

Each Program Participant must provide a small remark against each activity/deliverable to indicate the status of the activity (2-4 sentences required per activity) using the form below. Updated data from the current partners is also required.

Activity title		Modelling of household level adaptation s	strategies in agro-p	pastoral systems of East Africa (	Genesis reversed)		
CCAFS Objective (select from drop list)		1.1 Adapted farming syste	ems	CCAFS Milestone No. (select from drop list / for ful 2012 - 2015 LOGI	rther details go to C	CAFS	1.1.2 2013 (1)
Activity objectives (what the activity aims to achieve)	ive 1		nd to turn to noma unity and national	strategy, and (as far e input into a broad	as possible) to assess the se er study that will identify po	ere climate change may compel current ocial, economic and environmental impacts of licices and institutional measures that would	
Activity status				Completed			
Insert a small remark to indicate status of the activity. (2-4 sentences required per activit				esentation. This project a			ummarizing the entire project. The rk in the household modelling using
		Туре		Description	Year	Status	Format
Deliverables status (You may add any unexpected deliveral	hle)	Reports, publications		adaptation strategies in pastoral households of East Africa	2012	Completed	Document (*.doc, *.odt, *.pdf)
Tou may doo ony anexpected denveral	טובי	Reports, publications		cle submitted to Global onmental Change	2012	Completed	Document (*.doc, *.odt, *.pdf)
			A	Acronym ILRI	Intor	Name	arch Instituto
Current Partners		CG - CGIAR Center		Contact Poin		Intional Livestock Reser	Contact Point Email
		CO - COIAN CENter		Contact Fom	t run Name		
Activity title		Review of potential contribution of livesto		activity No. 98	on and adaptation		
Activity title CCAFS Objective (select from drop list)		Review of potential contribution of livesto 1.2 Breeding strategies	ock breeding strate		ther details go to Co	CAFS	1.2.1 2015 (1)
CCAFS Objective	ive 1		ock breeding strate	egies to climate change mitigatic CCAFS Milestone No (select from drop list / for fur 2012 - 2015 LOGI	ther details go to CO FRAME sheet)		1.2.1 2015 (1)
CCAFS Objective (select from drop list) Activity objectives (what the activity aims to Object	ive 1	1.2 Breeding strategies	ock breeding strate	egies to climate change mitigatic CCAFS Milestone No (select from drop list / for fur 2012 - 2015 LOGI	ther details go to Co FRAME sheet) impacts of climate		1.2.1 2015 (1)
CCAFS Objective (select from drop list) Activity objectives (what the activity aims to achieve) Object	the	1.2 Breeding strategies to provide a synthesis of the role of livesto	ock breeding strate	egies to climate change mitigatic CCAFS Milestone No. (select from drop list / for fu 2012 - 2015 LOGi	ther details go to CC FRAME sheet) I impacts of climate	change	
CCAFS Objective (select from drop list)         Activity objectives (what the activity oims to achieve)       Object         Activity status       Object         Activity status       Insert a small remark to indicate status of the activity.	the	1.2 Breeding strategies to provide a synthesis of the role of livesto	ock breeding strate	egies to climate change mitigatic CCAFS Milestone No. (select from drop list / for fur 2012 - 2015 LOGI a adaptation strategy against the Uncompleted	ther details go to CC FRAME sheet) I impacts of climate	change	
CCAFS Objective (select from drop list)         Activity objectives (what the activity oims to achieve)       Object         Activity status       Object         Activity status       Insert a small remark to indicate status of the activity.	the y)	1.2 Breeding strategies to provide a synthesis of the role of livesto <b>The Principal Inve</b>	ock breeding strate s ock breeding as an estigator did no E	egies to climate change mitigatic CCAFS Milestone No. (select from drop list / for fur 2012 - 2015 LOGI adaptation strategy against the Uncompleted t deliver any work owing	ther details go to CC FRAME sheet) i impacts of climate	change unication with the CRf	P 7 Focal point in 2012.
CCAFS Objective (select from drop list) Activity objectives (what the activity aims to achieve) Activity status Insert a small remark to indicate status of the activity. (2-4 sentences required per activity Deliverables status	the y)	1.2 Breeding strategies to provide a synthesis of the role of livesto The Principal Inve Type	ock breeding strate s ock breeding as an estigator did no Review pape strategies for d	egies to climate change mitigatic CCAFS Milestone No. (select from drop list / for fur 2012 - 2015 LOGI a adaptation strategy against the Uncompleted bt deliver any work owing Description er on livestock breeding climte change adaptation	ther details go to CC RAME sheet) i impacts of climate to lack of comm Year	change unication with the CRF Status	P 7 Focal point in 2012. Format
CCAFS Objective (select from drop list) Activity objectives (what the activity aims to achieve) Activity status Insert a small remark to indicate status of the activity. (2-4 sentences required per activity Deliverables status	the y)	1.2 Breeding strategies to provide a synthesis of the role of livesto The Principal Inve Type	ock breeding strate s ock breeding as an estigator did no Review pape strategies for d	egies to climate change mitigatic CCAFS Milestone No. (select from drop list / for fur 2012 - 2015 LOGI adaptation strategy against the Uncompleted ot deliver any work owing Description er on livestock breeding	ther details go to CC RAME sheet) i impacts of climate to lack of comm Year	change unication with the CRI Status Select a status	P 7 Focal point in 2012. Format Select a format
CCAFS Objective (select from drop list) Activity objectives (what the activity aims to achieve) Activity status Insert a small remark to indicate status of the activity. (2-4 sentences required per activity Deliverables status	the y)	1.2 Breeding strategies to provide a synthesis of the role of livesto The Principal Inve Type	ock breeding strate s ock breeding as an estigator did no Estigator did no Estigator did no f Review pape strategies for d	egies to climate change mitigatic CCAFS Milestone No. (select from drop list / for fur 2012 - 2015 LOGI a adaptation strategy against the Uncompleted bt deliver any work owing Description er on livestock breeding climite change adaptation	ther details go to CC FRAME sheet) impacts of climate to lack of comm Year 2012	change unication with the CRF Status Select a status Name	P 7 Focal point in 2012. Format Select a format
CCAFS Objective (select from drop list) Activity objectives (what the activity aims to achieve) Activity status Insert a small remark to indicate status of the activity. (2-4 sentences required per activity Deliverables status	the y)	1.2 Breeding strategies to provide a synthesis of the role of livesto The Principal Inve Type Reports, publications	ock breeding strate s ock breeding as an estigator did no Estigator did no Estigator did no f Review pape strategies for d	egies to climate change mitigatic CCAFS Milestone No. (select from drop list / for fur 2012 - 2015 LOGI adaptation strategy against the Uncompleted ot deliver any work owing Description er on livestock breeding climte change adaptation Acronym	ther details go to CC FRAME sheet) impacts of climate to lack of comm Year 2012	change unication with the CRF Status Select a status Name	P 7 Focal point in 2012. Format Select a format
CCAFS Objective (select from drop list) Activity objectives (what the activity aims to achieve) Activity status Insert a small remark to indicate status of the activity. (2-4 sentences required per activity Deliverables status	the y)	1.2 Breeding strategies to provide a synthesis of the role of livesto The Principal Inve Type Reports, publications	ock breeding strate	egies to climate change mitigatic CCAFS Milestone No. (select from drop list / for fur 2012 - 2015 LOGI adaptation strategy against the Uncompleted ot deliver any work owing Description er on livestock breeding climte change adaptation Acronym Contact Poin	ther details go to CC FRAME sheet) impacts of climate to lack of comm Year 2012	change unication with the CRI Status Select a status University of Hohen	P 7 Focal point in 2012. Format Select a format
CCAFS Objective (select from drop list)         Activity objectives (what the activity uims to achieve)       Object         Activity status       Activity status         Activity status       Activity status         Insert a small remark to indicate status of the activity. (2-4 sentences required per activit)       Deliverables status         Deliverables status       Vou may add any unexpected deliverable	the y)	1.2 Breeding strategies to provide a synthesis of the role of livesto The Principal Inve Type Reports, publications	ock breeding strate	egies to climate change mitigatic CCAFS Milestone No. (select from drop list / for fur 2012 - 2015 LOGI adaptation strategy against the Uncompleted ot deliver any work owing Description er on livestock breeding climte change adaptation Acronym	ther details go to CC RAME sheet) impacts of climate to lack of comm Year 2012 t Full Name	change unication with the CRF Status Select a status Name	P 7 Focal point in 2012. Format Select a format heim Contact Point Email
CCAFS Objective (select from drop list)         Activity objectives (what the activity uims to achieve)       Object         Activity status       Activity status         Activity status       Activity status         Insert a small remark to indicate status of the activity. (2-4 sentences required per activit)       Deliverables status         Deliverables status       Vou may add any unexpected deliverable	the y)	1.2 Breeding strategies to provide a synthesis of the role of livesto The Principal Inve Type Reports, publications	ock breeding strate	egies to climate change mitigatic CCAFS Milestone No. (select from drop list / for fur 2012 - 2015 LOGI adaptation strategy against the Uncompleted ot deliver any work owing Description er on livestock breeding climte change adaptation Acronym Contact Poin	ther details go to CC RAME sheet) i impacts of climate to lack of comm Year 2012 t Full Name Wager	change unication with the CRF Status Select a status University of Hoheni Name	P 7 Focal point in 2012. Format Select a format heim Contact Point Email

