moderatus, 6-70

De Re Rustica

Cambridge MA: Harvard University Press, 1941 (oldest edition held by the National Agricultural Library). 3 vols.

Loeb Classical Library edition. Translated title: *On*

Agriculture. Recension of the text and an English translation by Harrison Boyd Ash. Bibliography, v.

1, p. xxiii-xxvii. Other editions: The National Agricultural Library holds various editions of this work, published in Italy, England and Germany, dating from the 1500s.

NAL Call no: 30.8 C72Ag

Full-text: Columella: Extant Works (*De Re Rustica* and *De Arboribus*), Bill Thayer's Web Site, <http://penelope.uchicago.edu/Thayer/E/Roman/Texts/Columella/home.html> (accessed Jan. 1, 2007)

"The earth neither grows old, nor wears out, if it be dunged." Columella

In the first century, Columella wrote, "The earth neither grows old, nor wears out, if it be dunged." He also recommended grains in rotation with legumes and fallow. Cato, Varro, Palladius, Vegetius and Pliny the Elder also wrote about soil building and conservation techniques. MVG

1580

 Tusser, Thomas, 1524?-1580

Five Hundred Points of Good Husbandry

London: H. Denham, 1580. 4p, 289 numbered leaves, 2p. Complete title: *Fiue hundred pointes of good husbandrie, as well for the champion, or open countrie, as also for the woodland, or seuerall, mixed in eurie month with huswiferie, ouer and besides the booke of huswiferie, corrected, better ordered, and newly augmented to a fourth part more, with diuers other lessons, as a diet for the farmer, or the properties of winds, planets, hope, herbes, bees, and approoued remedies for sheepe and cattle, with many other matters both profitable and not vnpleasant for the reader: also a table of husbandrie at the beginning of this book: and another of huswiforie at the end: for the better and easier finding of any matter contained in the same.* In verse.

NAL Call no: 30.8 T87 1580

Full-text (1812 edition): Google Books, http://books.google.com/advanced_book_search (search on title) (accessed Jan. 29, 2008)

This classic has been reprinted almost every century since its original publication. Tusser's maxims include observations of human behavior: "Still crop' upon crop many farmers do take and reap little profit, for greediness sake..." observations concerning the land: "and land (overburdened) is clean out of heart," or "if land be unlust, the crop is not great." He also gives advice by the month, frequently in rhyme. "Octobers Abstract" is about the rotation of crops: "Where barlie did growe, laie wheat to sowe, yet better I thinke, sowe pease, after drinke. And then if ye please, sowe wheat after pease." JPG
Cited in: Bailey (1915)

1748



Eliot, Jared, 1685-1763

Essays Upon Field-husbandry in New-England, as It is or May be Ordered

Boston: Edes and Gill, 1760. 166p. "The foregoing essays were first printed in New-London and in New-York; the 1st in 1748, 2d in 1749, 3d in 1751, 4th in 1753, 5th in 1754, 6th in 1759." p. 158. Appendix dated June, 1761. Other editions: *Essays upon Field Husbandry in New England, and Other Papers, 1748-1762*, edited by Harry J. Carman and Rexford G. Tugwell, with a biographical sketch by Rodney H. True (Columbia University Press, 1934).
NAL Call no: 31.3 E14E R

"Sometimes they dress their Land with Lime, Chalk, Soot; sometimes with Rags, Hogs, and Cattles Hair, Horn-shavings and Ashes, and with various other sorts of manure; by which means they have fine Crops of Wheat upon Land which hath been Improved more than a Thousand Years; for they reckon Twenty Bushels to the Acre but a middling Crop." Jared Eliot, Second Essay, 1760.

Eliot was a minister, doctor, philosopher, author and scientist-farmer. His six essays, based on observations and experiments made at his farm in Connecticut, were the first American publications devoted to agriculture. He adapted English practices, recommending legume/grain rotations and control of erosion on hillsides including his own brand of conservation tillage. "When our fore-Fathers settled here, they entered a Land which probably never had been Ploughed since the Creation; the Land being new they depended upon the natural Fertility of the Ground, which served their purpose very well and when they had worn out one piece they cleared another, without any concern to amend their Land, except a little helped by the Fold and Cart-dung, whereas in England they would think a Man a bad Husband, if he should pretend to sow Wheat on Land without any Dressing." MVG
Cited in: McDonald (1941)

1788



Dickson, Adam, 1721-1776

The Husbandry of the Ancients

Edinburgh: Dickson and Creeca, 1788. 2 vols.: 527p. and 494p.

NAL Call no: R30.9 D56

Full-text: Google Books, http://books.google.com/advanced_book_search (search on title) (accessed Jan. 29, 2008)

Other works by this author: *A Treatise on Agriculture* (1762, later editions, 1765, 1785); *Small Harms Destructive to the Country in its Present Situation* (1764); *Essay on Manures* (1772).

Dickson quotes Columella, Palladius, Cato, Virgil, Pliny, et. al., regarding the knowledge and practice of husbandry and confesses in the preface to be "agreeably surprised to find, that, notwithstanding the great differences in climate, the maxims of the ancient Roman farmers are the same with those of the best modern farmers in Britain..." JPG
Cited in: Pieters (1927)

1790



Deane, Samuel, 1733-1814

The New-England Farmer, or, Geographical Dictionary: Containing a Compendious Account of the Ways and Methods in Which the Important Art of Husbandry, in All its Various Branches, is, or May be Practised, to the Greatest Advantage, in this Country

Worcester MA: Isaiah Thomas, 1790. 335p.

NAL Call no: 30.1 D34 Ed.1

Full-text (1797 edition): Internet Archive,

<http://www.archive.org/details/newenglandfarmer00deanrich> (accessed Jan. 1, 2007)

Deane was the first American to document the problem of wind erosion. Along with other soil-conserving practices such as green manuring and contour plowing, he recommended windbreaks and hedgerows to prevent “sand-floods.” His original 1790 book was updated several times and was reportedly a mainstay of New England farmers until the Civil War.

MVG

Cited in: McDonald (1941)

1800-1899

The Age of Discovery’s agricultural legacy

Scientific and geographical discoveries of the 1500s, 1600s and 1700s had great impact on agriculture and on the use of natural resources worldwide. Significant changes included: accelerated “globalization” of plant and animal species; unprecedented advances in scientific knowledge and research techniques; access to new markets and trading partners; and social revolutions that redefined labor and land ownership.

For the Europeans, undeveloped continents seemed to offer a never-ending supply of arable land and cheap labor. This had special significance for the Americas. “The felling of the first tree by colonists in the New World, though never mentioned by historians, was an act of great significance. It marked the beginning of the era of the most rapid rate of wasteful land use in the history of the world.” *Early American Soil Conservationists*, by Angus McDonald. Washington DC: United States Department of Agriculture, 1941.

1804



Saussure, Nicolas-Théodore de, 1767-1845

Recherches Chimiques sur la Végétation

Paris: Chez la Ve. Nyon, 1804. viii, 327p. In French. Translated title: *Chemical Research on Vegetation*.

NAL Call no: 463.2 .S285R

Full-text: Google Books, http://books.google.com/advanced_book_search (search on title) (accessed Jan. 29, 2008)

The majority of this Swiss scientist’s papers deal with the chemistry and physiology of plants and plant interactions with soils. His work clarified many previously misunderstood soil-plant relationships including plant respiration and the soil’s role as supplier of nitrogen. These findings set the scene for modern soil science and humus-oriented theory. MVG

Cited in: Korcak (1992)

1813



Taylor, John, 1753-1824

Arator: Being a Series of Agricultural Essays, Practical and Political, in Sixty-one Numbers, by a Citizen of Virginia

Georgetown, DC: J.M. and J.B. Carter, 1813. 296p. Other editions: Several later editions of this work appeared in the early 1800s; a recent volume, edited and with an introduction by M.E. Bradford was published in 1977.

NAL Call no: 30 T21

Full-text (1817 edition): Google Books, http://books.google.com/advanced_book_search (search on title) (accessed Jan. 29, 2008)

Other works by this author: *An Inquiry into the Principles and Policy of the Government of the United States* (1814).

Taylor was a statesman, author, Virginia plantation owner and close friend of Thomas Jefferson. His observations of soil depletion led to his investigation and advocacy of soil restorative practices. His widely read essays and newspaper articles

recommended the following: protect the soil from grazing during the rest period, and thus raise a large crop of vegetable matter; make use of vegetable manures of all kinds; sow clover and grass seed with the grain crop to serve as pasturage or green-manure; practice horizontal plowing as a preventative of gullies and washes; and establish artificial meadows and a crop rotation with grass. MVG

"If vegetable matter is either the only manure, or the only attainable manure, capable of renovating our country, let us cast our eyes upon its surface, and discover the demand, by computing the impoverishment. We want as much as we have expelled, to get back to the state from which we set out. We must retrieve, before we can improve. The nation never dies; it is the yoke fellow of the earth; these associates must thrive or starve together; if the nation pursues a system of lessening the food of the earth, the earth in justice or revenge will starve the nation. The inclosing system provides the most food for the earth, and of course enables the earth to supply most food to man. It is time working on space." John Taylor, "Inclosing" (1813)

1832



Ruffin, Edmund, 1794-1865

An Essay on Calcareous Manures

Petersburg VA: J. W. Campbell, 1832. xii, 13, 242p. Other editions: Several subsequent editions published through 1852.

NAL Call no: 57.1 R83 R

Full-text: Google Books, http://books.google.com/advanced_book_search (search on title) (accessed Jan. 29, 2008)

Other works by this author: *An Address on the Opposite Results of Exhausting and Fertilizing Systems of Agriculture: Read before the South-Carolina Institute, at its Fourth Annual Fair, November 18th, 1852* (1853); *Agricultural, Geological, and Descriptive Sketches of Lower North Carolina, and the Similar Adjacent Lands* (1861); *Agriculture, Geology, and Society in Antebellum South Carolina: The Private Diary of Edmund Ruffin, 1843*, edited by William M. Mathew (1992).

Ruffin's work and writings cover many topics related to sustaining farm production in Virginia and North Carolina, including lime-soil interactions (especially "marling"), flood and sedimentation control, cover crops, soil exhaustion and wind erosion. "Edmund Ruffin's efforts ended the pioneer state of the erosion-control movement in America. His work was equal to that of all his predecessors combined. The knowledge of the soil which he gained from his experiments, his theories and speculations regarding the action of water on soil and his erosion-control practices provided a foundation for later developments." A. McDonald, *Early American Soil Conservationists* (1941), p. 58. MVG
Cited in: McDonald (1941)

1840



Liebig, Justus Freiherr von, 1803-1873

Organic Chemistry and its Application to Agriculture and Physiology

London: Taylor and Walton, 1840. 407p. Edited from the manuscript of the author by Lyon Playfair. Translated from the German, *Organische Chemie in ihrer Anwendung auf Agricultur und Physiologie*. Includes bibliographical references.

NAL Call no: 395 L62O

Full-text (1847 edition): Google Books, http://books.google.com/advanced_book_search (search on title) (accessed Jan. 29, 2008)

Other works by this author: *Chemical Letters* (2nd corrected edition) (full-text: Soil and Health Library, Steve Solomon, <http://www.soilandhealth.org/01aglibrary/01principles.html>) (accessed Apr. 23, 2007).

Liebig's work established basic chemical requirements for agricultural production and plant nutrition. His discoveries, coupled with those of Sir Humphrey Davy (*Elements of Agricultural Chemistry*, 1813) reduced the soil-plant relationship to chemical reactions and an agricultural "revolution" was begun. By the 1940s, large-scale use of synthetic chemical fertilizers had become mainstream. Liebig's legacy marks the divergent paths of "conventional" and organic agriculture. MVG

Cited in: Conford (2001); Kirschenmann (2004); Korcak (1992)

1842



Dana, Samuel Luther, 1795-1868

A Muck Manual for Farmers

Lowell MA: Daniel Bixby, 1842. 242p.

NAL Call no: 56 D19 1842

Full-text (1843 edition): Google Books, http://books.google.com/advanced_book_search (search on title) (accessed Jan. 29, 2008)

Other works by this author: *Manures: A Prize Essay* (1844); *Essay on Manures* (1850).

"A treatise on the physical and chemical properties of soils; the chemistry of manures; including also the subjects of composts, artificial manures and irrigation." (From the title of the 5th edition of this work, published 1855.) One of the first American-published books to elaborate on the science of soil improvement, this work includes information about the use of city-generated organic wastes and industrial by-products as agricultural soil amendments. MVG

Cited in: Blum (1993)

1846



Allen, Richard Lamb, 1803-1869

A Brief Compend of American Agriculture

New York: Saxon and Miles, 1846. 437p.

Includes index.

NAL Call no: 31.3 AL5 1846

Full text: Internet Archive,

<http://www.archive.org/details/briefcompendofam00allerich> (accessed Jan. 30, 2007)

Other works by this author: *Domestic Animals.*

History and Description of the Horse, Mule, Cattle, Sheep, Swine, Poultry, and Farm Dogs. With Directions for their Management, Breeding, Crossing, Rearing, Feeding, and Preparation for a Profitable Market. Also, their Diseases and Remedies Together with Full Directions for the Management of the Dairy (1847) (full-text: Core Historical Literature of Agriculture;

<http://chla.library.cornell.edu/cgi/t/text/text-idx?c=chla;idno=3058099>) (accessed Apr. 23, 2007);

"Besides the varied practical knowledge which is indispensable to the proper management of every department of agriculture, its general principles and theoretical relations require a familiarity with the elements of History, Geology, Chemistry, Botany, Anatomy, Physiology, and Mechanics; and in their ultimate connexion, they involve no inconsiderable share of the entire circle of human knowledge and science." R. L. Allen, 1846

New American Farm Book, with Lewis F. Allen (1858) (full-text: Making of America Books, <http://quod.lib.umich.edu/cgi/t/text/text-idx?c=moa;idno=AJR0646.0001.001>) (accessed Apr. 23, 2007).

The introduction contains a proposal for establishment of a “National Board of Agriculture,” plus recommendations for States’ actions, particularly regarding education. JPG
Cited in: Pieters (1927)

1853



Browne, Daniel Jay, 1804-1867?

The Field Book of Manures, or, the American Muck Book: Treating of the Nature, Properties, Sources, History, and Operations of All the Principal Fertilisers and Manures in Common Use, with Specific Directions for Their Preparation, Preservation, and Application to the Soil and to Crops; as Combined with the Leading Principles of Practical and Scientific Agriculture; Drawn from Authentic Sources, Actual Experience, and Personal Observation

New York: C.M. Saxton and Company, Agricultural Book Publishers, 1855 (oldest edition held by the National Agricultural Library). xii, 5, 422p. Illustrated with engravings.

NAL Call no: 57 B81

Full-text: Internet Archive, <http://www.archive.org/details/fieldbookofmanur00browuoft> (accessed Jan. 1, 2007)

Other works by this author: *Sylva Americana or a Description of the Forest Trees Indigenous to the United States* (1832); *The American Poultry Yard; Comprising the Origin, History, and Description of the Different Breeds of Domestic Poultry*, with Samuel Allen (1850) (full-text: Internet Archive, <http://www.archive.org/details/americanpoultry00browrich>) (accessed Apr. 23, 2007).

As the book title indicates, Browne presents information pertaining to soil productivity through incorporation of organic matter. He served as head of the agricultural division of the Patent Office from June 9, 1853, through 1859. He also published a book (cited above) directed especially at farmers calling for native tree planting. MVG
Cited in: Harwood (1983); Harwood (1990); Kirschenmann (2004)

1854



Thoreau, Henry David, 1817-1862

Walden; or, Life in the Woods

Garden City NY: Doubleday, 1960. 280p. Reprint of the first edition of *Walden*, published in Boston by Ticknor and Fields in 1854.

NAL Call no: 145 T39

Full-text: The Thoreau Reader, Iowa State University and the Thoreau Society, <http://thoreau.eserver.org/walden00.html> (accessed Jan. 1, 2007)

Thoreau’s advocacy for living simply, in accordance with nature, included a strong conservation message for agriculture. “By avarice and selfishness and a grovelling habit, from which none of us is free, of regarding the soil as property, or the means of acquiring property chiefly, the landscape is deformed, husbandry is degraded with us and the farmer leads the meanest of lives. He knows Nature but as a robber.” Chapter 7. MVG
Cited in: Esbjornson (1992)

“Ancient poetry and mythology suggest, at least, that husbandry was once a sacred art; but it is pursued with irreverent haste and heedlessness by us, our object being to have large farms and large crops merely.” Henry David Thoreau, 1854

1860



Sorsby, Nicholas T.

Horizontal Plowing and Hill-side Ditching

Mobile: S.H. Goetzel, 1860. 45p.

NAL Call no: n.a.

Sorsby was a Southern planter who farmed in Mississippi and Alabama. His book on tillage and erosion management for farmers advocates a system of level, contour tillage patterns; ridge and furrow plowing; exact grading methods; gully rehabilitation and drainage ditches. His system was complicated and ahead of its time, but its principles were often cited in soil conservation efforts of later decades. MVG
Cited in: McDonald (1941)

1864



Marsh, George Perkins, 1801-1882

Man and Nature, or, Physical Geography as Modified by Human Action

New York: C. Scribner, 1869 (oldest edition held by the National Agricultural Library). xix, 577p.

“Bibliographical list of works consulted” p. vii-xv. Other editions: *The Earth as Modified by Human Action: A Last Revision of “Man and Nature,”* 1907; John Harvard Library edition, 1965.

NAL Call no: 331 M35E 1869

Full-text: Making of America Books, <http://www.hti.umich.edu/cgi/t/text/text-idx?c=moa;idno=AJA7231.0001.001> (accessed Jan. 1, 2007)

Other works by this author:

Irrigation: Its Evils, the Remedies, and the Compensations (1873); *So Great a Vision: The Conservation Writings of George Perkins Marsh*, edited by Stephen C. Trombulak (2001).

“The extension of agricultural and pastoral industry involves an enlargement of the sphere of man’s domain, by encroaching upon the forests which once covered the greater part of the earth’s surface otherwise adapted to his occupation. The felling of the woods has been attended with momentous consequences to the drainage of the soil, to external configuration of its surface, and probably, also, to local climate...” George Perkins Marsh, 1864

Influential lawyer, diplomat and scholar, Marsh, was one of the first to recognize and describe in detail the significance of human action in transforming the natural world and to advocate society’s responsibility in addressing it. Piqued by the damage farmers in his native Vermont did by clear-cutting their land, he broadened his scope to study and discuss ecological problems on an international scale. This book, first published in 1864, has become a classic of environmental literature. MVG

1865



Wolfinger, John F.

Green Manuring and Manures

In *Report of the U.S. Commissioner of Agriculture for the Year 1864*. Washington DC: Government Printing Office, 1865, p. 299-328.

NAL Call no: 1 Ag84 1864

Full-text: National Agricultural Library Digital Repository (NALDR),

<http://naldr.nal.usda.gov/NALWeb/Search.aspx> (search on “green manuring” and scroll to “Report... for the Year 1864;” click on page numbers 223-270 in table) (accessed Jan. 1, 2007)

Lincoln was President when this report was published. Wolfinger defines his subject, tracing its history in Flanders (now Belgium) and listing the benefits of and objections to, the practice of green manuring. He also quotes what “the best agricultural writers say of green manures.”
JPG

Cited in: Pieters (1927)

1878



Riley, Charles Valentine, 1843-1895

The Rocky Mountain Locust: Its Metamorphoses and Natural Enemies

Publisher unknown, 1878. 1 vol.

NAL Call no: 429 R45Ro

Riley was a scientist, artist and prolific writer who is credited with helping establish the field of modern entomology. "One of Riley's greatest triumphs while Chief of the Federal Entomological Service (1881-1894) was his initiation of efforts to collect parasites and predators of the cottony cushion scale, which was destroying the citrus industry in California. In 1888, he sent Albert Koebele to Australia to collect natural enemies of the scale. A beetle, *Vedalia cardinalis*, now *Rodolia cardinalis*, was introduced into California and significantly reduced populations of the cottony cushion scale. This effort gave great impetus to the study of biological control for the reduction of injurious pests and established Charles Valentine Riley as the 'Father of the Biological Control.'" *Charles Valentine Riley Collection, Biographical Notes*, National Agricultural Library: (<http://www.nal.usda.gov/speccoll/findaids/riley/biogrph.html>) (accessed Apr. 23, 2005). MVG

1881



Darwin, Charles Robert, 1809-1882

The Formation of Vegetable Mould Through the Action of Worms with Observations on their Habits

London: Murray, 1945. Reprint of the 1881 publication.

NAL Call no: 56.12 D45

Full-text (1882 edition): Internet Archive, <http://www.archive.org/details/formationofveget1882darw> (accessed Jan. 30, 2008)

The real foundation for "the study of the principles under-lying farming and gardening." JPG

Cited in: Coleman (1976); Harwood (1983); Harwood (1990); Kirschenmann (2004); Korcak (1992); Merrill (1983)

"The plough is one of the most ancient and most valuable of man's inventions; but long before he existed the land was in fact regularly ploughed, and still continues to be thus ploughed by earth-worms. It may be doubted whether there are many other animals which have played so important a part in the history of the world, as have these lowly organised creatures." Charles Darwin,

1894



Hensel, Julius

Bread from Stones. A New and Rational System of Land Fertilization and Physical Regeneration

Philadelphia PA: A. J. Tafel, 1894. 140p. Translated from the German. Other editions: 2nd edition, 1911; 3rd edition, 1913. Reissued, Acres U.S.A., 1991.

NAL Call no: 57.6 B74

Using his understanding of the role of earth minerals in the production of food crops, Hensel championed the use of "stonemeal," as natural fertilizer and recommended excluding animal manures and commercial fertilizers from farming. J.I. Rodale, in his book, *Pay Dirt*, notes that this theory was first offered by Hensel in Norway in 1885. Although few growers today espouse excluding organic soil amendments, rock dust and rock minerals are recognized as essential ingredients in soil building practices. MVG

1897



Roberts, Isaac Phillips, 1833-1928

The Fertility of the Land: A Summary Sketch of the Relationship of Farm-practice to the Maintaining and Increasing of the Productivity of the Soil

New York: Macmillan, 1897. xvii, 415p. Preface by L. H. Bailey. Other editions: Several revised versions published through 1909. (Rural Science Series)

NAL Call no: 57 R54

Full-text: Core Historical Literature of Agriculture, Cornell University,

<http://chla.library.cornell.edu/cgi/t/text/text-idx?c=chla;idno=2846741> (accessed Jan. 1, 2007)

Other works by this author: *The Production and Care of Farm Manures* (1891); *Soil Depletion in Respect to the Care of Fruit Trees* (1895); *Ten Acres Enough; A Practical Experience Showing How a Very Small Farm May be Made to Keep a Very Large Family*, with Edmund Morris (1905); *Autobiography of a Farm Boy* (1946).

Roberts was both a farmer and an agricultural educator. His observation that, "If land contains a reasonable amount of potential plant-food and fails to give satisfactory results, it would appear to be both unbusinesslike and unscientific to add plant-food rather than to use that already in possession," was fundamental to his philosophy and understanding of land productivity. MVG

Cited in: Harwood (1983); Harwood (1990)

1898



Bentley, Henry Lewis

Cattle Ranges of the Southwest: A History of the Exhaustion of the Pasturage and Suggestions for its Restoration

Washington DC: U.S. Dept. of Agriculture, 1898. 32p. (Farmers' Bulletin, No. 72)

NAL Call no: 1 Ag84F no.72

Full-text: Organic Roots, Organic Agriculture Information Access, <http://quod.lib.umich.edu/n/nal/> (to be added June, 2008)

Other works by this author: *A Report upon the Grasses and Forage Plants of Central Texas* (1898); *Experiments in Range Improvement in Central Texas* (1902).

Bentley describes the early condition of central Texas ranges and the factors that contributed to their deterioration during the late 1800s. His recommendations on how the value of the stock ranges could be renewed through appropriate stocking rates, water conservation practices, hay production and the use of native grasses and forage plants seem remarkably contemporary. MVG

1898



Frank, Albert Bernhard, 1839-1900

A Manual of Agricultural Botany

Edinburgh; London: W. Blackwood and Sons, 1898. x, 199p. Translated from the German, *Pflanzenkunde für Mittlere und Niedere Landwirthschaftsschulen* (1894), by John Waugh Paterson. Illustrated with 133 woodcuts.

