## SMALL FARM SCHOOL
### 2016 WORKSHOP SCHEDULE
#### THURSDAY, SEPTEMBER 15, 2016
Class availability subject to change
Workshop descriptions start on page 2

CLASS PACKETS AVAILABLE from 7:30 am, open all day at Clairmont Hall Lobby

<table>
<thead>
<tr>
<th>BLOCK A</th>
<th>BLOCK B</th>
<th>BLOCK C</th>
<th>BLOCK D</th>
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<tbody>
<tr>
<td>8:30 – 10:00</td>
<td>10:30 – 12:00</td>
<td>1:15 – 2:45</td>
<td>3:00 – 4:30</td>
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<tr>
<td>1A: Introduction to farm business planning and record-keeping</td>
<td>1B: Growing cider apples</td>
<td>1C: Assessing farm resources</td>
<td>1D: Introduction to permaculture</td>
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<tr>
<td>2A: Herding dogs: an introduction</td>
<td>2B: Soil! What it is and how it works</td>
<td>2C: Pasture establishment</td>
<td>2D: Rotational grazing</td>
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<tr>
<td>3A: Vegetable crop planning</td>
<td>3B: Practical Irrigation scheduling for vegetables</td>
<td>3C: Vegetable nutrient management</td>
<td>3D: Four Season Production: Equipment</td>
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<tr>
<td>4A: Hazelnuts 101: Getting started</td>
<td>4B: Walk-behind tractors and implements</td>
<td>4C: Cut flowers 101</td>
<td>4D: Weather forecasts, climate change and vegetable scheduling</td>
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### EXHIBITOR BREAK: 10:00-10:30

### LUNCH – 12:00-1:15 – exhibit area

| 5A/B: Electric fencing for rotational grazing at Moomaw Family Farm¹ | 5C/D: Small engine basics (double session) |
| 6A/B: Tractor safety and operation (double session)² | 6C/D: Using tractor implements (double session)² |
| 7A/B: On-farm veterinary care (double session)² | 7C/D: Farming with beneficial insects |
| 8A/B: Goats: basic care and management (double session)² | |

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¹ Workshop held at Moomaw Family Farm in Oregon City
² Workshops held at the OSU North Willamette Research & Extension Center
# SMALL FARM SCHOOL
## 2015 WORKSHOP DESCRIPTIONS
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<table>
<thead>
<tr>
<th>MORNING SESSIONS</th>
<th>BLOCK A 8:30 – 10:00</th>
<th>BLOCK B 10:30 – 12:00</th>
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<tbody>
<tr>
<td><strong>1A</strong></td>
<td><strong>1B</strong></td>
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<tr>
<td><strong>Business planning and record keeping basics for the small farm</strong></td>
<td><strong>Growing cider apples</strong></td>
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<tr>
<td>Are you in the early stages of starting a farm business? Now is a great time to write your business plan and set up systems for business record keeping! Workshop participants will be introduced to the basic components of a business plan and will explore how to develop initial financial projections. Key farm financial records, along with other business records will also be introduced. This workshop will focus on using business plans and records as integral tools for business management, emphasizing the process of goal setting, projecting, monitoring and measuring as vital for decision-making, learning and continuous improvement.</td>
<td>Cider is gaining popularity, and the demand for Oregon cider apples is much greater than the supply. We'll discuss everything you need to know to get started, from variety selection and techniques for grafting new varieties onto an existing orchard to ways to make your own cider and tips on how to get connected with a local cider maker.</td>
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<td><strong>Instructor:</strong> Tanya Murray, Oregon Tilth, Inc.</td>
<td><strong>Instructor:</strong> Emily Richie, Northwest Cider Association</td>
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<td><strong>2A</strong></td>
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<td><strong>Herding dogs: an introduction</strong></td>
<td><strong>Soil! What it is and how it works...</strong></td>
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<tr>
<td>Dave from Top Stock Dogs trains herding dogs, and teaches people how to train and work with herding dogs. Meet some of his dogs, learn about the traits of a good herding dog and different breeds used in Oregon, and enjoy videos of Dave’s dogs in action.</td>
<td>It’s ALL about soil! Most people only have a vague idea of what soil is and how it works. You will learn more than you ever thought possible from this lecture. The reason you are alive, what nutrients are, how soil stores water and nutrients. The fundamentals that ALL humans on the planet Earth should know! If you want to grow you need to know what soil is and how it works! We will also be looking at on-line tools so you can learn more about YOUR soil!</td>
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<td><strong>Instructor:</strong> Dave Viklund, Top Stock Dogs</td>
<td><strong>Instructor:</strong> James Cassidy, OSU Senior Instructor, Soil Science</td>
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3A
Vegetable crop planning
It takes excellent planning to successfully manage a diverse vegetable farm. Learn a powerful method for vegetable crop planning using Excel spreadsheets that will help you schedule and organize your plantings, bed preparation, harvests, and more. Josh Volk is a farmer and farm consultant who has been refining his crop planning method for 17 years.
Instructor: Josh Volk, Slow Hand Farm