				Activity No.	99				
Activity title		Quantification of the costs of adaptatio	n of livestock sy	stems to climate ch	nange				
CCAFS Objectiv (select from drop l		1.3 Policies and institutions fo	1.3 Policies and institutions for adaptation     CCAFS Milestone No. (select from drop list / for further details go to CCAFS 2012 - 2015 LOGFRAME sheet)     1.3.2 2014						1.3.2 2014
Activity objectives (what the activity aims to achieve)	Objective 1	o quantify the impacts of structural changes in livestock production systems on the costs of adaptation of the agricultural sector							
Activity statu	IS				Completed				
Insert a small remark to status of the acti (2-4 sentences required p	ivity.	-			e change impac				n, H., Weindl, I., Popp, A., Müller, C livestock production systems. PNA
		Туре		Description		Year	5	itatus	Format
Deliverables sta (You may add any unexpected)		Reports, publications		daptation of livesto ange (land use imp costs)		2012	Com	pleted	Document (*.doc, *.odt, *.pdf)
				Acronym				Name	
				PIK		Potsda	m Institute fo		ange Research
		ARI - Advanced Research Ins	stitution		Contact Point				Contact Point Email
					Hermann Lotz	e-Campen		lotz	ze-campen@pik-potsdam.de
				Acronym				Name	
				IIASA				Name	
Current Partne	ers	ARI - Advanced Research Ins	stitution		Contact Point	Full Name			Contact Point Email
					Petr Ha	vlik			havlik.petr@gmail.com
				Acronym				Name	
		Select a partner.			Contact Point	Full Name			Contact Point Email



Each Program Participant must provide a small remark against each activity/deliverable to indicate the status of the activity (2-4 sentences required per activity) using the form below. Updated data from the current partners is also required.

			A	Activity No. 100					
Activity title	•	Development and/or adaptation of suitab	le household mod	dels for studying risl	management i	n farming systems			
CCAFS Objectiv (select from drop I		communities to better manage climate	2.1 Identify and test innovations that enable rural communities to better manage climate-related risk and build more resilient livelihoods     CCAFS Milestone No. (select from drop list / for further details go to CCAFS 2012 - 2						2.1.2 2012
Activity objectives (what the activity aims to achieve)	Objective 1	nprove the handling of climatic risk in household models of smallholder systems							
Activity statu	IS				Completed				
Insert a small remark to status of the acti (2-4 sentences required p	ivity.	A prototype model has been de submitted directly to Theme 2 le the model includes questions ab	eader Jim Hanse	en. Note that G specially labour	ender could I allocation. Ti	be incorporate	d in future iterati Demonstrating a	ons as the	baseline survey used to develo
		Туре		Description		Year	Status		Format
Deliverables sta (You may add any unexpecte		Model tools and software		sehold models inco anagement develop			Completed		Other
	a active table y	Reports, publications		report		2012	Completed		Document (*.doc, *.odt, *.pdf)
			,	Acronym			Name		
						U	niversidad Nacion	al de San I	uis
		AI - Academic Institution		c	ontact Point F	ull Name			Contact Point Email
					Dr. German	n Baldi		ger	manbaldi@gmail.com
				Acronym			Name		
Current Partne	ers						Pennsylvania Stat	e Universi	ty
		AI - Academic Institution		C	ontact Point F	ull Name			Contact Point Email
					Dr. Charles Ni	icholson			cfn10@psu.edu
				Acronym			Nama		
				Acronym MARIL		Mana	Name		ihoods
		PRI - Private Research Institu		MARIL	ontact Point F		Name aging Risk for Imp	roved Livel	ihoods Contact Point Email

				tivity No. 101						
Activity title	2	Implement IBLI pilot in Borana	Jement IBL pilot in Borana							
CCAFS Objecti (select from drop		communities to better manage climation	2.1 Identify and test innovations that enable rural communities to better manage climate-related risk and build more resilient livelihoods     CCAFS Milestone No. (select from drop list / for further details go to CCAFS 2012 - 2015 LOGFRAME sheet)							
Activity objectives (what the activity aims to achieve)	Objective 1	establish an index-based insurance sche	ablish an index-based insurance scheme against drought for pastoralists in Borana, Ethiopia							
Activity state	15		Partially completed							
Insert a small remark to status of the act (2-4 sentences required	ivity.		I be finalized in M		RI will continue	this project under CRP	pleted, as described in the The Draf 7 in 2013. A second sales window is			
		Туре								
				escription	Year	Status	Format			
		Capacity		ontract designed	Year 2012	Status Completed	Format Other			
Deliverables st (You may add any unexpecte			IBLI C							
		Capacity	IBLI of	ontract designed	2012	Completed	Other			
		Capacity Other	IBLI co	ontract designed ered/sold through partners	2012	Completed	Other			
(You may add any unexpecte	ed deliverable)	Capacity Other	IBLI co	ontract designed ered/sold through partners tions process manual	2012	Completed Completed Partially completed	Other Other Document (*.doc, *.odt, *.pdf)			
	ed deliverable)	Capacity Other	IBLI co	ontract designed ered/sold through partners tions process manual	2012 2012 2012	Completed Completed Partially completed Name	Other Other Document (*.doc, *.odt, *.pdf)			



