

Pasture, soil and weed management on organic dairy farms: topics and resources

UW-Madison Center for Integrated Agricultural Systems, with support from Organic Valley Farmers Advocating for Organics

Topic	Publications and online resources
Organic dairy and pasture rule	<p>Guide for Organic Livestock Producers by Linda Coffey and Ann Baier, ATTRA (https://attra.ncat.org/attra-pub/download.php?id=154)</p> <p>Guidelines for Organic Certification of Dairy Livestock (https://nofavt.org/sites/default/files/files/resources/vof_guidelines_for_dairy_and_livestock.pdf)</p> <p>USDA NOP Rules (https://www.ecfr.gov/cgi-bin/text-idx?c=ecfr&sid=3f34f4c22f9aa8e6d9864cc2683cea02&tpl=/ecfrbrowse/Title07/7cfr205_main_02.tpl)</p>
Pasture management, organic	<p>Calculating dry matter intake from pasture, NOP (https://www.ams.usda.gov/sites/default/files/media/5017-1.pdf)</p> <p>Dry matter demand tables for classes of dairy cattle, NOP (https://www.ams.usda.gov/sites/default/files/media/NOP-5017-2-DryMatterDemandTablesforClassesofDairyCattle.pdf)</p> <p>Grazing Season Ration Record by MOSA and USDA (https://mosaorganic.org/images/forms/Master-Cert-Forms/Grazing-Season-Ration-Worksheet.pdf)</p> <p>How to Calculate Pasture Dry Matter Intake on Your Organic Dairy Farm by eOrganic (http://articles.extension.org/pages/28554/how-to-calculate-pasture-dry-matter-intake-on-your-organic-dairy-farm-webinar)</p> <p>Organic Dairy Farming: A Resource for Farmers by Jody Padgham, MOSES</p> <p>The Organic Dairy Handbook, Chapters 4 and 6, edited by Katherine Mendenhall, NOFA-NY (https://www.nofany.org/files/TheOrganicDairyHandbook-2009.pdf)</p>

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<p>Pasture management, organic, cont.</p>	<p>Pasture for Organic Ruminant Livestock: Understanding and Implementing the NOP Pasture Rule by Lee Rinehart and Ann Baier, ATTRA (https://attra.ncat.org/attra-pub/download.php?id=360)</p> <p>Pasture worksheet for rotational stocking/grazing systems, NOP (https://www.ams.usda.gov/sites/default/files/media/NOP-5017-6-PastureWorksheet.pdf)</p> <p>Pastures: Going organic by George Kuepper and Alice Beetz, ATTRA (https://attra.ncat.org/attra-pub/download.php?id=179)</p> <p>Status of Organic Dairy Pasture Forage Composition, Productivity, Soil Fertility and Grazing Management Practices in Wisconsin by Chelsea Zegler, Mark Renz, Matt Ruark and Geoff Brink, UW Extension (https://learningstore.uwex.edu/Assets/pdfs/A4148.pdf)</p>
<p>Pasture management, general</p>	<p>528 Prescribed Grazing Plan Worksheet by USDA NRCS (https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_020238.pdf)</p> <p>The Art and Science of Grazing by Sarah Flack</p> <p>Determining Pasture Yield by Penn State (https://extension.psu.edu/downloadable/download/sample/sample_id/562/)</p> <p>Effect of residue height and timing of grazing on pasture quality, productivity and persistence by Geoff Brink, USDA Dairy Forage Research Center (http://iapreview.ars.usda.gov/sp2UserFiles/Place/50901500/EducationalMaterialsMarch2012/21%20pasture%20effects_2015.pdf)</p> <p>Greener Pastures on Your Side of the Fence by Bill Murphy</p> <p>Grass Productivity by Andre Voisin</p>

