



### OSU Master Gardener™ Mission



Cultivating resilient and healthy communities throughout Oregon through sustainable horticulture education and gardening projects that are rooted in science and that are supported by OSU Extension volunteers.

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### OSU Master Gardener™ Program



Helps Oregonians grow healthy gardens

Provides gardening information rooted in science

More than 3,000 trained volunteers provide 200,000 volunteer hours and 250,000 contacts annually Requires annual volunteer recertification

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## Land Acknowledgement

The Portland Metro area rests on traditional village sites of the Multnomah, Wasco, Cowlitz, Kathlamet, Clackamas, Bands of Chinook, Tualatin Kalapuya, Molalla, and many other tribes who made their homes along the Columbia River.

## Fall and Winter Gardening Now's the time to plan and plant! Benefits Grow and eat your own vegetables year round Maximize production in a small space Use less water Manage fewer pests





### Fall is a Great Time to Test Your Soil



A soil sample will tell you what your soil needs to help your crop grow.

It provides information on the capacity of your soil to supply adequate nutrients and helps you select the correct mix of fertilizer and liming materials.

https://extension.oregonstate.edu/video/how-do-i-collect-soil-sample-testing

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### Collect and Analyze a Soil Sample



Sample Collection

- Multiple location composite
- Root zone: top 6 to 8 inches

Sample Analysis and Interpretation

- Macronutrients (N, P, K, Ca, Mg, S)
- pH
- Organic Matter
- Micronutrients
- Wait to add nutrients until next year

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### Fall is a Really Great Time to Amend Soil pH



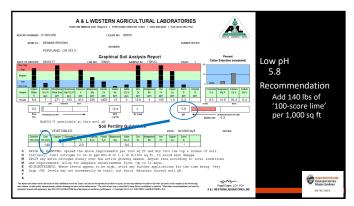
Pacific Northwest soils west of the Cascades are mildly acidic: pH 5.5-5.8

Good for blueberries and lingonberries that grow best at pH 4.5-5.5.

Most vegetables crops grow best at a pH 6.0-7.5

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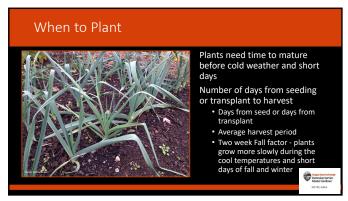


# How Much Lime Should I Add? Soil test recommends 140 lbs 100-score lime per 1,000 sq. ft. Lime product has an Oregon Lime Score of 90 My garden is 200 sq. ft. (140/0.9) X (200/1,000) = 156 X 0.2 = 32 lbs per 200 sq. ft. NET WT. 25 LBS. (11.3 kg) First acting the street of the s











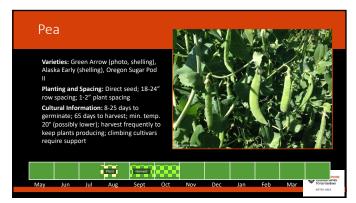








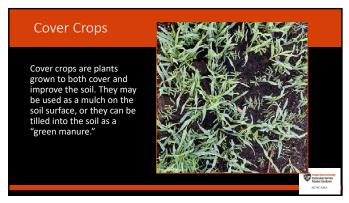












### Cover Crops: Grasses and Legumes



Use grasses to compete with weeds, establish quickly (reducing erosion), and capture available nitrogen left over at the end of the growing season. Use legumes to add nitrogen to your soil.

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## Cover Crops: Planning and End Game



- If you intend to plant crops in March: plant a grass

  If you intend to plant crops in April or May: plant a legume

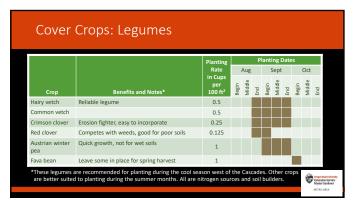
- In the Spring:

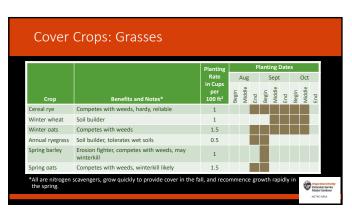
   Terminate cover crop by cutting, mowing or tilling into soil

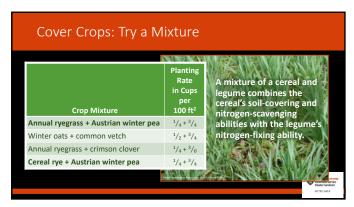
   Terminate before cover crop goes to seed and at least 2 to 4 weeks before planting spring crops, allow more time if growth is very dense

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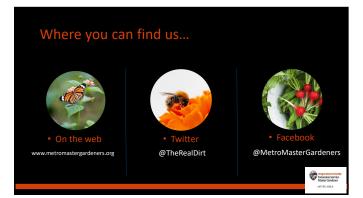


### Resources

- Sustainable Gardening, The Oregon-Washington Master Gardener Handbook, Oregon State University and Washington State University Extension Services, April 2013
- Fall and Winter Vegetable Gardening in the Pacific Northwest (PNW 548), P. Patterson, Oregon State University, University of Idaho, Washington State University, June 2001
- Vegetable Gardening in Oregon (EC871), Oregon State University, August 2005
- The Winter Harvest Handbook, Eliot Coleman, March 2009
- Territorial Seed Company, Fall and Winter Catalog, 2022



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## What questions do you have? Metro Area Master Gardener™ Program Oregon State University Extension Service