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			Ac	tivity No. 102					
Activity title		GHG inventory training courses for cour	ntries in the CCAFS regi	ons					
CCAFS Objectiv (select from drop I		3.1 Inform decision makers about the i agricultural development p		CCAFS Milestone No. from drop list / for further deta 2015 LOGFRAM			3.1.2 2012		
Activity objectives (what the activity aims to achieve)	Objective 1	A key goal of the workshop is to identif	y opportunities for futu	re collaboration and coordinated	d capacity building a	ctivities in livestock mitigat	ion research across African countries.		
Activity statu	s			Completed					
Insert a small remark to status of the acti (2-4 sentences required p	vity.	10 African countries particip	ated (complete list on was produced.	g the mitigation alter	Over 30 participants from more than natives for the livestock sector and ion of greenhouse gases in African				
		Туре	D	escription	Year	Status	Format		
Deliverables sta (You may add any unexpecte		Workshops		os on GHG inventories held rorkplan developed.	2012	Completed	Document (*.doc, *.odt, *.pdf)		
			Ac	ronym	Ministr	Name	environment		
		GO - Government office/dep	artment	Contact Point I			Contact Point Email		
Current Partne	ers		see details in workshop report Acronym GRA New Zealand Gr				search Alliance		
		ARI - Advanced Research Ins	stitution	Contact Point I	Full Name		Contact Point Email		
				Harry Cl	lark	I	harry.clark@agresearch.co.nz		
Activity title		Integrated assesment of scenarios of alt		tivity No. 103					
CCAFS Objectiv (select from drop I		3.1 Inform decision makers about the i agricultural development p		CCAFS Milestone No. from drop list / for further deta 2015 LOGFRAM			3.1.1 2012		
Activity objectives (what the activity aims to achieve)	Objective 1	to review the existing information on gl	obal terrestrial mitigati	on practices tested by the global	integrated assessme	ent teams for the IPCC AR5	report		
Activity statu	S			Completed					
Insert a small remark to status of the acti (2-4 sentences required p	vity.	Three journal articles have been	n written (see belo		so been directly sessment Report		Vitigation from the land use sector) of		
(2-4 sentences required p		Туре	D	escription	Year	Status	Format		
		Reports, publications	"How Much lar mitigation ca compromis	d-based greenhouse gas n be achieved without ing food security and ls? (Global Change Biology)	2012	Completed	Document (*.doc, *.odt, *.pdf)		
Deliverables sta (You may add any unexpecte		Reports, publications		y Growth: A way to reduce d greenhouse gas emissions	2012	Completed	Document (*.doc, *.odt, *.pdf)		
		Reports, publications		ock systems transition in the duction and climate change	2012	Completed	Document (*.doc, *.odt, *.pdf)		

			Ad	tivity No. 104					
Activity title		Review of PES for livestock							
CCAFS Objectiv (select from drop li		3.2 Identify institutional arrangements enable smallholder farmers and com users to reduce GHGs and impro	mon-pool resource	<b>CCAFS Milestone No.</b> from drop list / for further deto 2015 LOGFRAM			3.2.1 2012 (2)		
Activity objectives (what the activity aims to achieve)	Objective 1	to review the potential for establishing	eview the potential for establishing payments for ecosystems services, including carbon sequestration, in livestock systems						
Activity statu	5			Completed					
Insert a small remark to i status of the activ (2-4 sentences required p	vity.	This report was completed in	2012 and is availa	ble as an ILRI working pape	r. We have also g	iven a couple of co	onference presentations on the report.		
		Туре		Description	Year	Status	Format		
<b>Deliverables sta</b> (You may add any unexpected)		Reports, publications		the potential for payments ervices in livestock systems delivered	2012	Completed	Document (*.doc, *.odt, *.pdf)		
			A	cronym		Name McGill Universi	tv		
Current Partne	rs	AI - Academic Institutio	on	Contact Point F	Full Name	Wicom Oniversi	Contact Point Email		
				Philip Os			philip.osano@mail.mcgill.ca		
			Ad	ctivity No. 105					
Activity title		Establishment of a protocol for measuri	ng and monitoring GH	G emissions in smallholder system	15				
CCAFS Objectiv (select from drop li		3.3 Test and identify desirable on-farm landscape-level implica		CCAFS Milestone No. from drop list / for further deta 2015 LOGFRAM		E .	3.3.3 2012		
Activity objectives (what the activity aims to achieve)	Objective 1	to develop a protocol for measuring GH	G emissions in smallho	older production systems					
Activity statu	5			Completed					
Insert a small remark to i status of the activ (2-4 sentences required p	vity.	The pr	otocol has been s	uccessfully developed with	partners. A journa	l article has also b	een submitted.		
		Туре	[	Description	Year	Status	Format		
Deliverables sta (You may add any unexpected		Reports, publications	Development	of the protocol (Report)	2012	Completed	Document (*.doc, *.odt, *.pdf)		
		Reports, publications	journal article sub	mitted to Environ Res. Letters	2012	Completed	Document (*.doc, *.odt, *.pdf)		
				CRAF	w	Name Vorld Agroforestry	Centre		
		CG - CGIAR Center		Contact Point F	Full Name		Contact Point Email		
				Todd Roser	nstock		t.rosenstock@cgiar.org		
				cronym		Name			
		CG - CGIAR Center		CIFOR Contact Point F	Full Name		Contact Point Email		
Current Partne	rs								
				IRRI		Name			
		CG - CGIAR Center		Contact Point F	Full Name		Contact Point Email		
						Name			
				CIAT	Centro Int	Name ternacional de agri	cultura Tropical		
		CG - CGIAR Center		Contact Point F			Contact Point Email		
		CO COIAIT CEITE		contact Font F	un nume		Contact Fornt Linan		



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Activity title	•		e, management pi	ractcies and othe				s of household assets, infra-structure, crop a station/mitigation strageties on household w		
CCAFS Objectiv (select from drop )		4.2 Assemble data and tools for ana	ysis and planning		<b>Ailestone No.</b> to list / for further det 2015 LOGFRAN	(sei tails go to CCAFS 201. AE sheet)		4.2.1 2012 (3)		
	Objective 1	To develop/modify a tool for characteris	ing the dynamics	mics of livelihood activities in diverse agricultural production systems for climate change studies						
Activity objectives what the activity aims to achieve)	Objective 2	Develop databases of production system	is and web-based	ased metadatabases of the data collected to facilitate data exchange amongst scientists and interested parties						
	Objective 3	Collect household level information from at least 200 households from well targeted sites in the CCAFS regions for use in stu					use in studies planned by	the CCAFS themes		
Activity statu	IS				Completed					
nsert a small remark to status of the acti (2-4 sentences required p	ivity.	The survey has been implement	ed at 15 bench	hmark sites ar		lmost complete. been written.	The data are centrall	y stored at ILRI. A report and a train		
		Туре		Description		Year	Status	Format		
Deliverables sta	atus	Data	Databases containing climate change adag stu			2012	Completed	Database (*.sql, *.mdb, etc)		
(You may add any unexpecte	d deliverable)	Model tools and software	IMP	IMPACtilte manual and tool 2012			Completed	Document (*.doc, *.odt, *.pdf)		
		Capacity	data c	data collection training manual 2012			Completed	Document (*.doc, *.odt, *.pdf)		
				Acronym			Name			
				IWMI		Interna	tional Water Manage	ement Institute		
		CG - CGIAR Center			Contact Point			Contact Point Email		
					Sabine Dou:	xchamps	S	s.douxchamps@cgiar.org		
				•						
				Acronym ICRISAT		ntornational Cror	Name	for the Semi-Arid Tropics		
		CG - CGIAR Center		ICRISAT	Contact Point		is Research institute i	Contact Point Email		
		Co Contractine			Abdoulaye			a.moussa@cgiar.org		
				Acronym			Name			
				ICRAF			World Agroforestry	Centre		
Current Partne	ers	CG - CGIAR Center			Contact Point			Contact Point Email		
					Joash M	ango		j.mango@cgiar.org		
				Acronym			Name			
				INRAN		Institut Nation		gronomique du Niger		
		NARES - National agricultural and extension service			Contact Point			Contact Point Email		
		and extension service	5		Moussa Bo			Contact Point Email		
				Acronym			Name			
		NARES - National agricultural	research			Institute	Senegalais de Reche	rches Agricoles		
		and extension service			Contact Point	Full Name		Contact Point Email		
					Jesse N	laab				

