

Acronyms

°C	degree Celsius
AASS	African Advisory Services Symposium
ACF	Action Against Hunger
ACT	African Conservation Tillage Network
AEZ	agro-ecological zone
AGP	agriculture growth program
AHI	African Highland Initiative
AMCEN	African Ministerial Conference on Environment
ANOVA	analysis of variance
ARARI	Agriculture Research Institute
ASAL	arid and semiarid land
asl	above sea level
AWD	alternate wetting and drying
AWM	agricultural water management
BBM	broadbed and furrow maker
BCR	benefit-cost ratio
BoWRD	Bureau of Water Resources Development
BRN	Big Results Now
BWO	Basin Water Office
C	conventional practice
CA	conservation agriculture
CAADP	Comprehensive Africa Agriculture Development Programme
CARE	Cooperative for Assistance and Relief Everywhere
CASL	Community Adaptation and Sustainable Livelihood
CBO	community-based organization
CC & V	climate change and variability
CDI	conventional drip irrigation
CF	conservation farming
CF	conventional practice with added fertilizer
CFW	cash-for-work
CGIAR	A global research partnership for a food-secure future
CLUSA	Cooperative League of the United States of America
cm	centimeter
CO ₂	carbon dioxide
COMESA	Common Market for Eastern and Southern Africa
CPWF	CGIAR Challenge Program on Water and Food
CRISTAL	Community-based Risk Screening Tool – Adaptation and Livelihoods
CSO	civil society organization
CT	conservation tillage
CUC	Christiansen's uniformity coefficient
DAICO	Directorate for Agriculture, Irrigation and Cooperatives
DAO	district agricultural officer
DAP	diamonium phosphate
DA	development agent
DDP	District Development Plan
DED	Deutscher Entwicklungsdienst Ded
DIDT	district irrigation development team
DNH	Do-No-Harm
DRRAP	Drought Risk Reduction Action Plan
DU	distribution uniformity
E	evaporation
EA	evergreen agriculture

ECHO	European Commission's Humanitarian Aid and Civil Protection Programme
ECO	Ecological Christian Organization
EHRS	Ethiopian Highland Reclamation Study
ELMT	Enhanced Livelihoods in the Mendera Triangle
EPA	Environmental Protection Authority
ESA	Eastern and Southern Africa
ESR	ecosystems and resilience
ET	evapotranspiration
EU	emission uniformity
FAO	Food and Agriculture Organization of the United Nations
FARM–Africa	Food & Agricultural Research Management–Africa
FBO	faith-based organization
FFS	farmer field school
FFW	food-for-work
FGDs	focus group discussions
FREG	farmer research extension group
ft	feet
g	gram
GDP	gross domestic product
GEF	Global Environment Facility
GHG	greenhouse gas
GIS/RS	geographic information system/remote sensing
GIZ	Deutsche Gesellschaft für Internationale Zusammenarbeit
GRET	Groupe de Recherches et d'Echanges Technologiques
GTZ	Gesellschaft für Technische Zusammenarbeit
GWD	ground water development
GWI	Global Water Initiative
GWI EA	Global Water Initiative East Africa
ha	hectare
HIV/AIDS	human immunodeficiency virus/acquired immunodeficiency syndrome
ICRISAT	International Crops Research Institute for the Semi-Arid Tropics
IDP	internally displaced person
IFAD	International Fund for Agricultural Development
IFPRI	International Food Policy Research Institute
IGAD	Intergovernmental Authority on Development
IHE	International Institute for Hydraulic and Environmental Engineering
IIRR	International Institute of Rural Reconstruction
ILAC	Institutional Learning and Change
ILRI	International Livestock Research Institute
IMAWESA	Improved Management of Agricultural Water in Eastern and Southern Africa
IPCC	Intergovernmental Panel on Climate Change
IRR	internal rate of return
ISRIC	International Soil Reference and Information Centre
ISWM	integrated soil and water management
ITV	Independent Television
IUCN	International Union for Conservation of Nature and Natural Resources
IWM	integrated watershed management
IWMI	International Water Management Institute
IWRM	international water resources management
IWP	irrigation water productivity
JESE	Joint Effort to Save the Environment
JICA	Japan International Cooperation Agency
JLA	joint learning approach
KADLACC	Kapchorwa District Landcare Chapter
kcal	kilocalorie
KDWSP	Kigezi Diocese Water and Sanitation Programme
kg	kilogram
l	liter
LCDI	low-cost drip irrigation