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<p>Pasture management, general, cont.</p>	<p>Grazier’s math: Matching forage to animal demand, ATTRA (https://attra.ncat.org/attra-pub/download.php?id=577)</p> <p>Grazing Planning Manual and Workbook, ATTRA (https://attra.ncat.org/attra-pub/download.php?id=577)</p> <p>Grazing wedge online pasture management tool, University of Missouri (http://grazingwedge.missouri.edu/)</p> <p>Identifying pasture grasses by Dan Undersander, Michael Casler and Dennis Cosgrove, UW-Extension (https://learningstore.uwex.edu/Assets/pdfs/A3637.pdf)</p> <p>Identifying pasture legumes by Dennis Cosgrove and Dan Undersander, UW-Extension (https://learningstore.uwex.edu/Assets/pdfs/A3787.pdf)</p> <p>Management Intensive Grazing: The Grassroots of Grass Farming by Jim Gerrish</p> <p>NRCS/GLCI –Wisconsin Prescribed Grazing Practice (Standard 528) Required Documentation Checklist (https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_020467.doc)</p> <p>Pasture Condition Score Sheet by USDA NRCS Grazing Lands Technology Institute (https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb1044237.pdf)</p> <p>Pasture testing, NIRS as tools for dairy grazing management by Thomas Griggs and Patty Laskowski Morren (https://www.progressivedairy.com/topics/feed-nutrition/pasture-testing-nirs-as-tools-for-dairy-grazing-management)</p> <p>Pastures for profit: A guide to rotational grazing by Dan Undersander, et. al UW-Extension (https://learningstore.uwex.edu/Assets/pdfs/A3529.pdf)</p> <p>Prescribed Grazing – Rotational Stocking Animal Forage Balance Worksheet, USDA NRCS Wisconsin (https://www.nrcs.usda.gov/wps/PA_NRCSCConsumption/download?cid=nrcseprd925810&ext=xlsx)</p> <p>Sampling options for Pastoral Farms, Hill Laboratories (https://www.hill-laboratories.com/assets/Documents/Technical-Notes/Agriculture/Hill-Labs-Technote-Sampling-options-Farms-KB3187-v6.pdf)</p>

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Pasture management, general, cont.	<p>Sampling Pastures for Nutritive Analysis by Ed Rayburn, West Virginia University Extension Service (https://extension.wvu.edu/files/d/8183460b-c908-44d5-b9ae-cf8c2bb7470d/sampling-pastures.pdf)</p> <p>Visual reference guide for estimating legume content in pastures by Edward Rayburn and James Green (https://dl.sciencesocieties.org/publications/fg/pdfs/12/1/FG-2011-0176-DG)</p>
Pasture establishment and renovation, organic	<p>Frost seeding: a cheap alternative to improve hay and pasture land, eOrganic (http://articles.extension.org/pages/64559/frost-seeding:-a-cheap-alternative-to-improve-hay-and-pasture-land)</p> <p>Organic dairy pastures by Yoana Newman, UW River Falls (https://www.midwestforage.org/pdf/1091.pdf.pdf)</p>
Pasture establishment and renovation, general	<p>Frost seeding of forages by Dan Undersander, UW-Extension (https://fyi.uwex.edu/forage/files/2017/02/Frost-Seeding-of-Forages-1.pdf)</p> <p>Forage Variety Update for Wisconsin-2017 trial results by Dan Undersander, et. al., UW-Extension (learningstore.uwex.edu/assets/pdfs/A1525.PDF)</p> <p>Pasture renovation, University of Delaware (http://pss.uvm.edu/pdpforage/Materials/EstablishmentRenovation/Pasture_Renovation_Factsheet_Un_De_l.af-08.pdf)</p>
Grazing season extension, organic	<p>Forage Quality of Two Different Pasture Systems Incorporating Warm and Cool Season Forages for Grazing Organic Dairy Cattle by Brad Heins and Kathryn Ruh, University of Minnesota (www.wiagribusiness.org/fourstatedairy/2016/12_Heins.pdf)</p> <p>Organic Dairy Forages: Focus on Summer Annuals by eOrganic (http://articles.extension.org/pages/68106/organic-dairy-forages:-focus-on-summer-annuals)</p> <p>Stockpiling Forages to Extend the Grazing Season on Your Organic Dairy Webinar by eOrganic (http://articles.extension.org/pages/59789/stockpiling-forages-to-extend-the-grazing-season-on-your-organic-dairy-webinar-by-eorganic)</p>