Activity title	2	Refinement of global assessment tools better information on impacts on liveli						om, IMPACT, LPj and others to be able to provi rios	
CCAFS Objectiv (select from drop I		4.2 Assemble data and tools for an	alysis and plannin		<b>ilestone No.</b> list / for further det 2015 LOGFRAN	(select details go to CCAFS 2012 - AME sheet) 4.2.1 2012 (3)			
Activity objectives (what the activity aims to achieve)	Objective 1	to improve global integrated assessme to evaluate appropriate mitigation and			more sophisticated	questions in relati	on to the impacts of climat	e change on developing country agriculture, a	
Activity statu	IS				Partially complete	ed			
Insert a small remark to status of the acti (2-4 sentences required p	ivity.			On	ie reiew paper h	nas been compl	eted.		
		Туре		Description		Year	Status	Format	
		Model tools and software	Refined mod	lels developed for s	scenario analysis	2012	Partially completed	Select a format	
Deliverables sta (You may add any unexpecte		Reports, publications		ing paper on "Clima Activities: a Revie Models"		2012	Completed	Document (*.doc, *.odt, *.pdf)	
				Acronym			Name		
				IIASA			nal Institute for Applie		
		ARI - Advanced Research In	stitution		Contact Point			Contact Point Email	
Current Partne	ers				Gaspard Du	imollard		dumollar@iiasa.ac.at	
				Acronym			Name		
				IFPRI		Interr	national Food Policy Re	esearch Institute	
		CG - CGIAR Center			Contact Point	Full Name		Contact Point Email	
					regional integrated				
Activity title	2		where different liv	tion for global and vestock species are	regional integrated located, improved	definition of cropl		on of the types of production systems in partic is essential to improved regional integrated	
Activity title CCAFS Objectiv (select from drop I	ve	regions, improved spatial allocation of	where different lin s of differnet adap	tion for global and vestock species are ation and mitigatio	regional integrated located, improved	definition of cropl ticular regions (: tails go to CCAFS 20	and areas and others. This select		
CCAFS Objectiv (select from drop I Activity objectives	ve	regions, improved spatial allocation of assessmernts and to assert the impacts	where different liv s of differnet adap alysis and plannin	tion for global and vestock species are lation and mitigatio CCAFS M from drop	regional integrated e located, improved on strategies on part <b>ilestone No.</b> <i>list / for further det</i> <i>2015 LOGFRAM</i>	definition of cropl ticular regions (: tails go to CCAFS 20 AE sheet)	and areas and others. This select	is essential to improved regional integrated	
CCAFS Objectiv (select from drop I Activity objectives (what the activity aims to	ve list) Objective 1	regions, improved spatial allocation of assessmernts and to assert the impacts 4.2 Assemble data and tools for an	where different liv s of differnet adap alysis and plannin	tion for global and vestock species are lation and mitigatio CCAFS M from drop	regional integrated e located, improved on strategies on part <b>ilestone No.</b> <i>list / for further det</i> <i>2015 LOGFRAM</i>	definition of cropl ticular regions (: tails go to CCAFS 20 AE sheet)	and areas and others. This select	is essential to improved regional integrated	
CCAFS Objectiv (select from drop I Activity objectives (what the activity aims to achieve) Activity statu	ve list) Objective 1	regions, improved spatial allocation of assessmernts and to assert the impacts 4.2 Assemble data and tools for an to refine agricultural systems spatial cl This work is part of an ongo	where different lin of differnet adap aalysis and plannin, assifications for cli oing project un	tion for global and vestock species are lation and mitigatio g CCAFS IM from drop imate change mitig	regional integrated located, improved on strategies on pari liestone No. list / for further det 2015 LOGFRAM gation and adaptatio Completed mework 7 "Anin	definition of cropi ticular regions ( tails go to CCAFS 2t AE sheet) on studies nal Change" pro	and areas and others. This i select JIZ -	is essential to improved regional integrated 4.2.1 2012 (3) rs are working together to produce a	
CCAFS Objectiv (select from drop I Activity objectives (what the activity aims to achieve) Activity statu Insert a small remark to status of the acti	Ve list) Objective 1 IS indicate the ivity.	regions, improved spatial allocation of assessmernts and to assert the impacts 4.2 Assemble data and tools for an to refine agricultural systems spatial cli This work is part of an ong database of livestock produ	where different lin of differnet adap alysis and plannin, assifications for cli oing project un uction systems	tion for global and vestock species are lation and mitigatio g <b>CCAFS M</b> from drop imate change mitig	regional integrated located, improved on strategies on part ilestone No. list / for further det 2015 LOGFRAM gation and adaptatic Completed mework 7 "Anim acteristics. A da	definition of cropi ticular regions (c)	and areas and others. This i select JIZ - Dject. ILRI and partner n established and init	is essential to improved regional integrated	
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				Acronym			Nama	
				Acronym JRC			Name Joint Research Cen	tre
		Other		JAC	Contact Point F	ull Name	Joint Research Cell	Contact Point Email
		Other			Adrian L			adrian.leip@jrc.ec.europa.eu
					Adriant	eip		aunanneiplejre.ee.europa.eu
				Acronym			Name	
				Actonym			University of Preto	ria
		AI - Academic Institut	tion		Contact Point F	ull Namo	University of Frete	Contact Point Email
		Ai - Academic institut	1011					
					A. Hass	en		abubeker.hassen@up.ac.za
				Activity No.	109			
Activity title		Policy workshop and outreach East Afri and environmental variables for the re						scenario on selected livelihoods, food securi
				CCAFS N	lilestone No.	(si	elect	
CCAFS Objectiv (select from drop l		4.2 Assemble data and tools for an	alysis and planning		o list / for further deta	ails go to CCAFS 20.		4.2.1 2012 (5)
(select from drop h	istj				2015 LOGFRAM	E sheet)		
Activity objectives (what the activity aims to achieve)	Objective 1	To delvelop a set of regional socio-eco	nomic scenarios for	r each of the CCA	FS regions for adding	context to subsequ	uent CCAFS activities	
Activity statu	IS				Partially complete	d		
Insert a small remark to status of the acti (2-4 sentences required p	ivity.	process also started. Instead	l of vulnerability	y threshold as	sessment we con	ducted a review	of adaptation indicat	econd workshop was held). South As ors across food system/ food securit special issue of Global Env. Change.
		Туре		Description		Year	Status	Format
		Reports, publications	Report of E	ast Africa policy	processand a	2012	Completed	Document (*.doc, *.odt, *.pdf)
				policy brief				
		Reports, publications	one sub	mitted journal a	ticle paper	2012	Completed	Document (*.doc, *.odt, *.pdf)
			one sub	initited journal a	ticle paper	2012	completed	bocument ( .doc, .out, .put)
Deliverables sta (You may add any unexpected)		Reports, publications	Report on Eas	st African scenario process	os quantification	2012	Completed	Document (*.doc, *.odt, *.pdf)
		Reports, publications		adaptaiton indica or food systems		2012	Completed	Document (*.doc, *.odt, *.pdf)
				A			Nama	
				Acronym			Name	
Current Partne	ers						University of Oxfo	
		AI - Academic Institut	ion		Contact Point F			Contact Point Email
					Angela Will	kinson		a.wilkinson@eci.ox.ac.uk
Activity title		A framework for upscaling climate chan	nge adapatation an	nd mitigation opti	ons			
CCAFS Objectiv (select from drop l		4.2 Assemble data and tools for an	alysis and planning		<b>filestone No.</b> b list / for further deta 2015 LOGFRAM	ails go to CCAFS 20.	elect 12 -	4.2.1 2012 (5)
, , , , , , , , , , , , , , , , , , , ,				adaptation and	mitigation options at	the regional level		
Activity objectives (what the activity aims to achieve)	Objective 1	to develop a framework for upscaling t	he impacts of local					
Activity objectives (what the activity aims to		to develop a framework for upscaling t	the impacts of local		Completed			
Activity objectives (what the activity aims to achieve) Activity statu Insert a small remark to status of the acti	indicate the vivity.				et al. 2012. A fran	nework for targ Kenya)	geting and scaling out i	nterventions in livestock systems. II
Activity objectives (what the activity aims to achieve) Activity statu Insert a small remark to	indicate the vivity.	A report has been prepared on		(Herrero,M. e	et al. 2012. A fran	Kenya)		
Activity objectives (what the activity aims to achieve) Activity statu Insert a small remark to status of the acti	indicate the ivity. ber activity)	A report has been prepared on Type	the framework	(Herrero, M. e	et al. 2012. A fran Nairobi	Kenya) Year	Status	Format
Activity objectives (what the activity aims to achieve) Activity statu Insert a small remark to status of the acti (2-4 sentences required p	indicate the ivity. ber activity)	A report has been prepared on	the framework	(Herrero,M. e	et al. 2012. A fran Nairobi	Kenya)		nterventions in livestock systems. Il Format Document (*.doc, *.odt, *.pdf)

