

2012 Technical Report per Activity

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 No. 23									
Activity title		Contribution to Routledge Handbook New	challenges to food sec	curity: from climate ch	ange to fragile	states						
CCAFS Objectiv (select from drop I		2.1 Identify and test innovations that en- better manage climate-related risk and bui		ihoods	p list / for fu	urther details g LOGFRAME she			2.1.1 2012			
Activity objectives (what the activity aims to achieve)	Objective 1								ange, state fragility, shifts in land ownership and provision of humanitarian food aid.			
Activity statu	s				Select a status	5						
Insert a small remark to status of the acti (2-4 sentences required p	vity.											
Deliverables sta (You may add any unexpecte		Type Reports, publications	from climate chang will guide readers in factors require new and responding to	Description k New challenges to for the to fragile states. This understanding how error ways of conceptualist the moral imperative this insecurity.	handbook nerging risk ng hunger	Year	Select a	status	Format Select a format			
				Agranum				Name				
				Acronym DIIS			Danish Institute		ional Studies			
Current Partne	ers	ARI - Advanced Research Inst	titution		Contact Point				Contact Point Email			
					Ian Chris	toplos			ian@glemdev.com			
				Activity No. 24								
Activity title		Communities of practice										
CCAFS Objective (select from drop I		2.1 Identify and test innovations that enabetter manage climate-related risk and built		ihoods	p list / for fu	urther details g LOGFRAME she			2.1.1 2012			
Activity objectives (what the activity aims to	Objective 1	Establish 3 thematic "Commu	nities of Practice" acro	oss CGIAR and partners	(e.g., index ins	surance, crop/rang	geland/pest/diseas	e forecasting, h	ousehold bioeconomic modeling)			
achieve)	Objective 2			Web	portal on eacl	h research topic						
Activity statu	s			Pa	rtially complet	ted						
Insert a small remark to status of the acti (2-4 sentences required p	vity.	Platforms created for four topics: diversific	ation, climate services	s for farmers, index-ba	sed insurance,	and building resili	ence in food syster	n management				
Deliverables sta	tue	Туре		Description		Year	Stat	us	Format			
(You may add any unexpecte		Other	Web por	rtals on research topics			Partially co	ompleted	Select a format			
				Acronym				Name				
				Actonym				Bioversity				
		CG - CGIAR Center			Contact Point	t Full Name			Contact Point Email			
					Carlo F	adda			c.fadda@cgiar.org			
								New				
				Acronym ICRISAT		The Internation	onal Crons Rese	Name arch Institute	e for the Semi-Arid Tropics			
Current Partne	ers	CG - CGIAR Center			Contact Point		oar crops nese	a. c.i iiistitutt	Contact Point Email			
					a.tal@cgiar.org							
	Acronym Name											
		CC CCIAD C: 1		IRRI	Contact Del	t Full Norre	International	Rice Researc				
		CG - CGIAR Center			Contact Point	ruii ivame			Contact Point Email			

					Acti	ivity No. 26					
Activity title	,	Trac	ditional knowledge and climate risk ma	nagement							
CCAFS Objectiv (select from drop I			.1 Identify and test innovations that er ter manage climate-related risk and bu			from di		(se further details go t LOGFRAME sheet			2.1.1 2012
Activity objectives (what the activity aims to	Objective 1		Review and synthesize knowledge and	d evidence on ef	fectivenes	s, equitibility, sca	lability and tra		nal knowledge and strateg	ies for	managing climate-related risk (in focus
Activity statu	ıs						Partially comple	eted			
Insert a small remark to status of the acti (2-4 sentences required p	ivity.		was decided that the global level synthesis and review of indigenous/local knowledge and climate risk management should complement reviews conducted at the regional level that were a ommissioned by RPLs in 2012, so the start of the work was delayed until regional reviews are complete.							ed at the regional level that were also	
			Туре		De	scription		Year	Status		Format
Deliverables sta (You may add any unexpecte			Reports, publications	Synthesis		raditional know ng climate risk	ledge and		Select a status		Select a format
						Acronym			Name		
						IRI			ch Institute for Climate	and	Society - Columbia University
Current Partne	ers		ARI - Advanced Research Ins	stitution			Contact Poir Kevin			kri	Contact Point Email offey@iri.columbia.edu
							Keviii	concy		KC	oney@m.columbia.cdu
Activity title		Hou	isehold modeling of livelihood resiliend	ce to climate risk	κs						
CCAFS Objectiv (select from drop I			.1 Identify and test innovations that er ter manage climate-related risk and bu			from di		(se urther details go t LOGFRAME sheet			2.1.2 2012
Activity objectives (what the activity aims to achieve)	Objective 1	De	evelop and demonstrate a conceptual	framework and	prototype	tools for modeli	ng livelihood re	silience of rural housel	nolds in the face of climate-	-relate	d risk and risk management interventions.
Activity statu	ıs						Completed				
Insert a small remark to status of the acti (2-4 sentences required p	ivity.	Not	rototype model has been developed an te that Gender could be incorporated i monstrating a generic framework and	in future iteratio	ns as the b	aseline survey u	sed to develop	the model includes qu			tted directly to Theme 2 leader Jim Hansen. labour allocation. Title of reprt is
			Type Reports, publications			scription Report		Year 2012	Status Completed		Format Document (*.doc, *.odt, *.pdf)
			reports, publications			черогі		2012	Completed		bocament (.doc, .out, .pur)
			Model tools and software		Risk mo	del prototype		2012	Completed		Other
Deliverables sta (You may add any unexpecte			Data	Household characterization data collected, entered & deaned for Borana, Ethiopia & Makueni, Kenya				2012	Completed		Database (*.sql, *.mdb, etc)
			Data	Spatial characterization of land use in the Borana 2012 benchmark site through remote sensing				Completed		Select a format	
		Acronym				Name					
						ILRI		Int	ernational Livestock R	esear	rch Institute
Current Partne	ers		CG - CGIAR Center				Contact Poir				Contact Point Email
			Dr. M.T. van Wijk M.VanWijk						M.VanWijk@cgiar.org		

Activity title	2	Farm	n level modeling for ex-ante evalua	tion of index-based	d insurance					
CCAFS Objection (select from drop			L Identify and test innovations that er manage climate-related risk and		nunities to nt livelihoods from d		(so rther details go OGFRAME sheet			2.1.2 2012
Activity objectives (what the activity aims to achieve)	Objective 1	inde: and	x insurance and other financial inst incorporates: (i) a household's dec	truments on a rura cision to purchase i	I communities' resilience to insurance; (ii) household in ince products, b) the optim	o climate related ri evestments in risky nal combination of	sk, more specifically agricultural techno	y droughts. Specifically the logies, and (iii) household required to manage clima	e structu d consum	ake predictions about the likely impact c ral model will captures household behav ption decisions. This model will allow us nd c) the likely impact of these products
Activity statu	ıs					Completed				
Insert a small remark to status of the act (2-4 sentences required)	ivity.	A paper was written with simulations from Ethiopia. The paper was presented at the American Economic Association Meetings in San Diego, January 5-7, 2013. The paper is being revised in light discussant comments for submission to a leading economics journal.								13. The paper is being revised in light of
			Туре		Description		Year	Status		Format
Deliverables st (You may add any unexpecte		Reports, publications Report and paper to be submitted as DP and/or 20:				2012	Completed		Document (*.doc, *.odt, *.pdf)	
			Model tools and software		Farm level structural mode	el	2012	Completed		Other
					Acronym			Name	e	
					IFPRI			ernational Food Polic	y Resea	rch Institute
Current Partn	ers		CG - CGIAR Cente	er		Contact Point				Contact Point Email
						Miguel R	obies			m.robles@cgiar.org
Activity title		S	der and participatory action resean							
		Geno	act and participatory action research	cn	CCAFC MA	ilestone No	la	ala at		
CCAFS Objecti (select from drop		2.1	L Identify and test innovations that er manage climate-related risk and	t enable rural comr	nunities to nt livelihoods from d		(so rther details go OGFRAME sheet			2.1.3 2012 (1)
		2.1 bette	L Identify and test innovations that er manage climate-related risk and order to improve the participatory	t enable rural comr I build more resilier research methodo	nunities to nt livelihoods from d CCAF:	rop list / for fur S 2012 - 2015 Lo iate integration of	rther details go OGFRAME sheet gender and other n lerstand, organization	to t) neasures of social equity		S Theme 2 work, the UF research team
(select from drop	Objective 1 Objective 2	2.1 bette	L Identify and test innovations that er manage climate-related risk and order to improve the participatory	t enable rural comr I build more resilier research methodo	nunities to nt livelihoods from d CCAF: logies and ensure appropr m has taken a number of a	rop list / for fu S 2012 - 2015 Lo iate integration of approaches to und include assessment and de	rther details go OGFRAME sheet gender and other n lerstand, organization: Exception of an organization of a organization organization of a organization orga	to t) neasures of social equity onally, how CCAFS is inco		S Theme 2 work, the UF research team
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(select from drop	Objective 1 Objective 2 Objective 3	2.1 bette	L Identify and test innovations that er manage climate-related risk and order to improve the participatory	t enable rural comr I build more resilier research methodo iple levels. The tea	nunities to nt livelihoods from d CCAFS logies and ensure appropr im has taken a number of organizational a	rop list / for fui 5 2012 - 2015 Li iate integration of approaches to und include assessment and de baseline data a er challenges in the	rther details go OGFRAME sheet gender and other in lerstand, organization: evelopment of an or ssessment e dlivery of climate	to t) neasures of social equity onally, how CCAFS is inco	rporating	S Theme 2 work, the UF research team
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Activity objectives (what the activity aims to achieve) Activity statu Activity statu Insert a small remark to status of the act (2-4 sentences required)	Objective 1 Objective 2 Objective 3 Objective 4 Objective 5 Objective 6	2.1 betti	Lidentify and test innovations that er manage climate-related risk and order to improve the participatory sssessing the CCAFS project at multiple states and addition the team participated in the preliminary talk on the role of the unique states and redirected the states and redirected the project of the UF Team Type Reports, publications Select a data type	t enable rural commit build more resilier research methodo ipple levels. The teath of the Dec 10-12 mee of inequality and get the properties of the properti	Intitive to at livelihoods and ensure approprime has taken a number of state of a proprime has taken a number of state of a literature review of gend mation gathering from CC. ting, Scaling Up Climate Sender in understanding clin ders and key personnel at ction, though not complete the exception of a train the exception of a train of the exception of a train of the exception of the exc	rop list / for ful \$ 2012 - 2015 Li iate integration of approaches to und include assessment and de baseline data a er challenges in th AFS document rev rvices for Farmers nate services, 2) fa Completed prospective resear e, is likely to including plan. Given the le Information Lens"	rther details go OGFRAME sheet gender and other in terstand, organization versity of climate. The sessessment ed divery of climate in the sessessment in Africa and South clitation of Working the sites resources, re the Kaffrine, Senegal, the versity of the present of the pres	neasures of social equity onally, how CCAFS is inco nally, how CCAFS is inco nalline Prezi information services ant interviews (unstructu Asia. The roles and resp g Group 4 (inequalities), a western Kenya, and an I roject, conversations are Status Completed Completed	red) onsibilitie and 3) fac	Format Document (*.doc, *.odt, *.pdf) Presentation (*.ppt, *.odp)

		Acronym		ı	Vame	
		UF		University of Florida		
Current Partners	AI - Academic Institution		Contact Point Full Name		Contact Point Email	
			Sandra Russo		s.russo@ufl.edu	