NAL Call no: 64 F85

Frank is best known for his research on plant-fungi symbiosis related to truffle production. He is credited with inventing the term, "mycorrhiza," in the paper, "On the Nourishment of Trees through a Root Symbiosis with Underground Fungi" (1885), *Proceedings of the German Botanical Association* (full-text in German: <http://www.biologie.uni-hamburg.de/b-online/fo33/frank/frank.htm>) (accessed Apr. 23, 2007). MVG

Cited in: Merrill (1983)

1900-1944

The rise of “scientific agriculture” and adoption of manufactured chemical fertilizers and pesticides

In the years after Liebig’s revelations about soil chemistry and plant nutrition (see: Liebig, 1840), most farmers and agricultural researchers adopted chemically-oriented soil and crop management techniques that they saw as more scientific than traditional practices. The large-scale use of synthetic fertilizers came slowly, but surely. It was coupled, in the years following World War I and World War II, with the use of newly developed chemicals that were used to control insect pests and weeds.

Simultaneously, this shift to chemically- and technologically-intensive farming was accompanied by attitudinal and scientific changes that helped shape modern organic and sustainable agriculture. These included: the study and acceptance of “biological control” techniques; renewed interest in the role of humus and soil microorganisms in plant production; and innovative approaches to composting. There were also many scientific discoveries concerning human nutrition and the relationship among agricultural practices, food and human diseases.

During this period Americans were confronted with evidence of deteriorated rangelands, soils and forests. The first critics of the new “industrial” agriculture emerged and a heightened conservation ethic began to take root. The New Zealand Soil and Health Association (originally called the “Humic Compost Club”) was founded in 1942, pre-dating both the British Soil Association (1946) and Rodale’s Soil and Health Foundation (1947).

1906

 Hilgard, Eugene Woldemar, 1833-1916
Soils, their Formation, Properties, and Relations to Climate and Plant Growth in the Humid and Arid Regions

New York: Macmillian, 1906. 593p. Includes index. List of authors referred to in text.

NAL Call no: 56 H54S

Full-text: Core Historical Literature of Agriculture, Cornell University,

<http://chla.library.cornell.edu/cgi/t/text/text-idx?c=chla;idno=2845620> (accessed Jan. 1, 2007)

This author published many other works on agricultural topics under the auspices of the Berkeley CA Agricultural Experiment Station including: *The “Bedrock Lands” of Sacramento County*, with R.H. Loughridge (1885); *The Distribution of the Salts in Alkali Soils*, with R.H. Loughridge (1895); *The Conservation of Soil Moisture and Economy in the Use of Irrigation Water*, with R.H. Loughridge (1898).

Professor of Agriculture at the University of California and Director of the California Experiment Station, Hilgard originally planned this to be a text and reference book, but enlarged its scope to include his soil studies “in the humid and arid regions.” JPG

Cited in: Merrill (1983); Pieters (1927)

1907

 Elliot, Robert Henry, 1837-1914
The Clifton Park System of Farming and Laying Down Land to Grass

London: Simpkin, et. al., 1907. 260p. Includes index. First published in 1898 as *Agricultural Changes*. Introduction by Sir George Stapledon.

NAL Call no: 32 E152 (not listed in catalog, 1/2007)

“I may here add that the main principle of my system is that the land should not lie less than four years in grass, for, as shown by Dr. Voelcker's analysis (see Appendix 4), there is much more rootage in the fourth than in the third – in other words, much more vegetable matter to plough down for the obvious benefit of the fertility of the soil.” Robert H. Elliot, 1907

Full-text (5th edition): Soil and Health Library, Steve Solomon; and Journey to Forever Online Library, <http://www.soilandhealth.org/01aglibrary/01principles.html>; http://journeytoforever.org/farm_library.html (accessed Jan. 1, 2007)

The author writes of his more than 30 years' experience in India and in England as a planter and a farmer. He quotes Cato, devotes considerable space to Arthur Young and remarks that proposals to agricultural changes are often met with a response characterized as "What we knows we knows, and what we don't know we don't want to know." JPG

Cited in: Coleman (1976); Conford (1988); Harwood (1983); Harwood (1990)

1907



Fletcher, Stevenson Whitcomb, 1875-1971

Soils: How to Handle and Improve Them

New York: Doubleday, Page, 1907. 438p. Includes index. Appendix (includes crop rotation recommendations by state). Illustrated with photographs by the author. (The Farm Library)
NAL Call no: 56.7 F632

Full-text: Core Historical Literature of Agriculture, Cornell University, <http://chla.library.cornell.edu/cgi/t/text/text-idx?c=chla;idno=2716150> (accessed Jan. 1, 2007)

Other works by this author: *The Strawberry in North America: History, Origin, Botany, and Breeding* (1917); *Pennsylvania Agriculture and Country Life, 1840-1940* (1955).

Fletcher, then at the Agricultural College of Michigan, attempts here to "set forth the important facts about the soil in a plain and non-technical manner." JPG

Cited in: Harwood (1983); Harwood (1990)

1908



Pinchot, Gifford, 1865-1946

The Conservation of Natural Resources

Washington DC: U.S. Dept. of Agriculture, 1908. 12p. (Farmers' Bulletin, 327)
NAL Call no: 1 Ag84F no.327

Full-text: Organic Roots, Organic Agriculture Information Access, <http://quod.lib.umich.edu/n/nal/> (to be added June, 2008)

Other works by this author: *The Fight for Conservation* (1910); *The Power Monopoly: Its Make-up and its Menace* (1928); *Breaking New Ground*.(1947); *The Conservation Diaries of Gifford Pinchot*, edited by Harold K. Steen (2001).

"We shall decide whether their [our children] lives, on the average, are to be lived in a flourishing country, full of all that helps to make men comfortable, happy, and strong, and effective, or whether their lives are to be lived in a country like the miserable outworn regions of the earth which other nations before us have possessed without foresight and turned in to hopeless deserts. We are no more exempt from the operation of natural laws than are the people of any other part of the world." p. 12. Pinchot addresses not only the status and future of forest and soil resources in the United States, but "Waste through piecemeal planning" and the "Danger of monopoly." MVG

1910



Carver, George Washington, 1864?-1943

George Washington Carver in his Own Words

Columbia MO: University of Missouri Press, 1987. xv, 208p. Edited by Gary R. Kremer. Includes index. Bibliography, p. 197-205.

NAL Call no: S417.C3C3

Lacking funds for research at Tuskegee Institute, Carver worked on improving soils, growing crops with few inputs and using species that fixed nitrogen (hence, the work on the cowpea and the peanut). He emphasized providing information that farmers needed, presented at the level they could use. "This pegs him as one of the first true sustainable agriculture educators and researchers." Dennis Keeney, in *Leopold Letter*, Fall 1998. MVG

1910



Hopkins, Cyril George, 1866-1919

Soil Fertility and Permanent Agriculture

Boston: Ginn, 1910. 653p. Includes index. Appendix. (Country Life Education Series)
NAL Call no: 56.6 H77

Full-text: Core Historical Literature of Agriculture, Cornell University,

<http://chla.library.cornell.edu/cgi/t/text/text-idx?c=chla;idno=3057996> (accessed Jan. 1, 2007)

Other works by this author: *The Story of Soil* (1910); *The Farm that Won't Wear Out* (1913) (full-text for both works: Soil and Health Library, Steve Solomon,

<http://www.soilandhealth.org/01aglibrary/01principles.html>) (accessed Apr. 23, 2007).

This book contains chapters on "Theories concerning soil fertility" and on the Rothamsted Experiments. The final chapter is titled "Two Periods in Agricultural History" and contains quotations from Varro (B.C.226 to 28) to Liebig and Lincoln (1859) to King (1910). JPG
Cited in: Beeman (1993); Merrill (1983); quoted in King (1911)

See also: *History, and Present Position of the Rothamsted Investigations*, by Sir J. Henry Gilbert (Harrison, 1891) (full-text: Internet Archive, <http://www.archive.org/details/historypresentpo00gilbuoft>) (accessed Apr. 23, 2007).

1911



King, Franklin Hiram, 1848-1911

Farmers of Forty Centuries (or) Permanent Agriculture in China, Korea, and Japan

Madison WI: Mrs. F. H. King, 1911. 379p. Includes index. 209 illustrations. Preface by L.H. Bailey.
Other editions: 2nd edition, edited by J.P. Bruce, London, 1927.

NAL Call no: 34.5 K58

Full-text: Core Historical Literature of Agriculture, Cornell University,

<http://chla.library.cornell.edu/cgi/t/text/text-idx?c=chla;idno=2917542> (accessed Jan. 1, 2007)

Other works by this author: *Destructive Effects of Winds on Sandy Soils and Light Sandy Loams: With Methods of Protection* (1894); *The Soil: Its Nature, Relations, and Fundamental Principles of Management* (1895); *Irrigation and Drainage: Principles and Practice of their Cultural Phases* (1899).

King, a chief of the USDA Division of Soil Management, wrote this book after his retirement but did not live to write a final chapter. Bailey calls it the "writing of a well-trained observer who went to study the actual conditions of life of agricultural peoples." It is one of the most influential of all the works cited, with far-reaching consequences for agricultural practices worldwide. JPG

Cited in: Beeman (1993); Coleman (1976); Conford (2001); Esbjornson (1992); Harwood (1983); Harwood (1990); Heckman (2006); Kirschenmann (2004); Korcak (1992); Merrill (1983); Pieters (1927)

1911



U.S. Country Life Commission

Report on the Commission on Country Life

New York: Sturgis and Walton, 1911. 150p. Report first printed as 60th Congress, 2nd session, Senate document 705 (1909). Introduction by Theodore Roosevelt. Commission members: L.H. Bailey, Henry Wallace, Kenyon L. Butterfield, Walter H. Page, Gifford Pinchot, C.S. Barrett and

W.A Beard. Other editions: Reprint published by Arno, 1975.

NAL Call no: 281.2 Un32 1911

Full-text (1909 edition): Core Historical Literature of Agriculture, Cornell University, <http://chla.library.cornell.edu/cgi/t/text/text-idx?c=chla;idno=3319041> (accessed Jan. 1, 2007)

Healthy rural economies and communities are key components of a sustainable agriculture. This report, commissioned by Theodore Roosevelt, describes “corrective forces” that should be implemented to address “deficiencies in country life” including disregard for farmer and farm laborer rights, land speculation, waste in forests, soil depletion, transportation, health, women’s work and trade restraints. “We were founded as a nation of farmers and in spite of the great growth of our industrial life it still remains true that our whole system rests upon the farm, that the welfare of the whole community depends on the farmer. The strengthening of country life is the strengthening of the whole nation.” Introduction, T. Roosevelt. MVG

1913



Sampson, Arthur William, 1884-1967

Range Improvement by Deferred and Rotation Grazing

Washington DC: U.S. Dept. of Agriculture, 1913. 16p. (Bulletin of the U.S. Department of Agriculture. No. 34)

NAL Call no: 1 Ag84B no.34

Other works by this author: *Reseeding of Depleted Grazing Lands to Cultivated Forage Plants* (1913); *Range Preservation and its Relation to Erosion Control on Western Grazing Lands*, with Leon H. Weyl (1918); *Climate and Plant Growth in Certain Vegetative Associations* (1918) (full-text: Internet Archive, <http://www.archive.org/details/climateplantgrow00samprich>) (accessed Apr. 1, 2007); *Plant Succession in Relation to Range Management* (1919); *Range and Pasture Management* (1923); *Grazing Periods and Forage Production on the National Forests*, with Harry E. Malmsten (1926); *Range Management: Principles and Practices* (1952).

“Arthur William Sampson’s list of ‘firsts’ is impressive: first person in America to be called a range ecologist, first to promote deferred and rotational grazing strategies, first to develop usable concepts of indicator species and plant succession for evaluating range condition, first to write a college text on range management, first range ecologist hired by the Forest Service, and first director of what is now called the Intermountain Research Station.” *Utah History to Go* (http://historytogo.utah.gov/people/utahns_of_achievement/arthurwilliamsampson.html) (accessed Apr. 1, 2007) MVG

1915



Bailey, Liberty Hyde, 1858-1954

The Holy Earth

New York: Scribner’s, 1915. 117p.

NAL Call no: 30.4 B15

Full-text: Library of Congress, American Memory, *The Evolution of the Conservation Movement, 1850-1920*, <http://lcweb2.loc.gov/ammem/amrvhtml/conshome.html> (accessed Jan. 1, 2007)

Other works by this author: *Cyclopedia of American Agriculture: A Popular Survey of Agricultural Conditions, Practices and Ideals in the United States and Canada* (4-volumes, 1907-1909) (full-text: Core Historical Literature of Agriculture Library, <http://chla.library.cornell.edu/c/chla/browse/title/2949859.html>) (accessed Apr. 23, 2007).

“Dean” Bailey, who wrote many textbooks in fields relating to agriculture and who published one volume of verse, writes here on a simple “philosophy of rural life.” JPG
Cited in: Kirschenmann (2004); Merrill (1983); quoted in Bromfield (1947)

“We shall conceive of the earth, which is the common habitation, as inviolable. One does not act rightly toward one’s fellows if one does not know how to act rightly toward the earth.” Liberty Hyde Bailey, 1915

1915



United States Department of Agriculture

Social and Labor Needs of Farm Women

Washington DC: United States Department of Agriculture, 1915. (Report, 103)

NAL Call no: 1Ag848p no.103

Full-text: History Matters, <http://historymatters.gmu.edu/d/101/> (accessed Jan. 1, 2007)

Related USDA reports: *Domestic Needs of Farm Women*, Report 104 (1915); *Educational Needs of Farm Women*, Report 105 (1915); *Economic Needs of Farm Women*, Report 106 (1915).

This pioneering report, based on excerpts of letters from farm wives, provided important insights into farm and rural life, and the roles of men and women, that had not been studied before. It was published with three accompanying reports, cited above. MVG

1919



Albrecht, William Albert, 1888-1974

The Albrecht Papers

Kansas City MO: Acres U.S.A., 1982. 2 vols. Edited by Charles Walters Jr. Contains ~70 papers in 2 volumes: v. 1. Foundation concepts; v. 2. Soil fertility and animal health. Includes indexes and Albrecht Bibliography, p. 3-37.

NAL Call no: S441.A44 1982

Full-text: Several papers as well as a collection of journal and magazine articles, experiment station and other government publications, are available at the Soil and Health Library, Steve Solomon, <http://www.soilandhealth.org/01aglibrary/01principles.html> (accessed Jan. 1, 2007)

Other works by this author: *Artificial Manure Production on the Farm* (1927); *Legume Bacteria with Reference to Light and Longevity*, with Lloyd M. Turk (1929); *Nitrate Production in Soils as Influenced by Cropping and Soil Treatments* (1938); *Nitrogen Fixation and Soil Fertility Exhaustion by Soybeans under Different Levels of Potassium*, with Carl E. Ferguson (1941); *Soil Fertility and Animal Health* (1958).

Dr. Albrecht's observations, research and teaching on soil and soil's relationship to plant, animal and human nutrition reflect the essence of sustainable soil management. A professor at the University of Missouri College of Agriculture, Albrecht wrote hundreds of reports, books and articles that span several decades, starting with his reports on nitrogen fixation and soil inoculation in 1919. MVG

Cited in: Coleman (1976); Merrill (1983)

1923



Gray, L. C., O. E. Baker, F. J. Marschner, B. O. Weitz, William Ridgely Chapline, Ward Shepard and Raphael Zon

The Utilization of Our Lands for Crops, Pasture and Forests

In *Agriculture Yearbook, 1923*. Washington DC: United States Department of Agriculture; Government Printing Office, 1923, p. 415-506.

NAL Call no: 1 Ag844 1923

Full-text: National Agricultural Library Digital Repository (NALDR),

http://naldr.nal.usda.gov/NALWeb/Agricola_Link.asp?Accession=IND43843004 (accessed Jan. 1, 2008)

This article reflects the government's views as to the "present situation and future outlook" regarding available resources for the growing of food and raw materials which must be supplied by crop lands, pastures and forests. As such, it is both a summary and an estimate. JPG

Cited in: Pieters (1927)

1924



Steiner, Rudolf, 1861-1925

Agriculture: A Course of Eight Lectures

London: Bio-Dynamic Agricultural Association, Rudolf Steiner House, 1974 (oldest edition held by the National Agricultural Library). 175p. Translated from the German, *Geisteswissenschaftliche Grundlagen zum Gedeihen der Landwirtschaft* (1924), by George Adams. Preface by Ehrenfried Pfeiffer.

NAL Call no: S523.S8313 1974

Other works by this author: *Readings in Goethean Science*, with Johann Wolfgang von Goethe (1978); *What is Biodynamics? A Way to Heal and Revitalize the Earth: Seven Lectures* (2005).

This is the text which is based on the series of lectures Steiner gave in Koberwitz, Silesia in 1924. The lecture series marked the beginning of the biodynamic agriculture movement. JPG. [The biodynamic farm/food certification organization, Demeter, was also initiated in the 1920s. MVG]

Cited in: Conford (2001); Harwood (1983); Harwood (1990); Heckman (2006); Kirschenmann (2004); Scofield (1986)

1927



Elton, Charles Sutherland, 1900-1991

Animal Ecology

London: Sidgwick and Jackson, 1927. 207p. Introduction by Julian S. Huxley. List of references, p.192-200. Other editions: 3rd edition, 1950.

NAL Call no: 411 E18

Partial-text (2001 edition): Google Books, http://books.google.com/advanced_book_search (search on title) (accessed Jan. 29, 2008)

Other works by this author: *Animal Ecology and Evolution* (1930); *The Ecology of Invasions by Animals and Plants* (1958).

Elton helped define the field of ecology by focusing on the study of animal populations as opposed to studying individual organisms or the more general “scientific natural history.” His approach, along with refinements established by Amyan Macfadyen (*Animal Ecology: Aims and Methods*, 1957) and others in the 1950s, laid the groundwork for “agroecology.” MVG. See also: Altieri, 1983 and Gliessman, 1998.

1927



Pieters, Adrian John, 1866-1940

Green Manuring: Principles and Practice

New York: Wiley, 1927. xiv, 356p. Includes index. Bibliography. (The Wiley Agricultural Series)

NAL Call no: 57.5 P61

Full-text: Soil and Health Library, Steve Solomon,

<http://www.soilandhealth.org/01aglibrary/01principles.html> (accessed Jan. 1, 2007)

Other works by this author: *Green Manuring*, with C.V. Piper (USDA Farmers’ Bulletin, no. 1250, 1922); *Soil-depleting, Soil-conserving, and Soil-building Crops* (USDA Leaflet, no. 165, 1938); *Legumes in Soil Conservation Practices* (USDA Leaflet, no. 163, 1938) (all three will be available online at Organic Roots, Organic Agriculture Information Access, <http://quod.lib.umich.edu/n/nal/> in June 2008).

Pieters was an agronomist working for the USDA at the time he wrote this book, defining “green manuring,” and cover, catch and shade crops. The second chapter, a history of the

“The value of green manuring lies in the fact that organic matter is worked into the soil and the organic matter in soil is recognized as being one of its most valuable constituents. The soil nitrogen is associated with the organic matter and the decay of this organic matter influences the availability of the soil minerals.” Adrian J. Pieters, 1927

subject, covers China and Japan, Greece and Rome, through the Middle Ages to England and America in the 19th Century. JPG
Cited in: Korcak (1992); Waksman (1936)

1928



Bennett, Hugh Hammond, 1881-1960, and William Ridgely Chapline, 1891-

Soil Erosion: A National Menace

Washington DC: United States Department of Agriculture, 1928. 36p. 16 plates of photographs.

Bibliography, p. 35-36. (Circular, 33)

NAL Call no: 1 Ag84C no.33

Full-text: Organic Roots, Organic Agriculture Information Access, <http://quod.lib.umich.edu/n/nal/> (to be added June, 2008)

Other works by Bennett: *Conservation Farming Practices and Flood Control* (1936); *Soil Conservation* (1939); *Thomas Jefferson, Soil Conservationist* (1944); *Our American Land: The Story of its Abuse and its Conservation* (1946); *Elements of Soil Conservation* (1947). Other works by Chapline: *Range Research in the United States* (1937).

“Hugh Hammond Bennett led the soil conservation movement in the United States in the 1920s and 1930s, urged the nation to address the ‘national menace’ of soil erosion and created a new federal agency and served as its first chief - the Soil Conservation Service, now the Natural Resources Conservation Service [NRCS] in the U.S. Department of Agriculture. He is considered today to be the father of soil conservation.” *A Story of Land and People: Biography of Hugh Hammond Bennett*, USDA, NRCS (<http://www.nrcs.usda.gov/about/history/bennett.html>) (accessed February 1, 2007). MVG
Cited in: Beeman (1993); Worster (1985)

1929



Smith, Joseph Russell, 1874-1966

Tree Crops: A Permanent Agriculture

New York: Harcourt, Brace, 1929. xii, 333p. “List of articles in which the tree crops idea has been broadcasted,” p. 295. “Bibliography on soil erosion and its prevention,” p. 296-301. Other editions: 1950 edition (Devon-Adair) includes an introduction by Wendell Berry.

NAL Call no: 99 Sm6 1929

Full-text (selected chapters only): Journey to Forever Online Library, http://journeytoforever.org/farm_library.html (accessed Jan. 1, 2007)

Smith’s compilation of important trees and how to grow them was written to promote remedies for worn out soils, soil erosion on hillsides, flooding and degradation of arid lands. “Testing applied to the plant kingdom would show that the natural engines of food production for hill lands are not corn and other grasses, but trees.” Part I: “The Philosophy, Tree Crops - The Way Out.” MVG

1930



Jenny, Hans, 1899-1992

A Study on the Influence of Climate upon the Nitrogen and Organic Matter Content of the Soil

Columbia MO: University of Missouri, College of Agriculture, Agricultural Experiment Station, 1930. 66p. Bibliography, p. 64-66. (Research Bulletin, 152)

NAL Call no: 100 M693 (3) no.152

Other works by this author: *Factors of Soil Formation: A System of Quantitative Pedology* (1941, reprinted 1994) (full-text: Soil and Health Library, Steve Solomon, <http://www.soilandhealth.org/01aglibrary/01principles.html>) (accessed Apr. 23, 2007); *The Soil Resource: Origin and Behavior* (1980).

Jenny's work, first at the University of Missouri (Columbia) and later at the University of California, Berkeley, focused on defining soil properties and the process of soil formation. His research on the effect of natural influences - climate, organisms, topography, time and parent material - on soil organic matter (SOM) dynamics was very influential during the mid-1900s and seems particularly relevant today, MVG
Cited in: Worster (1985)

1932



Pottenger, Francis Marion, 1901-1967

Pottenger's Cats: A Study in Nutrition

La Mesa CA: Price-Pottenger Nutrition Foundation, 1995 (oldest edition held by the National Agricultural Library). xv, 123p. Bibliography: "The professional papers of Francis M. Pottenger, Jr., M.D.," p. 121-123. Edited by Elaine Pottenger with Robert T. Pottenger, Jr.
NAL Call no: TX537 .P67 1995

This compilation presents the observations made by Francis M. Pottenger, Jr., M.D., on the effects of deficient and optimum nutrition in cats and human beings as recorded in his articles and clinical records written between the years of 1932 and 1956. Pottenger's work focused on the nutritive value of heat-labile elements - nutrients destroyed by heat and available only in raw foods. He linked his observations of cats on deficient diets to Dr. Weston Price's studies (see Price, 1939) of human degeneration found in tribes and villages that had abandoned traditional foods. MVG
Cited in: Merrill (1983)

1935



Sears, Paul Bigelow, 1891-1990

Deserts on the March

Norman: University of Oklahoma Press, 1935. 231p. Most recent edition: 4th edition, University of Oklahoma Press, 1980.
NAL Call no: 277.12 Se1

Partial-text (1988 edition): Google Books,

http://books.google.com/advanced_book_search (search on title) (accessed Jan. 29, 2008)

Other works by this author: *Life and Environment* (1939); *Biology of the Living Landscape* (1964); *Lands Beyond the Forest* (1969).

In 1935, drought held sway over much of the United States and the Dust Bowl was at its worst. With an ecological approach, Sears writes eloquently about desertification, a problem that remains one of the primary challenges facing sustainability of agriculture world-wide. MVG
Cited in: Conford (2001)

"Mechanical invention plus exuberant vitality have accomplished the conquest of a continent with unparalleled speed, but in doing so have broken the gentle grip wherein nature holds and controls the forces which serve when restrained, destroy when unleashed." Paul B. Sears, 1935

1935



Stapledon, Sir Reginald George, 1882-1960

The Land Now and Tomorrow

London: Faber and Faber, 1935. xvii, 336p. Includes foldout maps. Bibliography, p. 316-325.
NAL Call no: 282 St2

Other works by this author: *The Cultivation and Varieties of Oats* (1923); *Ley Farming*, with W. Davies (1941) (full-text, 1948 edition: Journey to Forever Online Library,

http://journeytoforever.org/farm_library.html) (accessed Apr. 23, 2007); *The Way of the Land* (1949) (full-text: Soil and Health Library, Steve Solomon,

<http://www.soilandhealth.org/01aglibrary/01principles.html>) (accessed Apr. 23, 2007).