Activity title	•	Development and/or refinement of hous	ehold level models fo	or climate change studies				
CCAFS Objection (select from drop of		4.2 Assemble data and tools for anal	ysis and planning	CCAFS Milestone No. from drop list / for further de 2015 LOGFRA	etails go to CCAFS 20	elect 112 -	4.2.1 2012 (5)	
Activity objectives (what the activity aims to achieve)	Objective 1	to develop and /or adapt existing suites o	of household level mo	odels form climate change adapt	ation, risk managen	nent and mitigation studies		
Activity statu	IS			Partially complet	ted			
Insert a small remark to status of the act (2-4 sentences required p	ivity.	This activity involves several d	ifferent outputs n		pleted in 2013. A mitted.	workshop was held in 20	012. Two review papers have bee	
		Туре		Description	Year	Status	Format	
Deliverables sta		Model tools and software	adapatation a developed, includi cliamte variabilit across a wide rar agro-pastoral to	ehold models for testing and mitigation strategies ng models that can deal with y and that can be applicable uge of farming systems (rom more intensive mixed crop- estock systems	2013	Partially completed	Document (*.doc, *.odt, *.pdf)	
(You may add any unexpecte	d deliverable)	Reports, publications	report o	n improved models	2013	Select a status	Select a format	
		Reports, publications	2 papers on the u	se of the new modeling tools	2013	Select a status	Select a format	
		Workshops	Amst	erdam workshop	2012	Completed	Document (*.doc, *.odt, *.pdf)	
			A	cronym		Name		
		AI - Academic Institutio	in	Contact Point	Full Name	University of Hohenhei	Contact Point Email	
		Al - Academic institutio		Thomas		thom	as.berger@uni-hohenheim.de	
				cronym APSIM	Agrici	Name	s Simulator	
Current Partne	ers	ARI - Advanced Research Inst			Agricultural Production Systems Simulator bint Full Name Contact Point Email			
				peter ca	rberry		peter.carberry@csiro.edu	
			A	cronym		Name		
		ARI - Advanced Research Inst	titution	Contact Point	t Full Name		Contact Point Email	
			Ad	tivity No. 317				
Activity title	,	Dissemination of gender - climate change theme gender and pro-poor action resea		nder methods training activities	organized in 3 regio	ns. ToR for gender technical ad	dvisory group developed and new cross-	
CCAFS Objection (select from drop)		4.1 Linking Knowledge with	Action	CCAFS Milestone No. from drop list / for further de 2015 LOGFRA	tails go to CCAFS 20	elect 112 -	4.1.3	
Activity objectives (what the activity aims to achieve)	Objective 1	Dissemination of gender - climate change theme gender and pro-poor action resea		nder methods training activities	organized in 3 regio	ns. ToR for gender technical ad	dvisory group developed and new cross-	
Activity statu	IS			Partially complet	ted			
Insert a small remark to status of the act (2-4 sentences required p	ivity.	This activity involves several d	ifferent outputs n		pleted in 2013. <i>A</i> mitted.	workshop was held in 20	012. Two review papers have bee	
		Туре	ſ	Description	Year	Status	Format	
Deliverables sta (You may add any unexpecte		Workshop	in Sub-Sahara	te smart agricultural systems n Africa: Current Status, aps and Future Directions	2012	completed	workshop report	
		Data collection	Module	added to ImpactLite	2012	completed	Select a format	

			Acronym			Name		
						University of Ho	henheim	
		AI - Academic Institution	n	Contact Point F	ull Name			Contact Point Email
			Acronym			Name		
Current Partne	ers					University of Ta	asmania	
		AI - Academic Institution	n	Contact Point F	ull Name			Contact Point Email
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			Acronym		Wagoning	Name en Unversity an	d Pocoard	h Contro
		ARI - Advanced Research Insti	itution	Contact Point F		en onversity an	iu nesearc	Contact Point Email
		An Advanced Research inst		contact i onit i				
Activity title		Follow up workshop on developing virtua	I cron varieties in the context o	f crop modelling softwa	re			
Activity title		Tonow up workshop on developing virtua						
CCAFS Objectiv		4.3 Refine frameworks for polic		Milestone No. op list / for further detail	(selec) - ils ao to CCAFS 2012			
(select from drop l	list)		,	2015 LOGFRAME				
		Coordinating activities among crop breed						
		rice for identified potential technologies t the selected sites in WCA, ESA and Asia, 4						
Activity objectives	Objective 1	Ruminant software into the IMPACT mo	deling system),		•			
Activity objectives (what the activity aims to		5. cassava and beans for identified poten	itial technologies for CIAT					
achieve)	Objective 2	Representation in meetings						
	Objective 3	Preparation of working paper on simulati	on analyses of virtual crop mod	els in the areas of specia	alization			
				Partially Completed				
Activity statu	IS			Partially Completed				
		Fallen das a sumbas af marketer						
Insert a small remark to	indicate the	-				-		tware into the IMPACT modeling and the incorporation of these
status of the act				•		•		ing environment after which the
(2-4 sentences required p	er uctivity)		final repo	rt on the simulation	analysis will be	completed.		
		Туре	Descriptio	n	Year	Status		Format
		Model tools and software	Ruminant outputs linked t	o IMPACT model	2012	Completed		Other
Deliverables sta	atue	Wedeberg		and an electronic state and	2012	Consideration		Other
(You may add any unexpecte		Workshops	IMPACT modeling meeting	s and workshops	2012	Completed		Other
		Reports, publications	Report on promising techno		2012	Partially Complet	ed	Document (*.doc, *.odt, *.pdf)
			and their assessment using	simulation analysis		,		
			Acronym		Inter-ti-	Name	Decentric	Institute
Current Partne	ers	CG - CGIAR Center	IFPRI	Contact Point F		onal Food Policy	Research	Contact Point Email
		CG - CGIAK Center		Siwa Msa				
				Siwa Wisa	1151			s.msangi@cgiar.org



### 2012 summary report of activities and deliverables by Output level

Each Program Participant must prepare a succinct summary of activities and deliverables, organised by Output level of the CCAFS objectives. Length is dependent on budget size so please refer to the table on the explanatory notes.