2012 Technical Report per Activity

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 CCAS Objective Decision where the commence of Decision-Animage Prompts (Flective to ord Climate Information Challenges and Opportunities in the Case of Objective Information Challenges and Opportunities in the Case of Objective Information Challenges and Opportunities in the Case of Objective Information Challenges and Opportunities in the Case of Objective Information and Information Objective Information Challenges and Opportunities in the Case of Objective Information Challenges and Opportunities in the Case of Objective Information Challenges and Opportunities Information Challenges Information	Activity No. 34									
Current Partners Ocional Status Current Partners Ocional Status Current Partners Ocional Status Current Partners Ocional Status Ociona	Activity title		Enhancing Government-Led De	ecision-Making thr	rough Effective Use of Clima	e Informat	tion: Challenges ar	nd Opportunities in the Case	of Ethiopia	
Activity status Completed The project represents the first phase of a study on the use of advanced information for national planning and government decision making. The first phase included a review of the planning process where advanced information for national planning and government decision making. The first phase included a review of the planning process where advanced information can be incorporated into discount. A follow up project is currently underway to test different formation of information delivery and their influence on decision making. The project represents the first phase of a study on the use of advanced information for national planning and government decision making. The first phase included a review of the planning process where advanced information can be incorporated into discount. A follow up project is currently underway to test different formation of information delivery and their information can be incorporated into discount and information delivery and their information can be incorporated into discount and their information delivery and their information can be incorporated into discount and informa			information to better mana	age climate risk thr	se advance rough food details	om drop go to CC	o list / for furth AFS 2012 - 201		2.2.1 2012	
Insert a small remark to indicate the status of the activity. (2-4 sentences required per activity) Type Perception Report, publications PRI - Private Research institution Current Partners PRI - Private Research institution Activity title CCAS Objective Convictor of the activity COAS and a stranger of the activity is to identify mechanisms is introduced an advanced information for national parming and government decision—A follow up project is currently underway to test offerent formats of information delivery and their influence on decision—asking. Type Report, commenses strategy for increments strategy for impriving for of evening reporting for evening for evening reporting for evening for evening for evening reporting for evening for eve	(what the activity aims to	Objective 1	Review of the decentralized g	government decision					tical decision-making points that impact budget	
status of the activity. (2.4 sentences required per activity) Type Deliverables status From the senting process in Ethopia and identified key decision—naking processes where advanced information can be incorporated into decisions. A follow-up project is currently underway: to test different formation of information delivery and their influence on decision—naking. Type Description Report, publications Report,	Activity statu	ıs				Complete	d			
Reports, publications	status of the act	ivity.	planning process in Ethiopia ar	nd identified key de	ecision-making processes w	nere advan	iced information c			
Deliverables status (You may add any unaspected deliverable) Reports, publications Capacity gap analysis on the use of climate information by decision makers at all levels Current Partners PRI - Private Research Institution Activity No. 35 Activity No. 35 Activity title CCAFS Objective (sever from drap list) CCAFS Objective (sever from drap list) Conjunction to better manage climate first through food delivery, track and crisis response for delivery from drap list) Objective (short three activity pains to archivery) Objective (what the activity pains to archivery) Objective (what the activity pains to archivery) Objective (what the activity pains to archivery) Activity status The primary objective of this activity is to identify mechanisms to introduce indicators and appropriate thresholds that can provide early warning when seasonal climate variability, in the secondary objective of this activity is to identify mechanisms to introduce indicators and appropriate thresholds that can provide early warning when seasonal climate variability is the activity and the secondary objective of this activity is to identify mechanisms to introduce indicators and appropriate thresholds that can provide early warning when seasonal climate variability is likely to have advance effects on any appropriate thresholds that can provide early warning when seasonal climate variability is likely to have advance effects on any appropriate thresholds that can provide early warning when seasonal climate variability is likely to have advanced effects on any appropriate thresholds that can provide early warning when seasonal climate variability is contained to a provide and appropriate thresholds that can provide early warning when seasonal climate variability is contained to appropriate thresholds that can provide early warning when seasonal climate variability is contained to appropriate thresholds that can provide early warning when seasonal climate variability is contained to appropriate thresholds that can provide earl			Туре		Description		Year	Status	Format	
Current Partners PRI - Private Research Institution Activity No. 35 CCAFS Objective (select from drop last) COBjective 2 The primary objective of this activity is to identify mechanisms to introduce indicators and appropriate thresholds that can provide early warning when seasonal climate variability is (select from drop last) for further (select from drop last) for further (select from drop last) for further (select from drop last) COBjective 2 The primary objective of this activity is to identify mechanisms to introduce indicators and appropriate thresholds that can provide early warning when seasonal climate variability is (select from drop last) for further (select f	Deliverables et	Reports, publications improving Deliverables status		nproving food security repo		2012	Completed	Document (*.doc, *.odt, *.pdf)		
Current Partners PRI - Private Research Institution Activity No. 35 Activity title Pilot interventions increasing resilience to climate variability. Improving linkages between existing food security monitoring efforts (WFP and FAO), climate service providers, and government decision makers CCAFS Objective [speket from arop inst] Activity objectives [what the activity aims to achieve] Objective 2 Objective 2 Objective 2 Insert a small remark to indicate the status of the activity. Activity status Contact Point Full Name Teshome Erkineh Teshome Erkineh Contact Point Full Name Contact Point Fmall Teshome Erkineh Contact Point Full Name Contact Point Fmall Teshome Erkineh Teshome Erkineh Teshome Erkineh Contact Point Full Name Contact Point Fmall Teshome Erkineh Teshome Erkineh Teshome Erkineh Contact Point Full Name Contact Point Email Teshome Erkineh Te			Reports, publication	Reports, publications climate information by decision				Select a status	Select a format	
Current Partners PRI - Private Research Institution Activity No. 35 Activity title Pilot interventions increasing resilience to climate variability. Improving linkages between existing food security monitoring efforts (WFP and FAO), climate service providers, and government decision makers CCAFS Objective [speket from arop inst] Activity objectives [what the activity aims to achieve] Objective 2 Objective 2 Objective 2 Insert a small remark to indicate the status of the activity. Activity status Contact Point Full Name Teshome Erkineh Teshome Erkineh Contact Point Full Name Contact Point Fmall Teshome Erkineh Contact Point Full Name Contact Point Fmall Teshome Erkineh Teshome Erkineh Teshome Erkineh Contact Point Full Name Contact Point Fmall Teshome Erkineh Teshome Erkineh Teshome Erkineh Contact Point Full Name Contact Point Email Teshome Erkineh Te					Acronym			Name		
Activity No. 35 Activity No. 35 Activity Vitle Pilot interventions increasing resilience to climate variability. Improving linkages between existing food security monitoring efforts (WFP and FAO), climate service providers, and government decision makers CCAFS Objective (select from drop list) Activity objectives (whot the activity aims to achieve) Objective 1 Objective 2 The primary objective of this activity is to identify mechanisms to introduce indicators and appropriate thresholds that can provide early warning when seasonal climate variability is likely to have advances effects on agricultural production and/or household food security system analysts to foster dialoge about the type, format, and timing of climate services into the food security analysis process at national and sub-national levels in several countries in Asia. The Monsoon Forum events, organized and supported by RMES, provided opportunities to foster dialogue between national meteorological services and agricultural and food security analysis processes. The IPC Asia project provided an opportunity to identify mechanisms to integrate climate services into the food security analysis process at national and sub-national levels in several countries in Asia. The Monsoon Forum events, organized and supported by RMES, provided opportunities to foster dialogue between national meteorological services and agricultural and food security system analysts to format Deliverables status Type Description Year Status Format Deliverables status Document (*doc. *odt. *pdf)						al Services				
Activity title Pilot interventions increasing resilience to climate variability. Improving linkages between existing food security monitoring efforts (WFP and FAO), climate service providers, and government decision makers CCAFS Objective (select from drop list)	Current Partne	ers	PRI - Private Resea							
Activity title Pilot interventions increasing resilience to climate variability. Improving linkages between existing food security monitoring efforts (WFP and FAO), climate service providers, and government decision makers CCAFS Objective (select from drop list) 2.2 Identify and test tools and strategies to use advance information to better manage climate risk through food delivery, trade and crisis response Activity objectives (what the activity aims to achieve) Objective 2 The primary objective of this activity is to identify mechanisms to introduce indicators and appropriate thresholds that can provide early warning when seasonal climate variability is likely to have advaserse effects on agricultural production and/or household food security. The secondary objective of this activity is to obtain reports from Monsoon Forum events and share them with agricultural and food security system analysts to foster dialoge about the type, format, and timing of climate services needed to support decision-making processes. Activity status Completed The IPC Asia project provided an opportunity to identify mechanisms to integrate climate services into the food security analysis process at national and sub-national levels in several agricultural and food security system analysts about climate services needed to support decision-making processes. The IPC Asia project provided an opportunity to identify mechanisms to integrate climate services into the food security analysis process at national and sub-national levels in several agricultural and food security system analysts about climate services needed to support decision-making processes. Type Deliverables status Pocument (*.doc. *.odf. *.odf) Pour Status Pocument (*.doc. *.odf. *.odf)										
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Activity title Pilot interventions increasing resilience to climate variability. Improving linkages between existing food security monitoring efforts (WFP and FAO), climate service providers, and government decision makers CCAFS Objective (select from drop list) 2.2 Identify and test tools and strategies to use advance information to better manage climate risk through food delivery, trade and crisis response Activity objectives (what the activity aims to achieve) Objective 2 The primary objective of this activity is to identify mechanisms to introduce indicators and appropriate thresholds that can provide early warning when seasonal climate variability is likely to have advaserse effects on agricultural production and/or household food security. The secondary objective of this activity is to obtain reports from Monsoon Forum events and share them with agricultural and food security system analysts to foster dialoge about the type, format, and timing of climate services needed to support decision-making processes. Activity status Completed The IPC Asia project provided an opportunity to identify mechanisms to integrate climate services into the food security analysis process at national and sub-national levels in several agricultural and food security system analysts about climate services needed to support decision-making processes. The IPC Asia project provided an opportunity to identify mechanisms to integrate climate services into the food security analysis process at national and sub-national levels in several agricultural and food security system analysts about climate services needed to support decision-making processes. Type Deliverables status Pocument (*.doc. *.odf. *.odf) Pour Status Pocument (*.doc. *.odf. *.odf)						Teshom	e Erkineh		teshomee@geosas.net	
CCAFS Objective (select from drop list) CCAFS Objective (select from drop list) CCAFS Milestone No. (select from drop list / for further details go to CCAFS 2012 - 2015 LOGFRAME sheet) The primary objective of this activity is to identify mechanisms to introduce indicators and appropriate thresholds that can provide early warning when seasonal climate variability is likely to have advaserse effects on agricultural production and/or household food security system analysts to foster dialoge about the type, format, and timing of climate services needed to support decision-making processes. Completed The IPC Asia project provided an opportunity to identify mechanisms to integrate climate services into the food security analysis process at national and sub-national levels in several status of the activity. (2-4 sentences required per activity) Type Description Pear Status Format Deliverables status Decument (*.doc. *.odt. *.adf) Select a status Document (*.doc. *.odt. *.adf)						Teshom	ne Erkineh		teshomee@geosas.net	
CCAFS Objective (select from drop list) 2.2 Identify and test tools and strategies to use advance information to better manage climate risk through food delivery, trade and crisis response Coefficient of this activity is to identify mechanisms to introduce indicators and appropriate thresholds that can provide early warning when seasonal climate variability is likely to have adverse effects on agricultural production and/or household food security. The secondary objective of this activity is to obtain reports from Monsoon Forum events and share them with agricultural and food security system analysts to foster dialoge about the type, format, and timing of climate services needed to support decision-making processes. Completed The IPC Asia project provided an opportunity to identify mechanisms to integrate climate services into the food security analysis process at national and sub-national levels in several services required per activity. (2-4 sentences required per activity) Type Description Pear Status Format Deliverables status Document (*doc. *.odf. *.pdf)					Activity No. 35	Teshom	e Erkineh		teshomee@geosas.net	
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The secondary objective of this activity is to obtain reports from Monsoon Forum events and share them with agricultural and food security system analysts to foster dialoge about the type, format, and timing of climate services needed to support decision-making processes. Completed The IPC Asia project provided an opportunity to identify mechanisms to integrate climate services into the food security analysis process at national and sub-national levels in several countries in Asia. The Monsoon Forum events, organized and supported by RIMES, provided opportunities to foster dialogue between national meteorological services and agricultural and food security system analysts about climate services needed to support decision-making processes. Type Description Year Status Format Deliverables status Document (*doc.*odt.*.pdf)	CCAFS Objection	/e	government decision makers 2.2 Identify and test tools a information to better mana	and strategies to us age climate risk thro	te variability. Improving link se advance rough food (select f details	estone Norom dropgo to CC	nen existing food so No. D list / for furth AFS 2012 - 201	er	/FP and FAO), climate service providers, and	
Insert a small remark to indicate the status of the activity. (2-4 sentences required per activity) Type Description Deliverables status The IPC Asia project provided an opportunity to identify mechanisms to integrate climate services into the food security analysis process at national and sub-national levels in several countries in Asia. The Monsoon Forum events, organized and supported by RIMES, provided opportunities to foster dialogue between national meteorological services and agricultural and food security system analysts about climate services needed to support decision-making processes. Type Description Year Status Format Document (*doc. *odt. *.pdf)	CCAFS Objectives	/e ist)	government decision makers 2.2 Identify and test tools a information to better mana delivery, trade a	and strategies to us age climate risk thro and crisis response activity is to identif	te variability. Improving link se advance rough food CCAFS Mi (select i details	estone Norom dropgo to CC	nen existing food so lo. o list / for furth AFS 2012 - 201 ME sheet) and appropriate ti	ner 5 hresholds that can provide e	/FP and FAO), climate service providers, and 2.2.1 2012 arly warning when seasonal climate variability is	
countries in Asia. The Monsoon Forum events, organized and supported by RIMES, provided opportunities to foster dialogue between national meteorological services and agricultural and food security system analysts about climate services needed to support decision-making processes. Type Description Perormat Deliverables status Reports, publications Joint report on results from pilot 2012 Select a status Document (*.doc, *.odt, *.pdf)	CCAFS Objective (select from drop of the control of	/e ist) Objective 1	government decision makers 2.2 Identify and test tools a information to better mana delivery, trade a The primary objective of this a	and strategies to us age climate risk thr and crisis response activity is to identif lik his activity is to obt	te variability. Improving link se advance ough food CCAFS Mi (select i details fy mechanisms to introduce kely to have advserse effect tain reports from Monsoon	estone Norm drop go to CC OGFRAI indicators on agricul	ten existing food so list / for furth AFS 2012 - 201 WE sheet) and appropriate ti tural production a nts and share then	nersholds that can provide e nd/or household food secur n with agricultural and food	vFP and FAO), climate service providers, and 2.2.1 2012 arly warning when seasonal climate variability is ity. security system analysts to foster dialoge about	
Deliverables status Reports, publications Reports, publications Joint report on results from pilot 2012 Select a status Document (*.doc, *.odt, *.odf)	CCAFS Objective (select from drop) Activity objectives (what the activity aims to achieve)	Objective 1	government decision makers 2.2 Identify and test tools a information to better mana delivery, trade a The primary objective of this a	and strategies to us age climate risk thr and crisis response activity is to identif lik his activity is to obt	te variability. Improving link se advance ough food CCAFS Mi (select i details fy mechanisms to introduce kely to have advserse effect tain reports from Monsoon	estone Norm drop go to CC OGFRAI indicators on agricul forum ever limate sen	No. I list / for furth AFS 2012 - 201 WE sheet) and appropriate it tural production a nts and share then vices needed to su	nersholds that can provide e nd/or household food secur n with agricultural and food	vFP and FAO), climate service providers, and 2.2.1 2012 arly warning when seasonal climate variability is ity. security system analysts to foster dialoge about	
Reports, publications 2012 Select a status Document (*.doc. *.odt. *.bdf)	CCAFS Objective (select from drop of the select from d	Objective 1 Objective 2 Objective 2	government decision makers 2.2 Identify and test tools a information to better mana delivery, trade a The primary objective of this a The secondary objective of the	and strategies to us age climate risk thr and crisis response activity is to identif lik his activity is to obt the t	te variability. Improving link se advance ough food CCAFS Mi (select i details fy mechanisms to introduce kely to have advserse effect tain reports from Monsoon type, format, and timing of	estone Norm drop go to CC OGFRAI indicators on agricul Forum ever limate sen Complete	No. Dist / for furth AFS 2012 - 201 WIE sheet) and appropriate the tural production a not sand share then vices needed to suit the services into the vided opportunitie.	hresholds that can provide e nd/or household food secur n with agricultural and food pport decision-making proce e food security analysis proces to foster dialogue betwee	JFP and FAO), climate service providers, and 2.2.1 2012 arly warning when seasonal climate variability is ity. security system analysts to foster dialoge about esses.	
	CCAFS Objective (select from drop of the select from d	Objective 1 Objective 2 Objective 2	government decision makers 2.2 Identify and test tools a information to better mana delivery, trade a The primary objective of this a The secondary objective of the The IPC Asia project provided a countries in Asia. The Monson agricultural and food security s	and strategies to us age climate risk thr and crisis response activity is to identif lik his activity is to obt the t	te variability. Improving link se advance rough food CCAFS Mi (select i details fy mechanisms to introduce kely to have advserse effect tain reports from Monsoon type, format, and timing of identify mechanisms to inte organized and supported by out climate services neede	estone Norm drop go to CC OGFRAI indicators on agricul Forum ever limate sen Complete	ven existing food so list / for furth AFS 2012 - 201 WE sheet) and appropriate ti tural production a nits and share then vices needed to su d the services into the vided opportunitie t decision-making	hresholds that can provide e nd/or household food secur in with agricultural and food pport decision-making proce e food security analysis process to foster dialogue betwee processes.	JFP and FAO), climate service providers, and 2.2.1 2012 arly warning when seasonal climate variability is ity. security system analysts to foster dialoge about esses. ess at national and sub-national levels in several n national meteorological services and	

