

Technical Note

Adaptation to Climate Change — Training Material from Various

Climate Change and Coffee: Training for Coffee Organizations and Extension Services Organization Federal Ministry for Economic Cooperation and Development, GIZ, AdapCC Year 2010 Link www.academia.edu/1977329/Adaptation to Climate Change Training Manual Type Guide book Topics Soil, water, crop (coffee) Summary This manual contains all of the technical information as well as the didactic material that was used in these training events, and, thus, serves as a guide for learning step-by-step how to identify climate change risks for small holder coffee farmers and their organizations and how to seek and implement the most appropriate solutions in response. The end of the manual addresses how farmers can tap into the voluntary carbon sequestering market. Strengths Report is well structured and very detailed. First explains what climate change is, and what the potential impacts on coffee farmers are. Then provides dialogue and questions to use during training sessions with coffee farmers. Good step-by-step manual for how to train coffee farmers to be more resilient to climate change. Example of degree of detail: "Diseases such as leaf rust and leaf spot are favored by high humidity and high precipitation. In years with plentiful rain, farmers should reduce the amount of shade or carry out a strong pruning during the rainy season so as to not create the conditions that favor them." Weaknesses Crop specific.

Climate Change Mitigation Finance for Smallholder Agriculture: A guidebook to harvesting soil carbon sequestration benefits

Organization	FAO
Year	2011 Region
Link	http://goo.gl/rDy21C
Туре	Guide book
Topics	Mitigation, Carbon sequestration projects, Finance
Summary	PDF document provides an overview of the opportunities for climate change mitigation from agricultural soil carbon sequestration, the emerging policy options and consequent institutional mechanisms for financing such mitigation, and the opportunities for smallholders to participate in them. The second part is aimed primarily at carbon project developers and decision makers at national level concerned with environmental and agriculture policies and incentives, and NGOs and farmers' associations working towards rural development and poverty alleviation. It provides step-by-step practical support to project development.
Strengths	Written in text book style. Very descriptive "how-to" for setting up carbon soil sequestration projects. Good use of graphics and case study boxes.
Weaknesses	Only address a very specific project for small scale farming. Focus is on mitigating greenhouse gas emissions, and how to incentivize and finance agricultural projects towards this focus.
Content	Good for the specific topic. Extensive information is provided if considering implementing a carbon soil sequestration project
Format	Textbook style formatting. Good use of case-study boxes depicting graphics

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Manual on integrated soil management and conservation practices

Organization	FAO
Year	2000 Region Africa
Link	ftp://ftp.fao.org/agl/agll/docs/lw8e.pdf
Туре	Manual
Topics	Soil, Water, Crop, Land
Summary	The FAO helped arrange a program/class to indicate some of the problems of soil and water conservation, to prepare strategies and plans and to organize action programs that take account of integrated planning for soil management. Manual provides thorough explanations and descriptions of how to manage soil in different hemispheres and micro-climates, but most specifically African countries.
Strengths	Very clear, concise statements provided in bullet points and numberings that make for an easy read by any audience. Black and white charts and graphics help describe certain conservation techniques
Weaknesses	Not written as a practitioners guide or field manual.
Content	Good amount of content is provided on specific areas. Not too technical, but not too watered down. Few drawings and graphics are used to explain concepts.
Format	Chapters, paragraphs, charts, bullet points, few graphics.

Field Guide: Simple techniques for soil and water conservation

Organization The Center for Sustainable Development

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Year	2013	Region	All
Link	www.csd-i.org	g/csdi-blog	z/2012/4/18/field-guide-simple-techniques-for-soil-and-water-conservatio.html
Туре	Blog / Short Fi	ield Guide	
Topics	Soil, Water		
Summary	0	low of wa	different ways of managing water and conserving soil by developing barriers on farm fields for ter so that it can percolate into the soil and build up soil moisture. The barriers also reduce the loss
Strengths	0	apture wa	s 4 different methods for capturing rain water on farm fields using the swale method (on-contour ter). Clear easy to read. Could be a good document to look at, since it's short and written for vorkers
Weaknesses	Does not expl	ain in deta	il how to build swales.
Content	Short and to t	he point. I	Easy to follow. Provides four good methods for capturing rain water on the land.
Format	Short article/b	olog online	e. Not a good example of how to write a field guide