Stapledon, Professor of Agricultural Botany at University College of Wales Aberystwyth, founded the Welsh Plant Breeding Station in 1919. He was concerned with ley farming and improvement of grass plants. MVG
Cited in: Conford (2001)

1936



McCarrison, Sir Robert, 1878-1960

Nutrition and Health, being the Cantor Lectures Delivered before the Royal Society of Arts, 1936, together with two earlier essays, by Sir Robert McCarrison, and a postscript by H. M. Sinclair

London: Faber and Faber, 1953 (oldest edition held by the National Agricultural Library). 125p.
Published in 1936 under title: *Nutrition and National Health*. (Royal Society of Arts, London, Cantor Lectures)

NAL Call no: 389.1 M125N 1953

Full-text (McCarrison lectures only): McCarrison Society Scottish Group,

<http://www.foodforhealthscotland.org/nutritionandnationalhealth.html> (accessed Jan. 1, 2007)

Other works by this author: *Studies in Deficiency Disease* (1921) (full-text: Soil and Health Library, Steve Solomon, <http://www.soilandhealth.org/01aglibrary/01principles.html>) (accessed Apr. 23, 2007); *The Work of Sir Robert McCarrison*, edited by H.M. Sinclair (1953).

Dr. McCarrison spent most his career in the Indian Medical Service. Through his studies in India and Britain, dating from the 1930s, he concluded that the relationship of food to nutrition and of both to health and disease was the key to maintaining good “national health.”
MVG

Cited in: Conford (1988); Conford (2001); Merrill (1983)

1936



Waksman, Selman Abraham, 1888-1973

Humus: Origin, Chemical Composition, and Importance in Nature

Baltimore: Williams and Wilkins, 1936. 526p. Subject and author indexes. Extensive bibliography.
NAL Call no: 56 W13H

Full-text: Core Historical Literature of Agriculture, Cornell University,

<http://chla.library.cornell.edu/cgi/t/text/text-idx?c=chla;idno=2828925> (accessed Jan. 1, 2007)

Other works by this author: *Principles of Soil Microbiology* (1927); *Soil Microbiology* (1952); *Soil Organic Matter and the Living Plant*, with A.W. Blair (1938); *Guide to the Classification and Identification of the Actinomycetes and their Antibiotics*, with Hubert A. Lechevalier (1953); *My Life with the Microbes* (1954).

An “attempt to tell the story of humus, its origin from plant and animal residues, its chemical composition, its physical properties, its importance in nature, especially in soil processes and in plant growth and finally its decomposition.” JPG

Cited in: Balfour (1943); Beeman (1993); Blum (1993); Coleman (1976); Conford (2001); Harwood (1983); Harwood (1990); Korcak (1992); Merrill (1983); author cited extensively by Pfeiffer

1938



Pfeiffer, Ehrenfried, 1899-1961

Bio-dynamic Farming and Gardening: Soil Fertility Renewal and Preservation

New York; London: Anthroposophic Press; Rudoff Steiner Pub. Co., 1938. vii, 2 leaves, 220p.

Translated from the German, *Die Fruchtbarkeit der Erde* (1937), by Fred Heckel. Bibliography, p. 217-220. 18 illustrations.

NAL Call no: 30 P47

Full-text (American edition): Core Historical Literature of Agriculture, Cornell University, <http://chla.library.cornell.edu/cgi/t/text/text-idx?c=chla;idno=3138977> (accessed Jan. 1, 2007)

Other works by this author: *Practical Guide to the Use of the Bio-dynamic Preparations* (revised edition, 1945); *The Earth's Face and Human Destiny* (1947); *The Compost Manufacturers Manual; the Practice of Large Scale Composting* (1956); *Weeds and What They Tell* (reprint, 1981).

Based on Steiner's approach, this book stresses the importance of the "life process (biological process)," with the farm or garden a biological organic unit, not a series of unconnected processes. JPG

Cited in: Coleman (1976); Conford (2001); Harwood (1983); Harwood (1990); Merrill (1983)

1938



United States Department of Agriculture

Soils and Men: The Yearbook of Agriculture, 1938

Washington DC: U.S. Government Printing Office, 1938. 1232p. Includes index. Glossary. Literature cited.

NAL Call no: 1 AG844 1938

Full-text: National Agricultural

Library Digital Repository

(NALDR)

http://naldr.nal.usda.gov/NALWeb/Agricola_Link.asp?Accession=yoa1938front (accessed Jan. 29, 2008)

"In this book the effort is made to discover man's debt and duty to soil. The scientists examine the soil problem from every possible angle. This book must be reckoned with by all who would build a firm foundation for the future of the United States." Henry A. Wallace, Secretary of Agriculture, 1938

More than 100 authors contributed to this yearbook, including William A. Albrecht, then Professor of Soils at the University of Missouri and one of the fathers of the ecological agricultural movement. It represents an effort to see "the subject as a whole - scientific aspects, practical aspects, social and economic aspects; the needs of individuals, groups and the Nation." JPG

Cited in: Blum (1993); Conford (2001); Merrill (1983)

1939



Jacks, Graham Vernon, 1901-1977, and Robert Orr Whyte, 1903-1986

The Rape of the Earth: A World Survey of Soil Erosion

London: Faber and Faber, 1939. 313p. Includes index. 47 illustrations. Published in America under the title *Vanishing Lands; a World Survey of Soil Erosion*.

NAL Call no: 56.7 J13

Other works by Jacks: *Soil* (1954). Other works by Whyte: *Crop Production and Environment* (1946; revised, 1960); *Land, Livestock and Human Nutrition in India* (1968); *Tropical Grazing Lands: Communities and Constituent Species* (1974).

Frequently cited, this book is a pioneering classic on the subject. JPG

Cited in: Balfour (1943); Conford (1988); Conford (2001); Howard (1940); Merrill (1983); Northbourne (1940); Scofield (1986)

1939



Price, Weston Andrew, 1870-1948

Nutrition and Physical Degeneration; a Comparison of Primitive and Modern Diets and Their Effects

New York; London: P. B. Hoeber, 1940 (oldest edition held by the National Agricultural Library). xviii, 431p. Foreword by Earnest Albert Hooton. References at end of some of the chapters. Includes 134 figures (primarily photographs taken by the author). Other editions: A 50th anniversary edition, 1989, includes forewords from the original editions by Earnest Albert Hooton, Granville Frank Knight, M.D., William A. Albrecht, Ph.D., and new introductions and reminiscences specially

written for the Golden Anniversary Edition by Abram Hoffer, M.D., Ph.D., H. Leon Abrams, Jr. and Donald Delmage Fawcett.

NAL Call no: 389.1 P93

Full-text: Journey to Forever Online Library, http://journeytoforever.org/farm_library.html (accessed Jan. 1, 2007)

A practicing dentist, Price set out to discover why certain “primitive” peoples exhibited perfect teeth while the majority of individuals from modern societies had such poor ones. His travels and work of the 1920s and 1930s produced broad nutritional studies that linked many of modern society’s health problems to diet and to how modern food is grown and prepared.

MVG

Cited in: Conford (2001); Merrill (1983)

1940



Bruce, Maye Emily, 1879-

From Vegetable Waste to Fertile Soil (Quick Return Compost)

London: C.A. Pearson, 1940. 64p. Bibliography, p. 63. Foreword by L.F. Easterbrook.

NAL Call no: 57.4 B83

Other works by this author: *Common-sense Compost Making by the Quick Return Method* (1946)

(full-text: Journey to Forever Online Library, http://journeytoforever.org/farm_library.html)

(accessed Apr. 23, 2007); *Compost Making: Practical Advice on Nature’s Method of Restoring Life in the Soil* (1947).

Bruce was a composting pioneer, along with Sir Albert Howard. Both became founding members of the Soil Association in England. MVG

Cited in: Coleman (1976); Conford (2001); Harwood (1983); Harwood (1990)

1940



Howard, Sir Albert, 1873-1947

An Agricultural Testament

Oxford: Oxford University Press, 1940. 253p. Includes index. Literature. Bibliographies at ends of chapters.

NAL Call no: 56.6 H83A

Full-text: Soil and Health Library, Steve Solomon; and Journey to Forever Online Library,

<http://www.soilandhealth.org/01aglibrary/01principles.html>;

http://journeytoforever.org/farm_library.html (accessed Jan. 1, 2007)

Other works by this author: *Soil and Health: A Study of Organic Agriculture* (1947).

This is the classic study on soil fertility by the “father of the movement.” It includes the “Agriculture of the Nations Which Have Passed Away” and observations of agricultural practices of both the Orient and the Occident. JPG

Cited in: Balfour (1943); Blum (1993); Coleman (1976); Conford (1988); Conford (2001);

Esbjornson (1992); Harwood (1983); Harwood (1990); Heckman (2006); Kirschenmann

(2004); Korcak (1992); Kuepper, Gegner (2004); Merrill (1983); Northbourne (1940);

Scofield (1986)

1940



Northbourne, Walter Ernest Christopher James Lord Baron, 1896-1982

Look to the Land

London: Dent, 1940. 206p. Includes index. Bibliography.

NAL Call no: 30 N81

Partial-text (2003 edition): Google Books, http://books.google.com/advanced_book_search (search on title) (accessed Jan. 29, 2008)

Other works by this author: *Religion in the Modern World* (1963); *Looking Back on Progress* (1970).

This frequently overlooked early inspirational work includes the first known use of the term “organic farming” in a chapter heading on page 148, “diversified organic farming a practical proposition.” According to his son, the present Baron, Northbourne felt obliged, when World War II came in 1939, “to recommend to other farms the chemical methods of stimulating production” in order to “help feed” the country. “Being an honourable person, he therefore felt that he, too, must abandon his organic production and adopt the more conventional methods of fertilising and weed control which were beginning to emerge at that time.” (Personal correspondence 9/88) JPG
Cited in: Blum (1993); Coleman (1976); Conford (2001); Harwood (1983); Harwood (1990); Kirschenmann (2004); Korcak (1992); Scofield (1986)

1941



Beeson, Kenneth Crees, 1903-1998

The Mineral Composition of Crops with Particular Reference to the Soils in Which They Were Grown: A Review and Compilation

Washington DC: United States Department of Agriculture, 1941. 164p. “The work represented by this publication was supported by the Bankhead-Jones Research Fund. It was initiated in the Bureau of Chemistry and Soils (now the Bureau of Agricultural Chemistry and Engineering) and was later transferred to the Bureau of Plant Industry.” Bibliography, p. 59-90. “Sources of unpublished material,” p. 91. (Miscellaneous Publication, 369)

NAL Call no: 1 Ag84M no.369

Full-text: Organic Roots, Organic Agriculture Information Access, <http://quod.lib.umich.edu/n/nal/> (to be added June, 2008)

Although he found “confusion and contradictory results” in the fertilizer studies he read, Beeson did arrive at a couple of important conclusions with this review. One, “...empirical investigations have quite definitely shown that Liebig’s ‘law of the minimum’ never represented the mechanism of absorption of nutrients by plants and that the actual facts seem to indicate that when one of the principal nutrients is deficient in the soil solution, the others are taken up by the plant in amounts greater than normal...”; and two, that “...fundamental studies of what changes take place in the soil when the fertilizers are applied and the effect these changes will have on the plant are lacking.” Scientists continue to struggle with researching these same issues. MVG

1941



Graham, Michael

Soil and Sense

London: Faber and Faber, 1941.

274p. Preface by Sir E. John Russell. “This book grew out of articles in *Riding* [magazine].”

NAL Call no: 32 G762

Full-text: Soil and Health Library,

Steve Solomon, <http://www.soilandhealth.org/01aglibrary/01principles.html> (accessed Jan. 1, 2007)

Other works by this author: *A Natural Ecology* (1973).

“...whenever the public purse is used to help farming, that the money should go to good farmers who feed the land as tradition says it should be fed and that none should go to those who merely exploit it.” Michael Graham, 1941

In Great Britain, the unprecedented cultivation of traditional pastureland and the introduction of “modern” tillage and fertilization practices during World War II provided much needed food. However, Graham and many others saw this as “land-robbery,” and feared for the future of soils and food production there. Graham emphasized the need to return to integrated grassland and animal production and stated, MVG

Cited in: Coleman (1976); Harwood (1983); Harwood (1990)

1942

 Barlow, Kenneth Elliott, 1906-2000

The Discipline of Peace

London: C. Knight, 1971 (oldest edition held by the National Agricultural Library). 147p. Other editions: 2nd edition, 1971, includes a new Introduction by the author and preface by Robert Waller. (Classics of Human Ecology, 2)

NAL Call no: GN320.B3 1971

Other works by this author: *A Home of Their Own* (1946); *The Law and the Loaf* (1978); *Soil, Food and Health in a Changing World*, co-edited with Peter Bunyard (1981); *Recognising Health* (1988).

A medical doctor in Britain, Barlow completed this publication during World War II. It examines the ecological basis of a sustainable and “fulfilling civilization” in the context of post-war reconstruction. “Current concerns about food quality and the dangers of a technological attitude to the environment were anticipated 60 years ago by Barlow and a farsighted group of agriculturalists, doctors and writers. They developed an organic philosophy and established the Soil Association to put principles into practice; Barlow was a founder member.” “Obituary: Dr Kenneth Barlow,” by Philip Conford, in *The Independent* (London), Mar 1, 2001.

Cited in: Conford (2001); Harwood (1983); Harwood (1990)

1942

 Billington, Francis Howard, -1947

Compost for Garden Plot or Thousand-acre Farm: A Practical Guide to Modern Methods

London: Faber and Faber, 1942. 88p. Includes a glossary and annotated “Brief Bibliography of Non-technical Works,” p. 85-88. Other editions: 4th edition of this work, revised by Ben Easey, 1956.

NAL Call no: 57.4 B49

Written in Britain during World War II, during a shortage of chemical fertilizers, this small volume organized a growing body of information about composting - bio-dynamic practices in Germany, Sir Albert Howard’s Indore methods and the “Quick Return” compost system - into an instructive manual for gardeners and farmers. MVG

Cited in: Coleman (1976); Harwood (1983); Harwood (1990)

1943

 Balfour, Lady Evelyn Barbara, 1899-1990

The Living Soil

London: Faber and Faber, 1943. 248p. Includes index. Glossary. Bibliography. Other editions: *The Living Soil; Evidence of the Importance to Human Health of Soil Vitality, with Special Reference to Post-war Planning* (1944); *The Living Soil and the Haughley Experiment* (1975).

NAL Call no: 56.5 B19

Full-text: Soil and Health Library, Steve Solomon; and Journey to Forever Online Library,

<http://www.soilandhealth.org/01aglibrary/01principles.html>;

http://journeytoforever.org/farm_library.html (accessed Jan. 1, 2007)

Other works by this author: *Towards a Sustainable Agriculture - The Living Soil* (speech presented at the 1977 International Federation of Organic Agriculture Movements (IFOAM) conference in Switzerland) (full-text: Journey to Forever Library,

http://journeytoforever.org/farm_library/balfour_sustag.html) (accessed Apr. 23, 2007).

Based on 32 years’ comparison of organic, mixed and chemical sections of a farm at Haughley, England, this is an extremely readable exposition of the evidence in favor of biological agriculture by one of the founders of that country’s “Soil Association.” JPG
Cited in: Blum (1993); Coleman (1976); Conford (1988); Conford (2001); Harwood (1983); Harwood (1990); Heckman (2006); Kirschenmann (2004); Korcak (1992); Merrill (1983); Scofield (1986)

1943



Faulkner, Edward Hubert, 1886-1964

Plowman's Folly

New York: Grossett and Dunlap, 1943. 155p.

NAL Call no: 56.7 F27

Full-text: Soil and Health Library, Steve Solomon; and Journey to Forever Online Library,

<http://www.soilandhealth.org/01aglibrary/01principles.html>;

http://journeytoforever.org/farm_library.html (accessed Jan. 1, 2007)

Other works by this author:

Practical Farming for the South, with B. F. Bullock (1944); *Uneasy Money* (1946); *A Second Look* (1947); *Ploughing in Prejudices* (1948); *Soil Restoration* (1953).

"The truth is that no one has ever advanced a scientific reason for ploughing. Many learned teachers have had embarrassing moments before classes of students demanding to be shown why it would not be better to introduce all organic matter into the surface of the soil than to bury it, as is done by the plough." Edward H. Faulkner, 1943

As the title implies, this famous work states that plowing is wrong and that the moldboard plow is not a satisfactory implement for the preparation of land for the production of crops. JPG
Cited in: Beeman (1993); Coleman (1976); Conford (2001); Harwood (1983); Harwood (1990); Heckman (2006)

1944



Henderson, George

The Farming Ladder

London; Boston: Faber and Faber, 1974 (oldest edition held by the National Agricultural Library). 246p.

NAL Call no: S455.H423-1978

Full-text: Soil and Health Library, Steve Solomon,

<http://www.soilandhealth.org/01aglibrary/01principles.html> (accessed Jan. 1, 2007)

Other works by this author: *Farmer's Progress* (1950) (full-text: Soil and Health Library, Steve Solomon, <http://www.soilandhealth.org/01aglibrary/01principles.html>) (accessed Apr. 23, 2007);

The Farming Manual (1960).

Henderson's readable books describe farming from the farmer's point of view. "The preservation of fertility is the first duty of all that live by the land... There is only one rule of good husbandry - leave the land far better than you found it." Henderson's books are highly recommended by Eliot Coleman. MVG
Cited in: Coleman (1976)

1945-1979

Two separate paths

Author Joseph Heckman notes that the "period from about 1940 to 1978 may be called the era of polarization of agriculture into organic and non-organic camps." ("A History of Organic Farming – Transitions from Sir Albert Howard's War in the Soil to the USDA National Organic Program." *Renewable Agriculture and Food Systems* (2006), vol, 21, no. 3, pp. 143-150 (full-text at Weston A. Price Foundation, <http://www.westonaprice.org/farming/history-organic-farming.html>) (accessed May 7, 2007)

Mainstream agriculture emphasized improving crop and livestock production volume at every level. Dramatic increases in yield per acre were made and the "Green Revolution" with its breeding of high-yielding grain varieties, monocropping, and extensive use of energy, fertilizer and pesticides came to

symbolize farming progress. The agricultural research establishment distanced itself from organic approaches and those who espoused them.

Nonetheless, a small contingent of scientists, farmers, writers and others continued to explore ecological soil building techniques, gardening without synthetic chemicals and other “alternatives” to conventional farming and marketing. The environmental movement’s onset in the late 1960s and early 1970s marked the beginning of the end of this polarization.

1945



Delbet, Pierre Louis Ernest, 1861-1957

L’Agriculture et la Santé

Paris: Denoel, 1945. 111p. Translated title: *Agriculture and Health*.

NAL Call no: 57 D372

Dr. Delbet was a physician who experimented at length with the medicinal applications of magnesium chloride. His studies led him explore the relationship between human health and agriculture, and he espoused “biological” food production systems. He is credited with the first use of the French term, “agriculture biologique.” (“biological agriculture”). In the 1950s, Raoul Lemaire and Jean Boucher built on Delbet’s concept of biological agriculture, creating the widely adopted Lemaire-Boucher system. MVG. See also: Boucher, 1968.

1945



Rayner, Mabel Cheveley, -1948

Trees and Toadstools

London: Faber and Faber, 1946 (oldest edition held by the National Agricultural Library). 71p. First published in 1945. Republished, 1947.

NAL Call no: 463.88 R21T

Full-text: Soil and Health Library, Steve Solomon; and Journey to Forever Online Library,

<http://www.soilandhealth.org/01aglibrary/01principles.html>;

http://journeytoforever.org/farm_library.html (accessed Jan. 1, 2007)

Other works by this author: *Problems in Tree Nutrition* (1944).

This non-technical book discusses early mycorrhizal research. MVG
Cited in: Merrill (1983)

1945



Rodale, Jerome Irving, 1898-1971

Pay Dirt: Farming and Gardening with Composts

New York: Devin Adair, 1945. 242p. Bibliography.

Introduction by Albert Howard.

NAL Call no: 57.4 R61

Full-text: Core Historical Literature of Agriculture, Cornell University,

<http://chla.library.cornell.edu/cgi/t/text/text-idx?c=chla;idno=2838381> (accessed Jan. 1, 2007)

Other works by this author: *Organic Front* (1948); *Stone Mulching in the Garden* (1949); *Organic Method on the Farm* (1949); *Organic Gardening: How to Grow Healthy Vegetables, Fruits, and Flowers Using Nature’s Own Methods* (1955); *Garden Success without Poison Sprays* (1962); *The Prevention System for Better Health*, with Robert Rodale (1974).

The classic statement on the value of soil, this and Rodale’s later works sparked and fueled the organic movement in North America. JPG. See also: Rodale, 1948.

Cited in: Beeman (1993); Conford (2001); Harwood (1983); Harwood (1990); Heckman (2006); Korcak (1992); Kuepper, Gegner (2004); Rateaver (1973), Scofield (1986)

“Where strong chemical fertilizers are used, conditions distasteful to earthworms arise and their numbers rapidly decrease – even to the vanishing point.” J.I. Rodale, 1943

1945



Shepard, Ward, 1887-1960

Food or Famine, the Challenge of Erosion

New York: Macmillan, 1945. x, 225p. Includes index.

NAL Call no: 56.7 Sh4F

Full-text: Core Historical Literature of Agriculture, Cornell University,

<http://chla.library.cornell.edu/cgi/t/text/text-idx?c=chla;idno=3135913> (accessed Jan. 1, 2007)

Other works by this author: *Forests and Floods* (1928); *The Forest Problem* (1929); *Outline of a Proposed Organic Act of Congress to Prevent Forest Degeneration and Destruction and to Preserve and Rebuild Forest Resources* (1940); *La Conservacion de las Tierras Indigenas en los Estados Unidos* (for the National Indian Institute, Department of the Interior, 1942).

In the wake of the Dust Bowl, Shepard wrote eloquently about soil conservation. "Erosion, floods, droughts, the destruction of great land masses, the violent disruption of whole river systems - these are nature's weapons against the impious creature who dares rob her riches without replenishing them." His work pointed to the relationship of soil loss to water and irrigation practices, farming and forestry, land ownership patterns and more. "World agriculture must be established on biological and ecological principles that emulate nature's way of maintaining the dynamic soil-water-plant complex." MVG

Cited in: Beeman (1993)

1946



Kolisko, Eugen, 1893-1939, and Lily Noha Kolisko, 1889-

Agriculture of Tomorrow

Gloucester: Kolisko Archive, 1946. 426p. Includes index. Bibliography. Other editions: 2nd edition, 1978.

NAL Call no: 30 K833

Full-text: (1939 edition) Soil and Health Library, Steve Solomon,

<http://www.soilandhealth.org/01aglibrary/01principles.html> (accessed Jan. 1, 2007)

This account of scientific work based on the principles of Rudolf Steiner details the Koliskos' controlled experiments on the effects of cosmic forces on crop production. JPG

Cited in: Conford (2001); Harwood (1983)

1946



Wrench, Guy Theodore, -1954

Reconstruction by Way of the Soil

London: Faber and Faber, 1946. 262p.

NAL Call no: 56 W92

Full-text: Journey to Forever Online Library, http://journeytoforever.org/farm_library.html (accessed Jan. 1, 2007)

Other works by this author: *The Wheel of Life: A Study of Very Healthy People* (1938) (full-text: Journey to Forever Online Library, http://journeytoforever.org/farm_library.html) (accessed Jan. 1, 2007).

This book presents an international history of how the earth's soil resources have been used and abused through the centuries, from Roman times through World War II. Wrench calls on post-war society to wage "A new social, non-military war... war on behalf of the soil and of the healthy life and physical freedom of men." (Chapter 24, "Action") Wrench also authored an influential book on human nutrition, *The Wheel of Life: A Study of Very Healthy People* (C.W. Daniel, 1938), a study of the Hunza, a mountain people renowned for their longevity and vigor. Wrench postulated that human health depends on a "whole" diet that emphasizes consumption of natural foods grown in an environmentally sound way. MVG

Cited in: Coleman (1976); Conford (1988); Harwood (1983)

1947



Bromfield, Louis, 1896-1956

Malabar Farm

New York: Harper, 1947. 405p. Drawings by Kate Lord.

NAL Call no: 31.3 B78M

Other works by this author: *Pleasant Valley* (1945); *Few Brass Tacks* (1946); *Out of the Earth* (1950); *New Pattern for a Tired World* (1954); *From my Experience; the Pleasures and Miseries of Life on a Farm* (1955); *Animals and Other People* (1955); *Wealth of the Soil* (1959).

