Agriculture Research Guide: Reference Materials

This is a general guide to finding information on agricultural subjects including crops, soils, forages, farm management, agricultural and biosystems engineering, and sustainable agriculture (SARE).

**Page Contents**
- Encyclopedias and Dictionaries (Standard and Translation)
- Reference Works - General Agriculture
- Reference Works - General Plant Science, Horticulture, Landscape Architecture
- Career Books
- Scholarships, Funding, and Grants

**Soil Science Resources**

- **World Soils eBook series**
  Ebook series from Springerlink. Books are full text online. More than 20 ebooks describe soils in countries around the globe.

- **Progress in Soil Science ebook series**

**Books**

- **Biological Approaches to Sustainable Soil Systems** by Hans Herren (Editor); Norman Uphoff (Editor)
  Call Number: S591 .B512 2006 Online
  ISBN: 9781574445831
  Publication Date: 2006-03-03

- **The Chemistry of Soils, 3rd ed** by Garrison Sposito
  Call Number: S592.5 .S656 2016 Online
  ISBN: 9780190630881
  Publication Date: 2016-11-21

- **An Introduction to Soil Dynamics** by Arnold Verruijt
  Call Number: TA711 .V47 2010 Online
  ISBN: 9789048134403
  Publication Date: 2009-12-09
  Theory and applications of transport in porous media ; v. 24.

- **An Introduction to Soil Mechanics** by Arnold Verruijt
  Call Number: TA1-2040 Online
  ISBN: 9783319611846
  Publication Date: 2017-08-09
  Theory and Applications of Transport in Porous Media, no.30

- **Soil Formation, 2nd ed**. by Nico van Breemen; Peter Buurman
  Call Number: S592.2 .B74 2002 Online
  ISBN: 0865860187
  Publication Date: 2002-02-02
**ENCYCLOPEDIAS:**

- **Encyclopedia of soils in the environment**/ Daniel Hillel; Jerry L. Hatfield ... [et al.].
  - MSU MAIN LIBRARY - S596 .E53 2005 v.1-4
- **Encyclopedia of Agrophysics [electronic resource]**
  - The Encyclopedia of Agrophysics provides about 250 informative articles and ca 400 glossary terms covering all aspects of agrophysics. The authors represent renowned specialists in various disciplines in agrophysics from a wide variety of countries. Agrophysics is important both for research and practical use not only in agriculture, but also in areas like environmental science, land reclamation, food processing etc. Agrophysics is a relatively new interdisciplinary field closely related to Agrochemistry, Agrobiology, Agroclimatology and Agroecology. Nowadays it has been fully accepted as an agricultural and environmental discipline.

**DICTIONARIES:**

  - MSU MAIN LIBRARY - S592 .C3 1976
- **Multilingual vocabulary of soil science, 2nd ed. [...]**/ Edited by G.V. Jacks, R. Tavernier and D.H. Boalch.
  - MSU MAIN LIBRARY - S591 .J26 1960
  - MSU MAIN LIBRARY - S592 .S6

**HANDBOOKS:**

- **Handbook of soil science** / editor-in-chief, Malcolm E. Sumner
  - MSU MAIN LIBRARY - S591 .H23 2000
- **Practical pedology : studying soils in the field**/ Stuart G. McRae
  - S591 .M38 1988
- **National soils handbook** / Soil Conservation Service, United States Department of Agriculture
  - MSU GOV DOCS US DOCS, 3 W - A 56.6/2:S0 3/4

**CAREERS:**

- **The career chronicles: An insider's guide to what jobs are really like: The good, the bad, and the ugly from over 750 professionals** Michael Gregory.
  - [Careers in Geoscience: Geologist; Soil Scientist]
  - MSU CAREER COLL 1 EAST - HF5382 .G733 2008
- **Careers in focus. Earth Science, 2nd ed** [Ferguson's careers in focus series]
  - MSU CAREER COLL 1 EAST - QE34 .C37 2008

---

**Urban Ag Reference Works**

- **Starting a Farm in the City: Change Your Community By Growing What You Eat**
  - Discusses the idea of changing your community by what you eat- opportunities to develop a cooperative urban garden/farm. Homemade vegetables, flowers, community spirit and cooperation.
  - The following are free indexes - no subscription needed.
- **Urban Agriculture Notes by City Farmer - Canada's Office of Urban Agriculture** [former site:http://www.cityfarmer.org/]
- **Urban Agriculture**, Alternative Farming Systems Information Center (AFSIC) - USDA

