



Practical Applications of Soil Health Research – Resources and References

Virginia Biological Farming Conference – January 10-11, 2017 – Hot Springs, VA

General References on Organic Soil Health, Nutrient, and Weed Management

Risk Management Guide for Organic Producers 300 pp (K. Moncada and C. Sheaffer, 2010) Soil health, fertility, crop rotation, weed management <http://organicriskmanagement.umn.edu/>.

Soil and Fertility Management in Organic Farming Systems: Articles and webinars developed through eOrganic. <http://articles.extension.org/pages/59460/soil-and-fertility-management-in-organic-farming-systems>.

Building Soils for Better Crops: Sustainable Soil Management. (F. Magdoff and H. Van Es, 2009, 294 pp). <http://www.sare.org/Learning-Center/Books>

NRCS Soil Health Initiative <https://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>.
Assessment methods: <https://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/assessment/>.
Management Principles: <https://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/mgmt/>.

Cover Crops

Cover Crop page on eXtension. Articles, webinars, videos on cover crops for soil, nutrient, and weed management. <http://articles.extension.org/pages/59454/cover-cropping-in-organic-farming-systems>.

Managing Cover Crops Profitably, 3rd Edition (Clark, A., editor, 2007, Sustainable Agriculture Network, 244 pp). Available at www.sare.org.

Radishes A New Cover Crop for Organic Farming Systems. Gruver, J., R. R. Weil, C. White, and Y. Lawley. 2016 <http://articles.extension.org/pages/64400/radishes-a-new-cover-crop-for-organic-farming-systems>.

Carolina Organic Commodities and Livestock Conference 2012: Selected Live Broadcasts. <http://articles.extension.org/pages/61970/carolina-organic-commodities-and-livestock-conference-2012:-selected-live-broadcasts>.

Increasing Soil Fertility and Health Through Cover Crops (Julie Grossman) –
Soil Fertility Management in Organic Grain Cropping Systems (John Spargo) –
Soil Fertility Management for Organic Wheat Production (John Spargo)

Special Supplement on Legumes as Cover Crops The Natural Farmer, Summer, 2011. <http://www.nofa.org/tnf/Summer2011B.pdf>.

Tight Nutrient Cycling

Jackson, L. 2010. *Soil Microbial Nitrogen Cycling for Organic Farms*.

<http://articles.extension.org/pages/18657/soil-microbial-nitrogen-cycling-for-organic-farms>.

Jackson, L. and T. Bowles. 2013. *Researcher and Farmer Innovation to Increase Nitrogen Cycling on Organic Farms* (Webinar). <http://articles.extension.org/pages/67391/researcher-and-farmer-innovation-to-increase-nitrogen-cycling-on-organic-farms-webinar>.

OREI projects 2004-05207 and 2009-01415, CRIS Abstracts*

Weed Management

Integrated Weed Management: Fine-tuning the System, (Michigan State U Extension, 2008, 131 pp). Crop rotation, cover crops, grazing, flame weeding, and manure/compost management, with examples from working farms. Order at: <http://www.msuweeds.com/publications/extension-publications/iwm-fine-tuning-the-system-e-3065/>.

Managing weeds in vegetables organically, (Hooks, C., A. Leslie, and G. Chen, 2016) Rotation, nutrient and water management, crop variety, transplanting, crop management. [https://extension.umd.edu/sites/default/files/_images/programs/mdvegetables/OrganicWeedMgmtVeg21May2016\(1\).pdf](https://extension.umd.edu/sites/default/files/_images/programs/mdvegetables/OrganicWeedMgmtVeg21May2016(1).pdf)

eXtension Organic Agriculture, Weed Management: Articles and videos on ecological weed management, <http://articles.extension.org/pages/61887/weed-management-topics>

Organic Weed Control in No-Till Systems, (Brust, G., 2014) https://extension.umd.edu/sites/default/files/_docs/articles/OrganicWeedControlUsingNo-till_3-2014_0.pdf. Weed mat on roll-crimped cover for 2 wks suppressed weeds, cover crop regrowth.

Plant Breeding for Organic Systems

Organic Seed Alliance, <http://www.seedalliance.org/> Participatory plant breeding toolkit, other instructional materials, results of variety trials in organic fields, proceedings of biennial Organic Seed Growers Conferences and regional summits.

Mandaamin Institute <http://www.mandaamin.org/> is breeding corn and wheat for optimum nutritional value, N-efficiency, N-fixing capacity, and GOM pollen-excluding traits.

* For project proposal summaries and final reports for USDA funded Organic Research and Extension Initiative (OREI) and Organic Transitions (ORG) projects, enter proposal number under “Grant No” and click “Search” on the CRIS Assisted Search Page at:

<http://cris.nifa.usda.gov/cgi-bin/starfinder/0?path=crisassist.txt&id=anon&pass=&OK=OK>.

In-depth reports on soil health research and practical applications will be posted by the Organic Farming Research Foundation at www.ofrf.org later in 2017.