		Acronym		Name			
		WFP	W	orld Food Program			
	Other		Contact Point Full Name	Contact Point Email			
			Michael Sheinkman	m.sheinkman@wfp.org			
Current Partners		Acronym		Name			
				FEWSNET			
	NGO_DO - Non-governmental organization/Development organization		Contact Point Full Name	Contact Point Email			
	organization/ Development organization		Contact Point Full Name	Contact Point Email			
			Gary Eilerts	geilerts@usaid.gov			
		Activity No. 36					
		Activity No. 36					

Activity title		Climate risk-food security mapping tools									
CCAFS Objectiv (select from drop I		2.2 Identify and test tools and strateg information to better manage climat delivery, trade and crisis r	e risk through	ance	CCAFS Milestor (select from c details go to LOGF	drop lis	S 2012 - 20:				2.2.1 2012
Activity objectives	Objective 1	Build interactive climate risk-food securi region. The objective of this project is to security in Nepal, including a discussion	produce an ir	nformative	and easily accessi	ble refer	rence on risks	due to clima			smart decision-making, 1 country in each current and potential impact on food
(what the activity aims to	Objective 2	Synthesize the annotated bibliography	,								
achieve)	Objective 3	Perform analysis on climate variability	and its impact	t on variou	s sectors						
	Objective 4	Consultative Workshop in Kathmandu	and Islamibad	l							
	Objective 5	Develop Online Decision Support Tool	Develop Online Decision Support Tool								
Activity statu	ıs				Comp	leted					
Insert a small remark to status of the act (2-4 sentences required p	ivity.	Annotated bibliographies were complet mapping tools are complete. The tools a									
		Туре			tion		Year	:	Status		Format
		Model tools and software		decision su Pakistan an	ipport tool for id Nepal		2012	Co	mpleted		Other
Deliverables sta (You may add any unexpecte		Workshops	Provinci	ial consulta	l consultative workshops		2012	Co	mpleted		Other
		Reports, publications	Ani	notated bil	bliography		2012	Co	mpleted		Document (*.doc, *.odt, *.pdf)
				Acro	onym				Name		
		SDPI Sustainable Development Policy Institute							cy Institute		
		NGO_DO - Non-governmental organization/Development organization Contact Point Full Name Contact Point Email							Contact Point Email		
			,				ad Ramy				sramay@sdpi.org
Current Partne	ers						,				
				Acro	onym				Name		
					DRI			Nepal Dev	elopment Res	earch	n Institute
		PRI - Private Research Insti	tution		Contact	t Point F	Full Name				Contact Point Email
					Dr. L	axmi D	evkota			lpc	devkota@ndri.org.np
poenios e nano ginp											



2012 Technical Report per Activity

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.

			Ac	ctivity No. 3	37				
Activity title		Development of a spatial crop yield fore	casting platorm						
CCAFS Objectiv (select from drop l	ist)	2.3 Support risk management through of climate impacts on agriculture, and information and serv	d enhanced climate	on (sele	ails go to	e No. rop list / for fui CCAFS 2012 - 2 RAME sheet) vor existing platfor	015		2.3.1 2012
Activity objectives	Objective 1				Keview	v or existing plation	1112		
(what the activity aims to achieve)	Objective 2								act of climate change on crop yields. Toolkit rigation masks, cultivar and weather data
Activity statu	s				Comple	eted			
Insert a small remark to status of the acti (2-4 sentences required p	vity.	Review of existing platforms is complete. The first runs of the prototype platform were conducted in Nov. 2012.							
		Туре		escription	a austom	Year	Sta	tus	Format
		Reports, publications Crop/mageiand forecasting system platform design specifications report 2012						leted	Other
Deliverables sta		Model tools and software	So	ftware suite		2012	Comp	leted	Other
(You may add any unexpected	a deliverable)	Reports, publications	Hoogenboom, MODIS p	G. 2012. Inte roducs and a		2012	Comp	leted	Document (*.doc, *.odt, *.pdf)
		Workshops	rarticipated i	n JKC-CCAFS v ultations with		2012	Comp	leted	Other
				Acronym				Name	
			WSU Washington State University						
		Select a partner type			Contact	Point Full Name		9	Contact Point Email
					Dr. Gerri	tt Hoogenboon	า	<geri< td=""><td>rit.hoogenboom@wsu.edu></td></geri<>	rit.hoogenboom@wsu.edu>
Current Partne	ers			Acronym				Name	
				ARC			А	sia Risk Centre	e
		Select a partner type			Contact	Point Full Name			Contact Point Email
					Dr. Pr	remal Mehta		prem	nal.ehta@asiariskcentre.com
Activity title		Remote sensing data assimilation metho	odology, evaluation	n and worksho	ор				
COATE OLI		2.3 Support risk management through	enhanced predicti	on	Mileston	e No. rop list / for fui	ethou		
CCAFS Objectiv (select from drop l		of climate impacts on agriculture, and information and serv		6	ails go to	CCAFS 2012 - 2 RAME sheet)			2.3.1 2012
Activity objectives	Objective 1		ı	Develop remo		ata assimilation m	ethodology & eva	luate	
(what the activity aims to achieve)	Objective 2				Co-ho	st workshop with J	RC		
Activity statu	s				Partially co	mpleted			
Insert a small remark to status of the acti (2-4 sentences required p	vity.	EnKF software has been implemented. Workshop report is published online. Journal paper from IRI and JPL is submitted to Remote Sensing of Environment and in review. Jo paper from Future/Water on methodology adapted to heterogeneous smallholder environments is forthcoming.							sing of Environment and in review. Journal

	Туре		Description		Year	Status	Format	
	Model tools and software		e Kalman filter so d with 2 crop mod		2012	Completed	Other	
	Reports, publications	Report, "The added value of high- resolution above coarse-resolution remote sensing images in crop yield forecasting A case study in the Egyptian Nile Delta"			2012	Completed	Document (*.doc, *.odt, *.pdf)	
Deliverables status								
(You may add any unexpected deliverable)	Reports, publications	Journal paper, "Assimilation of Remotely Sensed Soil Moisture and Vegetation with a Crop Simulation Model"			2012	Completed	Document (*.doc, *.odt, *.pdf)	
	Workshops	Workshop report, "Combining crop models and remote sensing for yield prediction: Concepts, applications and challenges for heterogeneous, smallholder environments"			2012	Completed	Document (*.doc, *.odt, *.pdf)	
			Acronym JRC			Name EU Joint Research	Contac	
	Research_Network - Research	network	JAC	Contact Pr	oint Full Name	EO Joint Researci	Contact Point Email	
	nescuren_network nescuren	nection			s Kayitakire	franc	cois.kayitakire@jrc.ec.europa.eu	
							,,,,,	
			Acronym			Name		
			JPL			NASA Jet Propulsion	Laboratory	
	GO - Government office/depa	artment		Contact Po	oint Full Name		Contact Point Email	
				Nare	ndra Das	N	larendra.N.Das@jpl.nasa.gov	
Current Partners								
			Acronym IRI		Internati	Name	for Climate and Society	
	AI - Academic Institutio	ın	INI	Contact Po	oint Full Name	onal Research institute	Contact Point Email	
					or Ines		ines@iri.columbia.edu	
			Acronym			Name		
						FutureWat		
	PRI - Private Research Instit	ution		Contact Point Full Name			Contact Point Email	
				14.00	o Terink		w.terink@futurewater.nl	

