

Contents

Preface	xv
Part 1: The Basics	
1. Why Small Scale, Small Fruits?	3
Why small fruit growing?	3
How and where to start?	4
Understanding current climate challenges	5
Small fruits to the rescue	7
Why micro fruit farming?	8
Limitations of small fruit growing	11
Maximize profits by being the workforce	11
The future of small and micro farming	12
2. 21st Century Strategic Planning	13
Planning it out	13
How to research.	15
Evaluating agricultural profit forecasts	19
Understanding your bioregion and regional climate	20
Choosing cultivars	24
How many plants?	26
Pollination	28
3. Sourcing Plants and Navigating the	
21st Century Nursery Scene	31
Sourcing plants and plant material	31
Sources to avoid	32
Organic or conventional?	33
Navigating the nursery scene	34
Quality nurseries	35

4. Creating Beds	39
Creating space for small fruits to thrive	39
Mechanical tillage	40
No-till options	43
Spacing	46
Managing walkways	46
Stale bedding	47
Planting the beds	47
Planting in rows	47
Cover cropping	48
5. Managing Soil Fertility Organically	51
Practical considerations	51
Soluble and insoluble organic fertilizers	52
Animal-product based fertilizers	53
Vegan plant-based fertilizers	54
Mineral fertilizers	54
Compost and manures	55
Consider the impacts	56
Applying organic fertilizers	57
Unlocking latent soil fertility	58
6. Planting Successfully	61
Handling and inspecting nursery stock	61
Storing dormant plants	63
Effectively handling cuttings	65
Pre-planting preparations	66
Proper planting practices	67
Post-planting care	69
7. Organic Weed Management	71
Using permanent grass cover	71
Mulch	73
Landscape fabric	75
Flame weeding	79
Plant Guilds	80
8. Tools of the Trade	81

9. Maintenance, Protection, and Organic Pest Control	87
Integrated Pest Management (IPM)	87
Insect management	90
Common animal pests	93
Frost protection.	98

Part 2: Getting to Know Your Fruit Allies

10. Blackberries	103
Types of modern blackberries.	103
Site considerations	106
Cultivation	107
Fertilizing.	109
Mulch and irrigation	109
Pests/Diseases/Challenges	112
Harvest	114
Marketing.	114
Recommended cultivars	115
11. Blueberries.	119
Species	119
Cultivation	120
Planting.	122
Weed control	124
Irrigation	125
Pruning.	125
Pests/Diseases/Challenges	126
Cultivars (by region)	127
Harvesting and marketing.	128
12. Raspberries	133
Species	133
Cultivation	136
Irrigation	138
Pruning.	139
Thinning	140
Trellising	141
Mulch.	142

Propagation	143
Pests/Diseases/Challenges	143
Marketing	144
Cultivars	145
13. Strawberries	149
Cultivation	149
Growing Methods	150
Thinning	152
Planting	152
Irrigation	154
Harvesting	154
Marketing	154
Pests/Diseases/Challenges	155
Cultivars	156
14. Juneberries	161
Cultivation	162
Best species by region	163
Irrigation	164
Pests/Diseases/Challenges	164
Marketing	166
Cultivars	166
15. Muscadine Grapes	169
Cultivation	170
Irrigation	172
Pollination	172
Pests and diseases	173
Marketing	173
Cultivars	174
16. Mulberries	179
Species of mulberries	180
Cultivation	182
Irrigation	186
Potential for commercial production	186
Harvesting	187
Pests/Diseases/Challenges	188
Marketing	190

The future of mulberries	191
Recommended cultivars	192
17. Gooseberries	197
Cultivation	198
Irrigation	199
Pests and diseases	200
Harvesting	200
Marketing	201
Recommended cultivars	202
18. Currants	205
Cultivation	205
Irrigation	207
Pests and diseases	207
Harvesting	208
Marketing	208
Cultivars	209
19. Figs	211
Cultivation	212
Cold region (USDA zones 5–7)	212
Understanding high tunnel fig growing	215
Warm region (USDA zones 8–10)	225
Harvesting	226
Marketing	227
Pests and diseases	229
Cultivars	232
20. Tomatoes	243
Cultivation	244
Pests and diseases	248
Irrigation	250
Marketing	250
Cultivars	250
21. Other Small Fruits Worthy of Consideration...Or Not	255
Aronia (<i>Aronia melanocarpa</i>)	255
Autumn Olive (<i>Elaeagnus umbellata</i>) and Goumi (<i>Elaeagnus multiflora</i>)	255
Bush and Nanking Cherries	256

Kiwiberry (<i>Actinidia arguta</i>)	256
Cactus Fruits	257
Cornelian Cherry (<i>Cornus mas</i>)	257
Hardy Passionfruit (<i>Passiflora incarnata</i>)	258
Elderberry (<i>Sambucus canadensis</i>)	258
Feijoa (<i>Acca sellowiana</i>)	259
Goji (<i>Lycium barbarum</i>)	259
Hybrid Cane Berries	259
Rosehips	260
Seaberry/sea buckthorn(<i>Hippophae rhamnoides</i>)	260
Munson Grapes	260
Che (<i>Maclura tricuspidata</i>)	261
Honeyberry (<i>Lonicera caerulea</i>)	261

Part 3: Harvesting, Marketing, and the Future

22. Harvesting and Post-Harvesting	265
Harvest efficiency	266
Protecting, storing, and chilling	267
23. Market Planning and Strategies	269
Direct marketing methods	271
24. The Future of Small Fruit Growing	277
Climate change and fruit growing	277
Rescuing the genetic pool by selecting your own local cultivars	280
25. Interviews with Successful Small Fruit Market Growers	285
26. Conclusion	295
Appendix: Jivamritam	299
Notes	301
Resources	309
Index	311
About the Author	319
About New Society Publishers	320