The journal of the famous Ohio farmer/author, this work intersperses anecdotes and history with practical advice and a recounting of his experiences. It is a sequel to his earlier book, *Pleasant Valley*, published in 1945. JPG

Cited in: Beeman (1993); Blum (1993); Coleman (1976); Conford (2001); Harwood (1983), Harwood (1990); Heckman (2006); Merrill (1983); Rateaver (1973)

1947



Howard, Lady Louise Ernestine Matthaei, 1880-

The Earth's Green Carpet

London: Faber and Faber, 1947. 219p. Includes index. Appendices, including "The Indore Process and its Evolution" and a "List of Books" (including periodicals).

NAL Call no: 30 H83

Full-text: Soil and Health Library, Steve Solomon; and Journey to Forever Online Library,

<http://www.soilandhealth.org/01aglibrary/01principles.html>;

http://journeytoforever.org/farm_library.html (accessed Jan. 1, 2007)

Other works by this author: *Labour in Agriculture: An International Survey* (1935); *Sir Albert Howard in India* (1953) (full-text: Soil and Health Library, Steve Solomon,

<http://www.soilandhealth.org/01aglibrary/01principles.html>) (accessed Apr. 23, 2007).

This is an account of the ideas and principles of Sir Albert Howard written by his second wife, also a proponent of organic agriculture. JPG

Cited in: Coleman (1976); Harwood (1983); Merrill (1983)

1948



Lowdermilk, Walter Clay, 1888-1974

Conquest of the Land Through Seven Thousand Centuries

Washington: Soil Conservation Service, U.S. Dept. of Agriculture, 1975 (oldest edition held by the National Agricultural Library). 30p. Includes illustrations and photographs taken by Dr. Lowdermilk. (Agriculture Information Bulletin, 99)

NAL Call no: 1 Ag84Ab no.99 1975

Full-text (1953 version): National Agricultural Library Digital Repository (NALDR),

<http://naldr.nal.usda.gov/NALWeb/Search.aspx> (search on "lowdermilk") (accessed Jan. 1, 2007)

Other works by this author: *Erosion Control in Japan* (1934); *History of Soil Use in the Wu t'ai Shan Area*, with Dean R. Wickes (1938); *Soil, Forest, and Water Conservation and Reclamation in China, Israel, Africa, and the United States; an Interview Conducted by Malca Chall* (1969).

"In 1938 and 1939, Dr. Lowdermilk, formerly Assistant Chief of Soil Conservation Service, made an 18-month tour of western Europe, North Africa and the Middle East to study soil erosion and land use in those areas... The main objective of the tour was to gain information from those areas - where some lands had been in cultivation for hundreds and thousands of years - that might be of value in helping to solve the soil erosion and land use problems of the United States." Preface. MVG

Cited in: Blum (1993); Merrill (1983); Worster (1985)

1948



Okada, Mokichi, 1882-1955

Fertilizer-free Agriculture

Publisher unknown, 1948. 96p.

NAL Call no: n.a.

Other works by this author: *Health and the New Civilization* (1991).

A Japanese spiritual leader, Okada believed that medical science and agriculture play the most vital roles in the maintenance of life and health. Although English-language documentation for early publications is lacking at the National Agricultural Library, Okada's farming system dates from 1936; his original work (ca. 1946) was called, *A Great Agricultural Revolution*. Okada's philosophy is now associated with "Kyusei Nature Farming" and "Shumei Natural Agriculture." MVG

1948



Osborn, Fairfield, 1887-1969

Our Plundered Planet

Boston: Little, Brown, 1948. 217p. Includes bibliography.

NAL Call no: 279 Os1

Full-text: Core Historical Literature of Agriculture, Cornell University,

<http://chla.library.cornell.edu/cgi/t/text/text-idx?c=chla;idno=2932687> (accessed Jan. 1, 2007)

Other works by this author: *60,000 More Every 24 Hours!* (1951); *The Limits of the Earth* (1953).

Dedicated "to all who care about tomorrow," Osborn's book places the post-World War II environmental situation in historical and political context, from citing the problems of bygone civilizations to speculating about the future of Soviet farming. It is "an attempt to show what man has done in recent centuries to the face of the earth and the accumulated velocity with which he is destroying his own life sources." MVG

Cited in: Beeman (1993)

1948



Rodale, Jerome Irving, 1898-1971

The Organic Front

Emmaus PA: Rodale Press, 1948. 198p.

NAL Call no: 56.6 R610

Full-text: Soil and Health Library, Steve Solomon,

<http://www.soilandhealth.org/01aglibrary/01principles.html> (accessed Jan. 1, 2007)

Other works by this author: *Pay Dirt: Farming and Gardening with Composts* (1945); *Stone Mulching in the Garden* (1949); *Organic Method on the Farm* (1949); *Organic Gardening: How to Grow Healthy Vegetables, Fruits, and Flowers Using Nature's Own Methods* (1955); *Garden Success without Poison Sprays* (1962); *The Prevention System for Better Health*, with Robert Rodale (1974).

J. I. Rodale called the movement "organiculture," the "new, yet age-old method." JPG. See also: Rodale, 1945.

Cited in: Beeman (1993); Conford (2001); Harwood (1983); Harwood (1990); Heckman (2006); Merrill (1983)

"The organic farmer observes the Law of Return, restoring to the soil all plant residues that came from it. He does not burn leaves, spoiled hay, or other crop by-products, but often goes out of his way to retrieve organic matter that others throw away." J.I. Rodale, "The Organiculturist's Creed, *The Organic Method on the Farm*, 1949.

1949



Blackburn, John Stead, compiler, 1882-

Organic Husbandry: A Symposium

London: The Biotechnic Press, 1949. 160p. Annotated bibliography, p. 149-160.

NAL Call no: 56.6 B56

This unique compendium of papers includes such diverse sources as Sir Albert Howard's essay, "The Fresh Produce of Fertile Soil is the Real Basis of Public Health," "My Compost Garden," by L.F. Easterbrook and "Is Digging Necessary?" by F. C. King. The appended bibliography of historical and contemporary books is delightfully annotated by the compiler.

MVG

Cited in: Conford (2001)

1949



Butler, Lowell F.

The Decreasing Fertility of Western Soil

Denver: Atlas Printing and Engraving Co., 1949. 39p. Foreword by A. R. Bunger.

NAL Call no: 56.6 B97

Butler, an agricultural educator and plant pathologist, addressed, "soil exhaustion" and its remedies specific to calcareous, irrigated soils in the western United States. MVG

1949



Leopold, Aldo Carl, 1886-1948

A Sand County Almanac and Sketches Here and There

New York: Oxford University Press, 1949. 226p. Illustrated by Charles W. Schwartz.

NAL Call no: 409 L552

Other works by this author: *Game Management* (1933); *Ecological Conscience* (1947); *Round River; From the Journals of Aldo Leopold*, edited by Luna B. Leopold (1953);

The River of the Mother of God and Other Essays, edited by Susan L. Flader and J. Baird Callicott (1991); *For the Health of the Land: Previously Unpublished Essays and Other Writings*, edited by J. Baird Callicott and Eric T. Freyfogle (1999).

"A land ethic, then, reflects the existence of an ecological conscience, and this in turn reflects a conviction of individual responsibility for the health of the of the land. Health is the capacity of the land for self-renewal. Conservation is our effort to understand and preserve this capacity." Aldo Leopold, 1949

In this well-known collection of essays, Leopold presents the case for a land ethic as a product of social evolution. JPG

Cited in: Beeman (1993); Esbjornson (1992); Lehman (1993)

1949



Picton, Lionel James, 1874-

Nutrition and the Soil, Thoughts on Feeding

New York: Devin Adair, 1949. ix, 374p. Introductory essay on creative medicine, by Jonathan Forman. First published in Great Britain as *Thoughts on Feeding*.

NAL Call no: 56.6 P58

Full-text: Core Historical Literature of Agriculture, Cornell University, <http://chla.library.cornell.edu/cgi/t/text/text-idx?c=chla;idno=3134147> (accessed Jan. 1, 2007)

Picton, a medical doctor, was the person who "linked [Sir Albert] Howard's work on crop breeding and Sir Robert McCarrison's studies in nutrition. He brought the two men together in 1939 for the launch of the 'Medical Testament,' a document urging investigation of the

relationship between compost-grown food and human health.” “Organic Origins: The Ideas Shaping the Soil Association 60 Years Ago,” by Phillip Conford, in *Living Earth Newsletter*, Spring 2006. MVG
Cited in: Coleman (1976); Rateaver (1973)

1950



Cocannouer, Joseph A.

Weeds: Guardians of the Soil

New York: Devin Adair, 1950. 179p. Brief list of “other books on organiculture” opposite title page.
NAL Call no: 79 C04

Full-text: Journey to Forever Online Library,

http://journeytoforever.org/farm_library.html (accessed Jan. 1, 2007)

Other works by this author: *Farming with Nature* (1954; reissued as *Organic Gardening and Farming*, 1997); *Water and the Cycle of Life* (1958).

Called a “pioneering work” in the advocacy of the controlled use of weeds, this book’s author wrote on other subjects having to do with modern farming practices. JPG

Cited in: Coleman (1976); Harwood (1983); Harwood (1990); Merrill (1983); Rateaver (1973)

“Yet, there are situations a plenty where the wild plant is beneficial both to the soil and the domestic crop with which it may be growing”
Joseph A. Cocannouer, 1950

1950



University of California Berkeley Sanitary Engineering Research Laboratory

Composting for Disposal of Organic Refuse

Berkeley CA: Sanitary Engineering Research Laboratory, 1950. 42p. (Technical Bulletin, 1)
NAL Call no: 57.4 C12

This study examines a Berkeley CA modification of the Becari municipal composting system, successfully instituted in Italy. Although U.S. interest in commercial city composting systems peaked and then subsided in the early 1950s, the legacy of European and U.S. experiments from this period served a successful revival of large-scale composting efforts instituted in the 1980s and 1990s. MVG

Cited in: Blum (1993)

1951



Sykes, Friend Frank, 1888-1965

Food, Farming and the Future

London: Faber and Faber, 1951. Introduction by Louise E. Howard.

NAL Call no: 32 Sy4F

Other works by this author: *This Farming Business* (1944); *Humus and the Farmer* (1946) (full-text: Soil and Health Library, Steve Solomon,

<http://www.soilandhealth.org/01aglibrary/01principles.html>) (accessed Apr. 23, 2007); *Living from the Land: A Guide to Farm Management* (1957); *Modern Humus Farming* (1959).

An experienced British farmer, the author of this book also wrote *Humus and the Farmer* (1946) and *Modern Humus Farming* (1959). JPG

Cited in: Coleman (1976); Conford (1988); Conford (2001); Harwood (1983); Harwood (1990); Korcak (1992); Merrill (1983)

1952



Hyams, Edward Solomon, 1912 -1975

Soil and Civilization

London; New York: Thames and Hudson, 1952. 312p. Includes bibliography. Republished, Harper and Row, 1976. (The Past in the Present Series)

NAL Call no: 56 H99

Other works by this author: *Plants in the Service of Man 10,000 Years of Domestication* (1971).

A classic book that describes the parallel relationship between the decline of many of the world's great civilizations and the degradation of their soil resources. MVG

Cited in: Conford (1988); Conford (2001); Merrill (1983); Worster (1985)

1953



Odum, Eugene Pleasants, 1913-2002, and Howard Thomas Odum, 1924-2002

Fundamentals of Ecology

Philadelphia: Saunders, 1953. 384p. Includes bibliography. Other editions: 2nd edition, 1959; 3rd edition, 1971; 5th edition, with Gary Barrett, 2004.

NAL Call no: 442 Od8

Other works by Eugene Odum: *Ecology and Our Endangered Life-support Systems* (1989). Other works by Howard Odum: *Environment, Power, and Society* (1971); *Energy Basis for Man and Nature*, with Elizabeth C. Odum (1976); *Ecological and General Systems: An Introduction to Systems Ecology* (1994); *Environmental Accounting: EMERGY and Environmental Decision Making* (1996).

This book was one of the first textbooks to embrace a holistic view of ecosystems and human activities. Systems ecology pioneer, Eugene Odum, is listed as the sole author on the first edition of this work; collaboration with his brother Howard commenced with succeeding editions. Over the years, both brothers educated a wide audience about ecological and environmental issues. MVG

1954



Hainsworth, Peter Hugh, 1921-

Agriculture, a New Approach

London: Faber and Faber, 1954. 248p. Includes index. Bibliography. Glossary. Republished as *Agriculture, the Only Right Approach: Science Says There is a Difference* (Rateaver, 1976).

NAL Call no: 30 H12

One of the best early sources of technical information regarding natural fertilizing, this represents an "attempt to gather together relevant material that may have some bearing on the results achieved by, ...organic methods." JPG

Cited in: Blum (1993); Coleman (1976); Harwood (1983); Harwood (1990); Kuepper, Gegner (2004); Merrill (1983)

1954



Nearing, Helen, 1904-1995, and Scott Nearing, 1883-1983

Living the Good Life: Being a Plain Practical Account of a Twenty Year Project in a Self-subsistent Homestead in Vermont, Together with

Remarks on How to Live Sanely and Simply in a Troubled World

Harborside ME: Social Science Institute, 1954. 209p. Includes bibliography. Reprinted, 1970.

NAL Call no: 281.2 N27

Other works by these authors: *The Maple Sugar Book, Being a Plain, Practical Account of the Art of Sugaring Designed to Promote an Acquaintance with the Ancient as Well as the Modern Practice, Together with Remarks on Pioneering as a Way of Living in the Twentieth Century* (1950); *Building and Using our Sun-heated Greenhouse: Grow Vegetables All Year-round* (1977); *Continuing the Good Life* (1979).

"During the deepest part of the Great Depression, in 1932, we moved from New York City to a farm in the Green Mountains. At the outset we thought of the venture as a personal search for a simple, satisfying life on the land, to be devoted to mutual aid and harmlessness, with an ample margin of leisure in which to do personally constructive and creative work." Helen and Scott Nearing, 1954

The Nearings became mentors to a generation of back-to-the-landers and modern homesteaders during the late 1960s and 1970s. The couple's inspirational writings were based on practical experience gained from life on their organic farmsteads in Vermont and Maine.

MVG

Cited in: Rateaver (1973)

1954



Wickenden, Leonard

Gardening with Nature: How to Grow Your own Vegetables, Fruits and Flowers by Natural Methods

New York: Devin Adair, 1954. 392p. Includes index. Suggested readings.

NAL Call no: 90 W632

Other works by this author: *Make Friends with Your Land: A Chemist Looks at Organiculture* (1949); *Our Daily Poison; the Effects of DDT, Fluorides, Hormones and Other Chemicals on Modern Man* (1955).

Depicted by the author, who has a chemistry background, as largely a "how-to" book, this work integrates Wickenden's advice with the scientific basis on which the organic concept of plant growth was built. Readers can thus learn both organic gardening practices and how to defend them. In 1949 Wickenden had written the popular *Make Friends with Your Land: A Chemist Looks at Organiculture*. JPG

Cited in: Coleman (1976); Harwood (1983); Harwood (1990); Rateaver (1973)

1954



Yeomans, Percival Alfred, 1905-1984

The Keyline Plan

Sydney: P.A. Yeomans, 1954. 120p. Also entitled *The Australian Keyline Plan*.

NAL Call no: 282 1992 Y4K

Full-text: Soil and Health Library, Steve Solomon,

<http://www.soilandhealth.org/01aglibrary/01principles.html> (accessed Jan. 1, 2007)

Other works by this author: *The City Forest: The Keyline Plan for the Human Environment Revolution* (1951); *Challenge of Landscape: the Development and Practice of Keyline* (1958) (both in full-text: Soil and Health Library, Steve Solomon,

<http://www.soilandhealth.org/01aglibrary/01principles.html>) (accessed Apr. 23, 2007); *Water for Every Farm* (1965, updated and reissued by Ken Yeomans in 1993).

P.A. Yeomans pioneered "the use of on farm irrigation dams in Australia, as well as chisel plows and subsoil aerating rippers. Yeomans perfected a system of amplified contour ripping that controlled rainfall run off and enabled the fast flood irrigation of undulating land with out the need for terracing." *Keyline Designs* Web site (<http://www.keyline.com.au/>) (accessed Apr. 23, 2007). MVG

1955



Easey, Ben, 1925-

Practical Organic Gardening

London: Faber and Faber, 1955. 151p. Includes index. Bibliography. Appendices. Lists of gardens, suppliers, and organizations. Other editions: Revised, 1976.

NAL Call no: 57.4 Ea7

This is a substantive work on the subject, with a thorough and well-documented framework. JPG

Cited in: Coleman (1976); Conford (2001)

1955



Stout, Ruth, 1891-1980

How to Have a Green Thumb without an Aching Back: A New Method of Mulch Gardening

New York: Exposition Press, 1955. 164p. Reissued in 1987.

NAL Call no: SB453.S76 1955 DNAr

Other works by this author: *Gardening without Work; for the Aging, the Busy, and the Indolent* (1961, republished 1998); *The Ruth Stout No-work Garden Book* (1971).

Although mulch gardening was not really “new” in the 1950s, this popular work defined and encouraged no-till techniques for small-scale growers. It renewed interest in soil biological processes and organic gardening for a new generation. MVG
Cited in: Rateaver (1973)

1955



Turner, Newman, 1913-

Fertility Pastures: Herbal Leys as the Basis of Soil Fertility and Animal Husbandry

London: Faber and Faber, 1955. 204p. Includes index.

NAL Call no: 60.1 T85

Full-text: Journey to Forever Online Library,

http://journeytoforever.org/farm_library/turner/turnerToC.html (accessed Jan. 1, 2007)

Other works by this author: *Fertility Farming* (1951); *Herdsmanship* (1952) (both in full-text: Soil and Health Library, Steve Solomon,

<http://www.soilandhealth.org/01aglibrary/01principles.html>) (accessed Apr. 23, 2007).

Also spelled “lea”; the dictionary defines ley as “arable land sown to grasses or clover for hay or grazing and usually plowed and planted with

other crops after two or three years.” Turner boasts that the “herbal ley is my manure merchant, my food manufacturer and my vet, all in one.” JPG

Cited in: Blum (1993); Coleman (1976); Conford (2001); Harwood (1983); Merrill (1983)

“This kind of farming restored life to a dying farm. Everything on the farm, from the soil teeming with life and fertility, to the cows all pregnant or in full milk, and to the farmer and his family full of energy and good health, acclaim the rightness of this policy.” Newman Turner, 1955

1957



Gilbert, Frank Albert, 1900-

Mineral Nutrition and the Balance of Life

Norman OK: University of Oklahoma Press, 1957. xv, 350p. Bibliography, p. 264-336.

NAL Call no: 386.3 G37

Other works by this author: *Mineral Nutrition of Plants and Animals* (1948) (full-text: Core Historical Literature of Agriculture, <http://chla.library.cornell.edu/cgi/t/text/text-idx?c=chla;idno=2837840>) (accessed Feb. 1, 2007); *Metal Trace Elements in Agriculture* (1949).

This encyclopedic review of research and literature concerning mineral nutrition was the first compilation of its kind. Its breadth, extensive bibliography and illustrative photographs continue to make it a valuable tool in understanding soil-plant, animal and human nutrition relationships. MVG

Cited in: Blum (1993); Merrill (1983)

1957



Rowe-Dutton, Patricia

The Mulching of Vegetables

Farnham Royal, England: C.A.B. International Bureau of Horticulture and Plantation Crops, 1957. 169p. (Technical Communication, 24)
NAL Call no: 84 IM72

This is a comprehensive review of research about mulching including mulching's relationship to plant diseases and erosion in vegetable production. MVG
Cited in: Coleman (1976)

1957



Voisin, André, 1903-1964

Grass Productivity

New York: Philosophical Library, 1959. 353p.
Translated from the French, *Productivité de l'Herbe*, by Catherine T. M. Herriot. Includes bibliography. Reprinted, 1988.
NAL Call no: 60.1 V87Ge

Other works by this author: *Soil, Grass, and Cancer: Health of Animals and Men is Linked to the Mineral Balance of the Soil* (1959, republished by Acres U.S.A., 1999); *Better Grassland Sward; Ecology, Botany, Management* (1960); *Rational Grazing: The Meeting of Cow and Grass; a Manual of Grass Productivity*, with Antoine Lecomte (1962); *Grass Tetany* (1963?) (full-text: Soil and Health Library, Steve Solomon, <http://www.soilandhealth.org/01aglibrary/01principles.html>) (accessed Apr. 23, 2007); *Fertilizer Application: Soil, Plant, Animal* (Three of 25 lectures, entitled *Soil, Plant, and Animal*, delivered at Laval University, 1965).

This is the classic work stating the principles and practice of what Voisin called "rational grazing," a grazing system based on plant-growth cycles and animal health and habits. Moving animals from pasture to pasture was not a new idea in the late 1950s; however, this work, focused on the science of the "meeting of cow and grass." His "laws of rational grazing" laid the foundation for "rotational grazing," "intensive grazing," "management intensive grazing," "pasture-based production" and related systems. MVG
Cited in: Coleman (1976); Merrill (1983)

"Since this book is almost exclusively concerned with grazing by cattle, I propose the following definition to the reader, requesting him to allow it to become well impressed upon his mind: *Grazing is the meeting of cow and grass.*"
André Voisin, 1957

1958



Krasil'nikov, Nikolai Aleksandrovich, 1896-

Soil Microorganisms and Higher Plants

Moscow: Academy of Sciences of the USSR, 1961 (English edition). 474p. Translated by Y. Halperin. Jerusalem, Israel Program for Scientific Translations, 1961. Bibliography, p. 413-474.
NAL Call no: QR111 K723 DNAr
Full-text: Soil and Health Library, Steve Solomon, <http://www.soilandhealth.org/01aglibrary/01principles.html> (accessed Jan. 1, 2007)

Originally published in Russian in 1958, this text and the lengthy bibliographies provide references to little known Soviet soil scientists and their work. The author presents "basic information on the structure, development, variability and classification of bacteria, actinomycetes and fungi in the light of recent scientific achievements, as well as information on the importance of microorganisms in plant nutrition, the role of micro-activities in the complementary nutrition of plants, the effect of microbes on the vitamin content of plants, their importance in plant development and their influence on soil fertility." Table of Contents. MVG

1960



Hills, Lawrence Donegan, 1911- 1991

Down to Earth: Fruit and Vegetable Growing

London: Faber and Faber, 1960. 192p. Includes index.

NAL Call no: 93.5 H55

Other works by this author: *Russian Comfrey: A Hundred Tons an Acre of Stock Feed or Compost for Farm, Garden or Smallholding* (1953) (full-text: Soil and Health Library, Steve Solomon, <http://www.soilandhealth.org/01aglibrary/01principles.html>) (accessed Apr. 23, 2007); *Composting for the Tropics; Written from the Experience of our Overseas Members for the Gardeners and Farmers of all Hot Countries* (1963); *Fertility without Fertilizers: A Basic Approach to Organic Gardening* (1977); *Fertility Gardening* (1980); *Fighting Like the Flowers: An Autobiography* (1989).

Journalist and founder of the Henry Doubleday Research Association in Britain (in 1954), Hills was also a horticulturist and very knowledgeable about organic production. MVG
Cited in: Coleman (1976)

1962



Carson, Rachel, 1907-1964

Silent Spring

Boston: Houghton Mifflin, 1962.

368p. Drawings by Lois and Louis

Darling. Other editions: 25th anniversary edition, 1987.

NAL Call no: 423 C23

Other works by this author: *The Sea Around Us* (1951).

“Future historians may well be amazed by our distorted sense of proportion. How could intelligent beings seek to control a few unwanted species by a method that contaminated the entire environment and brought the treat of disease and death even to their own kind?” Rachel Carson, 1962

Ahead of her time in many respects, Carson’s revelations about the ecological impacts of pesticide use emphasized the interconnectedness of all life. The impact her work helped launch a widely supported environmental movement that continues to influence scientific research and policy. Carson’s work also proved to be a turning point for interest in modern organic farming. MVG

Cited in: Conford (2001); Esbjornson (1992); Heckman (2006); Kirschenmann (2004); Kuepper, Gegner (2004); Madden (1998); Merrill (1983)

1964



DeBach, Paul, editor

Biological Control of Insect Pests and Weeds

New York: Reinhold, 1964. xxiv, 844p. Assistant editor, Evert I. Schlinger. Bibliography, p. 715-815. Other editions: 2nd edition, 1991.

NAL Call no: 423 D354

Other works by DeBach: *Biological Control by Natural Enemies* (1974).

Classical biological control based on identifying and importing exotic natural enemies (parasites, predators, or pathogens) and utilizing them for long-term control of target exotic pests, insect or weed has been actively practiced in the U.S. since the late 1900s. DeBach’s definition broadened the scope of the term to include more than just the use of natural enemies to “actions of parasites, predators and pathogens in maintaining another organism’s density at a longer average than would occur in their absence.” MVG

Cited in: Merrill (1983)

1964



Hunter, Beatrice Trum, 1918-

Gardening without Poisons

Boston: Houghton-Mifflin, 1964. 318p. Includes index. List of sources; List of suppliers of materials. Appendices. List of Organizations interested in gardening without poisons. Other editions: 2nd edition, 1971.

