

# Agriculture & Livestock Publications



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# Who we are

**W**elcome to the **University of Maine Cooperative Extension!** We are located across the state in 16 county offices, research farms, 4-H camps, and online. We are the largest outreach component of the University of Maine and reach more Maine people than any other entity within the seven campus University of Maine System. Our work is focused on two areas of excellence. UMaine Cooperative Extension conducts the state's most successful out-of-school youth education program through **4-H**, empowering young people to reach their full potential. Extension also helps support, sustain, and grow the food-based economy across the entire state of Maine. We are the only entity in our state that touches every aspect of the **Maine Food System**, where policy, research, production, processing, commerce, nutrition, and food security and safety are integral and interrelated.

UMaine Cooperative Extension is determined to make a positive difference in our areas of excellence for the citizens of Maine. Explore our website, visit a county office, and contact our enthusiastic workforce.

— John Rebar, Executive Director



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***The publications and books in this catalog were either developed or reviewed by land-grant university faculty. We offer some materials produced by nonuniversity sources because they may be of interest to the people we serve; however this does not imply support or endorsement by the University of Maine.***

## GENERAL AGRICULTURE

**Adding a High Tunnel to Your Maine Farm: Observations from a Statewide Study**  
Item #1026 \$1.00

In 2011, University of Maine Cooperative Extension staff visited 31 Maine farmers to talk about their high tunnel production practices, benefits, and challenges. This four-page publication is based on some of the results and observations that can help farmers effectively plan for and use high tunnels to increase profitability. 4 pp. © 2013

**An Introduction to Using Site-Specific Farming to Manage Field Variability**  
Item #1080 \$0.50

Site-specific farming has the potential to increase farm income and resolve environmental issues, thus easing farm management decisions. Whether you are farming conventionally or organically, sustainability can be achieved through precision agriculture, with its site-specific approach. This fact sheet will lead you through what you need to know to adopt the site-specific approach. 4 pp. © 2016

**Building a Sustainable Business: A Guide to Developing a Business Plan for Farms and Rural Businesses**  
Item #1175 \$17.00

Written to bring the business planning process alive to help today's alternative and sustainable agriculture entrepreneurs transform farm-grown inspiration into profitable enterprises. Sample worksheets illustrate how real farm families set goals, researched processing alternatives, determined potential markets, and evaluated financing options. Includes blank worksheets help the reader develop a detailed, lender-ready business plan. 280 pp. © 2003

**Building Soils for Better Crops**  
Item #1171 \$20.95

Learn the secret of maintaining a diverse ecosystem below ground to foster healthy crops above. Ecological soil management, as detailed by the soil experts who wrote the book, can raise fertility-and yields- while reducing environmental impacts. Topics explored include increasing soil organic matter, appropriate tillage, animal manures, making and using composts, integrating cover crops into rotations, reducing erosion, and avoiding soil compaction. Also includes practical information such as interpreting soil test results. 240 pp. 3rd edition, © 2009

**Crop Rotation on Organic Farms**  
Item #1176 \$24.00

A valuable resource for farmers, educators, students, and professionals interested in the do's, don'ts, how's, and why's of crop rotation. Includes instructions for making rotation planning maps and discusses the transition to organic farming. 154 pp. © 2009.

**Direct Marketing of Farm Produce and Home Goods**  
Item #2300 \$1.50

Offers direct marketing alternatives and strategies for beginning and established producers. Covers pick-your-own, roadside markets, farmers markets, CSAs, home delivery, selling to stores and restaurants, and more. 25 pp. © 1995

**Earthen Manure Storage Design Considerations**  
Item #1166 \$18.00

For producers, engineers, and design professionals, this book covers environmental policies; design standards and planning documents; manure characteristics; storage planning; storage design; construction; management; and liability. 26 illustrations and 14 tables. 100 pp. © 1999

**Farming Alternatives: A Guide to Evaluating the Feasibility of New Farm-Based Enterprises**  
Item #1036 \$15.00

Written to help rural and farm residents evaluate the feasibility of alternative enterprises. The case study and workbook format helps in evaluating personal and family considerations, resources, market potential, production feasibility, profitability, cash flow, and all factors combined. Also offers research sources for enterprise ideas. 88 pp. © 1988

**Field Guide to On-Farm Composting**  
Item #1165 \$20.00

128-page book for day-to-day compost system management. Spiral bound with a laminated cover. Covers operations and equipment; raw materials and recipe making; process control and evaluation; site considerations, environmental management and safety; composting livestock and poultry mortalities; and compost utilization on the farm. Includes an equipment identification table, windrow diagrams, examples, equations for recipe making and compost use estimation, a troubleshooting guide, and 24 full-color photos. Intended as a companion to the On-Farm Composting Handbook above. 128 pp. © 1999

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## Poultry

**Match Your Need to the Right Breed: Choosing a Bird for the Home Flock**  
Item #2104 \$0.75

Provides guidance on finding the appropriate breed to suit your purpose. Discusses strains or crosses for brown, dark-brown, white, and tinted egg layers; strains or crosses for meat production; dual-purpose breeds; exhibition breeds; bantams; turkeys; ducks; geese; and guineas. 5 pp. © 2009

**Poultry--Egg Production**  
Item #1203 \$0.75

This checklist can help you determine what you know and what you need to know about poultry egg production. Covers breed selection, brooding and chick care, chicken health and nutrition, pullets, management practices, facilities, manure, culling, food safety, and financial concerns. 4 pp. © 2009

