



PNW 598 • October 2007

Commercial Red Raspberry Production

in the Pacific Northwest



Contents

Chapter 1. Commercial Red Raspberry Production	1
History	1
World and Pacific Northwest production.....	2
Types of raspberries	2
Red raspberry production systems.....	3
Raspberries and human nutrition	5
Chapter 2. The Red Raspberry Plant	7
Roots	8
Primocane growth and development	8
Dormancy and cold hardiness.....	9
Floricanes growth and development	10
Flowers and fruit.....	11
Yield.....	11
Chapter 3. Cultivar Selection	15
Summer-bearing red raspberries for western Oregon and Washington	16
Summer-bearing red raspberries for locations in and east of the Cascade Mountains	18
Primocane-fruited raspberries	19
Chapter 4. Plantation Establishment.....	21
Selecting a site	21
Site preparation	23
Planting stock.....	24
Row spacing.....	24
Planting systems	25
Trellis designs	27
Planting	28
Chapter 5. Plantation Maintenance	31
Row management	31
Pruning and training	31
Primocane suppression	33
Mulching.....	35
Pollination.....	36
Water management	37
Weed management	40
Cover crops and alley management.....	45

continues on next page

Chapter 6. Plant Nutrition Management	49
Tissue testing	50
Soil sampling	53
Nitrogen	53
Phosphorus.....	56
Potassium.....	57
Sulfur	58
Micronutrients.....	58
Soil pH, acidity, and alkalinity.....	59
Manure	61
Chapter 7. Raspberry Disease and Nematode Management	63
Diseases that cause symptoms on fruit	64
Diseases that cause symptoms on canes and leaves	65
Diseases that cause symptoms on roots	71
Nematodes	74
Chapter 8. Integrated Pest Management of Insects, Mites, and Slugs	77
Caterpillars: spanworms, leafrollers, cutworms, and loopers.....	77
Noncaterpillar insect pests.....	81
Spider mites	85
Slugs and snails.....	86
Chapter 9. Organic Production	87
Site history	88
Site preparation.....	88
Planting stock.....	90
Pest and disease management.....	90
Obtaining organic certification	90
Chapter 10. Harvesting and Postharvest Considerations	91
Mechanical harvesting	91
Hand harvesting	93
Sanitation concerns	94
Postharvest care	95
For More Information	97
Appendix A. Calendar of Activities	99
Appendix B. Color Plates	101