NAL Call no: SB975 H91

Other works by this author: *The Natural Foods Primer: Help for the Bewildered Beginner* (1972); *The Mirage of Safety: Food Additives and Federal Policy* (1982).

One of the early works on biological control of insect pests, a 1971 postscript by the author cites research being done by the USDA. JPG

Cited in: Coleman (1976); Rateaver (1973)

1964



Poirot, Eugene M., 1899-1988

Our Margin of Life

New York: Vantage Press, 1964. 159p. Introduction by William A. Albrecht. Reprinted by Acres U.S.A., 1978.

NAL Call no: S624 AIP6

A Missouri farmer/author writes seriously about agriculture, the importance of the soil and a philosophy based on his observations and beliefs. JPG

Cited in: Harwood (1983); Merrill (1983)

1968



Boucher, Jean

Precis Scientifique et Pratique de Culture Biologique: Methode Lemaire-Boucher

Angers: Agriculture et Vie, 1968. 281p. In French. Translated title: *Scientific and Practical Precise of Biological Culture; Lemaire-Boucher Method*. Bibliography, p. 281.

NAL Call no: S517.F8B6 1968

Other works by this author: *Une Veritable Agriculture Biologique* (1992)

The system espoused by Dr. Raoul Lemaire (1884-1972), natural grain merchant and researcher, and Dr. Boucher, soil scientist, incorporates organic and agroecological concepts, with a focus on magnesium (per the human nutrition research of Dr. Pierre Delbet) and the use of calcified seaweed as soil amendment. MVG. See also: Delbet, 1945.

Cited in: Harwood (1983)

1968



Rusch, Hans Peter, 1906-1977

Bodenfruchtbarkeit; eine Studie Biologischen Denkens

Heidelberg: K. F. Haug, 1968. 243p. In German. Translated title: *Soil Fertility*. Bibliography, p. 241-243.

NAL Call no: S598.R8

Rusch, a German soil microbiologist, teamed with Swiss organic-biological farmers Hans Müller (1891-1988) and his wife, Maria Müller (1894-1969) in the early 1950s, to lay the foundation for organic agriculture in German-speaking countries. Müller coined the German term, “organisch-biologischer landbau” (organic-biological farming) in 1949. MVG

1971



Borlaug, Norman Ernest, 1914-

Mankind and Civilization at Another Crossroad

Rome: Food and Agriculture Organization of the United Nations, 1971. 73p. "1971 McDougall Memorial Lecture."

NAL Call no: HD1417.B67 1971

Other works by this author: *Exploratory Genetic Research Undertaken by CIMMYT in Maize, Wheat, Barley and Triticale*, with E.W. Sprague (1979); *Wheat in the Third World*, with Haldore Hanson and R. Glenn Anderson (1982); *Land Use, Food, Energy and Recreation* (1983); *Vetiver Grass: A Thin Green Line Against Erosion*, with Rattan Lal, David Pimentel, Hugh Popenoe, Noel Vietmeyer (1994); *The Green Revolution: An Unfinished Agenda* (2004) (full-text: of lecture online at <http://www.fao.org/docrep/meeting/008/J3205e/j3205e00.htm>) (accessed Apr. 23, 2007).

The author was a central figure in the "Green Revolution" of the 1950s and 1960s and was the winner of the 1970 Nobel Prize for Peace. He helped develop high-yielding varieties of wheat, rice and corn for use in developing countries. These crops increased food production tremendously in some places, especially in Asia, while requiring extensive fertilizer and pesticide use. This lecture confronts the environmental critics of the Green Revolution. Borlaug's views are emblematic of the divide between technologically- and environmentally-driven concepts of sustainable agricultural systems. MVG

Cited in: Kirschenmann (2004)

"This book is about PROTEIN – how we as a nation are caught in a pattern that squanders it; and how you can choose the opposite – a way of eating that makes the most of the earth's capacity to supply this vital nutrient. In the pages that follow I propose that our heavily meat-centered culture is at the very heart of our waste of the earth's productivity; and I invite you to explore the varied possibilities of nonmeat sources of protein." Frances Moore Lappé, 1971

1971



Lappé, Frances Moore

Diet for a Small Planet

New York: A Friends of the Earth/Ballantine Book, 1971.

xiv, 301p. Illustrated by Kathleen Zimmerman and Ralph Iwamoto.

Other editions: Revised and updated edition, 1982.

NAL Call no: TX838.L3

Other works by this author: *Food First: Beyond the Myth of Scarcity*, with Joseph Collins (1977, revised, 1979); *What Can We Do, a Food, Land, Hunger Action Guide*, with William Valentine (1980); *Hope's Edge: The Next Diet for a Small Planet*, with Anna Lappé (2002).

Lappé's groundbreaking book alerted people to the health and environmental impacts of a meat- and processed food-oriented diet. Her dietary recommendations and their rationale, and accompanying recipes, are timeless. MVG

1971



Logsdon, Gene

Two Acre Eden

Garden City NY: Doubleday, 1971. 216p. Bibliography, p. 212-216. Other editions: Revised edition, 1980.

NAL Call no: SB455.L58

Other works by this author: *Homesteading: How to Find New Independence on the Land* (1973); *Small-scale Grain Raising* (1977); *Getting Food from Water: A Guide to Background Aquaculture* (1978); *The Contrary Farmer* (1993); *All Flesh is Grass: The Pleasures and Promises of Pasture Farming* (2004).

Focused on rural living and growing food in sustainable ways, this prolific author has provided practical information, stories and humorous commentary to countless back-to-the-landers, gardeners and farmers over the years. MVG

1971



Rodale, Robert and Glenn F. Johns, 1930-1990

The Basic Book of Organic Gardening

New York: Ballantine, 1971. 377p. Based on material which has appeared in *Organic Gardening Magazine*.

NAL Call no: S605.5.R6

Other works by Robert Rodale: *The Challenge of Earthworm Research*, editor (1961); *The Organic Way to Mulching* (1972); *The Prevention System for Better Health*, with J.I. Rodale (1974); *The Cornucopia Papers* (1982); *Save Three Lives: A Plan for Famine Prevention* (1991). See also: *Oral History Interview with Mr. Robert Rodale*, AFSIC (1989) (NAL Call #: Videocassette no.670).

Robert Rodale, journalist, publisher and life-long proponent of regenerative agriculture, expanded on the work his father J.I. Rodale started in the 1930s. In addition to leading the influential Rodale Publishing organization (including *Organic Gardening Magazine* and *Prevention Magazine*), he expanded The Rodale Institute's education, training and research programs. A third generation of Rodales currently carries on this work. MVG
Cited in: Kirschenmann (2004)

1972



Meadows, Donella, 1941-2001

Limits to Growth: A Report for the Club of Rome's Project on the Predicament of Mankind

New York: Universe Books, 1972. 205p. Bibliography, p. 198-205.

NAL Call no: HB871.L5

Other works by this author: *The Electric Oracle: Computer Models and Social Decisions*, with J.M. Robinson (1985); *Global Citizen* (1991); *Beyond the Limits: Confronting Global Collapse, Envisioning a Sustainable Future*, with Dennis Meadows and Jorgen Randers (1993); *Limits to Growth - The 30 Year Update*, with Jorgen Randers and Dennis Meadows (2004).

This study, utilizing computer modeling, examined global economic, population and environmental trends. It was an influential work in the then new debate on earth's "carrying capacity." Meadows paid special attention to sustainable food production systems, developing an ecovillage and an organic farm of her own. She also created innovative information sharing initiatives and a widely-read weekly news column, *Global Citizen*. MVG

1973



Hightower, Jim and Agribusiness Accountability Project Task Force on the Land Grant College Complex

Hard Tomatoes, Hard Times: A Report of the Agribusiness Accountability Project on the Failure of America's Land Grant College Complex

Cambridge MA: Schenkman, 1973. 268p. Includes bibliographical references. Reissued with "selected additional views of the problems and prospects of American agriculture in the late seventies," 1978.

NAL Call no: S533.H523 1973

Other works by this author: *Eat your Heart Out: Food Profiteering in America* (1975).

This is a biting criticism of Land Grant institution research policy and extension activities. Hightower cites their lack of attention to the interests of small farms and farmers, rural communities and farm workers in favor of agribusiness, large-scale farms and mechanized, production-oriented technology. MVG

1973



Schumacher, Ernst Friedrich, 1911-1977

Small is Beautiful; Economics as if People Mattered

New York: Harper and Row, 1973. 290p. Includes bibliographical references.

NAL Call no: HB171.S384

Other works by this author: *Think about Land* (1974).

E.F. Schumacher was very concerned with “The Proper Use of Land” (Part 2 of this book) and the scale of agricultural production. He became involved in organic farming, serving as president of the UK’s Soil Association. He espoused conservation in all things including food production and energy use, and advocated the use of “appropriate technology” whenever possible. MVG

Cited in: Scofield (1986)

1974



Jeavons, John

How to Grow More Vegetables Than You Ever Thought Possible on Less Land Than You Can Imagine

Palo Alto CA: Ten Speed Press, 1979. 116p. Bibliography. Other editions: First edition of this book was published in 1974; most recent edition: 7th edition, Ten Speed Press, 2006.

NAL Call no: SB320.6.J43

Other works by this author: *Lazy-bed Gardening: The Quick and Dirty Guide*, with Carol Cox (1993); *The Sustainable Vegetable Garden: A Backyard Guide to Healthy Soil and Higher Yields*, with Carol Cox (1999).

Jeavons, a former systems analyst, writes a “primer on the lifegiving biodynamic/French intensive method of organic agriculture.” He is involved with “Ecology Action” in Palo Alto, California. JPG. [Ecology Action is now based in Willets CA. MVG]

Cited in: Harwood (1983); Harwood (1990); Kuepper, Gegner (2002)

“With the ‘method’ we help provide for the needs of the plants instead of trying to dominate them. When we provide for these real needs, the plants bounteously provide more food.” John Jeavons, 1979

1975



Lockeretz, William, Robert Klepper, Barry Commoner, Michael Gertler, Sarah Fast, Daniel O’Leary and Roger Blobaum

A Comparison of the Production, Economic Returns, and Energy-intensiveness of Corn Belt Farms that Do and Do Not Use Inorganic Fertilizers and Pesticides

St. Louis MO: Washington University, Center for the Biology of Natural Systems, 1975. 62p.

Includes bibliographical references. (CBNS Report AE 4)

NAL Call no: S605.5.C59 1975

Other works by Lockeretz: *Agricultural Resources Consumed in Beef Production* (1975); *Linkages Between Farming and Other Economic Activities in Agriculturally-dependent Areas* (1988); *Agricultural Research Alternatives*, with Molly D. Anderson. (1993); *Visions of American Agriculture*, editor (2000); *Ecolabels and the Greening of the Food Market*, editor (2003). See also: *Oral History Interview with William Lockeretz*, AFSIC (1991) (NAL Call #: Videocassette no.1217).

This report was one of the first U.S. studies analyzing the economics of organic farming systems. Lockeretz and other agricultural economists of the 1970s led the way to new research on sustainable systems’ economic performance, crop yield, energy inputs, cost analysis, conventional vs. organic comparisons and more. MVG

Cited in: Kuepper, Gegner (2004); Harwood (1983)

1976



Boeringa, Rob, editor

Alternative Methods of Agriculture

Amsterdam: Elsevier, 1980. 199p. Translation of parts of the original Dutch report, *Alternatieve Landbouwmethoden*, prepared in 1976 by the Committee for Research into Biological Methods of Agriculture. References.

NAL Call no: S60L.D4 Vol.10

A translation of selections of the famous Dutch report of 1976, this work includes descriptions of each school of ecological agriculture and a literature review on techniques, yields, food quality, impact on the environment and research recommendations. JPG

Cited in: Harwood (1983); Merrill (1983)

1976



Koepf, Herbert H., Bo D. Pettersson and Wolfgang Schaumann

Biodynamic Agriculture: An Introduction

Spring Valley NY: Anthroposophic Press, 1976. x, 429p. Translated from the German, *Biologische Landwirtschaft* (1974). Index. Bibliography, p. 404-416.

NAL Call no: S605.5.K59

Full-text: Soil and Health Library, Steve Solomon,

<http://www.soilandhealth.org/01aglibrary/01principles.html> (accessed Jan. 1, 2007)

Other works by Koepf: *What is Bio-dynamic Agriculture?* (translated by W. Brinton and M. Spock, 1979); *Bio-dynamic Sprays* (1988); *The Biodynamic Farm: Agriculture in the Service of the Earth and Humanity*, with R. Shouldice and W. Goldstein (1989); *Soil Fertility in Sustainable Low Input Farming*, edited by J. L. Ruhnau (1992).

This work was originally published in German so the bibliography is of unusual interest. JPG

Cited in: Blum (1993); Harwood (1983); Harwood (1990); Merrill (1983)

1976



Merrill, Richard, editor, 1941-

Radical Agriculture

New York: Harper and Row, 1976. xix, 459p. Includes bibliographical references and index.

NAL Call no: S441.R26

One of the earliest collections of essays focusing on alternative and sustainable agriculture, this compilation examines a variety of farm topics including rural and labor issues, aquaculture, renewable energy, cities and farms, land reform and more. Essays come from highly regarded agricultural thinkers including Michael Perelman, Wendell Berry, Jim Hightower, Jerome Goldstein and Helga and William Olkowski. MVG

Cited in: Harwood (1983)

1976



United States Congress

The Farmer-to-Consumer Direct Marketing Act of 1976

Washington DC: United States Congress, 1976.

NAL Call no: aHD9003.N37

Full-text: United States Code, Office of the Law Revision Counsel,

<http://uscode.house.gov/download/pls/07C63.txt> (accessed Jan. 1, 2007)

See also: *National Farmers' Market Directory*, 2006 (full-text: USDA, Agricultural Marketing Service, <http://www.ams.usda.gov/farmersmarkets/map.htm>) (accessed May 7, 2007).

Public Law 94-463, October 8, 1976, "An act to encourage the direct marketing of agricultural commodities from farmers to consumers," heralded a rapid increase in the number

of U.S. farmers' markets. Provisions of this act, along with strong consumer demand, continue to support growth of local and regional markets and other direct marketing activities. The U.S. Department of Agriculture's *National Farmers' Market Directory*, first compiled in 1994, listed 4,385 U.S. farmers markets in 2006 (up from 1,755 markets in 1994). *USDA Releases New Farmers Market Statistics*, AMS Program Announcement, Dec. 5, 2006 (<http://www.ams.usda.gov/tmd/MSB/PRFarmersMarketStatistics.pdf>) (accessed May 7, 2007). MVG

1977



Berry, Wendell, 1934-

The Unsettling of America: Culture and Agriculture

San Francisco: Sierra Club Books, 1977. 228p. Chapter notes. Other editions: 2nd edition, Sierra Club Books, 1986. 3rd edition, Sierra Club Books, 1996.

NAL Call no: HD1761.B47

Other works by this author: *The Gift of Good Land: Further Essays, Cultural and Agricultural* (1981); *What are People For? Essays* (1990); *Citizenship Papers* (2003).

A review/criticism on agricultural policy today, this work presents the author's position: "the care of the earth is our most ancient and most worthy and, after all, our most pleasing responsibility." JPG

Cited in: Esbjornson (1992); Harwood (1983); Harwood (1990); Kirschenmann (2004)

"We are eating – drawing our lives out of our land – thoughtlessly. If we study carefully the implications of that, we will see that the agricultural crisis is not merely a matter of supply and demand to be remedied by some change of government policy or some technological 'breakthrough.' It is a crisis of culture." Wendell Berry, 1977

1977



Dideriksen, Raymond Ivan, Allen Ray Hidlebaugh and Keith O. Schmude

Potential Cropland Study

Washington DC: Soil Conservation Service, U.S. Dept. of Agriculture, 1977. 104p. Chiefly tables. (Statistical Bulletin, 578)

NAL Call no: 1 Ag84St no.578

The 1970s saw a growing concern with land-use issues and with loss of farmland in particular. This study, done at the request of Earl Butz, U.S. Secretary of Agriculture, was one of the first to document losses of farmland to urban development. During 1967-1975, "nearly 2.1 million acres each year were converted to urban and built-up areas. About 30 percent of the land converted to urban and built-up areas each year comes from cropland." This publication helped solidify government and conservation group support to preserve agricultural lands. MVG

Cited in: Lehman (1993)

1977



Lovins, Amory B. and Friends of the Earth International

Soft Energy Paths: Toward a Durable Peace

San Francisco: Friends of the Earth International, 1977. xx, 231p. Includes bibliographical references and index.

NAL Call no: TJ163.2.L678

Other works by this author: *Energy Unbound: A Fable for America's Future*, with L Hunter Lovins and Seth Zuckerman (1986); *Natural Capitalism: Creating the Next Industrial Revolution*, with Paul Hawken and L. Hunter Lovins (1999); *Small Is Profitable: The Hidden Economic Benefits of Making Electrical Resources the Right Size* (2003); *Winning the Oil Endgame: Innovation for Profit, Jobs*

and Security, with E. Kyle Datta, Odd-Even Bustnes, Jonathan G. Koomey and Nathan J. Glasgow (2005) (see Online books by Lovins at <http://onlinebooks.library.upenn.edu/webbin/book/lookupname?key=Lovins%2C%20Amory%20B.%2C%201947->) (accessed Apr. 23, 2007).

Amory Lovins and the work of the Rocky Mountain Institute where he is CEO, have influenced ideas about energy production and use in agriculture. His “soft energy path” advocates an approach that combines energy conservation and efficiency; use of renewable sources of energy; and local, small-scale generation and use of energy. MVG

1978



Besson, J. M. and H. Vogtmann, editors

Towards a Sustainable Agriculture

Aarau, Switzerland: Wirz; International Federation of Organic Agriculture Movements, 1978. 243p. Papers given at an international conference held in Sissach, Switzerland, 1977. References at ends of articles.

NAL Call no: S605.5.T68

These are proceedings of the 1st conference of the IFOAM, in French, German and English. All IFOAM proceedings are recommended. JPG [A

catalog of available IFOAM published proceedings may be found at <http://shop.ifoam.org/bookstore/> (accessed May 21, 2007)]

Cited in: Harwood (1983); Merrill (1983)

“Let us hope that our deliberations in IFOAM about a ‘sustainable agriculture’ will provide further impetus for both the research into, and practice of, methods of husbandry which are based on the ethic of satisfying need and the obligation to do so by technologies that our planet can sustain.” C. Fisher, IFOAM conference, 1978

1978



Brown, Lester Russell, 1934-

The Twenty-ninth Day: Accommodating Human Needs and Numbers to the Earth’s Resources

New York: Norton, 1978. xiii, 363p.

NAL Call no: GF41.B76

Other works by this author: *American Agriculture in a Hungry World* (1967); *The Social Impact of the Green Revolution* (1971); *Who will Feed China? Wake-up Call for a Small Planet* (1995); *The Agricultural Link: How Environmental Deterioration Could Disrupt Economic Progress* (1997); *Outgrowing the Earth: The Food Security Challenge in the Age of Falling Water Tables and Rising Temperatures* (2004).

Mr. Brown, an agricultural economist and a pioneer in the environmental movement, founded the Worldwatch Institute in 1974. In this work, unsustainable uses of water, soil and energy resources are discussed in the context of projected population growth, inappropriate political decision-making and inadequacy of technical remedies. MVG

1978



Dahlberg, Kenneth A.

Beyond the Green Revolution: The Ecology and Politics of Global Agricultural Development

New York: Plenum Press, 1978. xiii, 256p. Includes bibliographical references and index.

NAL Call no: HD1415.D273

Other works by this author: *New Directions for Agriculture and Agricultural Research: Neglected Dimensions and Emerging Alternatives*, editor (1986).

The “Green Revolution” of the 1960s and 1960s was characterized by innovative, high-yielding varieties of cereal crops developed for use in developing countries. These crops boosted food security while requiring extensive technology for planting, irrigation, fertilizing, pest control and harvesting. Dahlberg outlines the social and ecological costs of this approach and makes the case for more sustainable agricultural alternatives in both industrialized and developing countries. MVG. See also: Borlaug, 1971.
Cited in: Harwood (1990)

1978



Gussow, Joan Dye

The Feeding Web: Issues in Nutritional Ecology

Palo Alto CA; New York: Bull Publishing; trade distribution in U.S. by Hawthorn Books, 1978. xvi, 457p.

NAL Call no: HD9000.5 .F36

Other works by this author: *The Nutrition Debate: Sorting Out Some Answers*, with Paul Thomas (1986); *Chicken Little, Tomato Sauce and Agriculture: Who Will Produce Tomorrow's Food?* (1991); *This Organic Life: Confessions of a Suburban Homesteader* (2001).

Dr. Gussow, a nutrition professor at Teachers College, Columbia University, was the first to use the term “nutritional ecology,” and to focus on the entire food chain in terms of environmental, nutritional and economic sustainability. The food system includes not only production and harvesting, but storing; transporting; processing and packaging; distribution and trade; food composition; food preparation and consumption; and waste disposal. She argues that consumers need to make food choices in terms of not only health issues, but in terms of environmental and social values as well. MVG

1978



Mollison, Bill C. and David Holmgren

Permaculture 1: A Perennial Agricultural System for Human Settlements

Hobart, Australia: Environmental Psychology, University of Tasmania, 1978. vii, 128p.

Bibliography, p. 126-127.

NAL Call no: S589.7.M6

Other works by Mollison: *Permaculture Two: Practical Design for Town and Country in Permanent Agriculture* (1979; updated 1999); *Permaculture: A Designers' Manual* (1988); *Introduction to Permaculture*, with Reny Mia Slay (1991).

Australians Mollison and Holmgren co-developed the permaculture system of landscape design, a holistic system now taught and implemented throughout the world. MVG

1978



Oelhaf, Robert C., 1938-

Organic Agriculture: Economic and Ecological Comparisons with Conventional Methods

Montclair NJ: Allanheld, Osmun, and Company, 1978. 271p. Includes index. References.

NAL Call no: S605.5.066

Other works by this author: *The Economics of Organic Farming* (Ph.D. dissertation, University of MD, 1976).

The author, trained in theology, science and engineering, looks at more than just comparative economic issues and presents a detailed study of internal and external costs and benefits of ecological and conventional agriculture. JPG

Cited in: Harwood (1983); Heckman (2006); Merrill (1983)

1978



Schwartz, James W.

A Bibliography for Small and Organic Farmers: 1920-1978

Beltsville MD: Agricultural Research, United States Department of Agriculture, 1978. Same title published in 1981 as number 11 in the series, Bibliographies and Literature of Agriculture.
NAL Call no: aZ5074 O7S3

This bibliography cites documents that relate to organic and small-scale farming published from 1920 through 1978. USDA National Agricultural Library staff continues to compile bibliographies on topics related to sustainable, organic and alternative farming. See the Alternative Farming Systems Information Center (AFSIC) Web site for updated bibliographies on sustainable and organic topics (<http://afsic.nal.usda.gov>) (accessed Feb. 1, 2007). MVG

1978



United States Congress House Committee on Agriculture

Agricultural Land Retention Act: Report Together with Dissenting Views to Accompany H.R. 11122

Washington DC: Government Printing Office, 1978. (House Report - 95th Congress, 2d Session, 95-1400)
NAL Call no: KF32.A3 1978b

The Agricultural Land Retention Act, proposed in 1977, was one of the first attempts to address the loss of farmland to urban development through legislation. It ultimately failed to pass the Congress (in 1980). Many of its provisions have since been instituted in the Farmland Protection Policy Act, the 1981 Agriculture and Food Act and in the form of new agencies and state and local legislation. Non-governmental programs and advocacy continue to keep farmland protection near the top of the sustainable agriculture agenda. MVG
Cited in: Lehman (1993)

1978



Whealy, Kent, editor

The Third Annual True Seed Exchange

Princeton MO: Kent Whealy, 1978.

NAL Call no: SB115.T5

Whealy and his wife, Diane Ott Whealy, founded the Seed

Savers Exchange in 1975. It was one of the first organizations to alert gardeners and farmers to the importance of saving "heirloom" seeds. "The genetic diversity of the world's food crops is eroding at an unprecedented and accelerating rate. The vegetables and fruits currently being lost are the result of thousands of years of adaptation and selection in diverse ecological niches around the world..." *Seed Savers* Web site (<http://www.seedsavers.org/>) (accessed Feb. 1, 2007). MVG

"It is ironic that we presently have access to such a vast array of the best garden varieties ever developed, and yet so much of this invaluable and irreplaceable resource is in immediate danger of being lost forever. We are truly at a crossroads. It is still not too late to rescue from extinction what remains of our vanishing vegetable heritage." Kent Whealy, Garden Seed Inventory, 1985

1979



Cox, George W. and Michael D. Atkins

Agricultural Ecology: An Analysis of World Food Production Systems

San Francisco: W. H. Freeman, 1979. 721p. Includes bibliographies and index.
NAL Call no: S589.7.C69

Agroecology, a multi-disciplinary field established in the 1980s, owes much to this pioneering work. Studies and programs on the topic continue to point the way to sustainable agricultural systems and practices. MVG. See also: Altieri, 1983 and Gliessman, 1990.