---

**Encyclopedias and Dictionaries**

**Encyclopedias**
This revised and expanded volume focuses on American plants rather than on the British plants featured in the 1989 version. The "Plant Selector" section lists plants appropriate for a wide variety of environments, from plants for clay soil to deer-resistant plants to plants for windbreaks. The "Plant Catalog" organizes 4000 plants by category (trees, shrubs, perennials, climbers, etc.), then by size, season of interest, and color. A "Plant Dictionary" lists more than 8000 plants with advice on their cultivation and propagation. Along with color photographs, which make identification easy and aid in the selection of plants for an environmentally sustainable garden, little diagrams show the height, spread, and shape of each adult plant. Warning symbols indicate toxic plants. Also included are an updated USDA Plant Hardiness Zone Map (with 15 zones) and the AHS Plant Heat Zone Map. An "Index of Common Names" and a glossary round out this comprehensive guide to plant selection and identification. (B&N review)

Contains more than 15,000 plants in 6,000 photographs and illustrations. Plants are arranged alphabetically by their botanical names for fast, straightforward access. All names are completely up to date, and previous names (synonyms) appear as cross-references throughout. Detailed plant profiles describe growth habit, leaf and flower anatomy, plant height and spread, geographical origin, and hardiness. A concise introduction to each genus provides essential details of botanical family, native habitat, number of species, and the ornamental qualities for which the plants are grown, together with succinct advice on cultivation, propagation, and pests and diseases. The full diversity of growth habits within a genus is shown wherever possible, and special close-up panels illustrate the range of flower colors and shapes. (B&N review)


Over 1,000 trees are shown together with cultivar information and a brief history of their introduction to cultivation. Most species have growth, hardiness, wood and choice ratings for those who are interested in both horticultural and commercial forestry applications. Besides paintings of the trees' habits — both summer and winter for deciduous trees — there are detailed paintings of leaves or needles, bark, blossoms, fruit, nuts, or cones. The book explains why so many North American trees have been cultivated in Europe and how forests in the Western Hemisphere are of major importance to British and European landscapes. MSU REFERENCE, 1 CENTER - QK475 .M67 2005


Dictionaries - Standard


Hortus third: A concise dictionary of plants cultivated in the United States and Canada. Written from a botanical point of view for the horticultural community, Hortus Third is a record of the astonishingly rich and diverse flora of cultivated plants of the United States, Canada, Hawaii, and Puerto Rico. It is part of a longstanding program of research, initiated before the turn of the century by Liberty Hyde Bailey, that has given rise to a series of authoritative encyclopedic horticultural works, including Hortus and Hortus Second, published in 1930 and 1941 respectively. Hortus Third accounts for the botanical names of 34,305 families, genera, and species, and a large but uncounted number of subspecies, varieties, forms, and cultivars. Each entry with a description includes the correct botanical name with its author or authors and, as appropriate, botanical synonyms, common names, indication of nativity, and notes on use, propagation and culture, and diagnostic illustrations of representative species of most families, a glossary of botanical terms, and an index to common names. Separate articles deal with important crops, such as blueberries; groups of plants; and methods and materials, such as pruning and soils. As with previous editions, Hortus Third will be for years to come the standard reference to the plants of North American horticulture. [Good Reads review]
Reference Works - General Agriculture

Crop protection handbook [Greenbook CPR].
SB950.9 .C76 ed.25 2009

SB107 .W485 1999

Plant Management Network Education Center

The PMN Education Center offers a growing collection of educational webcast modules for growers, consultants, and other crop professionals. These presentations are ideal for self-training on the protection and production of various crops. The featured webcasts are viewable at no cost. Please visit monthly to see the latest featured webcasts. Archived webcasts require a low-cost subscription, which includes access to all 12 Plant Management Network resources.

Reference Works - General Plant Science, Horticulture, Lanscape Architecture

CAB Reviews
CAB Reviews provides over 3,000 full-text review articles published since 1972 in the area of agricultural biotechnology, animal production, animal breeding, biological control, crop production, forestry, grasslands, human and animal nutrition, post-harvest, soils, and veterinary science.

MSU REFERENCE, 1 CENTER - QK110 .F55 1993 (all vols. currently printed)

MSU REFERENCE, 1 CENTER - SB324.3 .D47 2003

MSU REFERENCE, 1 CENTER - QK100.A1 W34 2008

MSU REFERENCE, 1 CENTER - QK167 .V6 pt.1-3

MSU REFERENCE, 1 CENTER - QK167 .B27 2004 c.2

MSU REFERENCE, 1 CENTER - QK167 .S58 1966

MSU REFERENCE, 1 CENTER - SB472 .L36 2007

MSU ONLINE RESOURCE - SB436 .B373 1993 Online

MSU REFERENCE, 1 CENTER - SB476.5 .S52 1991
Career Books

Career opportunities in agriculture, food, and natural resources / Susan Echaore-McDavid and Richard A. McDavid.
Series: Facts on File's career opportunities series.
MSU CAREER COLL 1 EAST - S494.5.A4 E24 2011

