

Table of contents

Preface	i
Acknowledgements	iii
Executive summary	v
Zusammenfassung	xv
Table of contents	xxvii
List of tables	xxix
List of figures	xxx
Abbreviations	xxxi
1 Introduction	1
2 Objectives and scope of the study	7
2.1 Research questions	8
2.2 Products	9
3 Theoretical framework	11
3.1 Climate smart agriculture	11
3.1.1 What is climate smart agriculture?	11
3.1.2 CSA in the Kenyan smallholder context: climate smart techniques and indicators	12
3.1.3 Praise and criticism of CSA	15
3.2 Innovation diffusion	17
3.2.1 Innovation diffusion – theoretical background	17
3.2.2 Adoption: constraints to efficient uptake of CSA innovations	19
4 Methodology	23
5 Results: CSA in the study region	29
5.1 Existing policies and prioritization frameworks for CSA implementation	29
5.1.1 International level	29
5.1.2 National level	30

5.1.3	County level.....	34
5.1.4	CSA stakeholders in Kenya.....	35
5.1.5	Budget for CSA.....	38
5.2	The farm level perspective on CSA.....	38
5.2.1	The three CSA pillars in the Kenyan smallholder context.....	39
5.2.2	Farmer perceptions of climate smart techniques.....	41
5.3	The linkage between scientific agricultural research and practical application at farm level via extension services.....	55
5.3.1	Relevant actors in Kenya.....	55
5.3.2	Post-devolution structures and coordination processes of the extension service.....	56
5.3.3	The research-extension linkage.....	57
6	Discussion of results.....	59
6.1	Policy level.....	60
6.2	Farm level.....	61
6.3	Research, extension and implementation level.....	63
6.4	Synthesis of results.....	65
7	Recommendations.....	69
7.1	Prioritization of action.....	69
7.2	Policy level.....	71
7.3	Farm level.....	73
7.4	Research, extension, implementation and their linkages.....	75
8	Bibliography.....	77
Annex.....	81
Annex 1:	Explanations of CSA techniques.....	81
Annex 2:	Counties and sub-counties.....	85
Annex 3:	Seasonal Calendar for the main crops in Kakamega.....	86
Annex 4:	Interview reference list.....	87
Annex 5:	Working schedule.....	88