

Contents

Part 1	Overview of the thesis	1
1.1	Motivation and fundamental research questions.....	1
1.2	Farm structural change in Europe	5
1.3	Theory of farm structural change.....	12
1.4	Review of methods and determinants	13
1.5	Differences of farm structural change across European regions.....	17
1.6	Structural change of European dairy farms.....	19
1.7	Conclusions.....	21
1.8	References.....	24
Part 2	Modelling farm structural change for integrated ex-ante assessment: review of methods and determinants	28
2.1	Introduction.....	29
2.2	Factors contributing to structural change in agriculture	31
2.3	Markov models	33
2.4	Other econometric models	43
2.5	Multi-agent systems	50
2.6	Conclusions.....	52
2.7	References.....	56
2.8	Appendix.....	63
Part 3	Differences of farm structural change across European regions.....	64
3.1	Introduction.....	64
3.2	European farm structure.....	68
3.3	Methodology	74
3.4	Results on the regional farm type mobility	80
3.5	Relationship between structural variables and mobility indices	87

3.6	Conclusions.....	95
3.7	References.....	97
3.8	Appendix.....	101
Part 4	Structural change of European dairy farms – a cross-regional analysis	104
4.1	Introduction.....	104
4.2	Structural developments of dairy farms across Europe.....	107
4.3	Markov chain approach.....	110
4.4	Results on the transition probabilities (from step 1).....	113
4.5	Determinants and hypotheses.....	115
4.6	Regression results (from step 2).....	123
4.7	Conclusions.....	130
4.8	References.....	133