4A
Hazelnuts 101: Getting started
Nik Wiman is the OSU hazelnut Extension specialist. He will discuss how to establish a small hazelnut orchard covering topics such as field preparation, variety selection, spacing, equipment for small-scale orchards, irrigation, nutrient management and pest management in new and established hazelnut orchards. He can also share insights on different marketing channels.
Instructors: Nik Wiman, OSU Extension

3B
Practical irrigation scheduling for vegetables
Learn to use WSU’s online irrigation scheduling tool to get a sense for when and how much to irrigate your vegetable crops.
Instructor: Aaron Guffey, East Multnomah Soil and Water Conservation District

4B
Walk-behind tractors and implements
In this class you will learn about safe operation of a walk-behind tractor, a work horse for small vegetable farms. You will learn about the main features of walk-behind tractors, their implements and how they are used on small-scale farms. You will be able to see them in action and explore many of the available options for implements.
Instructors: Bryan Dickerson, Dancing Roots Farm and Jim McAllister, BCS America (to be confirmed)

5A/B
Electric fencing for rotational grazing at Moomaw Family Farm
Electric fencing can be one of the most important pieces of equipment for small-scale livestock management, especially in a multi-species setting. Nathan Moomaw will lead a tour of Moomaw Family Farm highlighting his rotational grazing and the portable electric fencing that keeps his chickens, pigs and sheep safe. There will be a hands-on demonstration of the full process of moving a paddock. Randy Bailey, fencing specialist of Gallagher USA, will explain the mechanics and maintenance of electric fencing and lead a show and tell of electric fencing options.
Instructors: Nathan Moomaw, Moomaw Family Farm and Randy Bailey, Gallagher USA