**Storeys Guide to Raising Chickens**  
Item #2234 \$19.95

Gail Damerow. Described by Ron Macher of Small Farm Today magazine as "the best single book on chicken raising I have seen," this comprehensive guide covers choosing, housing, feeding, and managing a flock of meat birds or layers, as well as collecting and storing eggs, incubation and hatching, chick care, health care, and preparing chickens for show. 352 pp. 2010

More poultry fact sheets online  
[extension.umaine.edu/catalog/](http://extension.umaine.edu/catalog/)

**Guide to Veteran-to-Farmer Training Pilot Program Resources in Maine**  
Item #2432 Free!

In 2013, the Maine State Legislature passed LD 409, a Resolve to Establish a Veteran-to-Farmer Training Pilot Program, the purpose of which was to capture the richness of opportunities in Maine for veterans to receive comprehensive training and education on careers in the agriculture. This is a guide to training and education resources to pursue careers in the agriculture. 4 pp. © 2015

**Maine Season Extension Options: Making the Right Choice for Your Farm**  
Item #1022 \$1.50

Techniques allow you to grow your products for longer than they can be grown under typical field conditions in your area. In the Northeast, these techniques focus on getting a crop to produce earlier or continue later in the season. This publication will explore various options and techniques that best fit your farm. 8 pp. © 2012

**Managing Alternative Pollinators: A Handbook for Beekeepers, Growers, and Conservationists**  
Item #1038 \$23.50

This is a first-of-its-kind, step-by-step, full-color guide for rearing and managing bumble bees, mason bees, leafcutter bees, and other alternatives to honey bee pollinators. Over 130 color photos, nest construction details, parasite and disease management guidelines and a sample contract. 162 pp. 2010.

**Managing Cover Crops Profitably, 3rd Edition**  
Item #1173 \$19.00

Managing Cover Crops Profitably explores how and why cover crops work, and provides information needed to build cover crops into any farming operation. Includes detailed management information on the most commonly used species, including grasses, grains, brassicas and mustards, and legumes. Includes appendices on seed suppliers and regional experts. 244 pp. © 2007

**Managing Insect Pests of Sweet Corn**  
Item #5101 \$1.75

Describes monitoring, scouting, and pest control procedures for the three major insect pests of sweet corn in New England: European corn borer, corn

earworm, and fall armyworm. Includes insert with 12 color photographs as well as sturdy chart with spray thresholds to post near your sprayer. 8 pp. © 1996

**Maple Syrup Quality Control Manual**  
Item #7038 \$1.50

This maple syrup producers' manual presents production techniques to ensure high quality maple syrup and syrup products. Discusses equipment care and quality, cleanliness, the sap collection process, sap processing, and packing. Includes appendix with relevant Maine regulations. 13 pp. © 2002, 2007

**On-Farm Composting Handbook**  
Item #1157 \$25.00

This blue-ribbon handbook, used as a college textbook, presents a thorough overview of farm-scale composting and how to produce, use, and market compost-for farmers, waste producers, environmental regulators, and public health officials. Topics covered include benefits and drawbacks, the process, raw materials, methods, operations, management, site and environmental considerations, using compost, marketing, economics, and other options for waste management. 55 figures, 32 tables, calculations, references, and a glossary. © 1992

**Plant Hardiness Zone Map of Maine**  
Item #2242 \$0.75

Discusses microclimates and environmental factors that affect plant growth. 4 pp. © 1991, 2006

**Production of Vegetables, Strawberries, and Cut Flowers Using Plasticiculture**  
Item #2183 \$24.00

Covers plastic mulch, drip irrigation, fertigation, season extension, windbreaks, crop establishment, weed management, soil sanitation, and managing used plastics. Strawberry and cut flower production systems are described in depth. 156 pp. © 2004

**Pumpkin Production Guide**  
Item #2425 \$39.00

A must-have for new and experienced pumpkin growers, serious gardeners, and agricultural advisors. This book covers the basics of pumpkin production as well as cutting-edge research. Twelve chapters offer practical information for preparing the field, evaluating varieties, and choosing the best cultural practices; groundbreaking

insight into fruit set and pollination to help growers maximize yields; descriptions for identifying and controlling weeds, insects, diseases, and wildlife pests; ways to maintain postharvest quality; and sample budgets and marketing ideas. Over 115 color photos. 152 pp. © 2003

#### **So You Want to Farm in Maine?**

Item #2433 \$0.50

Have you ever thought about moving to a farm and wondered whether it's really the right life for you and your family? Answering the questions in this bulletin related to the realities of farming in Maine will help you decide. 4 pp. © 2008

#### **Soil Organic Matter**

Item #2288 \$0.50

This fact sheet describes the composition and effects of organic matter, as well as how various farming practices can reduce or increase organic matter in the soil. 2 pp. © 2004

#### **Starting & Running Your Own Small Farm Business**

Item #1035 \$19.95

The demand for fresh, local, sustainably produced small-farm products is growing. Covers business plans, market research, financing, regulations, asset protection, pricing, selling venues, and growing your business. Includes profiles of successful small farm businesses, as well as checklists and sample contracts and forms. 175 pp. © 2007

#### **Storage Conditions: Fruits and Vegetables**

Item #4135 \$1.25

Explains post-harvest management of commercial horticultural crops to minimize loss and maximize storage life and quality. Discusses relative humidity and temperatures; includes chart with storage conditions and storage time periods for 85 fruits and vegetables. 8 pp. © 2001