Career opportunities in conservation and the environment / Paul R. Greenland and AnnaMarie L. Sheldon.
MSU CAREER COLL 1 EAST - S945 .G74 2008

Careers for nature lovers & other outdoor types / Louise Miller
MSU CAREER COLL 1 EAST - S945 .M55 2008

Careers for plant lovers & other green thumb types / Blythe Camenson
MSU CAREER COLL 1 EAST - SB50 .C35 2004

Careers in focus [electronic resource] : Landscaping and Horticulture Ferguson, c2008
MSU ONLINE RESOURCE - SB51 .C3744 2008 Online

MSU CAREER COLL 1 EAST - QK50.5 .G37 2007

Green careers: Choosing work for a sustainable future / Jim Cassio & Alice Rush.
MSU CAREER COLL 1 EAST GE60 .C396 2009

MSU TURFGRASS, 3 WEST - SB472.565 .P76 1998 - LIB USE ONLY

“This curriculum was developed following the North American Association for Environmental Education guidelines for excellence in environmental education”
Mod. 1/ Climate change.
Mod. 2/ Sustainable living : making a world of difference with simple actions.
Mod. 3/ Green jobs : integrating career technical training into the green economy.

Now hiring! outdoor jobs: The insider's guide to gaining seasonal and year-round employment in America's national parks and forests Jennifer DuBois and Steve Gutmann.
MSU CAREER COLL 1 EAST - SB482.A4 D8 1994

Opportunities in environmental careers/ Odom Fanning ; foreword by Mark Van Putten
MSU MAIN LIBRARY GE60 .F36 2002

Opportunities in horticulture careers / Jan Goldberg ; foreword by Susan H. Lathrop
MSU MAIN LIBRARY - SB50 .G65 1995

Opportunities in landscape architecture, botanical gardens, and arboreta [electronic resource]/ Blythe Camenson.
SB469.384 .C35 1999eb Online

MSU MAIN LIBRARY - SB50 .F53 1990

Saving the earth as a career : advice on becoming a conservation professional/ Malcolm L. Hunter, Jr., David B. Lindenmayer, and Aram J.K. Calhoun.
MSU CAREER COLL 1 EAST - S945 .H86 2007

So you want to be a garden designer: How to get started, grow, and thrive in the landscape design business Love Albrecht Howard. Timber Press, 2010.
MSU CAREER COLL 1 EAST - SB472.45 .H69 2010

So you want to start a nursery/ Tony Avent.
MSU CAREER COLL 1 EAST - SB118.5 .A83 2003

Your career in Biotechnology Regulatory Services [electronic resource] : safeguarding U.S. agriculture
Series Program aid (United States. Dept. of Agriculture) ; no. 2009.
MSU GOV DOCS ELECTRONIC RESOURCE: A 1.68:2009 Online

Program aid (United States. Dept. of Agriculture) ; no. 1852.
MSU GOV DOCS ELECTRONIC RESOURCE: A 1.68:1852 Online
Many librarians have a set of research guides that they are responsible for keeping up to date, but finding time to devote to this important task can be extremely difficult. As libraries migrate to LibGuides 2.0, many are using this opportunity to study their users’ preferences, implement new policies, and completely refresh their research guide collection. If your library is going through this process, or you are simply planning on using the (relatively) calm summer months to update your research guides, here are ten best practice tips to keep in mind. Create a clean and consistent look. Jennifer Little, Cognitive Load Theory and Library Research Guides, Internet Reference Services Quarterly, Jan.-Mar. 2010, at 53.

**Scholarships, Funding, and Grants**

- **Find Funding - VP for Research and Graduate Studies**
  Provides links to resources where MSU faculty and possibly graduate students can find funding opportunities for projects.

  - **Food, Farm and Garden Funding** by Pamela Burke
    Call Number: S441 .B87 2015
    ISBN: 9781511448062
    Publication Date: 2015-04-15
    With this book you can search among 300+ food, farm and garden supporters to find possible funding partners Bonus sections include information about writing a grant, technical assistance providers and other fundraising methods!

  - **How to pay for your degree in agriculture & related fields** by Schlachter, Gail Ann
    Call Number: MSUL Funding Center: LB2337.2 .H69 ed.4 2012/2014
    Publication Date: 2012/2014 (4th ed)
    Library has 3rd ed. and 4th editions.

  - **A guide to grants, fellowships, and scholarships in international forestry and natural resources [electronic resource]** by Job, Damon A.
    Call Number: A 13.36/2:G 76/2 Online
    Publication Date: 1996
    List of scholarships, grants, and fellowships for study in international forestry from the US Forest Service International Forestry.