	Activity No. 39										
Activity title Historic weather data reconstruction methodology development, data set development and capacity-building.											
CCAFS Objective (select from drop list) 2.3 Support risk management through enhanced prediction of climate impacts on agriculture, and enhanced climate information and services 2.3 Support risk management through enhanced prediction of climate impacts on agriculture, and enhanced climate information and services 4.3 Support risk management through enhanced prediction of climate impacts on agriculture, and enhanced climate information and services 4.3 Support risk management through enhanced prediction of climate impacts on agriculture, and enhanced climate information and services 4.3 Support risk management through enhanced prediction of climate impacts on agriculture, and enhanced climate information and services 4.3 Support risk management through enhanced prediction of climate impacts on agriculture, and enhanced climate information and services 4.3 Support risk management through enhanced prediction of climate impacts on agriculture, and enhanced climate information and services 4.3 Support risk management through enhanced prediction of climate impacts on agriculture, and enhanced climate information and services 4.3 Support risk management through enhanced prediction of climate impacts on agriculture, and enhanced climate information and services 4.3 Support risk management through enhanced prediction of climate impacts on agriculture, and enhanced climate information and enhanced prediction of climate impacts on agriculture, and enhanced prediction information info											
Activity objectives	Objective 1	Historic weather da	data reconstruction methodology development								
(what the activity aims to	Objective 2		Data set development								
achieve)	Objective 3		Capacity building								
Activity statu	ıs	Parti	tially completed								
Insert a small remark to status of the act (2-4 sentences required p	ivity.	Journal article is forthcoming.									

	Туре		Description		Year	Stati	ıs	Format
	Data	Reconstru	cted rainfall datase countries	for 2	2012	Partially co	mpleted	Select a format
	Model tools and software	Station dat	a quality control so	ftware	2012	Comple	eted	Select a format
Deliverables status (You may add any unexpected deliverable)		Software	for blending station	and				
	Model tools and software	Sommerc	proxy data	unu	2012	Comple	eted	Select a format
	Reports, publications	Methodology and evalua		eport	2012	Partially co	mpleted	Select a format
			Acronym				Name	
			UR			Unive	ersity of Read	ing
AI - Academic Institution				Contact Po	oint Full Name			Contact Point Email
				Maidment			<r.i.m< td=""><td>aidment@pgr.reading.ac.uk></td></r.i.m<>	aidment@pgr.reading.ac.uk>
			Acronym				Name	
			T			AGRHYM	1ET Regional	Center
	RO - Regional Organizati	ion			oint Full Name			Contact Point Email
				Abo	Abdou Ali			odou.ali.cra@gmail.com
			Acronym			Editoria A	Name	A
Current Partners	GO - Government office/depa	artmont	NMA	Contact Do	oint Full Name	Етпоріа і	National Met	Contact Point Email
	do - dovernment office/depa	artment			ailemariam			kinfe_hm@yahoo.com
				Killie He	ancmanam			kinie_nin@yanoo.com
			Acronym				Name	
						Princ	eton Univers	iity
	AI - Academic Institutio	on		Contact Point Full Name			Contact Point Email	
				Justin	Sheffield			justin@princeton.edu
			Acronym	ronym			Name	
			IRI			ional Research	Institute for	Climate and Society
	ARI - Advanced Research Ins	titution			oint Full Name			Contact Point Email
				Tuf	a Dinku			tufa@iri.columbia.edu

	Activity No. 41									
				ctivity No. 41						
Activity title	•	Expand seasonal rainfall risk and prediction	n analysis and n	maprooms for Sout	h Asia					
CCAFS Objection (select from drop)							2.3.1 2012			
Activity objectives (what the activity aims to achieve)	Objective 1		develo	ped in 2011 to: (1)), and (3) multi-GCI	winter se VI ensemb	and forecast maproo ason precipitation, (ble forecasts. Targete oling degree days (h	2) temperature (v ed temperature q	vinter and		
Activity statu	ıs				Complet	ed				
Insert a small remark to status of the act (2-4 sentences required p	ivity.	The analysis is complete and available in a	n open access I	RI maproom. The	report for	this work is being p	ublished as a CCA	FS working pa	sper.	
		Туре	1	Description		Year	Statu	i	Format	
		Model tools and software	Expa	inded maproom		2012	Complet	ed	Other	
Deliverables sta										
		Reports, publications		Report		2012	Complet	ed	Document (*.doc, *.odt, *.pdf)	
				Acronym				Name		
				IRI		Internation	onal Research		r Climate and Society	
Current Partn	ers	ARI - Advanced Research Instit	tution		ontact P	oint Full Name			Contact Point Email	
					Andrev	v Robertson				
			Andrew Nover (301) awi (with Coldina) as a coldina (301)							

Activity title		Agro-climate services case studies								
CCAFS Objective (select from drop list) Activity objectives		Support risk management through enhanced prediction of climate impacts on agriculture, and enhanced climate information and services National Action Company Services						a view toward str	2.3.2 2012	
(what the activity aims to	Objective 1									
Activity statu	s		Completed							
Insert a small remark to status of the acti (2-4 sentences required p	ivity.	Case studies were completed and presen	ase studies were completed and presented at the South-South workshop (Activity #43). Case stdies are available on-line on the workshop website.							
		Туре	De	scription		Year	Sta	tus	Format	
		Reports, publications	Report on cl studi	imate service ies for India	e case	2012	Comp	leted	Document (*.doc, *.odt, *.pdf)	
Deliverables sta (You may add any unexpected		Reports, publications	Report on climate s studies for		e case	2012	Comp	eleted	Document (*.doc, *.odt, *.pdf)	
		Communication products		Video		2012	Comp	leted	Video (*.avi, *.mpeg, etc)	
				Acronym				Name		
				ICRISAT						
		CG - CGIAR Center				oint Full Name			Contact Point Email	
					Ara	me Tall		<ccafs_< td=""><td>_theme2@iri.columbia.edu></td><td></td></ccafs_<>	_theme2@iri.columbia.edu>	
				Acronym				Name		
				CSP	Climate Services Partnership			nership		
		Research_Network - Research	network	Contact Point Full Name Steve Zebiak					Contact Point Email	
								s	teve@iri.columbia.edu	
				Acronym	cronym Name					
		GO - Government office/department		IMD Contact Point Full Name		India	n Met Departn	nent		
Current Partne	ers							Contact Point Email		
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				Edward Carr				edwardrcarr@gmail.com		
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(2-4 sentences required per activity)

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					Robert Stefanski			rstefanski@wmo.int
				Acronym			Name	
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					John Furlow			jfurlow@usaid.gov
					JOHN TUNOW			Junow @ usalu.gov
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Activity No. 6								
Activity title Prospects for DSS/EWS and index insurance to support adaptive management of pests and diseases								
CCAFS Objecti (select from drop		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)			2.1.2 2012			
Objective 1 Determine opportunities for synergy between DSS for pest/disease mana diseases. We are determining wha								
Activity objectives (what the activity aims to	Objective 2	DSS/EWS depend on the frequency d		ons for profit conditioned on the useful, when applied as				fying the scenarios in which DSS/EWS are
achieve)	Objective 3	Farmers will use a range of information in addition to output from DSS provided by scientists and consultants. We are identifying the scenarios in which farmer decision making will be sustainable under changing climate conditions						
	Objective 4	Develop model framework for DSS/EWS						
Activity state	ıs	Completed						
Insert a small remark to status of the act (2-4 sentences required	ivity.	The report was completed and will be tu	rned into a CCAF	'S working paper.				
Deliverables st	atue	Туре		Description	Year	Status		Format
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				Acronym KSU	Kansa		Name cas State University	
Current Partn	ers	AI - Academic Institution	on	Contact	Point Full Name			Contact Point Email
				Kar	ren Garrett		ŀ	kgarrett@k-state.edu



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 Theme Led Activities Theme 2. Adaptation through Managing Climate Risk

Theme 2. Adaptation through Managing Climate Risk
Objective 2.1 Identify and test innovations that enable rural communities to better manage climate-related risk and build more resilient livelihoods

utcome 2.1: Systematic technical and policy support by development agencies for farm- to community-level agricultural risk management strategies and actions that buffer against climate shocks and enhance velihood resilience in at least 20 countries

Output 2.1.1 Synthesized knowledge and evidence on innovative risk management strategies that foster resilient rural livelihoods and sustain a food secure environment

Prepare a succinct summary of activities and deliverables, organismy Output level of the CCAFS objecti

In order to improve the integration of gender and social equity measures into CCAFS Theme 2 work, we contracted a team of researchers from the University of Florida to conduct a review of relevant literature on gender to inform Theme Two's work on climate risk management at PAR sites. Theme Two commissioned a cross-center CGIAR study led by Bioversity that explores climate risk management and diversification in livelihood systems at multiple scales, including genetic, species, landscape, and economic diversification. This analysis was included in a systematic review of over 300 case studies and an online interactive database was created to make the case studies available to researchers. This work will continue as part of the Theme 2 CoP on Diversification. The Theme is also conducting a synthesis and review of indigenous/local knowledge and climate risk management to complement literature reviews conducted at the regional level.

Output 2.1.2 Analytical framework and tools to target and evaluate risk management innovations for resilient rural livelihoods and improved food security

y Output level of the CCAFS objective

A team at ILRI developed a conceptual framework and prototype tools for modeling livelihood resilience of rural households in the face of climate-related risk and management interventions. A prototype model was developed and applied to the Borena benchmark site in Ethiopia. IFPRI led research to model the likely impact of index insurance and other financial instruments on rural communities' resilience to climate related risk, particularly drought. The model generates predictions on optimal design/combinations of index insurance and other innovative financial products for managing climate risk, and the likely impact on agricultural investments and household welfare.

Output 2.1.3 Development; and demonstration of the feasibility, acceptability and impacts; of innovative risk management strategies and actions for socially-differentiated rural communities

by Output level of the CCAFS objective:

Together with ICRISAT, Theme 2 is working in twelve villages in Wote, Kenya to evaluate and assess the usefulness of climate information, especially seasonal climate forecasts, in farm level decision-making by smallholder farmers. The team initiated and developed self-help groups of farmers to experiment and evaluate portfolios of risk management strategies that include diversification, weather-based agro-advisories, and index insurance.