#### **Sustainable Vegetable Production from Start-Up to Market**

Item #1164 \$38.00

Learn moderate-scale vegetable production using ecological practices that minimize the need for synthetic inputs. Addresses planning, launching, and managing a vegetable production business; farm business management; marketing; soil fertility; composting;

crop rotation; cover crops; tillage equipment and field preparation; seeds and transplants; irrigation and spraying systems; harvest and post-harvest handling; season extension; and integrated pest management. Includes 32 grower profiles, 91 illustrations, 20 tables, 6 appendixes, a glossary, and extensive references. 280 pp. © 1999

#### **Testing Small-Grain Germination**

Item #1013 \$0.50

Growers of small grain crops normally calibrate planting equipment to achieve specific plant populations per acre. Provides some basic guidance on germination testing for the purpose of adjusting planting rate to achieve desired plant stands. 2 pp. © 2013

#### **Testing Your Soil**

Item #2286 \$0.50

Learn how and when to take a soil sample and what information a soil test can give homeowners, gardeners and farmers. Includes video for online viewing. 2 pp. © 1994, 2008

#### **The New American Farmer: Profiles of Agricultural Innovation**

Item #1174 \$16.95

"The New American Farmer" is a collection of in-depth interviews and photographs from farmers and ranchers from Hawaii to Maine who have embraced new approaches to agriculture. 160 pp. 2nd edition, 2005

#### **Trickle Irrigation in the Eastern United States**

Item #1125 \$6.00

Trickle systems ensure that plants have adequate water at all times, and require less water, energy and labor than other systems. Covers system components and planning details; guidelines for irrigating different kinds of crops. Includes information about water requirements, emitters and irrigation time, designing laterals and submains, and preventing line clogging. 24 pp. © 1985

#### **Using Wood Ash on Your Farm**

Item #2279 \$1.25

This bulletin discusses both the benefits and the problems of using wood ash. Includes research on nutrients in wood ash, effects of wood ash on soil nutrient levels, and effects of wood ash on plant growth. 8 pp. © 1993, 2004, 2006

#### **Vegetable Gardens and Septic Fields Don't Mix**

Item #2442 \$1.00

Explains why septic system disposal fields are unsuitable garden sites and offers homeowners and gardeners better choices for covering disposal fields. 4 pp. © 2012

#### **Vegetable Varieties for Maine**

Item #2190 \$0.50

Details commonly available vegetable varieties that are well-suited to Maine's climate. 2 pp. © 2006

#### **Why Consumers Buy---and Dont Buy---Your Farm Direct Products**

Item #1160 \$2.00

The findings from this watershed survey are presented and analyzed in this publication. 12 pp. © 2005

## **COMMERICAL HORTICULTURE**

#### **Greenhouse Engineering**

Item #1050 \$30.00

Describe structures, the greenhouse environment, and energy conservation. Includes plans for noncommercial greenhouses, access for the handicapped, and remodeling existing greenhouses. Appendix includes conversion tables and worksheets for performing calculations. 260 pp. © 1994

#### **Greenhouses for Homeowners and Gardeners**

Item #1051 \$30.00

200-page book with sample calculations, greenhouse plans and 150+ line drawings. Covers construction planning, framing materials, glazing, layouts, equipment, environmental control, and selection of kits. Also discusses window greenhouses, growth chambers and garden structures. © 2000

**Herbaceous Perennials Production:  
A Guide from Propagation to**

**Marketing**

Item #2435 \$27.00

Comprehensive guide to growing perennial plants is for perennial growers as well as people who are thinking about getting involved in the industry. It focuses on nursery and greenhouse production of field or container perennials, but the greenhouse plug and bedding plant methods of perennial production are covered as well. The extensive appendices on propagation and pests will prove useful to all who grow perennials, whether commercially or at home. 208 pp. © 1998

**Landscape Plants for Vermont**

Item #2603 \$17.50

This book for Vermont residents is perfect for Maine yards and gardens as well. Select trees, shrubs, vines, and woody ground cover plants appropriate to a northern New England climate and landscape. Spiral-bound book includes suggested native plants and attractive line drawings. 104 pp. © 2002 edition.

**The Best Plants for New Hampshire  
Gardens and Landscapes: How to  
Choose Annuals, Perennials, Small  
Trees & Shrubs to Thrive in Your  
Garden**

Item #2602 \$12.95

Uses habitat gardening to help gardeners and landscapers choose and care for plants for the New Hampshire environment. Ideal for use in Maine as well. Includes lively, easy-to-read text, useful charts, pen and ink illustrations, black & white photos of selected plants, sections on plant selection and care, specialty plant lists, and an index for easy referencing. 96 pp. © 2003

## FORAGES & PASTURES

**An Introduction to Using Site-Specific  
Farming to Manage Field Variability**

Item #1080 \$0.50

Site-specific farming has the potential to increase farm income and resolve environmental issues, thus easing farm management decisions. Whether you are farming conventionally or organically, sustainability can be achieved through precision agriculture, with its site-specific approach. This fact sheet will lead you through what you need to know to adopt the site-specific approach. 4 pp. © 2016

**Barley Scald**

Item #1015 \$0.50

Barley scald is a common disease on barley in Maine as well as worldwide. Learn about its biology, symptoms and how to manage the disease. 2 pp. © 2014

**Building Soils for Better Crops**

Item #1171 \$20.95

Learn the secret of maintaining a diverse ecosystem below ground to foster healthy crops above. Topics explored include increasing soil organic matter, appropriate tillage, animal manures, making and using composts, integrating cover crops into rotations, reducing erosion, and avoiding soil compaction. Also includes practical information such as interpreting soil test results. 240 pp. 3rd edition, © 2009

**Controlling Smooth Bedstraw in  
Hayfields and Pastures**

Item #2278 \$0.50

The perennial smooth bedstraw is a competitive, invasive species that can significantly reduce the yields of hayfields. Discusses key management strategies. 6 pp. © 2008