#### **CCAFS Center Led Activities**

#### **ILRI - International Livestock Research Institute**

Objective 1.1 Analyze and design process	Theme 1. Adaptation to Progressive Climate Change ses to support adaptation of farming systems in the face of future uncertainties of climate in space and time
Outcome 1.1: Agricultural and food secu	rity strategies that are adapted towards predicted conditions of climate change promoted and communicated by the key development and funding agencies (national and and private sector in at least 20 countries
Output 1.1.2 Building of regional and nat	ional capacities to produce and communicate socially inclusive adaptation and mitigation strategies for progressive climate change at the national level (e.g. through NAPAs)
Prepare a succinct summary of activities and deliverables, organised by Output level of the CCAFS objectives	The ILRI led study on "Reverse Genesis" contributes to the identification of promising adaptation and mitigation strategies for pastoralist and agro-pastoralist households in "hotspots" of climate change.
Objective 1.2 Develop breeding strategie	es for addressing abiotic and biotic stresses induced by future climatic conditions, variability and extremes, including novel climates
research agencies who engage with CCA	biotic and biotic stresses induced by future climate change, variability and extremes, including novel climates mainstreamed among the majority of the international FS, and by national agencies in at least 12 countries
Output 1.2.1 Understanding and evaluati modeling, expert consultation and stake	ing the response of different varieties/crops to climate change in time and space, and generating comprehensive strategies for crop improvement through a combination of older dialogue
Prepare a succinct summary of activities and deliverables, organised by Output level of the CCAFS objectives	n/a there is no deliverablein 2012.
Objective 1.3 Integrate adaptation strate	spies for agricultural and food systems into policy and institutional frameworks
Outcome 1.3: Improved adaptation polic	ies from local to international level supporting farming communities, rural institutions and food system actors adapted to future climate conditions in at least 20 countries.
Output 1.3.2 Public and private sector po	licies and strategies at the national level to enable farming communities and the food system to adapt to predicted future conditions
Prepare a succinct summary of activities and deliverables, organised by Output level of the CCAFS objectives	IRLI and partners conducted modeling simulations. Their output contributes an estimate of the costs of adaptation due to crop productivity increase and land expansion in Africa and Asia.
	Theme 2. Adaptation through Managing Climate Risk
Objective 2.1 Identify and test innovatio	ns that enable rural communities to better manage climate-related risk and build more resilient livelihoods
Outcome 2.1: Systematic technical and p livelihood resilience in at least 20 countr	volicy support by development agencies for farm- to community-level agricultural risk management strategies and actions that buffer against climate shocks and enhance ries
Output 2.1.2 Analytical framework and t	cools to target and evaluate risk management innovations for resilient rural livelihoods and improved food security
Prepare a succinct summary of activities and deliverables, organised by Output level of the CCAFS objectives	A prototype tool for modelling the resilience of households to climate-related risk ws developed and tested in the Borena benchmark site. Data collection allowed for parameterization of the model to capture houshold dynamics and institutional arrangements.
Output 2.1.3 Development; and demonst	tration of the feasibility, acceptability and impacts; of innovative risk management strategies and actions for socially-differentiated rural communities
Prepare a succinct summary of activities and deliverables, organised by Output level of the CCAFS objectives	A new contract for Index-Based Livestock Insurance was developed for southern Ethiopia, and a first sales period was initiated.
	Theme 3. Pro-Poor Climate Change Mitigation
Objective 3.1 Inform decision makers ab	out the impacts of alternative agricultural development pathways
Outcome 3.1: Enhanced knowledge and national agencies in at least 20 countries	tools about agricultural development pathways that lead to better decisions for climate mitigation, poverty alleviation, food security and environmental health, used by
Output 3.1.1 Analysis of agricultural dev	elopment pathways and trade-offs
Prepare a succinct summary of activities and deliverables, organised by Output level of the CCAFS objectives	
Output 3.1.2 Enhanced tools, data and a	alytic capacity in regional and national policy and research organizations to analyze mitigation sectors and agricultural development options
Prepare a succinct summary of activities and deliverables, organised by Output level of the CCAFS objectives	
Objective 3.3 Test and identify desirable	on-farm practices and their landscape-level implications
Outcome 3.3: Key agencies dealing with particularly vulnerable groups and wome	climate mitigation in at least 10 countries promoting technically and economically feasible agricultural mitigation practices that have co-benefits for resource-poor farmers, en
Output 3.3.3 Enhanced capacity for the u	use and development of monitoring and accounting methods and assessing feasibility and impacts in regional and national research institutions
Prepare a succinct summary of activities and deliverables, organised by Output level of the CCAFS objectives	Together with colleagues from ICRAF, IRRI, CIFOR and several universities, ILRI is collaborating in the establishment of the SAMPLES project, to develop a low-cost protocol to quantify greenhouse gas emissions and identify mitigation options for small holder farmers. In 2012 this work entailed a rethinking of the criteria and methods suitable for such systems, which include forestry, agroforestry, crops and livestocks. A journal mansucript has also been submitted to Environmental Research Letters.

#### Theme 4. Integration for Decision Making

#### Objective 4.2 Assemble data and tools for analysis and planning

Outcome 4.2 Improved frameworks, databases and methods for planning responses to climate change used by national agencies in at least 20 countries and by at least 10 key international and regional agencies

Output 4.2.1 Integrated assessment framework, toolkits and databases to assess climate change impacts on agricultural systems and their supporting natural resources Regional site and baseline characterization

Prepare a succinct summary of activities and deliverables, organised by Output level of the CCAFS objectives Data characterizing 3000 households and their farming activiities were collected across 15 CCAFS benchmark sites in West Africa, East Africa and South Asia. The data are stored in a centralized database at IRLI. Plans for cross-center and cross-site analysis are well under-way. Local partners were trained in the survey instrument. In East Africa a policy outrearch workshop was held to discuss adaptation strategies to enhance food security, livelihoods and the environment using the four scenarios developed by CCAFS. Scenarios development is proceeding in West Africa and South Asia.



# List of publications that acknowledge CCAFS support

(a) Each Program Participant must list all publications that acknowledge CCAFS support. Only include publications that came out in final version in the calendar year. Please do not include journal papers under review (submitted etc) or out in electronic format ahead of print, except of course for electronic-only journals.
(b) Please try to format references in the Harvard style. A clear guide can be found here: <a href="http://libweb.anglia.ac.uk/referencing/harvard.htm">http://libweb.anglia.ac.uk/referencing/harvard.htm</a>

(c) For journal articles, please indicate all of the references that are "green open access" with a single asterisk and those that are "gold open access" with a double asterisk. This is now a requirement from CGIAR donors. Green open access means that the authors have made a free copy available on a website. Gold open access means that the journal allows free download (either as standard practice or because the authors paid for it).
(d) For all publications that are up online, please provide a web link if possible. This will help us to advertise your work more widely.

	Туре	Citation identifier		
	Working papers	ISBN 92-9146-283-7		
Publication 1	Citation			
	Silvestri, S., P. Osano, J. de Leeuw, M. Herrero, P. Ericksen, J. Kariuki, J. Njuki, C. Bedlian and A.Notenbaert. 2012. Assessing the potential of payments for environmental services in livestock inclusive agricultural production systems in developing countries.ILRI, Nairobi, Kenya.			
	Туре	Citation identifier		
	Conference proceedings			
Publication 2		Citation		
	Rufino,M.C., P.K. Thornton,S.K. Ng'ang'a, IMutie, P. Jones, M.T. van Wijk andM. Herrero. 2012. Transitions in agro- pastoralist systems of East Africa: impacts on food security andpoverty. Tropentag, 19-21 September 2012, Gottingen, Germany. Book of Abstracts.			
	Туре	Citation identifier		
	Working papers			
	Citation			
Publication 3				
	van Wijk, M.T., M.C. Rufino, D. Enahoro,D. Parsons, S. Silvestri, R.O. Valdivia, M. Herrero. 2012. A review of farm household modelling with a focus on climate change adaptation and mitigation. Working Paper No. xx, CCAFS, Copenhagen, Denmark.			