Objective 2.2 Identify and test tools and strategies to use advance information to better manage climate risk through food delivery, trade and crisis response

Outcome 2.2: Better climate-informed management by key international, regional and national agencies of food crisis response, post-crisis recovery, and food trade and delivery in at least 12 countries

Output 2.2.1 Enhanced knowledge, tools and evidence to support improved management of the food system (e.g., food delivery, trade, crisis response, post-crisis recovery) in the face of climate fluctuations

In partnership with GeoSAS, MoA, NMA, and EAIR, Theme 2 conducted a consultative review of the decentralized decision-making processes within the Ethiopian government to identify critical decision-making points that impact budget allocation, agricultural planning, and risk management. Key entry-points and timing for the delivery of advance climate information were identified and the government has invited the team as an observer for the regional/national planning and budgetary process in 2013 as a second phase of this study, which will include an evaluation and working groups on information packages for evidence based-policy. A senior WFP food security advisor has joined Theme 2 to explore pathways to include climate information in government and humanitarian planning for food security interventions. CCAFS/CGIAR was invited by the IPC Asia project management team (FAO and WFP) to attend IPC analysis workshops to target specific avenues for the inclusion of climate information in the classification process. A CCAFS/CGIAR Theme 2 representative attended four of the five national IPC analysis workshops to observe the process and liaise with the participants. To complement this intervention, Theme 2 partnered with key national institutions involved in the IPC process to prepare annotated bibliographies and create online mapping tools in Nepal and Pakistan that can feed directly into the IPC process

Objective 2.3 Support risk management through enhanced prediction of climate impacts on agriculture, and enhanced climate information and services

Dutcome 2.3 Enhanced uptake and use of improved climate information products and services, and of information about agricultural production and biological threats, by resource-poor farmers, particularly Inerable groups and women, in at least 12 countries

Output 2.3.1 Improved, value-added climate information products, knowledge, tools, methods; and platforms for monitoring and predicting impacts of climate fluctuations on agricultural production and biological threats; to support management of agricultural and food security risk

Prepare a succinct summary of activities and deliverables, organised by Output level of the CCAFS objective

A Theme 2 commissioned review of existing crop forecasting tools by Washington State University highlighted the limitations of existing crop forecasting tools for research and operational use in the CCAFS focus regions. The Asia Risk Center was asked to develop a user-friendly, accessible, adaptable software toolkit to support spatial crop production forecasting, to be piloted in South Asia, followed by another round of training and capacity building training in 2013. The IRI developed an online tool to aid analysis of climate variability and seasonal predictability across important agricultural areas in South Asia, taking advantage of a moderately high-resolution (0.25°) daily rainfall data set. Evidence of a promising degree of predictability of summer monsoon rainfall in parts of India and Nepal suggests avenues for developing information tailored to agricultural users in the region. A project by the IRI and NASA-JPL developed and tested methods for assimilating satellite soil moisture and vegetation data into the DSSSAT-CSM model for forecasting maize yields. FutureWater completed an assessment of the added value of high-resolution remote-sensing data for crop forecasting in a smallholder setting. CCAFS and the EU Joint Research Center (JRC) jointly sponsored a workshop on "Combining Crop Models and Remote Sensing For Yield Prediction: Concepts, Applications and Challenges for Heterogeneous, Smallholder Environments" (Ispra, Italy, 13-14 June) that enhanced collaboration and exchange of knowledge among research groups from around the world; summarized the state of knowledge on data assimilation for crop yield forecasting; and articulated the challenges for successful application in heterogeneous, smallholder and the challenges for successful application in heterogeneous and the challenges for successful application and the challenges for successful application and the challenges for successful application and the challenges for successfulfarming environments. A group of partners, including CGIAR and academic institutes, was commissioned to determine opportunities for synergy between DSS for pest/disease management and weather index insurance based on the common use of weather indices for losses to pests and diseases. The team developed a model framework for DSS/EWS. Output 2.3.2 Synthesized knowledge and evidence on institutional arrangements and communication processes for enhancing climate services for agriculture and food security, including services that reach marginalized farmers and women

Prepare a succinct summary of activities and deliverables, organised by Output level of the CCAFS objectives

Theme Two partnered with USAID, WMO and the Climate Services Partnership to convene a workshop on "Scaling Up Climate Services for Farmers in Africa and South Asia" (Saly, Senegal, 10-12 December) that convened 110 experts from 30 countries to exchange knowledge and chart a pathway for supporting farming communities with climate information and advisory services. Participants examined existing constraints to the uptake and use of climate services, including barriers to the full participation of women and socially marginalized groups. The workshop featured in-depth studies of national agrometeorological advisory services in India and Mali conducted by CCAFS and partners (USAID, IRI and IER for Mali) in order to provide evidence of use and benefit at the village level; and insights about factors that have contributed to their uptake, impact and sustainability. Workshop participants identified priority actions for overcoming existing climate services constraints, and sponsors committed to support their development into full proposals through mentoring and seed grants. Plans are underway for workshops to develop proposals around the priority actions, and to identify sources of funding to begin implementation.



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: http://libweb.anglia.ac.uk/referencing/harvard.htm
- (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			
	Journal papers	http://dx.doi.org/10.1016/j.agrformet.2012.04.018,			
Publication 1	of climate variability and the color of we management. A	Citation chel, B. Natarajan, S. Orlandini, H. E. Z. Tonnang, C. Valdivia, 2012. The effects eather time series on agricultural diseases and pests, and on decisions for their Agricultural and Forest Meteorology, 170, pp. 216-227. encedirect.com/science/article/pii/S016819231200158X			
	Туре	Citation identifier			
	Journal papers	doi: http://dx.doi.org/10.1016/j.envsci.2011.09.003			
Publication 2	J. S. I.; Jarvis, A.; Kristjanson, P.; Lau, G	Citation nslie, A.; Angelone, C.; Campbell, B. M.; Challinor, A. J.; Hansen, J. W.; Ingram, C.; Nelson, G. C.; Thornton, P. K.; Wollenberg, E. 2012. Options for support to er climate change. Environmental Science and Policy, 15(1), pp. 136-144.			
	Туре	Citation identifier			
	Working papers	http://hdl.handle.net/10568/25107			
Publication 3	Citation Braun, M, Saroar, M. 2012. Participatory Action Research on Climate Risk Management, Bangladesh. Studies & Reviews: 2012-39. Penang, Malaysia: WorldFish.				

		Citation identifier					
	Working papers	http://hdl.handle.net/10568/21071					
Publication 4	Citation						
	Hurst, M., Jensen, N., Pedersen, S.H., Sharma, A. and Zamb Boran pastoralists in southern Ethiopia. CCAFS Wo						
	Туре	Citation identifier					
	Working papers	http://hdl.handle.net/10568/24448					
	Citati	ion					
Publication 5	Chaudhury, M., Kristjanson, P., Kyagazze, F., Naab, J. B. approaches for addressing key climate change- related re Uganda. Working Paper 19. Copenhagen, Denmark: CGIAR Food Securit	esearch issues: Evidence from Bangladesh, Ghana, and R Research Program on Climate Change, Agriculture and					
		Citation identifier					
	Туре	http://hdl.handle.net/10568/25135					
	Conference proceedings						
	Conference proceedings						
	Citati						
Publication 6	Citati	sen J. 2012. Combining Crop Models and Remote Sensing for Heterogeneous Smallholder Environments. Report of une 13-14, 2012. Joint Research Center Technical Report.					
Publication 6	Citati Hoefsloot P, Ines A, van Dam J, Duveiller G, Kayitakire F, Han for Yield Prediction: Concepts, Applications and Challenges CCFAS-JRC Workshop at Joint Research Centre, Ispra, Italy, Ji Luxembourg: Publications Off	sen J. 2012. Combining Crop Models and Remote Sensing for Heterogeneous Smallholder Environments. Report of une 13-14, 2012. Joint Research Center Technical Report. fice of the European Union.					
Publication 6	Citati Hoefsloot P, Ines A, van Dam J, Duveiller G, Kayitakire F, Han for Yield Prediction: Concepts, Applications and Challenges CCFAS-JRC Workshop at Joint Research Centre, Ispra, Italy, Jo	sen J. 2012. Combining Crop Models and Remote Sensing for Heterogeneous Smallholder Environments. Report of une 13-14, 2012. Joint Research Center Technical Report.					
Publication 6	Citati Hoefsloot P, Ines A, van Dam J, Duveiller G, Kayitakire F, Han for Yield Prediction: Concepts, Applications and Challenges CCFAS-JRC Workshop at Joint Research Centre, Ispra, Italy, Ju Luxembourg: Publications Off	sen J. 2012. Combining Crop Models and Remote Sensing for Heterogeneous Smallholder Environments. Report of une 13-14, 2012. Joint Research Center Technical Report. fice of the European Union. Citation identifier DOI: 10.5772/2568					
Publication 6 Publication 7	Citati Hoefsloot P, Ines A, van Dam J, Duveiller G, Kayitakire F, Han for Yield Prediction: Concepts, Applications and Challenges CCFAS-JRC Workshop at Joint Research Centre, Ispra, Italy, Ji Luxembourg: Publications Off Type Book chapters	sen J. 2012. Combining Crop Models and Remote Sensing for Heterogeneous Smallholder Environments. Report of une 13-14, 2012. Joint Research Center Technical Report. fice of the European Union. Citation identifier DOI: 10.5772/2568 Jon field, G., Diongue, A., Hansen, J., Hildebrand, A., Ingram, 10, P., Pulwarty, R., Ndiaye, O., Srinivasan, G., Seck, Eh., 20, 200 and 100 members. Pp. 477-532 in: Banaitiene, N. (Ed), Risk					
	Citati Hoefsloot P, Ines A, van Dam J, Duveiller G, Kayitakire F, Han for Yield Prediction: Concepts, Applications and Challenges: CCFAS-JRC Workshop at Joint Research Centre, Ispra, Italy, Ji Luxembourg: Publications Off Type Book chapters Citati Martínez, R., Hemming, D., Malone, L., Bermudez, N., Cocki K., Jakeman, G., Kadi, M., McGregor, G.R., Mushtaq, S., Ra White N. and Zougmore, R., 2012. Improving climate risk ma practices and guidelines for World Meteorological Organiza	sen J. 2012. Combining Crop Models and Remote Sensing for Heterogeneous Smallholder Environments. Report of une 13-14, 2012. Joint Research Center Technical Report. fice of the European Union. Citation identifier DOI: 10.5772/2568 Jon field, G., Diongue, A., Hansen, J., Hildebrand, A., Ingram, 10, P., Pulwarty, R., Ndiaye, O., Srinivasan, G., Seck, Eh., 20, 200 and 100 members. Pp. 477-532 in: Banaitiene, N. (Ed), Risk					
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	Citati Hoefsloot P, Ines A, van Dam J, Duveiller G, Kayitakire F, Han for Yield Prediction: Concepts, Applications and Challenges: CCFAS-JRC Workshop at Joint Research Centre, Ispra, Italy, Ji Luxembourg: Publications Off Type Book chapters Citati Martínez, R., Hemming, D., Malone, L., Bermudez, N., Cocki K., Jakeman, G., Kadi, M., McGregor, G.R., Mushtaq, S., Ra White N. and Zougmore, R., 2012. Improving climate risk ma practices and guidelines for World Meteorological Organiza Management – Current Issues and	sen J. 2012. Combining Crop Models and Remote Sensing for Heterogeneous Smallholder Environments. Report of une 13-14, 2012. Joint Research Center Technical Report. Fice of the European Union. Citation identifier DOI: 10.5772/2568 Sion field, G., Diongue, A., Hansen, J., Hildebrand, A., Ingram, 10, P., Pulwarty, R., Ndiaye, O., Srinivasan, G., Seck, Eh., 20, 20, 20, 20, 20, 20, 20, 20, 20, 20					



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
Workshop on Scaling Up Clin	nate Services for Farmers in Africa and S	outh Asia	James Hansen, Arame Tall
Туре	Date (DD/MM/YYYY)	Countries	
Successful communications act	ivitie:		
Keywords			Photo URL
Introduction/Objectives (400	characters)		
			(10-12 December 2012, Saly, Senegal) was designed to foster South-South learni le-up climate information and advisory services that serve smallholder farmers.
Description of the project,pro	cedures etc. (1100 characters)		
Ensuring that climate inform Scalable pathways for reachi Giving farmers an effective v Ensuring equitable benefits t Integrating climate services v Sixteen case studies of innoval	ation and advice is salient to farmers' de ng "the last mile"; oice in the design of climate services; o women and other underserved groups within larger agricultural development su	ecision-making s in communit upport prograi enges informe	
Project results (be concrete as	s possible), innovate findings, novel out	tcomes and sh	ort discussion on the implication of these results (1100 characters)
smallholder farming communi each from West, and Eastern p them further. In the closing se further develop the concepts,	ties in sub-Saharan Africa and South Asia plus Southern Africa; one from South Asia ssion, workshop sponsors committed to and through help with mobilizing resour	a. Following a a; and two inv ofollow up wit ces to at-least	isting constraints and enabling climate services to have a greater impact on competitive "marketplace" approach, participants rallied around seven ideas (tv olving cross-regional collaboration), and formed ad-hoc working groups to develon participants on these proposed actions through mentoring and seed grants to begin to implement the actions. Plans are underway for small workshops to identify sources of funding to begin implementation.
Partners involved and their ro	le (250 characters)		
• -			nst Africa, West Africa and South Asia Regional Programs), World Meteorological and the Climate Services Partnership (CSP).
Links/Sources for further info	rmation		
httn://ccafs.cgiar.org/events/1	.0/dec/2012/scaling-climate-services-far	mars africa a	ad according and

Title			Author	
India Agrometeorologica	Advisory Services evaluation			Alexa Jay, Arame Tall
Туре	Date (DD/MM/YYYY)	Countries		
nnovative non-research partnership				India
Keywords			Photo URL	

Introduction/Objectives (400 characters)

CCAFS Theme 2 partnered with the Indian Meteorological Department (IMD) and ICRISAT to assess the village-level impact of IMD's Agro-meteorological Advisory Services. The overall objective of the case study was to strengthen evidence of the use and benefit of climate services via farmers' perceptions and capture knowledge on the factors that have contributed to their uptake, impact and sustainability, with the aim of offering transferable lessons that can guide the implementation of similar programs elsewhere in the world.