**Cover Cropping for Success**

Item #1170 \$1.25

Cover crops are used to improve soil health and fertility, provide beneficial insect habit and reduce weed pressure. Covers species selection, seeding rates and how best to manage the crop for success. 8 pp. © 2017

**Crop Rotation on Organic Farms**

Item #1176 \$24.00

This manual provides an in-depth review of the applications of crop rotation-including improving soil quality and health, and managing pests, diseases, and weeds. Includes instructions for making rotation planning maps and discusses the transition to organic farming. 154 pp. © 2009

**Ergot of Barley and Other Small  
Grains**

Item #1014 \$0.50

Ergot is a disease of cereal crops and grasses caused by a fungus. Learn about the biology, symptoms, and © 2013

**Forage Production for Pasture-  
Based Livestock Production**

Item #2205 \$25.00

Covers plant morphology (and effects on management), ecology of plant communities in forage-livestock systems; soil fertility and fertilizers; nutrient management; environmental impacts of grazing; pests, weeds, and diseases; and establishing forage stands. 141 pp. © 2006







**Growing Elderberries: A Production Manual and Enterprise Viability Guide For Vermont and The Northeast**

Item #2069 \$15.00

This guide is for people with an interest in growing elderberry for profit, and is intended to help them determine if elderberry is the right commercial crop for them. Covers elderberry basics, cultivars, site preparation and establishment, maintenance, harvesting, post-harvest handling and processing, marketing and making value-added products. 97 pp. © 2016

**Growing Grapes in Wisconsin**

Item #2064 \$4.00

This award-winning manual offers detailed instructions on how to successfully grow grapes. Our UMaine Extension vegetable and small fruit specialist finds this publication ideal for use in Maine as well. Covers selecting the best cultivars for your growing conditions, illustrates a variety of trellis designs and proper pruning techniques, and suggests ways to limit or prevent damage from insects and diseases. 25 pp. © 2006

**Growing Highbush Blueberries**

Item #2253 \$0.75

This introduction to highbush blueberry production covers site selection and preparation, planting, care, pest management, pruning, and harvesting, and suggests varieties suited to northern New England. Includes instructional video for online viewing. 3 pp. ©1992, 2008

**Growing Peaches in Maine**

Item #2068 \$1.00

Peaches are a highly desired fruit in Maine. Learn what varieties are recommended, when and where to plant, common diseases, pruning techniques and more! Color photos included. 6 pp. © 2014

**Growing Raspberries and Blackberries**

Item #2066 \$1.00

For home gardeners and commercial farmers, describes site selection, soil preparations, suggested varieties, pruning, harvesting and insect and disease management. 6 pp. © 2006

**Growing Strawberries**

Item #2067 \$1.00

Explains site selection, preparation, planting, insect control; illustrations show proper plant spacing. For home gardeners and commercial farmers. Includes instructional videos for online viewing. Includes instructional video for online viewing. 6 pp. © 2003, 2011

**Highbush Blueberry Production Guide**

Item #2270 \$42.00

This 200-page guide for commercial growers includes color photos and comes in a 3-ring binder. Information is included on all aspects of blueberry production, from site preparation through plant selection, planting, plant training, pest and disease control, nutrient and moisture management, harvest, marketing and economics. 200 pp. © 1992

**Maine Cranberry Insect Calendar**

Item #2520 \$3.00

For cranberry growers. Sturdy, 8.5" x 14" 4-page publication identifies monthly cranberry insect indications, action thresholds and recommended scouting methods from May through August. Includes color photos of pests and a bar chart showing pest activity May through August. © 2001

**Peach Leaf Curl**

Item #5098 \$0.50

Peach leaf curl occurs commonly in Maine, affecting both nectarines and peaches. This pest management fact sheet describes symptoms, survival, dispersal and control. 1 pp. © 2010

**Planting and Early Care of Fruit Trees**

Item #2411 \$1.00

Explains when to plant fruit trees in New England and how best to dig and fill the holes. Discusses care and pruning, weed control, and pest management. 4 pp. © 1997

**Plum Production in Maine**

Item #2034 \$3.50

The resurgence in demand for locally-grown fresh fruit has created an opportunity for Maine farmers to grow and sell plums. Covers plum varieties, planting, harvesting, and much more! 20 pp. © 2017

**Propagation of Plants by Grafting and Budding**

Item #2065 \$3.50

Discusses factors that influence grafting and budding success and describes kinds of grafts, budding methods, topworking and repair. Includes photos and a table of selected plants that can be propagated by budding or grafting and common methods and rootstocks for each. Recently updated, color photos. 18 pp. © 1996, 2011

**Raspberry and Blackberry Production Guide for the Northeast, Midwest, and Eastern Canada**

Item #2158 \$37.00

Site selection and preparation, trellising and pruning, nutrient management, harvesting, irrigation, pesticides, budgeting, and marketing. Also field production, high tunnel production, and greenhouse production. Descriptions of more than 70 cultivars including summer-fruiting red, black, and purple raspberries; fall-fruiting red and yellow raspberries; thornless, thorny, and fall-fruiting blackberries, and hybrid berries. 134 color photos, 36 line drawings. 157 pp. © 2008

**Raspberry and Blackberry Varieties for Maine**

Item #2172 \$0.50

This bulletin discusses types of brambles, propagation, how to choose stock and plant. Describes 40 varieties of raspberries and blackberries. For home gardeners and commercial growers. Includes instructional video for online viewing. 5 pp. © 2009