1979



Minnich, Jerry and Marjorie Hunt, editors

Rodale Guide to Composting

Emmaus PA: Rodale Press, 1979. 405p. Includes index. Bibliography, p. 385-389.

NAL Call no: S661.M56

The most complete book on composting at the time, this volume offered credible science and practical methodology for farmers and gardeners. MVG

Cited in: Harwood (1983); Harwood (1990)

1979



Pimentel, David and Marcia Pimentel

Food, Energy, and Society

New York: Wiley, 1979. viii, 165p. Includes index. Bibliography, p. 151-162. Most recent edition: University Press of Colorado, 1996. (Resource and Environmental Sciences Series)

NAL Call no: HD9000.6.P55 1979a

Other works by David Pimentel: *Ecological Effects of Pesticides on Nontarget Species* (1971); *World Food, Pest Losses, and the Environment*, editor (1978); *Handbook of Energy Utilization in Agriculture*, editor (1980); *CRC Handbook of Pest Management in Agriculture*, editor (1981); *Water Resources, Agriculture and the Environment* (2004) (full-text: Cornell University, http://dspace.library.cornell.edu/bitstream/1813/352/1/pimentel_report_04-1.pdf) (accessed Apr. 23, 2007).

The Pimentels' groundbreaking work details energy use in the production of livestock, grains, fruits, vegetables, forage crops and fish; food processing and transport; and the impact of energy use on the environment. Dozens of charts and tables, as well as a lengthy reference list, are included. "Thus, the aim of this book is to explore the interdependencies of food, energy and their impacts on society. These analyses we hope will be a basis for planning and implementing policies of individuals and nations as they face the inevitable dilemma - how can everyone be fed, given the limited resources of the earth." Preface. MVG

1979



Walters, Charles, Jr. and C. J. Fenzau

An ACRES U.S.A. Primer

Raytown MO: Acres U.S.A., 1979. 465p. Glossary. Index. Field notes. Lists of Eco-suppliers. Most recent edition: *Ecofarm: An Acres U.S.A. Primer*, 3rd edition, 2003.

NAL Call no: S605.5.W34

Other works by Charles Walters, Jr.: *The Carbon Connection*, with Leonard Ridzon (1990); *Weeds: Control without Poisons* (1991, revised 1999); *A Farmer's Guide to the Bottom Line* (2002); *Reproduction and Animal Health*, with Gearld Fry (2003).

A "first reader" in eco-agriculture, this book is written from an organic perspective on the basis of plant and soil science, agronomy and pest control. JPG

Cited in: Harwood (1983); Kuepper, Gegner (2004); Merrill (1983)

1980-2007

The sustainable agriculture and modern organic farming movements take root

The late 20th century saw great progress in sustainable agriculture practice, policy and research activity. The term “sustainable agriculture” was adopted during this period. The works below speak to the great variety of farming topics that have come to fall under the sustainability umbrella.

Important essay collections and conference proceedings, 1980s

A wide range of ideas and knowledge was presented in collections of research reports, conference papers and philosophical essays written by farmers, researchers and policy makers. Some of the most significant compilations are listed in this section.

1980



Jackson, Wes, 1936-

New Roots for Agriculture

Lincoln NE: University of Nebraska Press, 1980. 151p. References and notes at ends of chapters. Other editions: Revised edition 1985.

NAL Call no: S441.J25

Other works by this author: *Altars of Unhewn Stone: Science and the Earth* (1987); *Becoming Native to this Place* (1994). See also: *Oral History Interview with Wes Jackson*, AFSIC (1990) (NAL Call #: Videocassette no.731).

“In popular literature, sustainable agriculture generally is presented as a new phenomenon. Wes Jackson is credited with the first publication of the expression in his *New Roots for Agriculture* (1980) and the term didn’t emerge in popular usage until the late 1980s.” “A Brief History of Sustainable Agriculture,” by Fred Kirschenmann, in *The Networker*, vol. 9, no. 2 (Science and Environmental Health Network), March 2004. The new edition (University of Nebraska Press, 1985) has a foreword by Wendell Berry and an “afterward” to its conclusion, p. 133-148. JPG

Cited in: Beeman (1993); Esbjornson (1992); Harwood (1983); Harwood (1990); Kirschenmann (2004)

1980



U.S. Department of Agriculture Study Team on Organic Farming

Report and Recommendations on Organic Farming

Washington DC: United States Department of Agriculture, 1980. 94p. References at ends of chapters. Study team members: Dr. Robert I. Papendick (Coordinator and Chairman); Dr. Larry L. Boersma; Daniel Calacicco; Joanne M. Kla; Dr. Charles A. Kraenzle; Dr. Paul B. Marsh; Dr. Arthur S. Newman; Dr. James F. Parr; Dr. James B. Swan; Dr. I Garth Youngberg.

NAL Call no: aS605.5 U52

Full-text: Alternative Farming Systems Information Center,

<http://nal.usda.gov/afsic/pubs/USDAOrgFarmRpt.pdf> (accessed Jan. 1, 2007)

See also: *Oral History Interview with I. Garth Youngberg*, AFSIC (1991) (NAL Call #: Videocassette no.1128).

Compiled with the assistance of the Rodale Press survey of *The New Farm* readers, this study was “conducted to learn more about the potential contributions of organic farming as a system for the production of food and fiber.” A first for the U.S., it is a general overview of the status of organic agriculture in the United States: methods, implications for environmental and food quality, economic assessment and research recommendations. JPG

Cited in: Harwood (1983); Heckman (2006); Kuepper, Gegner (2004); Madden (1998); Merrill (1983)

1981



Cornucopia Project

Empty Breadbasket? The Coming Challenge to America's Food Supply and What We Can Do About It: A Study of the U.S. Food System

Emmaus PA: Rodale Press, 1981. 189p. Bibliography, p. 148-175.

NAL Call no: HD9005.E56

Works done in collaboration with The Cornucopia Project: *The New Jersey Food System: A Harvest of Doubt for the Garden State: Working Draft, a Study of the Food System of New Jersey*, by Phyllis Swackhamer (1980); *The State of Your Food: A Manual for State Food Systems Analysis* (1981); *The Pennsylvania Food System: Crash or Self-reliance? A Study of the Food System of Pennsylvania* (1981); *The New York State Food System: Growing Closer to Home, a Study of the Food System of New York State*, by Patricia Messing (1981); *The Maine Food System: A Time for Change: A Study of the Food System of Maine*, by Raymond Wirth (1981); *The Indiana Food System: Sustainable or in Jeopardy? A Study of the Food System in Indiana*, by Roberta Wysong (1982); *The Cornucopia Papers*, by Robert Rodale (1982); *Regenerating the Food System: A Food and Agricultural Policy for the United States; a Framework for Discussion* (1984); *The South Carolina Food System: Does it Have a Future? A Study of the South Carolina Food System*, by John Madera (1985).

This report documents research and recommendations from the Rodale Institute's Cornucopia Project. It outlines methods to assess food self-sufficiency and vulnerabilities to the food system, especially at the state level. It suggests how consumers, farmers and the food industry could cooperate in developing a secure, affordable and ecologically sustainable food supply.
MVG

1981



Jeske, Walter E., editor

Economics, Ethics, Ecology: Roots of Productive Conservation: Based on Material Presented at the 35th Annual Meeting of the Soil Conservation Society of America, August 4-August 6, 1980, Dearborn, Michigan

Ankeny IA: Soil Conservation Society of America, 1981. xiv, 454p. Includes bibliographies.

NAL Call no: S912.E28

Papers from this early ecologically-oriented conference address land and water management, energy issues, and education and values in natural resource conservation efforts. MVG
Cited in: Harwood (1990)

1981



Stonehouse, Bernard, editor

Biological Husbandry: A Scientific Approach to Organic Farming

London; Boston: Butterworths, 1981. xiii, 352p. Includes papers presented in the *Proceedings of the 1st International Institute of Biological Husbandry Symposium* held at Wye College, Ashford, Kent, on August 26-30, 1980. Includes bibliographical references and index.

NAL Call no: S605.5.S7

This includes "most of the papers" presented at the 1st international symposium of the International Institute of Biological Husbandry, 1980. Sections include: soil structure, flora and fauna, agricultural methods, biological husbandry in the tropics, systems of agriculture and comparative studies. JPG
Cited in: Harwood (1983); Merrill (1983)

1982



Hill, Stuart B. and Pierre Ott, editors

Basic Techniques in Ecological Farming: Papers Presented at the 2nd International Conference held by the IFOAM, Montreal, October 1-5, 1978

Basel: Berkhauser Verlag, 1982. 366p.

NAL Call no: S605.5.B39

This volume and other available proceedings of IFOAM (International Federation of Organic Agriculture Movements) conferences are highly recommended. JPG. See also: Beeson, 1978. Cited in: Harwood (1983); Merrill (1983)

1983



Altieri, Miguel

Agroecology; the Scientific Basis of Alternative Agriculture

Berkeley: University of California, 1983. 173p.

NAL Call no: S589.7 A4

Other works by this author: *Experiences in Success: Case Studies in Growing Enough Food through Regenerative Agriculture*, with Kenneth Tull and Michael Sands (1987); *Biodiversity and Pest Management in Agroecosystems*, with Clara I. Nicholls (1994; revised edition, 2003); *The Potential of Agroecology to Combat Hunger in the Developing World*, with Peter Rosset, and Lori Ann Thrupp (1998); *Genetic Engineering in Agriculture: The Myths, Environmental Risks, and Alternatives* (2001, revised edition, 2004).

A review of temperate and tropical agroecology, theory and practice, this work includes chapters on the design of sustainable systems, traditional peasant agriculture, polyculture, tree cropping, live mulches, minimum tillage and pest control. JPG
Cited in: Harwood (1990); Kirschenmann (2004)

1983



Batie, Sandra S.

Soil Erosion: Crisis in America's Croplands?

Washington DC: Conservation Foundation, 1983. xv, 136p. Includes bibliographies and index.

NAL Call no: S624.A1B33

Other works by this author: *Emerging Issues in Water Management and Policy*, editor, with J. Paxton Marshall (1983);

Improving Land Use Policy

Analysis in the Southeast:

Lessons from Virginia's

Agricultural and Forestal District

Act, with E. Jane Luzar (1986);

Economic and Legal Analysis of

Strategies for Managing

Agricultural Pollution of Ground

Water, with Randall A. Kramer, William E. Cox (1989); *Green Payments as Foreshadowed by EQIP*

(1998); *The Economics of Agri-environmental Policy*, editor, with Richard D. Horan. (2004).

"The evidence is persuasive that the soil erosion problem is real, and is some areas severe. The extent of the problem warrants discussion, examination, analysis and development of a defensible and cost-effective policy for conserving the nation's soil and water resources." Sandra Batie, 1983

This effective presentation of statistics regarding soil loss reminded the agricultural community that soil loss continued to be a major problem in U.S. decades after the Dust Bowl. MVG

Cited in: Esbjornson (1992)

1983



Duke, James A., 1929-

Handbook of Energy Crops

Lafayette IN: Purdue University, Center for New Crops and Plants Products, 1983. Includes bibliographical references and index.

NAL Call no: SB288 .D85 1983

Full-text: Center for New Crops and Plants Products,

<http://newcrop.hort.purdue.edu/newcrop/duke%5Fenergy/dukeindex.html> (accessed Jan. 1, 2007)

Other works by this author: *Handbook of Medicinal Herbs* (1985, 2nd edition 2002); *CRC Handbook of Agricultural Energy Potential of Developing Countries* (1987); *A Field Guide to Medicinal Plants: Eastern and Central North America*, with Steven Foster (1990); *Handbook of Phytochemical Constituents of GRAS Herbs and Other Economic Plants* (1992); *CRC Handbook of Alternative Cash Crops*, with Judith L. du Cellier (1993); *Handbook of Legumes of World Economic Importance*, editor (2002). See also: *Oral History Interview with Dr. James A. Duke*, AFSIC (1988) (NAL Call #: Videocassette no.629).

Dr. Duke, a USDA Agricultural Research Service (ARS) botanist for many years, researched and compiled dozens of texts about unusual plants, energy crops, medicinal and culinary herbs and ethnobotany. His work has pointed the way to many viable alternative crops and enterprises for U.S. farmers, researchers and businesses. MVG

1983



Knorr, Dietrich, editor

Sustainable Food Systems

Westport CT: AVI Publishing, 1983. xiv, 416p. Includes bibliographies and index.

NAL Call no: TP370.5.S94

This compilation is one of the first that combined a range of disciplines related to sustainable agriculture - agricultural and food production practices, rural and urban food production issues, food processing and distribution topics and nutritional and food quality factors related to ecologically grown foods. MVG

1984



Institute for Alternative Agriculture

Alternative Agriculture: An Introduction and Overview: Symposium Proceedings, March 1984, Washington, D.C.

Greenbelt MD: Institute for Alternative Agriculture, 1984. ii, 49p. Includes bibliographies. An Institute publications list, including links to selected full-text reports, is maintained at Winrock International (<http://www.winrock.org/wallace/publications.asp?BU=9064>) (accessed Apr. 23, 2007).

NAL Call no: S605.5.A47

Founded in 1983, the Institute, later named the Henry A. Wallace Institute for Alternative Agriculture and the Henry A. Wallace Center for Agricultural and Environmental Policy at Winrock International, provided a forum, research program and advocacy platform for policy issues pertinent to sustainable agricultural production. These are Proceedings from the Institute's 1st annual scientific symposium held in March 1984. Researchers, including Institute founder, Garth Youngberg, presented papers on production strategies, environmental benefits, research needs and public policy. MVG

1984



Jackson, Wes, Wendell Berry and Bruce Colman, editors

Meeting the Expectations of the Land: Essays in Sustainable Agriculture and Stewardship

San Francisco: North Point Press, 1984. xvi, 250p. Bibliography, p. 231-247.

NAL Call no: S441.M4

This outstanding collection includes, in addition to works by each editor, essays by Marty Bender, Dana Jackson, Gene Logsdon, Donald Worster, Marty Strange, John Todd, Gary Paul Nabhan, Stephen Gliessman, Angus Wright, Jennie Gerard and Sharon Johnson and Gary Snyder. MVG

1984



Kral, David M., editor

Organic Farming: Current Technology and its Role in a Sustainable Agriculture

Madison WI: American Society of Agronomy (ASA), Crop Science Society of America (CSSA) and Soil Science Society of America (SSSA), 1984. vii, 192p. Proceedings of a Symposium, Sponsored by Division S3, S4, S6, S8 and A5 of the American Society of Agronomy, Crop Science Society of America and the Soil Science Society of America in Atlanta GA, Nov. 9 -Dec. 3, 1981. D.F. Bezdicek, chairman. (ASA Special Publication, 46)

NAL Call no: 64.9 Am3 no.46

This presentation made at the 1981 Symposium represents the first documented dialog about organic farming at a national "Tri-Society" meeting. MVG
Cited in: Heckman (2006); Kuepper, Gegner (2004)

1984



Lowrance, Richard, Benjamin R. Stinner and Garfield J. House, editors

Agricultural Ecosystems; Unifying Concepts

New York: John Wiley, 1984. 233p. Includes index. References at ends of chapters.

NAL Call no: S589.7 A36

Written by 21 of the foremost thinkers on the subject of agroecosystems, the majority of the chapters were presented initially at a 1982 symposium held during a meeting of the Ecological Society of America. JPG

1984



Postel, Sandra

Water: Rethinking Management in an Age of Scarcity

Washington DC: Worldwatch Institute, 1984. 65p. "This paper will appear as the chapter 'Managing Freshwater Supplies' in *State of the World 1985*," p. 5. Includes bibliographical references, p. 55-65. (Worldwatch Paper, 62)

NAL Call no: HD1691.P67

Other works by this author: *Water for Agriculture: Facing the Limits* (1989); *Last Oasis: Facing Water Scarcity* (1992, revised in 1997); *Rivers for Life: Managing Water for People and Nature*, with Brian Richter (2003).

Water availability and consumption in relation to agricultural production has often been overlooked. This data-packed volume, with extensive references, was one of the first to define the many issues related to sustainable water management. MVG

1984



Todd, John and Nancy Jack Todd

Bioshelters, Ocean Arks, City Farming: Ecology as the Basis of Design

San Francisco: Sierra Club Books, 1984. 210p. Includes index. Bibliography, p. 169-176.

NAL Call no: GF50.T6

Other works by these authors: *The Village as Solar Ecology: Proceedings of the New Alchemy/Threshold Generic Design Conference*, editors (1980); *From Eco-cities to Living Machines: Principles of Ecological Design* (1994); *A Safe and Sustainable World: The Promise of Ecological Design*, by Nancy Jack Todd (2005).

The Todds' innovative work with the New Alchemy Institute in Massachusetts suggested practical ways for looking at food production and waste recycling within a totally integrated, self-contained living system. MVG

1984



Worldwatch Institute

State of the World: A Worldwatch Institute Report on Progress Toward a Sustainable Society

New York: Norton, 1984. Published annually beginning in 1984.

NAL Call no: HC59.S73

Full-text: Worldwatch Institute Information page, <http://www.worldwatch.org/taxonomy/term/38> (accessed Jan. 1, 2007)

This volume is the first in a series of annual presentations of data, analysis and case studies related to environmental and social sustainability - population growth, energy use, soil and water conservation, forest resources, recycling materials, food security and more. The 2007 edition is entitled, *Our Urban Future* and includes a chapter on "Farming in Cities." MVG Cited in: Harwood (1990)

1985



Edens, Thomas, Cynthia Fridgen and Susan L. Battenfield, editors

Sustainable Agriculture and Integrated Farming Systems: 1984 Conference Proceedings

East Lansing MI: Michigan State University Press, 1985. iv, 344p. 29+ papers. Includes bibliographies.

NAL Call no: S441.S8

Many of sustainable agriculture's U.S. and European pioneers made presentations at this ground-breaking conference: Gordon Douglass, Engelhard Boehncke, Herbert Koepf, Herman Koenig, Eliot Coleman, Stephen Gliessman, Richard Harwood, Helene Hollander, Nicolas Lampkin, William Lockeretz, Robert H. Miller, George Bird, Pieter Vereijken, Hartmut Vogtmann, Stephen Kaffka, Miguel Altieri, Terry Cacek, Gunter Kahnt, Dean Haynes, Kenneth Dahlberg, Maynard Kaufman, Robert Bealer, Michael Dalecki, Philip Shepard, Edwin French, Dwight Schmidt, J.Patrick Madden, Gerhard Plakholm, Lawrence Woodward, Frederick Buttell, Garth Youngberg, Harold Breimyer, Robert Rodale. Rodale states in his keynote address, "By marching forward under the banner of sustainability we are, in effect, continuing to hamper ourselves by not accepting a challenging enough goal. I am not against the word sustainable, rather I favor regenerative agriculture." MVG

1985



Francis, Charles A. and Richard R. Harwood

Enough Food: Achieving Food Security through Regenerative Agriculture

Emmaus PA: Rodale Institute, 1985. 20p.

NAL Call no: S605.5.F73

Other works by Francis: *Multiple Cropping Systems* (1986); *Sustainable Agriculture in the Midwest: North Central Regional Conference*, editor (1988); *Sustainable Agriculture in Temperate Zones*, editor (1990) See also: *Oral History Interview with Charles A. Francis*, AFSIC (1990) (NAL Call #: Videocassette no.876). Other works by Harwood: *Small Farm Development: Understanding and Improving Farming Systems in the Humid Tropics* (1979); *Research Agenda for the Transition to a Regenerative Food System*, with J. Patrick Madden (1982); *Research Towards Integrated Natural Resources Management: Examples of Research Problems, Approaches and Partnerships in Action in the CGIAR*, editor (2003).

Authored by two influential sustainable agriculture researchers and educators, this document is based on work done at the Rodale Institute. MVG

1985



Fukuoka, Masanobu, 1913-

The Natural Way of Farming: The Theory and Practice of Green Philosophy

Tokyo: Japan Publications, 1985. 280p. Includes index. Translated from the Japanese, *Shizen Noho*, by Frederic P. Metreaud. Other editions: Revised edition, Japan Publications, 1987.

NAL Call no: S606.6 F72

Full-text: Soil and Health Library, Steve Solomon,

<http://www.soilandhealth.org/01aglibrary/01principles.html> (accessed Jan. 1, 2007)

Other works by this author: *The One Straw Revolution* (1978); *The Road Back to Nature: Regaining the Paradise Lost* (1988).

Fukuoka, author of *The One Straw Revolution*, reiterates his five major principles: no tillage, no fertilizer, no pesticides, no weeding and no pruning. His book deals almost exclusively with farming in Japan, but his message can be viewed from a universal perspective. JPG
Cited in: Harwood (1983)

1985



Nabhan, Gary Paul

Gathering the Desert

Tucson AZ: University of Arizona Press, 1985. ix, 209p. Includes index. Bibliography, p. 185-206.

NAL Call no: QK211.N33

Other works by this author: *Enduring Seeds: Native American Agriculture and Wild Plant Conservation* (1989); *Ten Essential Reasons to Protect the Birds and the Bees: How an Impending Pollination Crisis Threatens Plants and the Food on Your Table*, with Mrill Ingram and Stephen L. Buchmann (1996); *Forgotten Pollinators*, with Stephen L. Buchmann (1996); *Coming Home to Eat: The Pleasures and Politics of Local Foods* (2002); *Conserving Migratory Pollinators and Nectar Corridors in Western North America*, editor (2004).

Nabhan's books about plant and animal conservation are written with a personal touch that inspires personal action. This one looks at plants of the Sonoran Desert and their Native American uses. He has also published books about traditional food sources and on plant pollinating organisms. MVG

1986



Gever, John, Robert Kaufman, David Shole, Charles Vorosmarty and Carrying Capacity Inc.

Beyond Oil: The Threat to Food and Fuel in the Coming Decades

Cambridge MA: Ballinger, 1986. A project of Carrying Capacity, Inc. Includes index.

Bibliography, p. 257-285. Other editions: 3rd edition, 1991.

NAL Call no: TJ163.25.U6B44

This study synthesizes geological, social and economic statistics to predict probable energy, economic and agricultural outcomes into the next century. Divergent opinions from experts are included; specific chapters deal with energy use in agriculture. MVG

Cited in: Harwood (1990)

"Agriculture's heavy dependence on fossil fuels in the United States is on a collision course with three current trends: rising demands for fuel by other sectors, falling per capita supplies of fuel, and a degrading of the resource base... The objective of our model is to find out how much energy and land agriculture may demand in the future and what the effect of constraints on their supply will be." John Gever et al.,

1986



Phipps, Tim, Pierre R. Crosson and Kent A. Price, editors

Agriculture and the Environment

Washington DC: National Center for Food and Agricultural Policy, Resources for the Future, 1986. xvii, 298p. Includes bibliographies.

NAL Call no: HD1755.A44

Based on papers and discussion at a Conference on Agriculture and the Environment sponsored by the National Center for Food and Agricultural Policy held in April 1986 at Resources for the Future, Washington, D.C. Papers focus on identifying the environmental problems of conventional agriculture and evaluating related programs and policy. MVG
Cited in: Harwood (1990)

1987



American Farmland Trust

Farming on the Fringe

New York: American Map Corp., 1987. 1 map. Relief shown by shading. Shows high market value farming counties. Concept and analysis for AFT, Margaret Stewart Maizel; design and production, Chessler and Associates. Includes text, local map insets and charts. Includes bibliographical references.

NAL Call no: ArU G3701.J15 1987

Since 1980, American Farmland Trust has focused on the threats facing agricultural lands in the U.S.: unplanned, sprawling development; inadequate conservation programs; and a lack of options for farmers and ranchers who want to stay on their lands. This graphic presentation identifies valuable agricultural land near metropolitan areas and thus seriously threatened.

Comprehensive follow-up studies in 1994 and 1997 augment this information, using data from the U.S. Census and the U.S. Department of Agriculture. MVG. See also: Sorensen, 1997.

1987



California Certified Organic Farmers (CCOF)

California Certified Organic Farmers 1989 Certification Handbook

Santa Cruz CA: CCOF, 1989. vi, 21, 17p. Includes bibliographical references.