LPA	Learning and Practice Alliance
LPA	Learning and Planning Alliance
LUPIS	Land Use Policies and Sustainable Development in Developing Countries
LVB	Lake Victoria Basin
LVIA	Lay Volunteers International Association
LWP	livestock water productivity
m	meter
M&E	monitoring and evaluation
m ²	square meter
m ³	cubic meter
MAAIF	Ministry of Agriculture Animal Industry and Fisheries
MAM	March to May
MARI	Mlingano Agricultural Research Institute
masl	meters above sea level
MDG	Millennium Development Goal
MEFECAP	Meru Forest Environment Conservation & Protection Association
MERECEP	Mt. Elgon Ecosystems Regional Program
MERET	Managing Environmental Resources to Enable Transitions
mg	milligram
MICCA	Mitigation of Climate Change in Agriculture
mm	millimeter
MoA	Ministry of Agriculture
MOU	memorandum of understanding
MSc	Master of Science
MSWoARD	Menjar Shenkura Woreda Office of Agriculture and Rural Development
MTNRE	Ministry of Tourism, Natural Resources and Environment (Tanzania)
MWE	Ministry of Water and Environment
NAADS	National Agricultural Advisory Services
NABU	Nature Conservation Alliance
NaCRRI	National Agricultural Crop Research Institute Namulonge
NAPA	national adaptation programs of action
NARL	National Agricultural Research Laboratories
NARO	National Agricultural Research Organisation
NBDC	Nile Basin Development Challenge
NEMA	National Environmental Management Authority
NEMC	National Environmental Management Council
NgeZARDI	Ngetta Zonal Agricultural Research and Development Institute
NGO	non-government organization
NPHC	National Population and Housing Census
NPV	net present value
NRM	natural resource management
OECD	Organisation for Economic Co-operation and Development
OND	October to December
PA	peasant association
PEER	Partnership for Enhanced Engagement in Research
PF	pitting + fertilizer
PhD	Doctor of Philosophy
PPBs	permanent planting basins
PPP	public-private partnership
PRA	participatory rural appraisal
PROCA	Participatory Rapid Opportunities and Constraints Analysis
PVC	polyvinylchloride
REGLAP	Regional Learning and Advocacy Project
REST	Representational State Transfer
RF	ripping and fertilizer
RIPPLE	Research-inspired Policy and Practice Learning in Ethiopia and the Nile region
RMS	rainwater management systems
ROI	return on investment
RWH	rainwater harvesting

SAGCOT	Southern Agricultural Growth Corridor of Tanzania
SAIPRO	Same Agriculture Improvement Project
SARI	Selian Agriculture Research Institute
SCAPA	Soil Conservation and Agroforestry Programme
SCTD	Schumancher Centre for Technology and Development
SEI	Stockholm Environment Institute
SIMLESA	Sustainable Intensification of Maize-Legume Cropping System for Food Security in Eastern and Southern Africa
SIWI	Stockholm International Water Institute
SLF	Sustainable Livelihoods Framework
SLM	Sustainable Land Management
SMU	Sorghum for Multiple Use Project
SNNPR	Southern Nations, Nationalities, and Peoples' Region
SPSS	Statistical Package for the Social Sciences
SRI	system of rice intensification
SS	stainless steel
SSA	sub-Saharan Africa
SSC	suspended sediment concentration
SSY	suspended sediment yield
SUA	Sokoine University of Agriculture
SWC	soil and water conservation
T	transpiration
T&V	Train and Visit
t/ha	tons per hectare
TAFSIP	Tanzania Agriculture and Food Security Investment Plan
TIP	Traditional Irrigation Project
Tsh	Tanzanian shilling
TT	traditional tillage
TXD	Tanzania Cross Dakawa
UBOS	Uganda Bureau of Statistics
UGX	Ugandan shilling
UMADEP	Uluguru Mountain Agricultural Development Project
UN	United Nations
UNDP	United Nations Development Programme
UNEP	United Nations Environment Programme
UNESCO	United Nations Educational, Scientific and Cultural Organization
UNFCCC	United Nations Framework Convention on Climate Change
URT	United Republic of Tanzania
US\$	United States dollar
USAID	United States Agency for International Development
UWA	Uganda Wildlife Authority
VADP	village agricultural development plan
WAP	Water Action Plan
WaSA	Water Smart Agriculture
WASH	water supply, sanitation and hygiene
WaTER	Water Sanitation and Hygiene Transformations for Enhanced Resilience project
WCP	water cost of production
WEMA	Water-efficient Maize for Africa
WFP	World Food Programme
WHaTeR	Water Harvesting Technologies
WLE	CGIAR Research Program on Water, Land and Ecosystems
WOCAT	World Overview of Conservation Approaches and Technologies
WP	water productivity
WPrain	rainwater productivity
WSI	water system innovations
WUAs	water user associations
WWF	Worldwide Fund for Nature
yr	year
ZARDI	Zonal Agricultural Research Development Institute