**Renovating Old Apple Trees**

Item #2409 \$0.50

This fact sheet is on pruning and fertilizing neglected apple trees. Includes instructional video for online viewing. 2 pp. © 2002

**Safe Home Cider Making**

Item #4191 \$0.50

Outbreaks of food-borne illness have been attributed to drinking contaminated cider. This fact sheet provides basic guidelines for safe home cider production. 2 pp. © 2011



**Strawberry Production Guide for the Northeast, Midwest and Eastern Canada**

Item #2431 \$45.00

This 160-page guide on strawberry culture is a comprehensive resource for commercial growers. Chapters cover site selection and preparation; production systems; temperature regulation; water, soil, and nutrient management; pest, disease, and weed management; and harvesting, transporting, and marketing fruit. Includes floppy disks with a strawberry profit spreadsheet template (for both Mac and IBM-compatible systems). Includes 19 pages of color photos. 160 pp. © 1998

**Strawberry Varieties for Maine**

Item #2184 \$0.75

This bulletin for small-scale fruit growers identifies plant varieties with respect to disease resistance, fruit flavor and growing characteristics. 4 pp. © 2008

**Tree Fruit Field Guide to Insect, Mite, and Disease Pests and Natural Enemies of Eastern North America**

Item #2423 \$38.00

Contains more than 500 color photos for identification of pestilent insects, mites, and diseases in the orchard, as well as beneficial insects, spiders, and mites. For growers, master gardeners, home gardeners, educators, scientists, and students. 238 pp, © 2006

**GRAINS & OILSEEDS**

**Barley Scald**

Item #1015 \$0.50

Barley scald is a common disease on barley in Maine as well as worldwide. Learn about its biology, symptoms and how to manage the disease. 2 pp. © 2014

**Ergot of Barley and Other Small Grains**

Item #1014 0.50

Ergot is a disease of cereal crops and grasses caused by the fungus *Claviceps purpurea*, which infects developing grains. Learn about the biology, symptoms, and management of this disease. 2 pp. © 2013

**Fusarium Head Blight (Head Scab of Barley)**

Item #1028 \$0.50

Fusarium head blight, or head scab of barley, is a devastating disease of small-grain cereals worldwide. The disease is caused by several fungi in the species *Fusarium*, most commonly *Fusarium graminearum* (*Gibberella zeae*). Learn about its biology, symptoms, and management. 3 pp. © 2014

**Grain Storage Safety**

Item #2291 \$0.75

This bulletin outlines safety guidelines for grain bins, augers, elevators, grain wagons and forage blowers. Discusses how to prevent entrapment and suffocation, and deal with mold and grain dusts. See item #2365 for the entire Maine Farm Safety Program. 4 pp. © 2003

**Growing Organic Barley in Maine**

Item #1027 \$1.00

Barley is grown in Maine for livestock feed and, to a lesser extent, for malt production. Maine's cool climate and generally uniform rainfall favor spring barley production. Learn about markets, field selection, crop rotation, and much more from the experts. 8 pp. © 2013

**Growing Organic Cereal Grains in New England**

Item #2207 \$1.00

There is increasing demand for organic grains for human consumption as well as dairy feed. Discusses organic certification, soil and site conditions, seed, fertility, planting, fall versus spring crops, and harvest and storage. 6 pp. © 2010

**Loose Smut of Barley and Oat**

Item # 1016 \$0.50

Loose smut of barley is caused by the fungus *Ustilago nuda* and occurs virtually everywhere barley is grown. Learn about its biology, symptoms and how to manage the disease. 2 pp. © 2014

**Sooty Mold of Barley and Other Small Grains**

Item #1020 \$0.50

Sooty mold of barley and other small grains can be caused by a number of fungal species. Learn the symptoms and how to manage the disease. 2 pp. © 2014

**Spring Canola: An Oilseed Crop for**

**Potato Growers**

Item #2438 \$0.75

Covers planting conditions, seeding, seedbed preparation, soil conditions, weed and insect control, and more. Includes canola enterprise budget. 4 pp. © 2003

**Testing Small-Grain Germination**

Item #1013 \$0.50

Growers of small grain crops normally calibrate planting equipment to achieve specific plant populations per acre. Provides some basic guidance on germination testing for the purpose of adjusting planting rate to achieve desired plant stands. 2 pp. © 2013

**Understanding Wheat Quality - What Bakers and Millers Need, and What Farmers Can Do**

Item #1019 \$1.00

Discusses the quality measures that millers and bakers evaluate to determine if a certain lot of wheat grain is suitable for bread flour, and key practices farmers can use to produce wheat that meets those standards. 8 pp. © 2012

**POTATOES**

**Application Equipment for Potato Post-Harvest Disease Control**

Item #2443 \$1.00

Late blight and pink rot are two devastating potato tuber diseases. Learn more about calibrating application equipment precisely and applying the correct rate of material in the proper volume of carrier. 4 pp. © 2013

**Bacterial Ring Rot**

Item #5003 \$0.75

This fact sheet with color photos discusses this long-feared potato disease. 4 pp. © 1982

**Blackleg and Bacterial Soft Rot**

Item #2493 \$1.25

These diseases can cause losses in the field and in potato storages; they are caused by different, but closely related bacteria. Discusses transmission, susceptibility, symptoms and control of blackleg and softrot. Includes color photos. 4 pp. © 2015

**Colorado Potato Beetle**

Item #5012 \$0.50

Discusses the life cycle, alternative hosts, monitoring and control of this insect. 2 pp. © 2003

**Common Scab Disease of Potatoes**

Item #5012 \$0.50

Learn about the transmission, symptoms and control of common scab disease 2 pp. © 2010