6A/B
Tractor safety and operation (double session) at NWREC
This three-hour class will focus on the correct and safe methods of tractor operation and implement use. Includes both classroom and hands-on in the field components. Students will operate equipment.
Instructors: Derek Wells, OSU Extension and Andrea Leao OSU Extension – 4H
| 7A/B | **On-farm veterinary care (double session) at NWREC**  
This three-hour class will focus on animal husbandry, health and body condition, medications, handling and emergency management. Includes both classroom and hands-on in the field components.  
**Instructor:** Jennifer Willey, DVM |
| 8A/B | **Goats: basic care and management (double session) at NWREC**  
This three-hour class on basic goat care and management includes nutrition, veterinary care, handling and communicating with your veterinarian. Includes both classroom and hands-on components.  
**Instructors:** Kelly Douglas, owner Denbrook Meat Goats and Rabbitry and veterinarian (to be confirmed) |
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<tr>
<td><strong>Assessing farm resources</strong>&lt;br&gt;This workshop will offer an overview of assessing the physical and human resources of your farm and the social farming infrastructure. Topics covered include soil and water resources, financial limitations, access to labor and markets, and perhaps most importantly your interests and goals.&lt;br&gt;&lt;br&gt;<strong>Instructor:</strong> Chip Bubl, OSU Extension</td>
<td><strong>Intro to permaculture for beginning farmers</strong>&lt;br&gt;Learn how you can apply the principles of permaculture to your own farm. We'll cover the history of permaculture, as well as topics such as no-till production methods, polyculture planting, and food forestry.&lt;br&gt;&lt;br&gt;<strong>Instructors:</strong> Melissa and Teague Cullen, Winslow Food Forest</td>
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<td><strong>Pasture establishment</strong>&lt;br&gt;Learn to evaluate an existing pasture and decide if renovation is needed. Learn about ways to renovate a pasture. Explore ways to improve pasture without renovating.&lt;br&gt;&lt;br&gt;<strong>Instructor:</strong> Gene Pirelli, OSU Extension</td>
<td><strong>Rotational grazing &amp; pasture management</strong>&lt;br&gt;Animal management can protect pastures from over grazing and ensure long-term productivity. Learn the fundamental principles and practices that promote healthy pastures.&lt;br&gt;&lt;br&gt;<strong>Instructor:</strong> Gene Pirelli, OSU Extension</td>
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<td><strong>Vegetable nutrient management</strong>&lt;br&gt;Rowan Steele manages Headwaters Incubator Farm for East Multnomah Soil &amp; Water Conservation District. In this class he will walk you through a worksheet to create an organic fertility plan for your vegetable operation based on soil test results. If possible, bring your farm’s soil sample test results to begin working on your plan in class.&lt;br&gt;&lt;br&gt;<strong>Instructor:</strong> Rowan Steele, East Multnomah Soil &amp; Water Conservation District</td>
<td><strong>Four season production: Equipment</strong>&lt;br&gt;We will construct and evaluate low cost season extending structures and materials. The potential uses, crop selections, and costs of each option will be discussed while we work. There will be a hands-on demonstration of bending your own hoops for season extending structures. You’ll leave with a list of materials and costs to construct the low tunnel built in class.&lt;br&gt;&lt;br&gt;<strong>Instructor:</strong> Chris Konieczka, Clackamas Community College</td>
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**4C**

**Cut flowers 101**

Flowers are a valuable addition to any farm – they increase biodiversity, attract pollinators, and can be an extra source of income. Learn how to start growing, add flowers to your farm system, or improve your existing flower production.

**Instructor:** Nora Lindsey, PCC Rock Creek - Learning Garden Coordinator

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**4D**

**Weather forecasts, climate change and vegetable scheduling**

Andy will introduce you to online weather tools from NOAA and how they can be used to make farming decisions. He will also give an update on long-term climate trends in the Pacific Northwest. Nick will introduce you to the OSU Croptime website and degree-day models for predicting vegetable maturity. You can use Croptime to schedule planting in the spring and predict harvest dates more accurately than with calendar days.

**Instructors:** Andy Bryant, National Weather Service Portland and Nick Andrews, OSU Small Farms Extension

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**5C/D**

**Small engine basics (double session)**

Matt Zacher from Canby Rental & Equipment will cover the basics of how a 4-stroke engine operates, routine engine maintenance and small repairs you can do at home. He will also teardown an engine and go over parts and their functions, and if time permits the engine will also be reassembled.

**Instructors:** Matt Zacher, Store Manager, Canby Rental & Equipment

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**6C/D**

**Using tractor implements (double session) at NWREC**

In this three-hour class you will learn how to safely use bucket loaders, a three-point hitch, PTO-driven equipment, discs and ploughs. The class includes some classroom time and some hands-on practice. Students will operate equipment. Please take the tractor safety and operation class first if you don’t already have good tractor operation experience.

**Instructors:** Derek Well, OSU Extension and Andrea Leao, OSU Extension – 4H

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**7C/D**

**Farming with beneficial insects**

Wild beneficial insects are a free resource providing pest control and pollination. The first part of this class will begin with an introduction into how beneficial insects fit into an IPM program, then we will discuss how to attract and sustain populations of beneficial insects using habitat features including wildflower insectary strips, hedgerows, beetle banks, and cover cropping. The second part will focus on how to assess existing habitat on your land. Bring maps to brainstorm ideas for incorporating beneficial insect habitat into your farm.

**Instructors:** Hillary Sardiñas, Pacific Coast Pollinator Specialist, Xerces Society for Invertebrate Conservation and Heather Stoven, Extension Horticulturalist, OSU