

# Table of Contents

Foreword	v
About CASFS and the Farm & Garden Apprenticeship	vi
Preface	vii
Acknowledgments	viii
Contributors and Reviewers	ix
How To Use This Resource	xii
<b>Part 1 Organic Farming and Gardening Skills and Practices</b>	
Unit 1.1 Managing Soil Fertility	1–1
Unit 1.2 Garden and Field Tillage and Cultivation	1–29
Unit 1.3 Propagating Crops from Seed, and Greenhouse Management	1–93
Unit 1.4 Transplanting and Direct Seeding	1–163
Unit 1.5 Irrigation: Principles and Practices	1–201
Unit 1.6 Selecting and Using Cover Crops	1–261
Unit 1.7 Making and Using Compost	1–293
Unit 1.8 Managing Arthropod Pests	1–339
Unit 1.9 Managing Plant Pathogens	1–367
Unit 1.10 Managing Weeds	1–389
Unit 1.11 Reading and Interpreting Soil Test Reports	1–425
<b>Part 2 Applied Soil Science</b>	
Unit 2.1 Soils and Soil Physical Properties	2–1
Unit 2.2 Soil Chemistry and Fertility	2–47
Unit 2.3 Soil Biology and Ecology	2–81
<b>Part 3 Social and Environmental Issues in Agriculture</b>	
Unit 3.1 The Development of U.S. Agriculture	3–3
Unit 3.2 Social Issues in Modern Agriculture	3–31
Unit 3.3 Environmental Issues in Modern Agriculture	3–53
Unit 3.4 Sustainable Agriculture and Sustainable Food Systems	3–73