NAL Call no: S605.5.C3

1987 marked the first edition of the *CCOF Certification Handbook and Materials List* and the first *Farm Inspection Manual*, as well as the first series of Farm Inspector Trainings. This pioneering organization, formed by a group of grassroots activist farmers in 1973, is one of the oldest organic certifiers in North America. MVG

1987



Murphy, Bill

Greener Pastures on Your Side of the Fence: Better Farming with Voisin Grazing Management

Colchester VT: Arriba Publishing, 1987. xvi, 215p.
NAL Call no: SB199.M87

Murphy put into American farmer-friendly terms and practices, the rational/rotational grazing techniques developed by Voisin in France. MVG. See also: Voisin, 1957.

1987



Whatley, Booker T., 1915-2005, and New Farm

Booker T. Whatley's Handbook on How to Make \$100,000 Farming 25 Acres: With Special Plans for Prospering on 10 to 200 Acres

Emmaus PA: Regenerative Agriculture Association; distributed by Rodale Press, 1987. ix, 180p.
Edited by George DeVault.
NAL Call no: S501.2.W47

Whatley, a horticulture professor at Tuskegee University, presented practical, positive enterprise options for small farm operators including farm diversification, organic farming practices, farm value-added products and innovative, direct marketing schemes. These farming alternatives have grown and flourished, and currently provide important niche markets for small- and medium-sized farms. MVG

1988



Anon.

Nature's Ag School: The Thompson Farm

Emmaus PA: Regenerative Agriculture Association, 1988. 65p.
NAL Call no: S605.5.N37 1988

See also: *On-farm Research Reports*, by Dick Thompson, published annually in Boone IA, Thompson On-Farm Research, since 1993; and *Oral History Interview with Dick Thompson*, AFSIC (1991) (NAL Call #: Videocassette no.1008).

Incorporating articles from *New Farm* magazine about regenerative agriculture, this volume introduced readers to Dick and Sharon Thompson's practical on-farm experiments, observations and educational opportunities. MVG

1988



Kirschenmann, Frederick

Switching to a Sustainable System: Strategies for Converting from Conventional/Chemical to Sustainable/Organic Farming Systems

Windsor ND: Northern Plains Sustainable Agriculture Society, 1988. 18p.
NAL Call no: S494.5.S86K5

Other works by this author: *Biotechnology and Sustainable Agriculture* (1992); *On Becoming Lovers of the Soil* (1994). See also: *Oral History Interview with Fred Kirschenmann*, AFSIC (1990) (NAL Call #: Videocassette no.877).

For many years, this information-packed book was the only practical reference for farmers, providing strategies and financial scenarios for conversion to more sustainable practices.

Based at Kirschenmann Family Farms in North Dakota, Mr. Kirschenmann has been a sustainable agriculture pioneer and long-term advocate, serving with many regional and national organizations including the U.S. Department of Agriculture's National Organic Standards Board and the U.S. Department of Agriculture's North Central Region's Sustainable Agriculture Research and Education (SARE) program. MVG

1988



Madden, James Patrick, James A. DeShazer, Frederick R. Magdoff, Charles W. Laughlin and David E. Schlegel, editors

Low-input/Sustainable Agriculture Research and Education Projects for 1988

Washington DC: Low-Input Project, Cooperative State Research Service, U.S. Dept. of Agriculture, 1988. 28p.

NAL Call no: aS494.5 S86L68 1988

Other works by Madden: *Research Agenda for the Transition to a Regenerative Food System*, with Richard R. Harwood (1982); *For All Generations: Making World Agriculture More Sustainable*, editor, with Scott G. Chaplowe (1997); *The Early Years of the LISA, SARE, and ACE Programs: Reflections of the Founding Director* (1998) (full-text: SARE Western Region, http://wsare.usu.edu/about/index.cfm?sub=hist_sare) (accessed Apr. 23, 2007). See also: *Oral History Interview with James Patrick Madden*, AFSIC (1990) (NAL Call #: Videocassette no.1009).

This report catalogs and describes the first projects funded under USDA's Low-input/Sustainable Agriculture (LISA) Research and Education program, initiated in 1985. This program became the Sustainable Agriculture Research and Education (SARE) program in 1988. Madden, an agricultural economist, was an early advocate of sustainable agriculture in the U.S. He was instrumental in creating and leading the LISA and SARE programs, and he co-authored the historic National Academy of Sciences book, *Alternative Agriculture* (National Academy Press, 1989). MVG
Cited in: Madden (1998)

1988



Savory, Allan, 1935-

Holistic Resource Management

Washington DC: Island Press, 1988. xxvi, 564p. Includes index. Bibliography, p. 513-539.

NAL Call no: HC59.S33

Other works by this author: *Holistic Resource Management Workbook*, with Sam Bingham (1990); *Holistic Management: A New Framework for Decision Making*, with Jody Butterfield (1999); *Holistic Management Handbook: Health Land, Healthy Profits*, with Jody Butterfield, Sam Bingham (2006).

"In studying our ecosystem and the many creatures inhabiting it we cannot meaningfully isolate anything, let alone control the variables. The earth's atmosphere, its plant, animal and human inhabitants, its oceans, plains and forests, its ecological stability and its promise for humankind can only be grasped when they are viewed in their entirety. Isolate any part and neither what you have taken nor what you have left behind remains what it was when all was one." Now called "holistic management," Savory's model has been especially effective in supporting sustainable grazing and livestock systems. MVG

1988



Van En, Robyn

Basic Formula to Create Community Supported Agriculture

Great Barrington MA: R. Van En, 1992. 1 vol. Includes bibliographical references.

NAL Call no: HD9225.A2V35 1992

Other works by this author: *Sharing the Harvest: A Guide to Community Supported Agriculture*, with Elizabeth Henderson (1999).

The first edition of this brief how-to publication appeared in 1988 and described a new, cooperative approach to marketing farm products as implemented at the author's Indian Line Farm in Massachusetts. This concept of "community supported agriculture," or CSA, had evolved from producer-consumer food alliances in Northern Europe, Japan and Chile of the 1970s. CSA, in a variety of applications, has since become a flourishing direct marketing option for small, organic farms in the United States and many other countries. MVG

1988



Wilson, Edward Osborne, editor

Biodiversity

Washington DC: National Academy Press (NAP), 1988. 538p. Note: "Papers from the National Forum on BioDiversity held September 21–25, 1986, in Washington, D.C., under the co-sponsorship of the National Academy of Sciences and the Smithsonian Institution."

NAL Call no.: QH75.A1N32 1986

Full text: NAP, http://www.nap.edu/catalog.php?record_id=989#toc (accessed Jan. 15, 2008)

This groundbreaking collection of papers, framed and edited by well-known biologist, entomologist and naturalist, E.O Wilson, called attention to a rapidly accelerating loss of plant and animal species. Papers also point to the importance of biodiversity and discuss potential policies to temper the effects of the increasing human population pressure and the demands of economic development on biodiversity. MVG

1989



Coleman, Eliot, 1938-

The New Organic Grower: A Master's Manual of Tools and Techniques for the Home and Market Gardener

Chelsea VT: Chelsea Green, 1989. xv, 269p. Includes index. Bibliography, p. 225-235. Revised and expanded, 1995.

NAL Call no: SB324.3.C65

Other works by this author: *The New Organic Grower's Four Season Harvest: How-to Harvest Fresh Organic Vegetables from your Home Garden All Year Long* (1992); *The Winter-harvest Manual: Farming the Back Side of the Calendar: Commercial Greenhouse Production of Fresh Vegetables in Cold-winter Climates without Supplementary Heat* (1998); *Four-season Harvest: Organic Vegetables from your Home Garden All Year Long* (1998).

Coleman's involvement with organic agriculture has been long-term. He is a farmer and researcher who has explored alternative production techniques and marketing practices; he is an educator and advisor who has written extensively, hosted educational television shows, directed the International Federation of Organic Agriculture Movements (IFOAM) and participated in publishing the 1980 USDA *Report and Recommendations on Organic Farming* (cited elsewhere in this bibliography). His practical guides, especially those on cold-climate production, have become mainstays for growers and students. MVG

Cited in: Kuepper, Gegner (2004)

1989



National Research Council Committee on the Role of Alternative Farming Methods in Modern Production Agriculture

Alternative Agriculture

Washington DC: National Academy Press (NAP), 1989. xiv, 448p. Includes bibliographies and index.

NAL Call no: S441.A46

Full-text: NAP, <http://books.nap.edu/catalog/1208.html#toc> (accessed Jan. 1, 2007)

This landmark study, compiled by the nation's foremost body of agricultural scientists, the National Academy of Sciences' Board on Agriculture, lent validity and immediacy to sustainable agriculture issues. MVG

Cited in: Kirschenmann (2004); Madden (1998)

1990



Edwards, Clive A., Rattan Lal, James Patrick Madden, Robert H. Miller and Gar House, editors

Sustainable Agricultural Systems

Ankeny IA: Soil and Water Conservation Society, 1990. xvi, 696p. 40 papers.

NAL Call no: S494.5 S86S86

These papers come from the Proceedings of the International Conference on Sustainable Agricultural Systems held under the sponsorship of the United States

Agency for International Development (USAID) at Ohio State University, Columbus, Ohio, in September 1988. They present a synthesis of 1980s sustainable agricultural science and philosophy in the words of dozens of researchers from around the world. MVG

"As we survey the past and then move ahead to determine our future, we should cherish the diversity of thought and experience that provides the 'raw material' for evolution of a new paradigm..."

Richard Harwood, Chapter 1, 1990

1990



Gliessman, Stephen R.

Agroecology: Researching the Ecological Basis for Sustainable Agriculture

New York: Springer-Verlag, 1990. xiv, 380p. Includes bibliographical references and index. (Ecological Studies, 78)

NAL Call no: QH540.E288 v.78

Other works by this author: *Agroecology: Ecological Processes in Sustainable Agriculture*, editor (1998); *Agroecosystem Sustainability: Developing Practical Strategies* (2001); *Field and Laboratory Investigations in Agroecology* (2006); *Agroecology: The Ecology of Sustainable Food Systems* (rev. ed., 2007).

An introduction to research approaches and case studies in the emerging interdisciplinary field of agroecology. MVG

1990



Lampkin, Nicolas

Organic Farming

Ipswich, UK; Alexandria Bay NY: Farming Press; distributed in North America by Diamond Farm Enterprises, 1990. xiii, 701p. Includes bibliographical references (p. 655-656) and index. Other editions: Rev. 1992; reprinted with amendments, 2002.

NAL Call no: S605.5.L35 1990

Other works by this author: *The Soil: Assessment, Analysis and Utilisation in Organic Agriculture*, editor, with L. Woodward (1991); *The Economics of Organic Farming: An International Perspective*, editor, with S. Padel (1994); *1994 Organic Farm Management Handbook*, editor, with Mark Measures (1st ed., 1994); *Impact of EC Regulation 2078/92 on the Development of Organic Farming in the European Union* (1996); *The Policy and Regulatory Environment for Organic Farming in Europe: Country Reports*, with Carolyn Foster, Susanne Padel (1999); *European Organic Production Statistics, 1993-1996*, with Carolyn Foster (1999).

Dr. Lampkin's 1990 landmark work remains one of the most comprehensive texts on organics, addressing all aspects of organic crop and livestock production. He is currently director of the Organic Centre Wales where he has long been active in researching and writing about the: "Economics of organic farming and specifically conversion to organic methods. Role of organic farming in agricultural policy, in particular impacts of CAP on organic farming and contribution of organic farming to agri-environmental policy. Dissemination of information to key user groups." Institute of Rural Studies Staff Web page (<http://www.irs.aber.ac.uk/research/expertise/nhl.shtml>) (accessed May 7, 2007). MVG

1990



United States Congress

The Organic Foods Production Act (OFPA)

Washington DC: Government Printing Office, 1990. CFR Title 7, Chapter I, Agricultural Marketing Service (Standards, Inspections, Marketing Practices), Department of Agriculture, Part 205 (as authorized under the Organic Foods Production Act of 1990, as amended).

NAL Call no: n.a.

Full-text: USDA National Organic Program (NOP),

<http://www.ams.usda.gov/nop/NOP/standards.html> (accessed Jan. 1, 2007)

The Organic Foods Production Act (OFPA) of 1990 mandated the U.S. Department of Agriculture (USDA) to develop and maintain national standards for organically produced agricultural products to assure consumers that agricultural products marketed as organic meet consistent, uniform standards. The OFPA and the National Organic Program (NOP) regulations require that agricultural products labeled as organic originate from farms or handling operations certified by a State or private entity that has been accredited by USDA. NOP standards were fully implemented in October 2002. MVG
Cited in: Heckman (2006); Kirschenmann (2004)

1990



United States Congress

Food, Agriculture, Conservation and Trade Act of 1990 (FACTA)

Washington DC: Government Printing Office, 1990. 101st Congress, 2nd Session. S. 2334. "To expand the United States Department of Agriculture's low input sustainable agriculture research and education programs, and to provide biotechnology risk assessment research, and for other purposes."

SARE National Project Database is online at <http://www.sare.org/> (accessed Feb. 1, 2007).

NAL Call no: KF1692.A31 1990

Full-text: Sustainable Agriculture Research and Education (SARE), Western Region,

<http://wsare.usu.edu/about/index.cfm?sub=FACTA> (accessed Jan. 1, 2007)

Subtitle B of Title XVI of this bill authorized the USDA Sustainable Agriculture Research and Education (SARE) program. It expanded 1985 legislation that had implemented the USDA Low-Input Sustainable Agriculture (LISA) program. Thousands of research and extension projects have been funded since LISA and SARE became operational in 1988. MVG
Cited in Heckman (2006); Kirschenmann (2004)

1990



United States General Accounting Office

Alternative Agriculture: Federal Incentives and Farmers' Opinions: Report to Congressional Requesters

Washington DC: The Office, 1990. 95p. (GAO/PEMD-90-12)

NAL Call no: S494.5.A65U54

This government report documented, through surveys and analysis, farmer and citizen concerns about chemical pesticide use in food production. It helped support U.S. legislation

aimed at sustainable farming policy and research. MVG
Cited in: Madden (1998)

1992

-  Goreham, Gary, David L. Watt and Roy M. Jacobsen
The Socioeconomics of Sustainable Agriculture: An Annotated Bibliography
New York: Garland, 1992. xix, 334p. (Garland Reference Library of the Humanities, 1332)
NAL Call no: Z5074 E3G69 1992

This compilation lists and describes books and book chapters, journal articles, conference proceedings, government documents and research reports from the 1970s through 1992. Indexed by author and keyword. MVG

1992

-  Soule, Judith D. and Jon K. Piper
Farming in Nature's Image: An Ecological Approach to Agriculture
Washington DC: Island Press, 1992. xix, 286p. Foreword by Wes Jackson. Includes bibliographical references (p. 231-278) and index.
NAL Call no: S441.S757

Based in 1992 at the Land Institute in Kansas, the authors present a "scientifically backed plea for the radically new form of agriculture first laid out in Wes Jackson's *New Roots for Agriculture*. ...the economic problems of farmers and rural communities and the environmental damage resulting from modern agricultural practices, have roots in the industrialization of agriculture." MVG
Cited in: Esbjornson (1992); Heckman (2006)

1993

-  Ikerd, John E.
Assessing the Health of Agroecosystems: A Socioeconomic Perspective
Columbia: University of Missouri, 1993. "This paper was presented at the first International Ecosystem Health and Medicine Symposium as part of a panel organized by Kathryn Freemark and Jack Waide and sponsored by the Canadian Wildlife Service of Environment, Canada, Ottawa."
NAL Call no: n.a.
Full-text: Recent Papers, University of Missouri, <http://web.missouri.edu/~ikerdj/papers/Ottasp.htm> (accessed Jan. 1, 2007)
Other works by this author: *Sustainable Capitalism: A Matter of Common Sense* (2005).

Dr. Ikerd's understanding of sustainable agriculture grew out of his observations as an agricultural economist. Now retired from the University of Missouri, his writings discuss sustainability in terms of small farms, organic farming, rural communities, local food systems and more. He helped implement the *1,000 Ways to Sustainable Farming* project funded by USDA's Sustainable Agriculture Research and Education Program (SARE) that culminated in the book, *The New American Farmer: Profiles of Agricultural Innovation* (2001) (full-text: Sustainable Agriculture Network, <http://www.sare.org/publications/naf.htm>) (accessed Apr. 23, 2007). MVG

1994

-  Bonanno, Alessandro, editor
From Columbus to ConAgra: The Globalization of Agriculture and Food
Lawrence KS: University Press of Kansas, 1994. viii, 294p. Includes bibliographical references and index. (Rural America)
NAL Call no: HD9000.5.F76 1994

Food systems and attached sustainability issues are increasingly tied to global trade and regulation. This collection of essays includes works by William D. Heffernan and Douglas H. Constance (“Transnational Corporations and the Globalization of the Food System”); Lawrence Busch (“The State of Agricultural Science and the Agricultural Science of the State”); Lourdes Gouveia (“Global Strategies and Local Linkages: The Case of the U.S. Meatpacking Industry”); and William H. Friedland (“The New Globalization: The Case of Fresh Produce”). MVG

1994



National Research Council Committee on Rangeland Classification

Rangeland Health: New Methods to Classify, Inventory, and Monitor Rangelands

Washington DC: National Academy Press, 1994. xvi, 180p.

NAL Call no: SF85.3.R36 1994

Full-text: National Academy Press, <http://www.nap.edu/books/0309048796/html/index.html>

(accessed Jan. 1, 2007)

Understanding and managing sustainable use of U.S. rangelands has been hampered by a lack of uniform methods for inventorying, classifying and monitoring rangelands. The NRC Committee on Rangeland Classification Systems was tasked with examining the scientific basis of methods used by three U.S. agencies - the Soil Conservation Service, Bureau of Land Management and U.S. Forest Service. Since its publication, interagency cooperation has produced standard measurement tools based on multiple ecological indicators to evaluate rangeland health and sustainability. MVG

1995



Benson, Laura Lee, Robert Zirkel and Kickapoo Organic Resource Network

Organic Dairy Farming

Gays Mills WI: Orang-utan Press, 1995. 87p. Includes bibliographical references. Illustrations by Pam Taliaferro.

NAL Call no: SF239.B46 1995

This slim volume was one of the first to provide farmers with practical information about organic livestock husbandry and organic milk production. MVG

1995



Pretty, Jules N.

Regenerating Agriculture: Policies and Practice for Sustainability and Self-reliance

Washington DC: Joseph Henry Press, 1995. 336p. Includes bibliographical references and index.

NAL Call no: S464.5 S86P74 1995

Other works by this author: *Unwelcome Harvest: Agriculture and Pollution*, with Gordon R. Conway (1991); *The Living Land: Agriculture, Food and Community Regeneration in Rural Europe* (1998); *Agri-culture: Reconnecting People, Land and Nature* (2002); *The Earthscan Reader in Sustainable Agriculture*, editor (2005)

Pretty has documented case studies from around the developing world, illustrating the techniques and impacts of successful sustainable practices in Brazil, Burkina Faso, Honduras, India, Indonesia, Kenya, Lesotho, Mali, Mexico, Peru, Philippines and Sri Lanka. MVG

1996



Smit, Jac, Annu Ratta, Joe Nasr and United Nations Development Programme

Urban Agriculture: Food, Jobs and Sustainable Cities

New York: United Nations Development Programme, 1996. xxi, 300p. Includes bibliographical references.

NAL Call no: S494.5.U72U73 1996

This book portrays crop and livestock production in cities and suburbs as a modern economic activity with significance for sustainable food systems - ecological production, food security, stable family incomes and a livable urban environment. It is based on case studies from Asia, Africa and Latin America. MVG

"As an industry, urban agriculture is closely linked to several urban, ecological, social and economic systems. It provides economic benefits for urban farmers and their communities and cities. It enhances the living environment and can improve efficiency in urban management. It contributes to better public health (if practiced properly) and furthers social participation in the community." UNDP, 1996

1997



Abdul-Baki, Aref A. and John R. Teasdale

Sustainable Production of Fresh-Market Tomatoes and Other Summer Vegetables with Organic Mulches

Beltsville MD: U.S. Department of Agriculture, Agricultural Research Service, 1997. 23p. Includes bibliographical references. (Farmers' Bulletin, 2279)

NAL Call no: 1 Ag84F no.2279

Full-text: USDA, ARS, <http://www.ars.usda.gov/is/np/SustainableTomato.pdf> (accessed Jan. 1, 2007)

Tomatoes grown with a hairy vetch cover crop/mulch out-produced conventionally-grown tomatoes and required significantly fewer inputs. This small book summarizes the research, done by USDA scientists at the Agricultural Research Service in Maryland and provides growers with practical information on using the system on their own farms. MVG
Cited in: Kuepper, Gegner (2004)

1997



Lipson, Mark

Searching for the "O-word": Analyzing the USDA Current Research Information System for Pertinence to Organic Farming

Santa Cruz CA: Organic Farming Research Foundation (OFRF), 1997. 83p. Includes bibliographical references, p. 82.

NAL Call no: S605.5.L56 1997

Other works from the Foundation: *State of the States: Organic Systems Research at Land Grant Institutions, 2001-2003* (2003); *The Fourth National Organic Farmers' Survey: Sustaining Organic Farms in a Changing Organic Marketplace* (2004) (both in full-text: OFRF, <http://ofrf.org/publications/publications.html>) (accessed Feb. 1, 2007).

Lipson's documented catalog and analysis of organic-pertinent research being done (and not being done) with USDA funds, received the attention of senior research staff and administrators in the Agriculture Department. Spurred by this book and by the growing commercial success of organically-produced commodities, Congress and USDA began to implement more organic systems research and marketing support. MVG

1997



Sorensen, A. Ann, Richard P. Greene and Karen Russ

Farming on the Edge

Washington DC; DeKalb IL: American Farmland Trust; Center for Agriculture in the Environment, 1997. 66p. Features maps, tables and a glossary. Foldout map included.

NAL Call no: HD256.S6 1997

Full-text (partial report): American Farmland Trust, <http://www.farmland.org/resources/fote/default.asp> (accessed Jan. 1, 2007)

This report utilizes many maps and tables to identify agricultural lands near metropolitan areas and how they are threatened, as of 1997. Updates data and reports from 1987 and 1994. MVG. See also: American Farmland Trust, 1987.

1998



USDA National Commission on Small Farms

A Time to Act: A Report of the USDA National Commission on Small Farms

Washington DC: The Commission, 1998. 121p. Includes bibliographical references. (Miscellaneous Publication, 1545)

NAL Call no: 1 Ag84M no.1545

Full-text: USDA, http://www.csrees.usda.gov/nea/ag_systems/in_focus/smallfarms_if_time.html (accessed Jan. 1, 2007)

The plight of small and family farms became so grave during the 1980s and 1990s that a 30-member National Commission on Small Farms was appointed by the Secretary of

Agriculture in July 1997 to examine the status of small farms in the United States and to determine a course of action for USDA to recognize, respect and respond to their needs. The report established eight policy goals. MVG

"Small farms have been the foundation of our Nation, rooted in the ideals of Thomas Jefferson and recognized as such in core agricultural policies. It is with this recognition of our Nation's historical commitment to small farms that we renew our dedication to the prominence of small farms in the renewal of American communities in the 21st century..." Small Farm Commission, 1998

1999



Dobson, Andrew P., editor

Fairness and Futurity: Essays on Environmental Sustainability and Social Justice

Oxford: Oxford University Press, 1999. 344p.

NAL Call no: n.a.

This impressive collection of essays comes from collaborative work done by environmental and political theorists, researchers and public policy makers. Contributors have addressed difficult questions about the concepts and goals of sustainability and justice, many of which related directly to agricultural production: "If future generations are owed justice, what should we bequeath them? Is 'sustainability' an appropriate medium for environmentalists to express their demands? Is environmental protection compatible with intra-generational justice? Is environmental sustainability a luxury when social peace has broken down?" [Publisher's Web page] MVG

2000



Magdoff, Fred, John Bellamy Foster and Frederick H. Buttel, editors

Hungry For Profit: The Agribusiness Threat to Farmers, Food, and the Environment

New York: Monthly Review Press, 2000. 248p.

NAL Call no: HD9000.5 .H86 2000

This collection of provocative essays covers many aspects of agriculture and agribusiness. Essay titles include: "Liebig, Marx, and the Depletion of Soil Fertility: Relevance for Today's Agriculture" (John Bellamy Foster and Fred Magdoff); "Concentration of Ownership and Control in Agriculture" (William D. Heffernan); "Ecological Impacts of Industrial Agriculture and the Possibilities for Truly Sustainable Farming" (Miguel A. Altieri); "New Agricultural Biotechnologies: The Struggle for Democratic Choice" (Gerard Middendorf et al.); "Organizing U.S. Farm Workers: A Continuous Struggle" (Linda C. Majka and Theo J. Majka); "Rebuilding Local Food Systems from the Grassroots Up" (Elizabeth Henderson);

“Want Amid Plenty: From Hunger to Inequality” (Janet Poppendieck); “Cuba: A Successful Case Study of Sustainable Agriculture” (Peter M. Rosset); “The Importance of Land Reform in the Reconstruction of China” (William Hinton). MVG

2001



Furuno, Takao, 1950-

The Power of Duck: Integrated Rice and Duck Farming

Tasmania, Australia: Tagari Publications, 2001. 94p.