**How to Calibrate Air Harvesters for Maine Conditions**

Item #5012 \$0.50

Calibration information for harvesting potatoes includes harvester bed speed chart. 2 pp. © 1997

**Insecticide Resistance in Colorado Potato Beetles**

Item #2443 \$1.00

Colorado potato beetles have an unusual capacity to develop resistance to a wide range of pesticides. They can cause significant crop loss, quickly defoliating potato fields. Learn how you can prevent or reduce insecticide resistance in Colorado potato beetles by using specific management practices. 8 pp. © 2008

**Irrigating Potatoes in Maine**

Item #2443 \$1.00

Learn about factors affecting soil water availability, seasonal fluctuations in crop water use, how drought stress develops and how it affects yield, disease issues, irrigation recommendations, and how to monitor soil moisture. 8 pp. © 2008

**Late Blight Prediction in Maine**

Item #2418 \$0.75

Potato late blight can cause severe crop losses. Learn about the transmission, symptoms and control of potato late blight. Color photos. 4 pp. © 2010

**Potato Diseases Caused by PVY and PLRV**

Item #2492 \$0.75

Potato diseases caused by viruses can cause severe losses. Learn about the transmission, symptoms and control of potato virus Y (PVY) and potato leaf roll virus (PLRV). Color photos included. 2 pp. © 1999

**Potato Late Blight**

Item #2441 \$1.25

Potato late blight can cause severe crop losses. Learn about the transmission, symptoms and control of potato late blight. Color photos. 4 pp. © 2010

**Potato Mop-Top Virus**

Item #2437 \$1.25

Explains the history, biology, symptoms and control of PMTV as well as the relationship between powdery scab and PMTV. 4 pp. © 2002

**Potato Storage Design and Management**

Item #1092 \$2.00

Covers behavior of potatoes in storage, optimum conditions, storage layouts and construction, storage management and potato handling. 68 pp. © 1995

**Powdery Scab of Potato**

Item #1092 \$0.50

Powdery scab has become a concern for potato producers in Maine. This 4-page fact sheet explains the biology, life cycle, infection conditions, symptoms, and control of this pathogen. 4 pp. © 2002

**Producing Potatoes Organically in Maine**

Item #1092 \$0.50

Organic farming is the fastest growing segment of U.S. agriculture, and potato production follows the trend of other commodities. Learn the basics of soil maintenance, cutting and storing seed, organic soil amendments, weed management, and defense against disease. 6 pps. © 2006

**Rhizoctonia Disease on Potatoes**

Item #2273 \$0.50

This bulletin with full-color photos describes the history, life cycle, symptoms, and control of Rhizoctonia disease of potato, or "black scurf." 4 pp.

**Selecting, Cutting and Handling Potato Seed**

Item #2273 \$0.50

Explains selection of disease-free seed, physiological age of seed, precutting and cutting, proper size, curing, handling and treatments.

Includes charts of precutting and holding temperatures and seed-per-acre requirements. 6 pp. © 2012

**Significance of Hairy Nightshade in Potato Production**

Item #2492 \$0.75

This bulletin covers distribution, description, propagation, occurrence in potato production areas, and management. 3 pp. © 2010

**Silver Scurf of Potato**

Item #2444 \$0.50

This fact sheet discusses the symptoms, disease cycle and control of silver scurf in potato production. 2 pp. © 2016

**Spring Canola: An Oilseed Crop for Potato Growers**

Item #2438 \$0.50

Covers planting conditions, seeding, seedbed preparation, soil conditions, weed and insect control, rotation and disease issues, swathing and harvest, yields, markets, and canola varieties. Includes canola enterprise budget. 4 pp. © 2003

**Treating Potatoes Before Storage**

Item #2252 \$0.50

Explains where the fungus Fusarium occurs, what factors facilitate potato infection and what symptoms to look for. Provides detailed instructions for control through treatment before storage. 2 pp. © 1991

**Verticillium Wilt**

Item #5041 \$0.50

This fact sheet includes color photographs and describes life cycle, disease symptoms and control of verticillium wilt in potatoes. 4 pp. © 1995

**White Mold**

Item #2248 \$0.50

Explains the history, life cycle, symptoms and control of white mold of potatoes. 2 pp. © 1991

**Wireworms on Potatoes**

Item #5043 \$0.50

Wireworms are severely destructive to corn and potatoes. This bulletin on Potato IPM fact sheet discusses the life cycle, monitoring techniques, and management. 2 pp. © 2001

## VEGETABLES

### Adding a High Tunnel to Your Maine Farm: Observations from a Statewide Study

Item #1026 \$1.00

This four-page publication is based on some of the results and observations that can help farmers effectively plan for and use high tunnels to increase profitability. 4 pp. © 2013

### An Introduction to Seed Saving for the Home Gardener

Item #1026 \$1.00

This bulletin covers plant reproduction basics, hand pollinating, hybrid versus open-pollinated varieties, selecting plants, and processing and storing seed. Includes seeds-per-ounce and expected seed storage life for common vegetables. 6 pp. © 2010

### Guidelines for Using Manure on Vegetable Gardens

Item #2510 \$0.50

Manure can contain harmful bacteria. This publication provides concise guidelines to ensure safe vegetables, from the garden to the kitchen. This update to the 2000 version incorporates USDA Good Agricultural Practices (GAP). 2 pp. © 2008

### Growing Asparagus in Maine

Item #2071 \$1.00

This fact sheet describes the planting, growing and harvesting of asparagus in Maine. Includes varieties, transplants versus crowns, site selection, planting and harvesting instructions, along with photos. 6 pp. © 2013