Integrating climate change adaptation into development planning: A practice-oriented training based on the OECD Policy Guidance

Organization	OECD
Year	2013 Region All
Link	www.oecd.org/environment/environment-development/ integratingclimatechangeadaptationintodevelopmentplanningapractice- orientedtrainingbasedontheoecdpolicyguidance.htm
Туре	Online training materials
Topics	Planning for adaptation strategies, assessing climate change data
Summary	Ten training modules introduce the key steps for climate change adaptation. Working with the case of the fictitious state of Zanadu, participants simulate the process of addressing climate adaptation in their decision-making.
Strengths	Helps an organization begin the initial steps towards addressing climate change adaptation.
Weaknesses	Does not cover specific methods and techniques for how farmers can adapt to different situations
Content	PowerPoint presentations are easy to follow. Offered in English, French, and Spanish
Format	Website / PowerPoint presentations

Training M	anual for Applied Agroforestry Practices
Organization	University of Missouri: Center for Agroforestry
Year	2013 Region All
Link	www.centerforagroforestry.org/pubs/training/
Туре	Training Manual
Topics	Agroforestry
Summary	This training manual is designed to provide easy-to-use information about agroforestry. Chapters include planning for agroforestry, alley cropping, salvo-pasture, riparian & upland forest buffers, windbreaks, forest farming, agroforestry & wildlife, marketing principles, economic considerations for agroforestry, trees and shrubs, and grasses and forages.
Strengths	Very thorough document Written by academia. Detailed and very extensive information provided on all aspects of agroforestry.
Weaknesses	Very long document. Not ready for "field pocket guide"
Content	The intended audience includes forest and agricultural landowners, resource professionals and other educators; yet, anyone interested in establishing or managing trees for multiple functions on the landscape can use the agroforestry guidelines to assist in achieving success.
Format	Textbook format. Long and detailed sections. Good use of pictures, charts, tables, and graphics

Climate Ch	ange Adaptation for Smallholder Farmers in Southeast Asia
Organization	World Agroforestry Centre (ICRAF)
Year	2011 Region Asia
Link	www.asb.cgiar.org/PDFwebdocs/lasco-2011-ccadaptationfarmerssoutheastasia.pdf
Туре	Report
Topics	Water management, Crop Management, pest control, agroforestry
Summary	Report asks major questions regarding climate change: what is it? What can we do about it? Chapter 4 asks: What can smallholder farmers do to adapt? Different strategies are discussed briefly in regards to water, crop, and land management.
Strengths	Easy to find where information is located (specific question and answer format). Many good strategies are provided for water, crop, and land management.
Weaknesses	Very specific to Southeast Asia. Rice farmers, terraced farming, and tropical farming. Doesn't go into depth on how to design and build projects.
Content	Good amount of content is provided on specific areas. Not too technical, but not too watered down. Few drawings and graphics are used to explain concepts.
Format	Report is generally paragraphs, few graphics, and some pictures showing examples.

Online Trai	Online Training Platform for Sustainable Agriculture		
Organization	Rainforest Alliance		
Year	2011 Region All		
Link	http://www.sustainableagriculturetraining.org		
Туре	Online training materials		
Topics	Soil, Water, Crop, Ecosystem, Waste, Forest, Wild life, Fair wages		
Summary	19 different training guides on different sustainable farming and land management areas. Free for everyone to use. Website can be translated into English, French, Spanish, Indonesian, Bahasa, Mandarin, and Vietnamese.		
Strengths	Clean and very organized website. Interactive training modules. Modules use video, audio, and PowerPoint presentations to explain topics		
Weaknesses	Not as easy to navigate like a document with table of contents.		
Content	Content is brief and to the point. Good for farmers who have occasional access to computers and internet. Interactive, fun website to use.		
Format	Website		

Gender and	Climate Change Research in Agriculture and Food Security for Rural Development
Organization	FAO, CGIAR, CCAFS
Year	2013 Region All
Link	www.fao.org/climatechange/micca/75949/es
Туре	Training Guide
Topics	Broadly touches on all topics as they relate to gender issues
Summary	The purpose of this guide is to explain what tools for participatory rural research can be used in gathering information on the interlinkages between gender and food security in a changing climate. The guide also promotes gender-sensitive adaptation and mitigation activities in agriculture.
Strengths	Provides participatory action research methods. Shows how to facilitate the use of daily and seasonal weather forecasts for farmers and how to make access to these forecasts more equitable. Also shows how to create a space where farmers can have a dialogue about climate change issues
Weaknesses	Does not discuss soil, water, or crop management techniques.
Content	Content is written for agricultural development professionals working with households and communities.
Format	Does not cover any of the soil, water, or crop management techniques. Focus is more on gender gaps in agriculture.