NAL Call no.: n.a.

Other works by this author: *Aigamo Banzai: Aigamo Suito Doji Saku No Jissai* [transliterated title, in Japanese, translated title: *Cheers for Aigamo Ducks*] (1992).

Japanese rice farmer Furuno has developed a system that eliminates external fertilizer and pesticide inputs by carefully integrating the production of rice, ducks and fish. Profits from the resulting increased rice yields, fish, duck meat and eggs have persuaded thousands of farmers in Asia to switch to Furuno's system. MVG

Cited in: Kirschenmann (2004)

2001



Horne, James E. and Maura McDermott

The Next Green Revolution: Essential Steps to a Healthy, Sustainable Agriculture

New York: Food Products Press, 2001. xix, 312p. Includes bibliographical references, p. 285-297, and index.

NAL Call no: S441 .H67 2001

Other works by James Horne: *Laboratory Experiments in Sustainable Agriculture Wheat for Pasture: Mineral Nutrient Uptake*, with Alexandre E. Kalevitch, Mariia V. Filimonova (1994); *Germination of Five Wheat Varieties under Various Soil Conditions: Implications for Sustainable Agriculture*, with Alexandre E. Kalevitch, Mariia V. Filimonova (1994); *Seeds of Change: Food and Agriculture Policy for Oklahoma's Future*, with Anita K. Poole (2003). Other works by Maura McDermott: *Hoeing the Row Out: More than Three Decades of History* (1996); *Future Farms 2002: A Supermarket of Ideas: Conference Proceedings, November 15 and 16, 2002* (2003).

An educator and economist, much of Horne's career has been at the Kerr Center for Sustainable Agriculture in Oklahoma where he is currently President and Chief Executive Officer. In this book, he and McDermott share what has been “learned as the Kerr Center experimented with new ‘sustainable’ approaches to old problems on the Center's ranch/farm and ...experiences working with the USDA's Sustainable Agriculture Research and Education Program. It gives practical suggestions for increasing profits and reducing risks while regenerating the soil, protecting the environment and being a good neighbor.” Kerr Center Web site (<http://www.kerrcenter.com/staff/horne.html>) (accessed 4/12/2007). MVG

2001



Petrini, Carlo, Benjamin Watson and Slow Food Movement, editors

Slow Food: Collected Thoughts on Taste, Tradition, and the Honest Pleasures of Food

White River Junction VT: Chelsea Green, 2001. xv, 287p. Foreword by Deborah Madison. Includes bibliographical references.

NAL Call no.: TX631 .S58 2001

Other works by Petrini: *Slow Food: The Case for Taste* (2004); *Slow Food Revolution: A New Culture for Eating and Living*, with Gigi Padovani (2006); *Slow Food Nation: A Blueprint for Changing the Way We Eat* (2007).

The “slow food” movement, founded by Petrini in 1986, emphasizes regional food and home cooking that uses sustainably grown ingredients grown and harvested by fairly treated

workers. The organization, which originated in Italy, has grown worldwide and now (2007) has more than 80,000 members. MVG

2001



Salatin, Joel. F.

Family Friendly Farming: A Multi-generational Home-based Business Testament

Swoope VA: Polyface, 2001. xvii, 402p. Includes bibliographical references, p. 390-394, and index. NAL Call no: HD1476.U6 S24 2001

Other works by this author: *Pastured Poultry Manual: The Polyface Model* (1991); *Pastured Poultry Profits* (1993); *Salad Bar Beef* (1995); *You Can Farm: The Entrepreneur's Guide to Start and Succeed in a Farm Enterprise* (1998).

Salatin, a Virginia farmer, published his first book in 1991 (cited above); it described his successful pastured poultry operation. Since then, he has built on and refined his farming enterprises, lectured widely about his successes and written several how-to books. His combination of sustainable farming techniques and profitability has inspired and influenced farmers across the U.S. MVG

2002



Norberg-Hodge, Helena, Todd Merrifield and Steven Gorelick

Bringing the Food Economy Home: Local Alternatives to Global Agribusiness

London; Halifax NS; Bloomfield CT: Zed Books; Fernwood; Kumarian Press, 2002. vi, 150p.

Published in association with the International Society for Ecology and Culture (ISEC). Includes bibliographical references, p. 127-142, and index.

NAL Call no: HD9000.5 .N596 2002

Other works by Norberg-Hodge: *Ancient Futures: Learning from Ladakh* (1991); *From the Ground Up: Rethinking Industrial Agriculture*, with Peter Goering, John Page (1993; revised edition, 2001).

Since 2000, several books have focused on the risks and remedies related to sustainable food systems and market globalization. This one covers a wide range of issues with particular reference to the U.S. and U.K. and points to locally-based alternatives to global consumer culture. MVG

2005



Diamond, Jared

Collapse: How Societies Choose to Fail or Succeed

New York: Viking Press, 2005. 575p.

"Further Readings" appendix, p. 529-560.

NAL Call no: n.a.

Other works by this author: *Guns, Germs and Steel: The Fates of Human Societies* (1997).

"Our television documentaries and books show us in graphic detail why the Easter Islanders, Classic Maya and other past societies collapsed. Thus, we have the opportunity to learn from mistakes of distant peoples and past peoples. That's an opportunity that no past society enjoyed to such a degree." Jared Diamond, 2005

Diamond's discussion of ecocide, "people inadvertently destroying the environmental resources on which their societies depended," emphasizes food system resources. He looks at problematic ancient and contemporary societies, discusses similarities and differences and provides a chapter called, "Reasons for Hope." MVG

2005



Hatfield, Jerry L., editor

The Farmer's Decision: Balancing Economic Agriculture Production with Environmental Quality

Ankeny IA: Soil and Water Conservation Society, 2005. xviii, 251p. Essays based on presentations at a workshop in Honolulu, Hawaii, held November 9-12, 2004. Includes bibliographical references

and index.

NAL Call no: S589.75 .F36 2005

Other works by this author: *Sustainable Agriculture Systems*, editor, with D.L. Karlen (1984); *Precision Agriculture and Environmental Quality: Challenges for Research and Education* (2000); *Nitrogen in the Environment: Sources, Problems, and Management*, editor, with R.F. Follett (2001).

This book examines the decision-making processes involved in moving scientists, policymakers, planners, producers, and the consumers of food and fiber to a more sustainable agriculture and healthier environment. Thirteen essays discuss how farmers make decisions and adopt innovation, as well as the environmental, economic, social and technological issues driving those decisions, e.g. water and nutrient management challenges, precision farming, etc. MVG

2006



Francis, Charles A., Raymond P. Poincelot and George W. Bird, editors

Developing and Extending Sustainable Agriculture: A New Social Contract

New York: Haworth Food and Agricultural Products Press, 2006. xxii, 367p. Includes bibliographical references and index. (Sustainable Food, Fiber, and Forestry Systems)

NAL Call no: S494.5.S86 D48 2006

Full-text (selected text only): Haworth Press,

<http://www.haworthpress.com/store/SampleText/5709.pdf> (accessed Jan. 1, 2007)

Other works by Charles Francis: *Enough Food: Achieving Food Security through Regenerative Agriculture*, with Richard R. Harwood (1985); *Multiple Cropping Systems* (1986); *Internal Resources for Sustainable Agriculture* (1988); *Sustainable Agriculture in the Midwest: North Central Regional Conference*, editor (1988); *Sustainable Agriculture in Temperate Zones*, editor (1990) See also: *Oral History Interview with Charles A. Francis*, AFSIC (1990) (NAL Call #: Videocassette no.876).. Other works by Raymond Poincelot: *The Biochemistry and Methodology of Composting* (1972, rev. 1975); *Toward a More Sustainable Agriculture* (1986); *Sustainable Horticulture: Today and Tomorrow* (2004). Other works by George Bird: *Sustainable Agriculture: Current State and Future Trajectory* (1988); *Integrated Pest Management: Its Role in the Evolution of Sustainable Agriculture* (1991).

This book explores integrating agricultural research and outreach with the goal of moving U.S. farming and ranching to practical, profitable, sustainable systems. Contributors, including the editors, are leaders in the sustainable agriculture field. They present new thoughts on soil management, managed grazing, whole-farm planning, economic issues, integrated pest management and community/rural development. Special attention is given to the status and potential of research, education and outreach efforts. MVG

2006



Kristiansen, Paul, Acram Taji and John Reganold, editors

Organic Agriculture: A Global Perspective

Collingwood, Vic.: CSIRO Publishing, 2006. xxxi, 449p. Includes bibliographical references and index.

NAL Call no: S605.5 .O62 2006

Other works by John Reganold: *Natural Resource Conservation: Management for a Sustainable Future*, with Oliver S. Owen, Daniel D. Chiras (7th ed., 1998).

“For more than two decades, research into organic methods by mainstream scientists has generated a large body of information that can now be integrated and used for assessing the actual impacts of organic farming in a wide range of disciplines. The knowledge of selected international experts has been combined in one volume, providing a comprehensive review of

organic farming globally ...At the intersection of research, education, and practice, the contributors look at the organic agricultural movement's successes and limitations." CSIRO Web page (<http://www.publish.csiro.au/pid/5325.htm>) (accessed 4/23/2007). MVG

2006



Pollan, Michael

The Omnivore's Dilemma: A Natural History of Four Meals

New York: Penguin Press, 2006. 450p. Includes bibliographical references, p. 417-435, and index. NAL Call no: GT2850 .P65 2006

Other works by this author: *Botany of Desire: A Plant's Eye View of the World* (2001).

Pollan writes eloquently about where our food comes from and what its production (and our choice to eat it) entails ecologically, economically and nutritionally. He follows and analyzes four food chains - industrial food, organic or alternative food and food we forage ourselves - from the soil to the final meal. MVG

2007



Newton, Paul C. D., Carran R. Andrew, Grant R. Edward and Pascal A. Niklaus, editors

Agroecosystems in a Changing Climate

Boca Raton FL: CRC/Taylor and Francis, 2007. 364p. Includes bibliographical references and index. (Advances in Agroecology)

NAL Call no: S589.7 .A374 2007

No topic could be more pertinent to sustainable agriculture than global climate change. This work combines information from both ecological and agricultural perspectives. Essays discuss how atmospheric and climate changes will effect biogeochemical cycles, nutrient and water supply; symbiotic nitrogen fixation; belowground food webs; herbivory and nutrient cycling; plant population dynamics and species composition; fungi; trophic interactions; weed, pest and disease problems for plants; and plant breeding. There is also an essay on "Distinguishing between acclimation and adaptation." MVG

2007



Warner, Keith Douglass

Agroecology in Action: Extending Alternative Agriculture through Social Networks

Cambridge MA: MIT, 2007. xiv, 273p. Includes bibliographical references (p. 257-270) and index. Forward by Frederick L. Kirschenmann. (Food, Health, and the Environment)

NAL Call no: S441 .W28 2007

Other works by this author: *Promise or Threat? Responding to the Challenge of Agricultural Biotechnology* (2000) (full-text: National Catholic Rural Life Conference, http://www.ncrlc.com/promise_threat.html) (accessed Apr. 23, 2007).

Partnerships are keys to establishing a sustainable agriculture. "This book describes how some farmers, scientists, agricultural organizations, and public agencies have developed innovative, ecologically informed techniques and new models of social learning to reduce reliance on agrochemicals, and thus put agroecology into action. It describes the technical scope and geographic range of ecologically informed strategies and practices in American agriculture, analyzing in detail a set of specific agroecological partnerships in California." Introduction. MVG

Appendix A: Articles and Books about Sustainable Agriculture Used in Compiling this Bibliography

Beeman, Randal

The Trash Farmer: Edward Faulkner and the Origins of Sustainable Agriculture in the United States, 1943-1953

Journal of Sustainable Agriculture (1992), vol. 4, no. 1, p. 91-102.

NAL Call no: S494.5.S86S8

Appears in chronological bibliographic citations as: Beeman (1993)

Blum, Barton

Composting and the Roots of Sustainable Agriculture

In *The History of Agriculture and the Environment*, Douglas E. Bowers and Douglas Helms, editors. Washington DC: The Agricultural History Society, 1993, p. 171-88. 27 papers from a Special Symposium, June 19-22, 1991, Washington DC. Includes references.

NAL Call no: 30.98 Ag8

Appears in chronological bibliographic citations as: Blum (1993)

Coleman, Eliot

Annotated Bibliography of Biological Agriculture: A Publication of the Small Farm Research Association

Mother Earth News (1976), vol. 39.

NAL Call no: AP2 M6

Full-text: *Mother Earth News* archive, <http://www.motherearthnews.com/Livestock-and-Farming/1976-05-01/Eliot-Coleman-The-Small-Farm-Research-Association.aspx> (accessed Jan. 1, 2007)

Appears in chronological bibliographic citations as: Coleman (1976)

Conford, Philip

The Origins of the Organic Movement

Edinburgh: Floris Books, 2001. 280p. Foreword by Jonathan Dimbleby. Index and references.

Appendix A: "Leading figures in the organic movement and the orthodox school of agriculture."

NAL Call no: GE195 C66 2001

Appears in chronological bibliographic citations as: Conford (2001)

Conford, Philip, editor

The Organic Tradition: An Anthology of Writings on Organic Farming 1900-1950

Hartland, Devon; Shaftesbury, Dorset: Green Book; distributed by Element Books, 1988. vii, 224p.

Forward by Jeremy Seabrook. Includes index and references.

NAL Call no: S605.5 O75

Appears in chronological bibliographic citations as: Conford (1988)

Esbjornson, Carl D.

Once and Future Farming: Some Meditations on the Historical and Cultural Roots of Sustainable Agriculture in the United States

Agriculture and Human Values (1992), vol. 9, no. 3, p. 20-30. Special issue: Alternative Conceptions and Models of Sustainability.

NAL Call no: HT401 A36

Appears in chronological bibliographic citations as: Esbjornson (1992)

Harwood, Richard R.

International Overview of Regeneration Agriculture

In *Proceedings of Workshops on Resource-Efficient Farming Methods for Tanzania, May 16-20, 1983*. Emmaus PA: Rodale Press, 1983, p. 24-36. Meeting held at University of Dar es Salaam, Morogoro, Tanzania, May 16-20, 1983.

NAL Call no: S605.5 W59 1983

Appears in chronological bibliographic citations as: Harwood (1983)

Harwood, Richard R.

A History of Sustainable Agriculture

In *Sustainable Agricultural Systems*, Clive A. Edwards, Rattan Lal, James Patrick Madden, Robert H. Miller and Gar House, editors. Ankeny IA: Soil and Water Conservation Society, 1990, p. 3-19.

NAL Call no: S494.5 S86S86

Appears in chronological bibliographic citations as: Harwood (1990)

Heckman, Joseph

A History of Organic Farming – Transitions from Sir Albert Howard’s War in the Soil to the USDA National Organic Program

Renewable Agriculture and Food Systems (2006), vol, 21, no. 3, p. 143-150. Includes references.

NAL Call no.: S605.5 .A43

Full-text: Weston A. Price Foundation, <http://www.westonaprice.org/farming/history-organic-farming.html> (accessed May 7, 2007)

Appears in chronological bibliographic citations as: Heckman (2006)

Kirschenmann, Fred

A Brief History of Sustainable Agriculture

The Networker (2004), vol. 9, no. 2. Includes editor’s note by Carolyn Raffensperger and Nancy Myers.

Full-text: Science and Environmental Health Network, http://www.sehn.org/Volume_9-2.html (accessed May 7, 2007)

Appears in chronological bibliographic citations as: Kirschenmann (2004)

Korcak, Ronald F.

Early Roots of the Organic Movement: A Plant Nutrition Perspective

HortTechnology (1992), vol. 2, no. 2, From “Proceedings of the Workshop: History of the Organic Movement,” meeting held at the 88th American Society for Horticultural Science, The Pennsylvania State University, University Park, PA.

NAL Call no: SB317.5 H68

Full-text: Purdue University, Center for New Crops and Plants Products, http://www.hort.purdue.edu/newcrop/history/lecture31/r_31-2.html (accessed Jan. 1, 2007)

Appears in chronological bibliographic citations as: Korcak (1992)

Kuepper, George and Lance Gegner

Organic Crop Production Overview

Fayetteville AR: ATTRA - National Sustainable Agriculture Information Service, National Center for Appropriate Technology (NCAT), 2004.

NAL Call no: n.a.

Full-text: ATTRA/NCAT, <http://attra.ncat.org/attra-pub/summaries/organiccrop.html> (accessed Jan. 1, 2007)

Appears in chronological bibliographic citations as: Kuepper, Gegner (2004)

Lehman, Tim

Public Values, Private Lands: Origins and Ironies of the Farmland Preservation in Congress
In *The History of Agriculture and the Environment*, Douglas E. Bowers and Douglas Helms, editors.
Washington DC: The Agricultural History Society, 1993, p. 257-72. 27 papers from a Special Symposium, June 19-22, 1991, Washington DC. Includes references.
NAL Call no: 30.98 Ag8
Appears in chronological bibliographic citations as: Lehman (1993)

Madden, James Patrick

The Early Years of the LISA, SARE, and ACE Programs: Reflections of the Founding Director
Logan UT: Sustainable Agriculture Research and Education (SARE), Western Region, 1998.
Includes references and glossary.
NAL Call no: n.a.
Full-text: Sustainable Agriculture Research and Education (SARE), Western Region,
http://wsare.usu.edu/about/index.cfm?sub=hist_sare (accessed Jan. 1, 2007)
Appears in chronological bibliographic citations as: Madden (1998)

McDonald, Angus Henry, 1903-

Early American Soil Conservationists
Washington DC: United States Department of Agriculture, 1941. 63p. Bibliography, p. 61-63.
Biographies of Jared Eliot; Samuel Deane; Solomon Drown; John Taylor; John Lorain; Isaac Hill;
Nicholas Sorsby; Edmund Ruffin. (Miscellaneous Publication, 449)
NAL Call no: 1 Ag84M no.449
Full-text: Ye Olde Forage Library, West Virginia University Extension Service,
<http://www.caf.wvu.edu/~forage/library/forglvst/bulletins/s449.pdf> (accessed Apr. 23, 2007)
Appears in chronological bibliographic citations as: McDonald (1941)

Merrill, Margaret C.

EcoAgriculture: A Review of its History and Philosophy
Biological Agriculture and Horticulture (1983), vol. 1, no. 3, p. 181-210.
NAL Call no: S605.5 B5
Appears in chronological bibliographic citations as: Merrill (1983)

Rateaver, Bargyla and Gylver Rateaver

The Organic Method Primer: A Practical Explanation; the How and Why for the Beginner and the Experienced
Pauma Valley CA: Rateavers, 1973. 256p. Includes bibliography.
NAL Call no: S605.5 R37
Appears in chronological bibliographic citations as: Rateaver (1973)

Scofield, A. M.

Organic Farming: The Origin of the Name
Biological Floriculture and Horticulture (1986), vol. 4, no. 1, p. 15.
NAL Call no: S605.5 B5
Appears in chronological bibliographic citations as: Scofield (1986)

Worster, Donald

A Sense of Soil: Agricultural Conservation and American Culture
Agriculture and Human Values (1985), vol. 2, no. 4, p. 28-35.
NAL Call no: HT401 .A36
Appears in chronological bibliographic citations as: Worster (1985)

Appendix B: Online Libraries of Historical Agricultural Texts and Images

The Core Historical Literature of Agriculture (CHLA). Albert R. Mann Library, Cornell University.
<http://chla.library.cornell.edu/>

A “core electronic collection of agricultural texts published between the early nineteenth century and the middle to late twentieth century. Full-text materials cover agricultural economics, agricultural engineering, animal science, crops and their protection, food science, forestry, human nutrition, rural sociology, and soil science.” Documents may be viewed via image, PDF and/or text files.

Google Books

<http://books.google.com>

Using partner programs with libraries and others, Google has scanned thousands of texts, and provides full view, limited or “snippet” view or only a citation and related bibliographic information, depending on copyright status of the work. Reference pages for scanned books provide links to book reviews, web references, maps and more.

Internet Archive

<http://www.archive.org/index.php>

“The Internet Archive is a 501(c)(3) non-profit that was founded to build an Internet library, with the purpose of offering permanent access for researchers, historians, and scholars to historical collections that exist in digital format... Now the Internet Archive includes texts, audio, moving images, and software as well as archived web pages in our collections.” Browse by topic (“Agriculture”) or search by keyword, author, title, year, etc.

Journey to Forever Online Library. Keith Addison, Journey to Forever.

http://journeytoforever.org/farm_library.html

“This is a free library, open to anybody who wants to learn about sustainable development, environment and related areas.” Fair use copyright restrictions apply to out-of-print materials not in the public domain. Most documents are in HTML file format.

Library of Congress, American Memory, The Evolution of the Conservation Movement, 1850-1920. U.S. Library of Congress.

<http://lcweb2.loc.gov/ammem/amrvhtml/conshome.html>

“Documents the historical formation and cultural foundations of the movement to conserve and protect America’s natural heritage, through books, pamphlets, government documents, manuscripts, prints, photographs, and motion picture footage drawn from the collections of the Library of Congress. The collection consists of 62 books and pamphlets, 140 Federal statutes and Congressional resolutions, 34 additional legislative documents, excerpts from the Congressional Globe and the Congressional Record, 360 Presidential proclamations, 170 prints and photographs, 2 historic manuscripts, and 2 motion pictures.” Documents available in HTML format or as images.

Making of America (MoA). University of Michigan/Cornell University.

<http://quod.lib.umich.edu/m/moagrp/>

A “digital library of primary sources in American social history from the antebellum period through reconstruction. The collection is particularly strong in the subject areas of education, psychology, American history, sociology, religion, and science and technology.” Dozens of titles refer to agricultural and farming topics. Documents may be viewed via image, PDF and/or text files.

National Agricultural Library Digital Repository (NALDR). National Agricultural Library, U.S. Department of Agriculture.

<http://naldr.nal.usda.gov/>

The NALDR “provides access to publications either digitized by NAL or through NAL’s partnerships with other institutions. The majority of the publications available in the NALDR were published by the USDA. Examples include the Agriculture Information Bulletin, the Agricultural Economic Report, and the Yearbook of the U.S. Department of Agriculture. The NALDR utilizes ZyLAB’s ZyIMAGE system, which includes optical character recognition processing to convert images into searchable text and a Web interface to display and print/download documents.” Accessing individual documents entails linking to the ZyLAB executable file/database.

Organic Roots: Organic Agriculture Information Access. Alternative Farming Systems Information Center, National Agricultural Library.

<http://quod.lib.umich.edu/n/nal/>

An electronic collection of historical United States Department of Agriculture (USDA) publications related to organic agriculture. In this collection, there are almost 200 documents published before 1942 (before synthetic chemicals became widely used) that contain state-of-the-art information and data that is still very pertinent for today’s agriculture. Another 300 documents will be added to this site in 2007. Documents may be viewed via image and/or text files.

Publication Archive. Michigan State University Extension.

<http://web1.msue.msu.edu/msue/imp/modp1/masterp1.html>

Michigan Extension Publications; primarily from the late 1920s and 1930s are available in PDF. Search or browse by keyword.

Publications of the Kansas Agricultural Experiment Station--1888 to 2006. Agricultural Experiment Station, Kansas State University.

<http://www.oznet.ksu.edu/historicpublications/>

Reports and bulletins in various Kansas Experiment Station series are available in PDF. Browse by series and title. Files are also available on a set of four CD-ROMs, *Harvest of Knowledge* from Production Services, Kansas State University, 24 Umberger Hall, Manhattan, KS 66506-3402.

Soil and Health Library. Steve Solomon, Tasmania, Australia.

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

The Soil and Health Library has four major sections including Radical Agriculture: “The nutritional qualities of food and consequently the health of the animals and humans eating that food are determined by soil fertility. This section’s interest is far wider than organic gardening and farming; other health-determined approaches to food-raising are also included.” This Library is a “free library;” however, users are required to sign an Australian copyright clearance form and are requested to become Library members before certain documents not in the public domain may be downloaded. Either HTML or PDF files are offered.

Ye Olde Forage Library. West Virginia University, Extension Service.

<http://www.caf.wvu.edu/~forage/library/>

Contains “classic” works on forage management primarily from West Virginia Extension and Experiment Stations and from U.S. Department of Agriculture sources. Most documents are PDF; browse by topic and title.

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