Description of the project,, procedures etc. (1100 characters)

AAS aims to provide a variety of services to farmers including weather observation and forecasting, agricultural advisories, extension services offering two-way communication with users, and information dissemination through media and other local agencies. Village-level assessments were conducted in six states (Himachal Pradesh, Gujarat, Punjab, West Bengal, Andhra Pradesh and Tamil Nadu) across three randomly selected villages in different agro-climatic and production zones in each state. Through focus group discussions separated by gender and individual interviews, researchers gathered farmers' perspectives on the products provided by the program in terms of their reliability, relevance and utility. Discussions were also held with IMD staff at various levels and other institutional representatives involved in the development and dissemination of advisories. Services were assessed in terms of:

- Credibility/Skill: providing access to accurate climate information and services for remote rural communities with marginal infrastructure;
- · Salience: tailoring content, scale and format to farm-level decision-making;
- Legitimacy: giving farmers an effective voice in the design and delivery of climate services;
- Equity: ensuring that women and socially marginalized groups are served.

Project results (be concrete as possible), innovate findings, novel outcomes and short discussion on the implication of these results (1100 characters)

Results supported several conclusions: Communication and usability are improved by multiple targeted efforts at the village level (e.g., posting advisories in strategic public places, announcements over loudspeakers, enlisting NGOs to help communicate; translation of advisories into local languages). Greater engagement of local farmers in every aspect of the program increases trust and ownership of the program. When women farmers are fully engaged, the uptake and use of AAS information is maximized. "Progressive" farmers can be utilized as change agents; as they are able to use their own resources to engage other farmers. Downscaling and value-addition to advisories is critical to ensure salience to local farmer needs and usability by farmers. Credibility and uptake of information is enhanced by demonstration of its economic benefit.

Partners involved and their role (250 characters)

A team of researchers from CCAFS Theme 2 and ICRISAT conducted the village-level assessment. IMD staff at various levels assisted in the selection of target states and villages to ensure representation across agro-climatic and production zones, and provided information about the development of forecast advisories and their dissemination.

Links/Sources for further information

http://scalingup.iri.columbia.edu/india-agromet-case-study.html

http://ccafs.cgiar.org/blog/how-useful-climate-information-small holder-farmers-indiants and the state of t

Title			Author
Linking the IPC with climate services			Michael Sheinkman
Туре	Date (DD/MM/YYYY)	Countries	
nnovative non-research partnership			Nepal, Pakistan, Bangladesh, Philipines, and Cambodia
Keywords			Photo URL
Food Security, Integrated Phase	se Clasification, Humanitarian A	Aid	

Introduction/Objectives (400 characters)

The objective of this project is to engage key international and national food security decision-making processes and identify appropriate mechanisms to facilitate access to advance information when seasonal climate variability is likely to have adverse effects on agricultural production and/or household food security. Integrated Food Security Phase Classification (IPC) is a set of analytical tools and consensus-building processes that are used to analyze and classify the severity of a food security situation, creating an international standard that allows for comparability across countries and over time. Resulting classifiations provide decision makers in the international humanitarian community and national governments with a rigorous analysis of food insecurity along with objectives for response in both emergency and development contexts. However, the IPC does not include indicators relevant to seasonal climate variability. Theme Two sees IPC engagement on this topic as a unique opportunity to upscale CGIAR research on climate variability, food security, and seasonal prediction.

Description of the project,, procedures etc. (1100 characters)

The IPC Asia project invited CCAFS to attend five IPC analysis workshops in Asia during 2012. A CCAFS/CGIAR Theme 2 representative attended four of the five IPC analysis workshops to observe the process and liaise with the participants, including a meteorologist from the Department of Meteorology and Hydrology at the Nepal workshop and a senior staff member from the Philippines meteorological agency (PAGASA) at the Philippines workshop. An independent researcher delivered a presentation on observed seasonal climate variability and potential impacts of progressive climate change at the IPC analysis workshop in Pakistan. Theme Two commissioned local research institutes in two IPC countries (Nepal and Pakistan) to write annotated bibliographies of relevant research on food security and vulnerability to climate variability. The same groups, in partnership with the WFP, were also commissioned to create online decision support tools that incorporate climate information into food security analysis. The IPC Asia team (FAO and WFP) have requested assistance from CCAFS/CGIAR to identify relevant indicators and appropriate thresholds that will integrate seasonal climate variability into the IPC analytical framework.

Project results (be concrete as possible), innovate findings, novel outcomes and short discussion on the implication of these results (1100 characters)

The project resulted in an opportunity for CCAFS/CGIAR to identify indicators that can facilitate the use of seasonal climate forecasts and analytical products derived from historical climate data in food security decision making. FAO and WFP have indicated that they will provide CCAFS/CGIAR with opportunities to pilot test the indicators and thresholds in one or more countries in Asia in 2013. The project also created an opportunity for CGIAR to participate in the IPC process in 2013 through membership in the Technical Working Group established in each of the five pilot countries, which must approve the workshop results before the reports and maps are disseminated to the public. Membership in the Technical Working Group includes government, international organizations, and civil society. The project has also secured an opportunity for CGIAR staff to participate in IPC training sessions organized by IPC Asia in 2013.

CASE STUDY 2

CASE STUDY 3

Partners involved and their role (250 characters)

The IPC Asia project was implemented by FAO with financial support from the European Commission. WFP contributed data and VAM analytical capacity. The IPC process was led by national governments in Nepal, Pakistan, Bangladesh, Philippines, and Cambodia.

Links/Sources for further information
FURTHER INFO IPC Website: www.ipcinto.org Factsneet: http://www.ipcinto.org/fileadmin/user_upload/ipcinto/docs/IPC-Factsneet.pdf Example: Pakistan worksnop report and maps are available for download at following URL: http://www.ipcinfo.org/fileadmin/user_upload/ipcinfo/docs/IPC_Acute_FS_Pak_Oct12.pdf



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)

CCAFS Theme Led Activities Theme 2. Adaptation through Managing Climate Risk

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

CCAFS has played a key role in the recent surge of interest in climate services globally. Theme Two has made strong connections with several of the major organizations and programs investing in climate services. CCAFS is a sponsoring partner of the Climate Services Partnership (CSP), which provides a mechanism to engage a global network of organizations, researchers and donors with shared interests. In 2012, Theme 2 research and communication efforts had a tangible influence on strategic direction or investment priorities of the CSP, and of two core partners (USAID, World Vision) within the CSP network, leading to increased emphasis on targeting smallholder farmers and influencing how they do so.

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

CCAFS outputs and communication efforts that collectively led to this outcome include: (a) participation in USAID West Africa regional stakeholder workshops in 2010 and 2011; (b) participatory action research on seasonal forecast communication at Kaffrine, Senegal; (c) evaluations of national agrometeorlogical advisory programs in Mali and India; and (d) the jointly-sponsored workshop on "Scaling Up Climate Services for Farmers in Africa and South Asia." These research outputs provided content and credibility for presentations and informal discussions with key organizations.

What partners helped in producing the outcome?

USAID, the IRI and IER contributed to the Mali evaluation. CSP, USAID and WMO co-sponsored the Saly workshop. The Senegal national meteorological agency (ANAMS) played a lead role in the pilot work at Kaffrine.

Who used the output?

World Vision, USAID, and the Climate Services Partnership (CSP) made tangible changes to their strategies in response to CCAFS outputs and interactions.

OUTCOME 1

How was the output used?

USAID adopted the idea, advanced by CCAFS and other participants at a USAID-sponsored regional stakeholder workshop, of using an evaluation of Mali's innovative agrometeorological advisory program to inform a strategy for strengthening climate services in West Africa. CCAFS partnered with USAID and the IRI in the Mali evaluation, leading the institutional component of the study and implementing survey and focus groups in sampled villages. USAID followed up by co-sponsoring the Saly workshop (which featured the Mali and India evaluations), and by providing proposal development funds and startup grants for ideas that workshop participants proposed for strengthening climate services for farmers in Africa and South Asia.

The CSP identified distillation of knowledge and evidence from case studies and evaluations of existing climate service initiatives as a core part of its strategic contribution to its network of partners. As a high-profile activity at the start of the CSP (date?), the rigor that CCAFS brought to the Mali evaluation influenced the CSP's strategy for collecting evidence from case studies, leading to an ongoing effort to formulate good practice guidelines for obtaining credible evidence of the strengths, weakness and impacts of existing climate services. More importantly, the evaluation and jointly sponsored workshop on climate services for farmer led the CSP to highlight rural communities as an important target for investment in climate services, and work toward broadening a community of practice focused on strengthening climate services for smallholder farmers.

World Vision's Secure the Future program in East Africa seeks to foster resilient rural livelihoods in the face of climate and other stresses. Following meetings at COP16, ICCS2, World Vision's East Africa Planning Workshop 2012, COP17, and a visit to IRI by the WV Executive Director Secure the Future East Africa at World Vision International, results from CCAFS' PAR work at Kaffrine and Wote contributed to plans to include climate services for farmers among the resilience-building interventions within this program.

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.

Letters from contacts at each of the three organizations (USAID, World Visions, and CSP), and strategy documents from CSP and World Vision, document how CCAFS outputs and interactions has shaped their priorities, strategies and investments.



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 Theme Led Activities Theme 2. Adaptation through Managing Climate Risk

A gender research team from the University of Florida (UF) was commissioned to guide research and methodology on gender equity issues in the context of participatory action research on climate risk management. A desktop review of the structure and function of CCAFS within CGIAR, and how gender enters work at CCAFS research sites, highlighted opportunities for those working on gender to share and leverages findings and resources to the benefit of CCAFS projects. The team reviewed literature on gender and social equity challenges in the delivery of climate information services. They coordinated a Theme 3 team undertaking a similar review; and worked with a Theme 1 postdoc at CIAT to assess the baseline data collection instrument and the available data from CCAFS sites, identifying gaps with respect to gender information. Assessments of where and how gender is being integrated at CCAFS sites will be carried out in 2013. Data collected during site visits will allow for identification of successes and gaps in the participatory action methodologies and strategies currently being employed. This work serves to improve participatory research methodologies and ensure appropriate integration of gender and other measures of social equity into Theme 2 work. Gaps identified and the resulting negative impacts on climate risk management can inform changes to research priority setting and approach.

One of the themes of the workshop on "Scaling Up Climate Services for Farmers in Africa and South Asia" was on the challenge of reaching women and socially marginalized groups with effective climate services. A gender side event offered additional opportunity for discussion and knowledge exchange. The challenges of ensuring gender equity when scaling up climate services came out of CCAFS-sponsored evaluations of agrometeorological services in India and Mali, which were featured at the workshop. From the India assessment, although overall awareness of agromet services was lower among women, the uptake and use of the services is highest in villages where women are fully involved in the production and communication of information.