Climate Re	ated Risks and Opportunities for Agricultural Adaptation in Semi-Arid Eastern Kenya	
	CCAFS, CGIAR	
Year	2013 Region Africa	
Link	www.ccafs.cgiar.org/publications/climate-related-risks-and-opportunities-agricultural-adaptation-semi-arid-eastern- kenya#.UioK0YWyxAs	
Туре	Report	
Topics	Soil, Water, Crop, Livestock, Pest Management	
Summary	This report contains information on a field assessment of risks associated with climate variability in eastern Kenya. It also includes the compilations of climate related agricultural risks gathered from a Kamba radio dialogue with local communities of Eastern Kenya, aired from January to April 2012. It highlights the significant potential in the region for mitigating climate change through improved management of agricultural land and crop and livestock husbandry practices, as well as on tapping into the wide range of traditional knowledge of the local communities.	
Strengths	Discusses many beneficial farm management techniques that can be applied to any semi-arid region	
Weaknesses	More of an introduction to various sustainable farming techniques. Not training manual or how-to. Mostly specific to Kenya	
Content	Easy to follow and read. Clear table of contents.	
Format	White paper with pretty art pictures. No pictures or diagrams explaining how to do things	

Permacultu	Permaculture website	
Organization	Paul Wheaton	
Year	2013 Region All	
Link	www.permies.com	
Туре	Online "Do it Yourself" projects	
Topics	Soil, Water, Crops, Livestock, Integrated Pest Management, Natural Building Methods, Gardening, Farming, homesteading and more	
Summary	Website includes video, articles, forums, and "Do it Yourself" projects on all types of sustainable living methods.	
Strengths	Website is useful for anyone interested in sustainable living methods. Easy to navigate and explore website	
Weaknesses	Does not include case studies, but does include peoples comments and personal trials	
Content	Cartoon style website makes it fun and accessible by all types of people, and any age group.	
Format	Website	

Extension Officer Training Manual: Adapting to Climate Change in the Tea Sector	
Organization	GIZ, Solidaridad, Ethical Tea Partnership, BMZ, develoPPP.de, Tea Research Foundation, Kenyan Tea Development Agency
Year	not available Region Africa
Link	www.ethicalteapartnership.org/resources/training-materials
Туре	Training Manual
Topics	Soil, Water, Crop, Land (Tea farming)
Summary	First it provides an introduction to climate change concluding with a description of the problems caused by climate change and how these will likely impact the tea sector (chapter 1). Each problem has associated adaptation techniques and these can be found in the second part of the manual (chapters 2 to 6). For each adaptation technique, information and activities are provided that can be used by extension officers to deliver training on the topic to tea producers.
Strengths	Easy to read document that provides detailed information on how to implement different adaptation techniques including: shade trees, drought resistant tea clones, cover crops, double digging, mulching, green manure, rainwater harvesting, drip irrigation, and much more
Weaknesses	Not ready for "field pocket guide". Partially specific to tea farmers
Content	Content is excellent for practitioners and tea farmers. Much of the information can be used in other crop fields and farms
Format	75 pages, training manual style: pictures, charts, color, easy to follow

DNR Tree Facts: Windbreaks

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Organization	Queensland Government, Tree Care Extension Officers
Year	1996 Region All
Link	http://dnr.wi.gov/topic/forestmanagement/documents/pub/fr-070.pdf
Туре	Manual
Topics	Agroforestry
Summary	Three page document that discusses the benefits of using trees as windbreaks to allow for more suitable crop growing conditions. Document shows how to design windbreaks in different types of windy areas.
Strengths	Very useful document for designing, selecting, and implementing tree varieties to create the specific type of windbreak a farmer needs. Drawings provide easy to understand images of each example. Short and to the point
Weaknesses	Very specific. Only discusses windbreaks.
Content	Content is good, short, to the point, and written for anyone interested in planting to create windbreaks.
Format	Article style format. Short and concise. Easy to follow. Good images.

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