	Туре	Citation identifier
	Journal papers	DOI 10.1007/s10584/s10584-012-0640-0
Publication 4		Citation
		Herrero, M., Silvestri, S. 2012. Can agriculture support climate change
	adaptation, greenhouse gas mitiga	tion and rural livelihoods? Insights from Kenya. Climatic Change DOI
		10.1007/s10584-012-0640-0
	Туре	Citation identifier
	Journal papers	
Publication 5		Citation
	Silvestri, S., Brvan, E., Ringer, C., Herrero	o, M., Okoba, B. 2012. Climate change perception and adaptation of agro-
	. –	n Kenya. Regional Environmental Change: 12(4): 791-802
	Type	Citation identifier
	Journal papers	DOI 1.1007/s10113-012-0368-4
Publication 6		Citation
	Notenbaert, A., Karania, S., Herrero, M., M	laute, F., Moyo, S. 2012. Derivation of a household -level vulnerability index
	-	ion. Regional Environmental Change, 10.1007/s10113-012-0368.
	Туре	
		Citation identifier
	Working papers	Citation identifier
Publication 7		Citation Identifier
Publication 7	Working papers	
Publication 7	Working papers Ng'anga, S.K., Maute, F., Notenbaert, A.,	Citation
Publication 7	Working papers Ng'anga, S.K., Maute, F., Notenbaert, A.,	<b>Citation</b> Herrero, M., Moyo, S. 2012. Coping strategies and vulnerabilty to cliamte
Publication 7	Working papers Ng'anga, S.K., Maute, F., Notenbaert, A., change of households in Mozar	<b>Citation</b> Herrero,M., Moyo, S. 2012. Coping strategies and vulnerabilty to cliamte mbique. CCAFS Working Paper No. 28 Copenhangen, Denmark.
Publication 7	Working papers Ng'anga, S.K., Maute, F., Notenbaert, A., change of households in Mozar <b>Type</b>	<b>Citation</b> Herrero, M., Moyo, S. 2012. Coping strategies and vulnerabilty to cliamte
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	Working papers Ng'anga, S.K., Maute, F., Notenbaert, A., change of households in Mozar <b>Type</b>	Citation Herrero,M., Moyo, S. 2012. Coping strategies and vulnerabilty to cliamte mbique. CCAFS Working Paper No. 28 Copenhangen, Denmark. Citation identifier
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	Working papers Ng'anga, S.K., Maute, F., Notenbaert, A., change of households in Mozar Type Journal papers Smith, P., C.A. Davies, C.A., Ogle, S., Zar	Citation Herrero,M., Moyo, S. 2012. Coping strategies and vulnerabilty to cliamte mbique. CCAFS Working Paper No. 28 Copenhangen, Denmark. Citation identifier Citation
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## 2012 Case studies

Number of case studies to be submitted is dependent on budget size so please refer to the table on the explanatory notes. Each case study should be about half a page, and Program Participants are expected to build a portfolio of case studies over the years that demonstrate all different types.

	Title		Author			
	Household data collection across CCAFS bench	nmark sites	Polly Ericksen, Mariana Rufino			
	Type Date (DD/MM/Y	YYY) Countries				
	Inter-center collaboration 31/1/2013	3	all CCAFS benchmark sites			
	Keywords		Photo URL			
	household surveys, characterization					
	Introduction/Objectives (400 characters) The objective of the cross-benchmark site data collection is to compile a detailed, standardized farm level characterization of representative households in each of the CCAFS benchmark sites. This data can be used to analyze baseline trends, analyze ex-ante impact assessment of shocks, and model the potential of farm-level adaptation and mitigation strategies.					
	Description of the project, procedures etc. (1100 characters)					
	A standardized detailed survey instrument (Impactilte) was used with 200 households at each of the 15 benchmark sites. Households were filtered and randomly sampled within this. The data collected include detailed information about household size, production systems and activities, land income from different sources, and household consumption of food. Cross-centre collaboration with ICRAF resulted in additional information about included. Discussions with IFPRI will result in the addition of a gender module in 2013. At each site data were collected and recorded using the sa database of all 3000 households is being finalized at ILRI and will be uploaded to Dataverse. ILRI has developed a database platform that enables scientists to access the data for analysis. Plans for data analysis and paper writing are being developed through team meetings that include multi multi-center and partner team also plans to share analytical scripts so that findings can be compared across sites. This shared analysis is also a co cross- site and cross-team learning about data analysis and household modelling.					
CASE STUDY 1	Project results (be concrete as possible), innovate findings, novel outcomes and short discussion on the implication of these results (1100 characters) The first novel result is the compilation of a representative and cross-CCAFS site database of 3000 households, which multiple scientists can have access to. This sort of data is extremely hard to come by. The second important result is the tremendous potential for analysis using this data. In terms of characterization, this data will be used to compare the sites in terms of agreed indicators, including biophysical (rainfall, LGP), production systems (livestock, mixed crop-livestock, commercial crops, etc.), social (household size, household income, gender household head, poverty status). This will be the starting point for analysing the tradeoffs that households will have to consider when adopting either adaptation strateiges or implementing mitigation strategies, across all of the agricultural systems and household types that the CGIAR addresses. The true potential of the data will be realized with household modelling to do ex-ante impact assessments of the potential for household to adopt adaptation and mitigation interventions or strateiges, and the consequences of such adoption for food security, nutrition and health, poverty alleviation, and environmental outcomes. The household models can be contextualized at the regional scale by using the CCAFS Regional Scenarios as "boundary conditions" for four different in each. This combined approach will enable the testing of "nobust" adaptation and mitigation strategies. The shared learning taking place throughout the project, from data collection to analysis and paper writing, is also a novel approach to capacity development across CG centres and with non-CG partners. It will engender a strong team with excellent analytical skills. <b>Partners involved and their role (250 characters)</b> LIRI scientists led the training with participation from the CCAFS regional teams (W. Africa, E. Africa and S. Asia) as					
	Rufino, M.C., et al. 2012. Developing generic tools for cha	racterizing agricultural sys	tems for climate and global change studies. CCAFS Report. Rufino, M.C. etal 2012. In			

