Contributors Preface		ix xi
	John Byrne, Venkatesh Iyer and Noah Toly	
	Introduction	3
	World agriculture - trends and impacts	3
	Global trends in organic agriculture	26
	Conclusions	41
2.	Globalisation and sustainable development: a political ecology	49
	strategy to realize ecological justice	
	John Byrne, Leigh Glover and Hugo F. Alrøe Introduction	50
	Organic farming and the challenge of sustainability	51
	Political ecology as one approach to globalisation and	31
	sustainable development	53
	Commons as the basis of ecological justice	55
	Overcoming commodification	63
	Putting ecological justice into practice: guidelines for policy	68
	Conclusions	71
3.	Organic agriculture and ecological justice: Ethics and practice Hugo F. Alrøe, John Byrne and Leigh Glover	75
	Introduction	76
	Sustainability, globalisation and organic agriculture	79
	The ethics and justice of ecological justice	84
	Challenges for organic agriculture: commodification,	
	externalities and distant trade	90
	Putting ecological justice into organic practice	97
	Conclusions	108
4.	Ecological Economics and organic farming	113
	Paul Rye Kledal, Chris Kjeldsen, Karen Refsgaard and Peter	
	Söderbaum	
	Introduction	114

	Ecological Economics as a trans-disciplinary approach Political Economics and the Conception of Time Scale Farming, Production Time, Nature's Time and Scale Organic farming: A response to ecological damage caused	114 119 121
	by growth in scale and shortening of Production Time The Ecological Economic perspective and organic farming Frameworks for Decision-Making	123 126 127
	Conclusions	130
5.	Organic farming in a world of free trade Christian Friis Bach	135
	Introduction	136
	The agricultural agenda	136
	Trade and the environment	139
	Conclusions	149
6.	Certified and non-certified organic farming in the developing	
	world	153
	Nicholas Parrott, Jørgen E. Olesen and Henning Høgh-Jensen	
	Introduction	154
	Certified Organic Farming in the Developing World	155
	Non-Certified Organic Farming	159
	Unlearning from the Northern Experience: Reconceptualising the Benefits of Organic Farming from an Southern Perspective	164
	Livelihoods	170
	Questions to Guide future Studies in Organic Farming	173
	Conclusions	176
7.	Possibilities for closing the urban-rural nutrient cycles	181
	Karen Refsgaard, Petter D. Jenssen and Jakob Magid	
	Introduction	182
	Recycling nutrients in society - an ecological economics perspective	184
	Basic economic, institutional and social aspects ofwaste handling	186
	Quantities of nutrients and organic resources - from household	100
	to agricultural systems	188
	Ecological handling systems for organic waste and wastewater	191
	The cost of the handling system	196
	Moral and cultural aspects related to recycling urban waste	197
	Health aspects related to recycling urban waste	198
	Recycling nutrients from urban waste - global examples	200
	Conclusions	208

8.	Soil fertility depletion Sub-Saharan Africa: What is the role of organic agriculture	215
	John Pender and Ole Mertz	-1.
	Introduction	216
	Causes of soil fertility depletion in SSA	218
	Approaches to restore soil rertility and improve productivity	220
	Conclusion	233
9.	Sustainable veterinary medical practices in organic farming:	
	a global perspective	241
	Mette Vaarst, Stephen Roderick, Denis K. Byarugaba, Sofie	
	Kobayashi, Chris Rubaire-Akiiki and Hubert Karreman	
	Introduction	243
	The potential for organic livestock farming	244
	Disease management in organic livestock production	247
	The use and risks of antimicrobial drugs	248
	Vector-borne diseases and organic livestock farming	254
	Disease control issues associated with land use and land tenure	260
	Developing organic strategies to enhance animal health and	
	livestock production	263
	Moving from an "organic approach" to "organic animal	
	production"	268
	Conclusions and recommendation	271
10.	The impact of organic farming on food security in a regional	
	and global perspective	277
	Niels Halberg, Timothy B. Sulser, Henning Høgh-Jensen, Mark W.	
	Rosegrant and Marie Trydeman Knudsen	
	Introduction	278
	Overview of existing food supply and security projections	281
	Significant factors determining the effect of OF on food supply	
	and food security	287
	Modelling consequences of large scale conversion to OF for	
	food security	301
	Discussion	313
	Conclusions	316
11.	Towards a global research programme for organic food and	
	farming	323
	Henrik Egelyng and Henning Høgh-Jensen	
	Introduction	324
	Examining the basis for a global organic programme:	
	institutional analysis	325

The role of - selected - International organisations in	
promoting organic farming	329
Research as a support tool for developing organic farming	
and food systems	331
Towards a development oriented research programme for	
organic agriculture	336
Conclusions	339
12. Synthesis: The potential of organic farming in a globalised world	343
Niels Halberg, Hugo F. Alrøe and Erik Steen Kristensen	
Introduction	344
Three perspectives on the challenges and promises of organic	
agriculture	345
How may certified organic farming meet the challenges of	
the increased globalisation of organic food chains?	347
What solutions do certified and non-certified organic agricultur	æ
offer to sustainability problems in the global food system	354
Conclusions	363
Index	