Work in Kaffrine, Senegal built upon Arame Tall's 2011 research, funded by a Theme 4 competitive gender grant, to identify gender-specific climate vulnerabilities, climate services needs, and obstacles to information access in three agricultural communities prone to hydrometeorological disasters. Researchers introduced a climate forecast for the first time in 2011 and 2012, and tested for its added value among men and women farmers through a Participatory Action Research model. Further analysis of the benefits of climate information use for each gender is forthcoming. Research on the delivery and use of climate information for risk management in Kenya and in Zimbabwe is also addressing gender equity issues, and disaggregating evaluation results by gender.



Theme Leader Summary by Output - 2012

Theme Leaders will report on the same categories before, following the reporting depth of "Medium" in the explanatory notes. In addition, Theme Leaders will provide a synthesis of all Program Participant activities, arranged by Output as per the CCAFS logframe. These reports will be 3-5 pages.

Theme 2. Adaptation through Managing Climate Risk

Objective 2.1 Identify and test innovations that enable rural communities to better manage climate-related risk and build more resilient livelihoods

Outcome 2.1: Systematic technical and policy support by development agencies for farm- to community-level agricultural risk management strategies and actions that buffer against climate shocks and enhance livelihood resilience in at least 20 countries.

Output 2.1.1 Synthesized knowledge and evidence on innovative risk management strategies that foster resilient rural livelihoods and sustain a food secure environment

Synthesis of knowledge on risk management interventions focused on traditional knowledge, gender equity in the context of climate information use, livelihood diversification, index-based insurance and agroforestry.

The South Asia Regional Program commissioned a set of 8 case studies to understand how changing agricultural practices address climate risk management. Responses have evolved from the farm level to agricultural policy, but not all are climate adaptive and socially equitable. The key issue in promoting local innovations is that each of the supporting and regulating institutions considers only one aspect of the agro-ecological system, without being fully informed by longer-term climate and socioeconomic trends and projections. In Eastern Africa, case studies of innovative traditional risk management approaches are identifying promising opportunities for further research and intervention. Integration of scientific and indigenous approaches to weather and climate prediction has contributed to timely, downscaled consensus forecasts for farmers in Tanzania; and informed plans to strengthen weather information communication networks in Uganda. An Ethiopian case study focused on the contribution of rangeland enclosures and community action groups to adaptive capacity of pastoral communities. A fourth case study focused on climate related opportunities for agricultural adaptation in Semi-Arid Eastern Kenya. ICRISAT documented farmers' strategies for dealing with climate variability in arid and semi-arid India, based on a synthesis of nearly 30 years of village-, farm- and plot-level research. This research offers guidance on enabling locally appropriate adaptation to climate variability.

A literature review and synthesis report, "Investigating Climate Information Services through a Gendered Lens," by the University of Florida, addresses the challenges and opportunities in delivering gender-equitable rural climate information and advisory services. The report shows how women farmers are particularly vulnerable to climate-related shocks yet are overwhelmingly left out of many forms of communication channels, and identifies avenues for overcoming these gaps.

A cross-Center study, led by Bioveristy, synthesized knowledge and identified research needs about the role of diversification – including genetic, species, landscape and economic diversification; across scales – in resilience to climate-related risk. This study included a systematic review of over 300 case studies, and an online interactive database created to make the case studies available to researchers. This work will continue as part of the Theme 2 CoP on Diversification.

IFPRI reviewed determinants of uptake of index-based insurance products within several pilot programs, in order to improve the design of programs and fill gaps in evidence about impacts of innovative insurance schemes by documenting the effects of several demand drivers on final insurance purchase. Additional evidence came from a modeling study showing that three types of financial products studied (weather index insurance, savings accounts, insured agricultural loans) benefit farmers, but that poorer farm households benefit most from index insurance as long as pricing is fair and basis risk is low.

A set of ICRAF-led activities contributed to the body of knowledge on the role of trees in the resilience of farming systems to climate-related risk. An ongoing comparative study of the resilience of agroforestry and conventional farming systems to rainfall variability in Zambia and Malawi included analysis of long-term climate records and experimental data, and assessed yield stability. ICRAF documented indigenous agroforestry systems that farmers use in areas prone to extreme climatic events in the Philippines and Vietnam, and completed household surveys and a training needs assessment in the Philippines. A study on agricultural diversification in mountain locations in China, Nepal and Pakistan provided evidence of the contribution of trees to resilience to weather- and water-related hazards, and recommendations to guide investment in agroforestry for resilience in mountain environments.

This Output includes characterization of climate-related agricultural risks. AfricaRice investigated the vulnerability of rural communities in Senegal and Mali to climatic risks.

Output 2.1.2 Analytical framework and tools to target and evaluate risk management innovations for resilient rural livelihoods and improved food security

Following a literature review of approaches to modeling farmer response to risk, ILRI developed a prototype tool for modeling the resilience of smallholder farming households to climate-related risk and applied it to the CCAFS research site in Borana, Ethiopia. The bioeconomic household model simulates production, food availability, food in storage, cash availability, income, assets and soil fertility in response to climate and prices. Well-ground modeling analyses in 2013 will build on household characterization data and methods to analyze institutional arrangements and land use.

Provide a synthesis of all Program
Participant activities pertaining to this
output as per the CCAFS logframe.
These reports will be 3-5 pages long

CIMMYT is exploring several complementary modeling approaches to studying the likely impacts of increasing climate variability on farm household welfare in Kenya and Ethiopia, and how current adaptation strategies and policy interventions could help buffer against it. One approach estimates maize and wheat yields under current and future climate, and another models the farm-level impact of climate adaptation practices at a site in Ethiopia. Lessons from this work are being used to inform the development of a bio-economic framework for maize/legume-based households in Kenya.

IFPRI developed a dynamic stochastic model to quantify the impacts of alternative financial risk transfer products on consumption, investment and welfare of agricultural households. The modeling study used input data from two weather insurance pilot study sites, and calibration data from experimental games on risk and time preferences. The results of the research have provided insights about the relative benefits of alternative financial products, and provide predictions to test within randomized control trials planned in Bangladesh and Ethiopia.

Output 2.1.3 Development; and demonstration of the feasibility, acceptability and impacts; of innovative risk management strategies and actions for socially-differentiated rural communities

Researchers from national and international institutions and development organizations are working with communities across CCAFS sites in East Africa to test portfolios of climate risk management strategies. At the Makuene site in Eastern Kenya, ICRISAT, KARI and other partners are testing the effectiveness of different methods of communicating downscaled, probabilistic seasonal climate forecast information and its impact on management and productivity of smallholder farms. A randomized, gender-disaggregated experimental design was formulated to evaluate training workshops to help farmers understand forecast information; and agro-advisories that combine forecast information with advice on potential management options – alone and in combination. Both communication approaches led to significant differences in the way farmers plan and manage their farms. The effort is coordinated with similar work in Kaffrine, Senegal. Participatory research in Eastern Kenya also addressed water management techniques and drought tolerant-crops combined with integrated soil fertility management. Farmer awareness activities and farm trials were initiated in 2012 for participatory evaluation and promotion of integrated sorghum - legume technologies. Participatory action research in Nyando, Kenya, focused on on-farm diversification of livelihoods.

Building on three years of work in Kenya, ILRI and partners extended Index-Based Livestock Insurance (IBLI) into the Borana CCAFS site in southern Ethiopia, in partnership with Oromia Insurance. The project succeeded in designing and launching a commercial insurance contract for pastoralists.

Provide a synthesis of all Program
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These reports will be 3-5 pages long
[max 30 000 characters]

In West Africa, participatory action research focused on fostering climate-resilient rural livelihoods through a package of locally relevant seasonal forecast information, training and guidance. Senegal's national meteorological agency (ANAMS) developed downscaled seasonal forecast information products and led an effort to engage stakeholders in the Kaffrine district through training workshops. Involving a broad group of stakeholders and working across scales from the onset led to strong interest in scaling up beyond Kaffrine. The successful approach that was started in Kaffrine in 2011 has been extended to the Tougou (Burkina Faso) and Ségou (Mali) CCAFS sites, in partnership with AGRHYMFT.

The South Asia regional program documented local knowledge and innovation for dealing with climate-related risks, in preparation for participatory development and evaluation of risk management strategies within the network of Climate-Smart Villages. A CIMMVT household survey on farmers' access to agricultural information sources and analysis of the role of mobile phones will support planned work on communication and use of climate-related information and advisories. Under their new "Smart Farm" initiative, WorldFish completed an analysis of historical adaptation options, and adaptation needs analysis based on climate, hydrology, land use policy options, water management policy options in south western coastal Bangladesh including the Khulna CCAFS research site.

CIMMYT is leading participatory action research in South Asia and East Africa to understand what practices farmers currently use to reduce the risks of climatic variability and how climate information services can enhance these strategies. Under the SIMLESA project in East Africa, field trials of crop management practices are being conducted. In South Asia, CIMMYT is working with farmers' groups and cooperatives to enable farmers to collectively learn about risk management strategies such as crop diversification, notillage and residue retention. These participatory strategic trials are serving as learning modules for a large number of stakeholders including farmers, extension agents, researchers and policy planners.

In Zimbabwe, ICRISAT tested the impacts of the communication of probabilistic climate forecast information to farmers and their support agents. When provided with climate information, farmers moved away from traditional risk management strategies and were able to increase farm productivity and income. Farmers indicated that they mostly receive seasonal forecasts via radio and say that they take them into consideration in decision-making. Women farmers appear to have less access to information.

CIP led a participatory study in ten communities in Peru that examined perceptions of vulnerability to climatic hazards and the role of weather and climate information in Objective 2.2 Identify and test tools and strategies to use advance information to better manage climate risk through food delivery, trade and crisis response

Outcome 2.2: Better climate-informed management by key international, regional and national agencies of food crisis response, post-crisis recovery, and food trade and delivery in at least 12 countries

Output 2.2.1 Enhanced knowledge, tools and evidence to support improved management of the food system (e.g., food delivery, trade, crisis response, post-crisis recovery) in the face of climate fluctuations

Provide a synthesis of all Program Participant activities pertaining to this output as per the CCAFS logframe. These reports will be 3-5 pages long (max. 30,000 characters). In partnership with GEOSAS, MoA, NMA, and EAIR, Theme 2 conducted a consultative review of the decentralized decision-making processes within the Ethiopian government to identify critical decision-making points that impact budget allocation, agricultural planning, and risk management. Key entry-points and timing for the delivery of advanced information were identified and the government has invited the team as an observer for the regional/national planning and budgetary process in 2013 as a second phase of this study, which will include an evaluation and working groups on information packages for evidence based-policy.

A senior WFP food security advisor has joined Theme 2 to explore pathways to include climate information in government and humanitarian planning for food security interventions. CCAFS/CGIAR was invited by the IPC Asia project management team (FAO and WFP) to attend IPC analysis workshops to target specific avenues for the inclusion of climate information in the classification process. A CCAFS/CGIAR Theme 2 representative attended four of the five national IPC analysis workshops to observe the process and liaise with the participants. To complement this intervention, Theme 2 partnered with key national institutions involved in the IPC process to prepare annotated bibliographies and create online mapping tools in Nepal and Pakistan that can feed directly into the IPC process.

A South Asia regional program study evaluated the impact of past and projected future rainfall on demand, supply and prices of major agricultural commodities in India. A partial equilibrium model was developed to simulate the effects of monthly changes in rainfall on area, yield, production, demand and prices. No significant temperature effects were found. Modeled rice production was severely affected by rainfall deficits, as was production of pearl millet, sorghum and cotton to a lesser degree.