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Grazing season extension, organic, continued	Using Small Grains as Forages on Your Organic Dairy Webinar by eOrganic (http://articles.extension.org/pages/54434/using-small-grains-as-forages-on-your-organic-dairy-webinar)
Grazing season extension, general	Extending grazing and reducing stored feed needs by Don Ball, et.al., UW Extension A3902 (learningstore.uwex.edu/Assets/pdfs/A3902.pdf)
Pasture soil management, organic	<p>Amending soils in the organic dairy pasture webinar, eOrganic (http://articles.extension.org/pages/68131/amending-soils-in-the-organic-dairy-pasture)</p> <p>Finding a cost effective, persistent legume for Wisconsin pastures, CIAS Research Brief 85 (http://www.cias.wisc.edu/wp-content/uploads/2011/07/rb85final-1.pdf)</p> <p>Healthy soils for a healthy organic dairy farm broadcast, eOrganic (http://articles.extension.org/pages/61289/healthy-soils-for-a-healthy-organic-dairy-farm-broadcast-from-2011-nofa-ny-organic-dairy-conference)</p> <p>The Organic Dairy Handbook, Chapter 3, edited by Katherine Mendenhall, NOFA-NY (https://www.nofany.org/files/TheOrganicDairyHandbook-2009.pdf)</p> <p>Soil management: National Organic Program Regulations by Barbara Bellows, ATTRA (https://attra.ncat.org/attra-pub/download.php?id=180)</p> <p>Soil management for better fertility on organic livestock farms, eOrganic (http://articles.extension.org/pages/18323/soil-management-for-better-fertility-on-organic-livestock-farms)</p> <p>Soil quality in grazing systems by Mark Kopecky, UW-Extension (https://fyi.uwex.edu/grazres/files/2011/05/Soil-Quality-in-Grazing-Systems-Kopecky.pdf)</p>
Pasture soil management, general	<p>Assessing the Pasture Soil Resource by Preston Sullivan and Hannah Sharp, ATTRA (for sale here https://attra.ncat.org/attra-pub/summaries/summary.php?pub=181)</p> <p>Building healthy pasture soils by Lee Rinehart, ATTRA (https://attra.ncat.org/attra-pub/download.php?id=580)</p>

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<p>Pasture soil management, general, continued</p>	<p>Nutrient cycling in pastures by Dave Scott and Nina Prater, ATTRA (https://attra.ncat.org/attra-pub/download.php?id=240)</p> <p>Outwintering dairy cattle: manure management issues, CIAS Research Brief 28 (http://www.cias.wisc.edu/outwintering-dairy-cattle-manure-management-issues/)</p> <p>Pasture Soil Health Toolkit by Robert Bauer and Kirsten Jurcek, Southwest Badger RC & D (http://www.swbadger.org/uploads/7/1/5/3/7153853/2017-12-23_draft_pasture_soil_health_toolkit_robert_bauer.pdf)</p> <p>Soil Fertility Guidelines for Pastures in Wisconsin by Carrie Laboski and Kevin Shelley, UW-Extension (https://learningstore.uwex.edu/Assets/pdfs/A4034.pdf)</p>
<p>Pasture weed management, organic</p>	<p>Organic weed management on livestock pastures webinar by eOrganic (http://articles.extension.org/pages/63411/organic-weed-management-on-livestock-pastures-webinar-by-eorganic)</p>
<p>Pasture weed management, general</p>	<p>The dirty dozen and beyond: Identifying and managing 25 pasture weeds of Wisconsin by Jerry Doll, Peggy Compton and Rhonda Gildersleeve, UW-Extension (https://learningstore.uwex.edu/Assets/pdfs/GWQ042.pdf)</p> <p>Fall grazing management affects burdock populations in pastures, CIAS Research Brief 84 (http://www.cias.wisc.edu/wp-content/uploads/2011/01/rb84.pdf)</p>
<p>Training</p>	<p>How to conduct research on your farm or ranch by SARE (https://www.sare.org/Learning-Center/Bulletins/How-to-Conduct-Research-on-Your-Farm-or-Ranch)</p> <p>Mentor-Intern Handbook for Dairy and Livestock Farmers by CIAS (http://www.cias.wisc.edu/wp-content/uploads/2013/01/mentorinternfinal.pdf)</p> <p>The Farmer Field Day Toolkit by SARE (https://www.sare.org/Learning-Center/Topic-Rooms/The-Farmer-Field-Day-Toolkit)</p>

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General resources	<p>ATTRA (https://attra.ncat.org/)</p> <p>eXtension.org and eorganic resources on grazing management: http://articles.extension.org/pages/59464/grazing-management-on-organic-farms and on dairy nutrition: http://articles.extension.org/pages/68589/nutrition-of-the-organic-dairy-herd</p> <p>Graze magazine (http://www.grazeonline.com/)</p> <p>Midwest Organic and Sustainable Education Service (MOSES)/Organic Broadcaster (https://mosesorganic.org/)</p> <p>Northeast Organic Dairy Producers Alliance (NODPA) (http://www.nodpa.com/)</p> <p>On Pasture (https://onpasture.com/)</p> <p>Rodale Institute (https://rodaleinstitute.org/)</p> <p>The Stockman Grass Farmer (https://www.stockmangrassfarmer.com/index.php)</p> <p>USDA NRCS (https://www.nrcs.usda.gov/wps/portal/nrcs/site/national/home/)</p> <p>USDA SARE (https://www.sare.org/)</p> <p>UW-Extension (https://www.uwex.edu/)</p> <p>UW-Madison CIAS (http://www.cias.wisc.edu/)</p> <p>UW-Madison Organic (http://www.uworganic.wisc.edu/)</p>