	Title			Author	
	ilding African capacity to measure and mit	tigate greenhouse gases in	livestock syste	Polly Ericksen, Silvia Silvestri, Mariana Rufino, Klaus Butterbach-bol	
	Туре	Date (DD/MM/YYYY)	Countries		
	Capacity enhancement	1/30/2012	Burkina Fa	aso, Ethiopia, Ghana, Kenya, Mali, Niger, Sengal, South Africa, Tanzania, Uganda	
	Keywords	_, ,		Photo URL	
	GHG emissions, GHG measureme	ent mitigation livestock sv	stems		
			stems		
	Introduction/Objectives (400 characters) ILRI has committed to the goal of establishing a pan-African network of excellence designed to identify climate change mitigation options for livestock systems and to improve GHG inventories in Africa. This will allow developing countries to contribute on equal terms to cliamte negotiations. This includes establishing state-of-the-art analytical facilities to estimate GHG emissions as well as building regional capacity to generate knowledge and translate it into policy and practice. The information produced will be used to designe region- and system-specific management options both to mitigate livestock-related GHG emissions and to improve livestock-based				
	livelihoods. Description of the project,, procedures etc. (1100 characters)				
CASE STUDY 2	A training workshop was held in September 2012 with several goals. Overall, the workshop aimed to improve understanding of livestock systems in Africa, their greenhouse gas emissions and the special characteristics of African livestock systems. It showcased existing research programmes and documented critical data, knoweldge and capability gaps in order to identify activities that will enhance the region's ability to measure, monitor and develop options to mitigate greenhouse gas emissions intensity from livestock systems while also improving the livelihoods of smallholder farmers. An additional goal of the workshops was to identify opportunities for future collaboration and coordinate capacity building activities in livestock mitigation research across African countries. At the workshop, African participants were trained by leading international scientists in the IPCC greenhouse gas inventory methodology; the current state of the African inventory including available sources of data; emission factors and measurement techniques; and mitigation pathways and opportunities. The participating countries also shared their own knowledge and inventories, and discussed challenges they face in improving measurement and estimation of measurements. Theworkshop concluded with the development of a specific workplan to improve collaboration, training, inventory development and mitigation actions.				
	Droject results (he concrete as possible)	innovata findinga noval a	utcomes and show	rt discussion on the implication of these results (1100 characters)	
	Improving the environmental performance of livestock systems in developing countires, where demand for livestock products is growing rapidly, is a critical input to stabilizing global warming. But Africa lags behind in the detailed knowledge and data necessary to develop GHG mitigation strategies that will a) be accepted by international protocols b) be implemented by farmers. Without this knowledge, the livestock sector in Africa is unlikely to benefit from Clean Development Mechanism projects or other emerging carbon markets. The project that ILRI plans will deliver a network of centres measuring GHG emissions across Africa and trained regional capacity for measuring GHGs, developing national inventories and identifying mitigation options. The collaboration with the Global Research Alliance on Agricultural Emissions initiated in this case study is a first step towards these longer term goals. The training initiative identified key capacity and data needs for West and East Africa, in consultation with some of the leading scientists in the world on greenhouse gas emissions in livestock systems. It also established a preliminary network of experts for the next step of establishing a pan-African network.				
	Partners involved and their role (250 cha	aracters)			
	Global Alliance Livestock Research Group and ILRI, along with Theme 3 of CCAFS conducted a training for 20 participants from government, research institutes and universities in the 10 African countries listed above.				
			e 3 of CCAFS condu	ccted a training for 20 participants from government, research institutes and	
	universities in the 10 African countries lis Links/Sources for further information	ted above.		ucted a training for 20 participants from government, research institutes and vertice and	
	universities in the 10 African countries lis Links/Sources for further information	ted above.			
	universities in the 10 African countries lis Links/Sources for further information Silvestri,S. and D. Knox. Measurement ar	ted above. nd mitigation of greenhouse		ivestock systems: building capacity to meet the challenge. Workplan and Workshop	
	universities in the 10 African countries lis Links/Sources for further information Silvestri,S. and D. Knox. Measurement ar Title Index Based Livesto	ted above. nd mitigation of greenhouse pck Insurance (IBLI)	e gases in African li	vestock systems: building capacity to meet the challenge. Workplan and Workshop Author	
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# 2012 Outcome report

Frequency of reporting outcomes is dependent on budget size so please refer to the table on the explanatory notes. (max 1 page)

OUTCOME 1	What is the outcome of the research (use of research results by non-research partners)?         ILRI's work on revised mitigation protocols for the livestock sector has been included in the IPCC Fifth Assessment Report Chapter 11 on Mitigation from         What outputs produced in the three preceding years resulted in that outcome?         ILRI's modelling work on land use change, livestock systems and greenhouse gas emissions enabled papers produced in 2011 (Herrero et al 2012.         Global Livestock: biomass use, products, emissions and excretions. PNAS; Bouwma.A.F. et al, 2011. Havlik, P, et al 2011. The role of livestock systems transition in the future of food production and climate change mitigation PNAS; Exploring global changes in nigrogen and phosphorus cycles in arricultrue induced by livestock production. PNAS doi/10.1073/nnas.1012878108) and 2012 (Smith. P. et al. 2013. How much land based greenhouse.         Which partners helped in producing the outcome?         Partners at IIASA (International Institute for Applied Systems Analysis).         Who used the output?
	Who used the output?
	The Inter-governmental Panel on Climate Change (IPCC).
	How was the output used?
	It was included in the Fifth Assessment Report to make recommendations about migitation options in livestock systems.
	What is the evidence for this outcome: Specifically, what kind of study was conducted to show the connection between the research and the outcome? Who conducted it? Please provide a reference or source.
	No study. The evidence is in the authorship and content of the IPCC Fifth Assessment Report.

What is the outcome of the research (use of research results by non-research partners)?

The East African Scenarios were used with civil society partners to develop "Stategic Futures" for enhancing food security and livelihoods under climate

What outputs produced in the three preceding years resulted in that outcome?

The regional scenarios workshops in East Africa that ILRI supported with CCAFS. The modelling and data collection to quantify the scenarios done using

What partners helped in producing the outcome?

ILRI, IFPRI, ASARECA, Kenya Agricultural Research Institute, Society for International Development for Eastern Africa, Ethiopian Institute for Agricultural Research, Tanzanian Min of Agriculture, Food Security and Cooperatives, IGAD Climate Predictions Centre (ICPAC) and others listed in the CCAFS East African Scenarios Report.

OUTCOME 2 Who used the output?

A group of non-state actors and policy advisors convened by the East African Community and SID-East Africa, along with CCCAFS, at a "Strategic Futures"

How was the output used? The output was used to develop "robust" adaptation strategies and interventions to ensure tood security, livelinoods and environmethal goals under climate change across the East African Community. The next step will be more policy outreach to a ) support the East Africa Farmers Federation to be a stronger voice in policy negotions; b) establish a strategic futures unit for the EAC; c) build more awareness about priority actions for climate change adaptation

What is the evidence for this outcome: Specifically, what kind of study was conducted to show the connection between the research and the outcome? Who conducted it? Please provide a reference or source.

CCAFS East Africa Scenarios Working Report (in prep); CCAFS East Africa Strategic Futures Workshop for Non-State Actors (see CCAFS website) workshop



# Gender and Social Differentiation related activities summary report - 2012

CRPs that have presented their Gender Strategy to the Consortium in 2012 should show progress in 2013 in relation to implementing the Strategy. Therefore it is expected from Program Participants that findings of gender and social differentiation activities and their significance to be referred in this summary report. It is essential to relate progress towards outcomes to the baseline gender-differentiated conditions being used to measure change. This report should also refer specifically to what is being learnt about gender and how this knowledge is being used to inform research priority-setting and approach. If none or few of your activities integrate gender please explain why it is not relevant to your research portfolio.

#### CCAFS Center Led Activities ILRI - International Livestock Research Institute

ILRI's activities in 2012 contributed to three gender and social differentiation results. The first comes under all of the household data collection and analysis conducted for Themes 1 and 4. In both of these efforts, all data are gender disaggregated so that any resultant analyses will differentiate between men's choices and women's choices, the impact of adopting new strategies or interventions on men's and women's labour allocations and income earnings separately, and also the consequences for food security and nutrition. In subsequent years the fruits of this investment in gender disaggregated data will pay off as the anlyses and modelling is done. Second, gender and social differentiation emerged as key influences on adaptive capacity in the regional scenarios exercises that ILRI supports. A challenge to date has been the limited ability of the global models to capture differentiation in terms of income or gender. Hence the scenarios discuss income, gender and age differences largely in qualitative terms. Third, ILRI hosted a workshop at the request of ACIAR on the topic of "Gender and Climate Smart Agricultural Systems in Sub-Saharan Africa: Current Status, Experience, Gaps and Future Directions." The meeting brought together experts from across Africa to share experiences and discuss specific strategies for integrating gender into crop-livestock and climate change research.