### Pumpkin Production Guide

Item #2425 \$39.00

This book covers the basics of pumpkin production as well as cutting-edge research. Twelve chapters offer practical information for preparing the field, evaluating varieties, and choosing the best cultural practices; groundbreaking insight into fruit set and pollination to help growers maximize yields; descriptions for identifying and controlling weeds, insects, diseases, and wildlife pests; ways to maintain postharvest quality; and sample budgets and marketing ideas. Over 115 color photos. 152 pp. 2003

### Storage Conditions: Fruits and Vegetables

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Explains post-harvest management of commercial horticultural crops to minimize loss and maximize storage life and quality. Discusses relative humidity and temperatures; includes chart with storage conditions and storage time periods for 85 fruits and vegetables. 8 pp. © 2001

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Addresses planning, launching, and managing a vegetable production business; farm business management; marketing; soil fertility; composting; crop rotation; cover crops; tillage equipment and field preparation; seeds and transplants; irrigation and spraying systems; harvest and post-harvest handling; season extension; and integrated pest management. Includes 32 grower profiles, 91 illustrations, 20 tables, 6 appendixes, a glossary, and extensive references. 280 pp. 1999.

### Vegetable Varieties for Maine

Item #2190 \$0.50

Lists suggested varieties of asparagus, beans, beets, broccoli, Brussels sprouts, cabbage, carrots, cauliflower, celery, Swiss chard, Chinese cabbage, pop corn, sweet corn, cucumbers, eggplant, endive, kohlrabi, kale, leeks, lettuce, muskmelons, onions, parsley, peas, peppers, pumpkins, radishes, rhubarb, rutabagas, spinach, squash, tomatoes, turnips and watermelons. 2 pp. © 2006

## DAIRY & BEEF

### Beef Cattle Herd Health Vaccination Guide for Maine

Item #1031 \$0.75

A herd health management plan is vital to profitable beef production. Do not wait until a disease outbreak occurs before implementing a sound herd health program. For cattle to reach their performance potential, they must be healthy. Vaccinations are an approved practice for organic producers. 5 pp. © 2014



## Garlic

### Bloat Nematode in Maine Garlic

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Understanding the garlic bloat nematode and how it is spread will help to minimize the serious and long-lasting effects of this harmful crop pest. 4 pp. © 2012

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### Growing Hardneck Garlic in Your Maine Garden

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Garlic is an easy-to-grow crop that is increasingly popular in Maine. Learn how to grow, cultivate, and harvest hardneck garlic. 3 pp. © 2013

### White Rot of Garlic and Onions

Item #2062 \$0.50

Garlic and onion white rot is caused by the fungus, *Sclerotium cepivorum* Berk. White rot is the most important and destructive of the fungal diseases of onion and garlic. While all Allium-family plants can be infected with white rot, onion and garlic are the most susceptible. 3 pp. © 2015



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Information on cow-calf, cattle handling, and cattle feeding facilities; feed storage, processing and handling; water and waterers; manure management; farmstead planning, building construction, materials, ventilation and insulation; fences; gates and utilities. 133 pp. 1986

### **Beef Production: Farmer Skill & Knowledge Checklist**

Item #1201 \$20.00

This checklist can help you determine what you know and what you need to know about beef production. Covers breeding and reproduction, calving, cattle health and nutrition, management practices, facilities, fencing and pasturing, and financial concerns. 5 pp. © 2009

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Item #2204 \$8.00

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### **Health Care Principles & Practices for Organic Dairy Farms**

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Produced by UMaine Extension and the Maine Organic Farmers and Gardeners Association, outlines basic principles for keeping organically raised livestock healthy, and suggests treatment approaches for those times when problems arise. A list of resources is included. 5 pp. © 2007

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Introduction to pasture-based livestock production, including sustainability, benefits, and the science and art of pasture-based systems. covers defining vision, mission, and goals; using resource inventories in farm planning; allocation of farm resources; and direct marketing; as well as marketing feeder cattle, dairy, and hay. 116 pp. 2006

### **Organic Dairy Certification Requirements**

Item #1025 \$0.75

Offers guidelines to help you transition your animals, your land, and your management practices to effectively make your way through the organic certification process. 6 pp. © 2007

### **Organic Dairying: Can It Work or You?**

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Learn more about the challenges of running an effective organic operation--and possible reduced output while making the conversion---with the advantages of high prices, increased stability, and the continued growth of New England's organic market. © 2007

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The design of barns and other livestock facilities on small-scale farms in Maine depends on the number and types of livestock raised, grain- and feed-storage needs, and production methods used. Discusses state of Maine requirements, space recommendations, and more. 6 pp. © 2013

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The demand for fresh, local, sustainably produced small-farm products is growing. Aubrey, a seasoned farmer, covers business plans, market research, financing, regulations, asset protection, pricing, selling venues, and growing your business. Includes profiles of successful small farm businesses, as well as checklists and sample contracts and forms. 175 pp. 2007

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Everything you need to know to raise dairy goats, including more information on pygmy goats, updated information on disease diagnosis and treatment, and expanded information on breeding, milking, dairying, and cheese making. 304 pp. 2010

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### Basic Horse Nutrition

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This fact sheet discusses the nutritional needs of horses and how to meet them. 4 pp. © 2003

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### Guide to First Time Horse Ownership

Item #1004 \$0.75

Provides fundamental information on selecting, buying, and housing a horse as well as budgeting for expenses. 4 pp. © 2012