Objective 2.3 Support risk management through enhanced prediction of climate impacts on agriculture, and enhanced climate information and services

Outcome 2.3 Enhanced uptake and use of improved climate information products and services, and of information about agricultural production and biological threats, by resource-poor farmers, particularly vulnerable groups and women, in at least 12 countries

Output 2.3.1 Improved, value-added climate information products, knowledge, tools, methods; and platforms for monitoring and predicting impacts of climate fluctuations on agricultural production and biological threats; to support management of agricultural and food security risk

Provide a synthesis of all Program Participant activities pertaining to this output as per the CCAFS logframe. These reports will be 3-5 pages long A Theme 2 commissioned review of existing crop forecasting tools by Washington State University that highlighted the limitations of existing crop forecasting tools for research and operational use in the CCAFS focus regions. The Asia Risk Center was asked to develop a user-friendly, accessible, adaptable software toolkit to support spatial crop production forecasting. The CCAFS Regional Agricultural Forecasting Toolbox (CRAFT) supports spatial data management, spatial simulation, integration of seasonal climate forecasts, spatial aggregation, probabilistic analysis, calibration with historic agricultural statistics, and visualization. The initial prototype will be piloted in South Asia, followed by another round of training and capacity building training in 2013.

The IRI developed an online tool to aid analysis of rainfall variability and seasonal predictability across South Asia, taking advantage of a moderately high-resolution (0.25°) daily rainfall data set. The tool provides a more complete picture of how rainfall predictability maps onto important agricultural areas in South Asia. Evidence of a promising degree of predictability of summer monsoon rainfall in parts of India and Nepal suggests avenues for developing information tailored to agricultural users in the region.

A project by the IRI and NASA-JPL has developed and tested methods for assimilating satellite soil moisture and vegetation data into the DSSSAT-CSM model for forecasting maize yields. FutureWater completed an assessment of the added value of high-resolution remote-sensing data for crop forecasting in a smallholder setting. CCAFS and the EU Joint Research Center (JRC) jointly sponsored a workshop on "Combining Crop Models and Remote Sensing For Yield Prediction: Concepts, Applications and Challenges for Heterogeneous, Smallholder Environments" (JRC, Ispra, Italy, 13-14 June) that enhanced collaboration and exchange of knowledge among research groups from around the world. The workshop summarized the state of knowledge on data assimilation for crop yield forecasting; and articulated the challenges for successful applications of data assimilation in forecasting crop yields in heterogeneous, smallholder farming environments.

Theme Two commissioned a group of partners, including CGIAR and academic institutes, to determine opportunities for synergy between DSS for pest/disease management and weather index insurance based on the common use of weather indices for losses to pests and diseases. The team developed a model framework for DSS/EWS.

Output 2.3.2 Synthesized knowledge and evidence on institutional arrangements and communication processes for enhancing climate services for agriculture and food security, including services that reach marginalized farmers and women

Provide a synthesis of all Program
Participant activities pertaining to this
output as per the CCAFS logframe.
These reports will be 3-5 pages long

CCAFS partnered with USAID, WMO and the Climate Services Partnership to convene a workshop on "Scaling Up Climate Services for Farmers in Africa and South Asia" (Saly, Senegal, 10-12 December) that convened 110 experts from 30 countries to exchange knowledge and chart a pathway for supporting farming communities with climate information and advisory services. Participants examined existing constraints to the uptake and use of climate services, including barriers to the full participation of women and socially marginalized groups. A side event provided opportunity to more fully discuss with gender experts the role of gender in climate services. Workshop participants identified priority actions for overcoming existing climate services constraints, and sponsors committed to support their development into full proposals through mentoring and seed grants. Plans are underway for workshops to develop proposals around the priority actions, and to identify sources of funding to begin implementation.

The Saly workshop featured in-depth studies of national agrometeorological advisory services in India and Mali. CCAFS and partners (USAID, IRI and IER for Mali) conducted these studies in order to provide evidence of use and benefit at the village level; and insights about factors that have contributed to their uptake, impact and sustainability.

An ongoing IWMI-IFAD project is developing novel ways of using technology to provide water-related information services to farmers in Egypt, Ethiopia and the Sudan. A prototype mobile phone-based service, which provides farmers with information derived from remote sensing, will be established in 3 countries by 2014. The effort included capacity building programs on the use of ICT for weather and water information for farmers in Egypt and Ethiopia, and surveys and field visits to understand farmers' needs. An IWMI household survey in South Asia showed that farmers obtain agrometeorological information from multiple sources: more than 90% obtain information from other farmers, and 99% have access to mobile phones. Mobile phones encourage market participation and diversification towards high-value crops amongst poor farmers, helping to increase earnings. Poorer farmers face barriers to benefitting mobile phones, including limited access to markets, storage and irrigation; and availability of critical inputs.



Milestone Status Report - 2012

	Theme Theme 2	Milestone 2.1.1 2012	Milestone Status Completed							
	mente 2	2.1.1 2012	Completed							
		Theme Leader comme	ents on Milestone status							
	Knowledge synthesis reports an	d related research activities in 2012 cov	ver 5 areas of climate risk management innovation: traditional knowledge							
		Regional Program Leader co	comments on Milestone status							
MILESTONE REPORT 1	one in each of Uttar Pradesh an farming/livelihood systems, it had adaptations to climate variabilit incorporating historic and curre initiated by Worldfish in CCAFS I different centers. EA: Commissioned case studies have evaluating integration of scienties easily accessible forecasts to infine benefits, challenges and opporting the properties of the service of	d Rajasthan of India in terms of key bio- as also analysed smallholders' adaptatic cy in mountain regions of Nepal and Pak nt climatic risks and livelihood options i benchmark sites. Local knowledge and g e been completed in Ethiopia, Tanzania fic weather and climate forecasting and form farm-level decision making. The ca unities of rangeland enclosures and cor pastoral communities. In Kenya, the act	on for climate risk management in IGP, ICRAF characterized two sites, o-physical and socio-economic parameters for their main ion strategies to climate change and the role of tree crops in local kistan, ICRISAT completed social vulnerability index and produced maps in dry lands of India, 'Smartfarm' for managing climatic risk has been gaps have been identified but there seems some redundancies in a, and Uganda. In Tanzania and Uganda, case studies focussed on d indigenous knowledge to provide downscaled accurate, timely and ase study in Ethiopia focussed on documenting the status, utilization, mmunity action groups (CAGs) to understand their implications on tivity focused on documenting the climate related opportunities for							
	Theme	Milestone	Milestone Status							
	Theme 2	2.1.2 2012	Partially completed							
		Theme Leader comments on Milestone status								
MILESTONE REPORT 2	Theme-comissioned work (co-fu	Theme-comissioned work (co-funded by Theme 4) produced an initial prototype of a household modeling tool that is compatible with IMPACT-L								
		Regional Program Leader co	comments on Milestone status							

	Theme	Milestone	Milestone Status				
	Theme 2	2.1.3 2012 (1)	Completed				
MILESTONE REPORT 3	Participatory action research on su some extent in CCAFS sites in at-lei research by Centers, so portfolios of than anticinated. Because of resout than anticinated. Because of resout than anticinated and climate, hydrology, land use policy engaged household survey in IGP of phones in reducing information sea and innovation emerging under climate. EA:Across CCAFS sites in East Africation communities to test a portfolio of Nyando, testing the design and control of the communities to test a portfolio of the communities to	Theme Leader comments intes or cumate risk management strategi ast 6 countries (Kenya, Uganda, Tanzania of multiple risk management innovations urce limitations and the varying canacity. Regional Program Leader comm analysis of main adaptation options pursu options, water management policy option on farmers' access to agricultural informa arch costs and asymmetries, and increasi mate change context. Sufficient works ha a, researchers from the national and inte climate risk management strategies. The	on Milestone status es, under the "climate-smart village" model, was implemented to a, Senegal, Bangladesh, India). Co-locating place-based participator is could be evaluated at CCAFS sites, has progressed more slowly and approaches of partners, expectations of applying fully sents on Milestone status ued by people in the past, and adaptation needs analysis based on one in south western coastal Bangladesh, CIMMYT has been stion sources and completed an analysis of the role of mobile ing market efficiencies, CCAFS has documented local knowledge are been done in this milestone. ernational institutions and development partners are working with se include diversification of livelihoods through bee-keeping in a c seasonal forecasts and evaluating their impact on farmers'				
	Theme	Milestone	Milestone Status				
	Theme 2	2.2.1 2012	Completed				
		Theme Leader comments	on Milestone status				
MILESTONE REPORT 4	Studies of the impacts of climate fluctuations on food security and its components have been reported for Nepal, Pakistan, India, Senegal and Et						
		Regional Program Leader comm	ents on Milestone status				
	•		e, sorghum, pearl millet, maize, pigeon pea, groundnut and cotton) lalysis was done for Nepal to quantify the relationship between				

 $historic \ and \ current \ climatic \ variability \ and \ food \ security \ indicators. \ This \ research \ has \ huge \ policy \ significance.$

	Thoma	Milestone	Milastona Status						
	Theme Theme 2	Milestone 2.3.1 2012	Milestone Status Completed						
	THEME 2								
	Theme Leader comments on Milestone status Progress was made on analysis to support seasonal climate prediction in SAs, on methods and capacity to use satellite data to fill gaps in meteor								
	Regional Program Leader comments on Milestone status								
MILESTONE REPORT 5	be subsequently tested in Nepal, I toolkit, IFPRI developed farm leve characterization, statistical relatio based decision modelling, CIMMY	SAs: Capacity development of the NARES on crop production forecasting was done in 2012, toolkit will be ready for use by the mid of 2013 and will be subsequently tested in Nepal, India, Sri Lanka and Bangladesh, sufficient volume of data have been already collected in S Asia to run the toolkit, IFPRI developed farm level hydro-bio-economic modeling of climate risk coping strategies in the IGP and a report on drought characterization, statistical relationships between droughts and agricultural production, and drought mitigation options selected using risk-based decision modelling, CIMMYT produced maps of wheat yield sensitivity to warming in India, with identification of hotspots, including comparison of results between statistical and process-based models. This milestone is covered completely.							
	As part of the Agricultural Model I economic and IT experts were for and Uganda with ICRISAT as the coward wa: Capacity on seasonal forecasting e	As part of the Agricultural Model Inter-comparison project (AgMIP), four regional multidisciplinary teams comprising of climate, crop, economic and IT experts were formed in Sub-Saharan Africa (SSA). In Eastern Africa, country teams were formed in Kenya, Ethiopia, Tanzania and Uganda with ICRISAT as the coordinating agency.							
	Theme	Milestone	Milestone Status						
	Theme 2	2.3.2 2012	Completed						
	Theme Leader comments on Mile	stone status							
	Work on climate services for agriculture and food security advanced rapidly, with the hire of Arame Tall (through ICRISAT), and CCAFS participati								
MILESTONE	Regional Program I	Leader comments on Milestone status							
REPORT 6	SAs: A South-South Exchange was conducted in Dakar, Senegal which drew together 110 experts from both policy and research (met services and NARES) communities of practice along with farmer representatives, for a total of more than 30 countries and 50 institutions represented (including 5 CG centers), ICRISAT successfully developed seasonal forecasts for SW monsoon for Kurnol and Anatapur Districts from IITM GCM-downscaled forecast and delivered to farmers with crop management options. South South Exchange was instrumental to further refine gender and socially equitable information delivery mechanism learning lessons from different regions. WA: Climate information delivery mechanisms demonstrated and evaluated with representatives of different stakeholders groups at Kaffrine in Senegal								
	Theme	Milestone	Milestone Status						
	Theme 2	2.1.3 2012 (2)	Completed						
MILESTONE REPORT 7	technologies. Their reporting note added in 2011 to capture ongoing	stone status (Etniopia, Kenya, Tanzania, Nigeria, Maiaw es the role of the new technology within bri work by Centers focused on assessing or tr	vi, Cnina) that focuses in part on transferring oader livelihood strategies. Note that Miles ransferring particular production technologie t toward work that is increasingly co-located	tones 2.1.3 X (2) were es. An apparent					

Theme 2 Completed Theme 2 Completed Theme Leader comments on Milestone status Index insurance work has been supported by IFPRI and ILRI. In Ethiopia, the first sales period for ILRI's IBLI project was initiated in 2012. In West Africa, work on fostering and evaluating use of seasonal forecasts by farmers was extended to cover Senegal, Burkina Faso and Mali. CIMMYT, ICRISAT, and CIP are using ICT and participatory studies to deliver climate information in Zimbabwe, Peru, and Ethiopia. Regional Program Leader comments on Milestone status