### Horse Facilities Handbook

Item #1059 \$43.00

Horses have very different behavioral traits than other livestock. Good facility designs respect horse instincts and provide for horse and handler safety. Includes roadways, parking, pastures and paddocks, arenas, breeding facilities, feed and bedding storage, fencing, water/waste designs, and emergency response planning. Liberal utilization of photos, diagrams, and tables make for ease of use. MWPS is a consortium of 12 U.S. universities and the USDA. 232 pp. 2005

### Pasture and Hay for Horses

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Explains the nutrient balances, pasturing, types of hay, and forage concerns. 4 pp. © 2003

### Preventing Eastern Equine Encephalitis (EEE) Virus in Maine

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Learn more about the symptoms, transmission and prevention of EEE. 3 pp. © 2013

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### Winter Care for Horses

Item #1007 \$0.75

This equine fact sheet addresses food, water and shelter requirements and other care necessary for horses during Maine winters. 4 pp. © 2003

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### A Handbook for Raising Small Numbers of Sheep

Item #1110 \$8.00

This handbook offers basic information on breeds, breeding and lambing, nutrition and feeding, health and diseases, parasites, shearing and wool, general management, fencing, and facilities. 73 pp. © 2002

### Are You Thinking of Raising Sheep?

Item #2186 \$1.00

Covers daily sheep management tasks, feeding, breed characteristics, and establishing production goals and management systems. Includes recommended sheep publications, textbooks and associations. 6 pp. © 2006

### Backyard Production of Meat Rabbits in Maine

Item #1044 \$1.50

This publication provides general and practical information that will help the new producer become a successful producer of meat rabbits as a backyard activity under Maine conditions. 15 pp. © 2014

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**Getting Ready for the Shearer: A  
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**Rabbit Housing - Planning, Building,  
and Equipping Facilities for  
Humanely Raising Healthy Rabbits**  
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Written by By Bob Bennett, this easy to read book provides clear, step-by-step instructions for building all-wire hutches and surrounding shelters and fencing. Includes building plans for both small- and large-scale facilities proper ventilation and protection from predators, this reference covers everything you need to know to create a healthy, productive rabbit-raising operation. 135 pp. 2012

**Raw Milk Production: Guidelines for  
Maine Licensed Dealers**  
Item #1030 \$1.00

Maine allows the sale of raw (not pasteurized) milk to the public by producers/dealers that are licensed with the Maine Department of Agriculture, Conservation and Forestry. This publication is intended as a

checklist for those dealers who are already licensed by the State of Maine, although it may be useful for individuals contemplating becoming licensed in the future. 7 pp. © 2014

**Setting Up for Sheep Foot Inspection  
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Discusses the tools and equipment needed to inspect or trim the feet of sheep, as well as the benefits of setting up a handling system that can be used for more than hoof trimming. 5 pp. © 2015

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The demand for fresh, local, sustainably produced small-farm products is growing. Covers business plans, market research, financing, regulations, asset protection, pricing, selling venues, and growing your business. Includes profiles of successful small farm businesses, as well as checklists and sample contracts and forms. 175 pp. © 2007

**Storey's Guide to Raising Rabbits,  
4th Edition**  
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Covers, breed selection, year-round care and feeding, safe housing, humane handling, and disease prevention and treatment are all addressed. This is the classic, comprehensive, essential reference for all rabbit raisers. 256 pp. 2009

**Storey's Guide to Raising Dairy  
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Dairy goats are a great choice for the small or backyard dairy farmer. They require a smaller investment than cows and produce milk that is great for making yogurt and cheese. Everything you need to know to raise dairy goats,

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**Storeys Barn Guide to Sheep**  
Item #1111 \$29.95

Designed to accompany the farmer into the barn, this guide provides oversized, full-color, step-by-step visuals that guide farmers through catching and throwing a sheep, trimming hooves, giving injections, lambing, bottle feeding, milking, shearing, and much more. Features full-color anatomical illustrations, a lambing calendar, a feeding chart, and a record-keeping section. 96 pp. 2006

**Storeys Guide to Raising Meat  
Goats: Managing, Breeding,  
Marketing**  
Item #1112 \$19.95

The demand for goat meat is growing and meat goats are inexpensive to buy, easy to handle, and less labor-intensive than other livestock. Sayer explains how to select a breed, buy goats, and raise healthy animals. She discusses how goats think and how to handle, house, and transport them properly, and provides information on health care, nutrition, disease prevention, and business planning. 320 pp. 2007

**Getting Ready for the Shearer: A  
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Item #1040 \$1.00

This fact sheet discusses sheep health, nutrition and many other factors that can influence the value of the wool harvested. 4 pp. © 2015

**Swine Production Manual**  
Item #2185 \$2.50

Discusses swine program; animal selection; boar and gilt selection; feeding and caring; swine health; boar, gilt and sow management; baby pig management; fitting and showing; housing and equipment; and end products. 34 pp. © 1992



**The Shearer's Role in Reducing Disease**

Item #1039 \$0.75

This fact sheet will help you to develop a careful, systematic approach to avoiding the spread of disease. It will discuss how to prevent problems and what to do if you find problems. 4 pp. © 2015

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If you're a sheep or goat producer, the health of your animals is essential for optimum performance and profitability. This fact sheet organizes information to help you remember past circumstances and treatments. Includes tips to help you interpret normal and abnormal health conditions of sheep and goats. 4 pp. © 2015

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Item #7129 \$0.75

A consistent supply of high-quality water is vital for livestock. This fact sheet includes information on quick-move systems, pasture pumps, ram pumps, sling pumps, and solar pumps. 5 pp. © 2016

**When to Call the Veterinarian - Tips for Producers of Small Ruminants in Maine**

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