

## CGIAR RESEARCH PROGRAM ON CLIMATE CHANGE, AGRICULTURE AND FOOD SECURITY (CCAFS)

CATEGORY:	Research
CSA PROJECT:	Climate-Smart Villages
SCALE:	National & County
LOCATION (COUNTY)	Kisumu and Kericho
PERIOD OF THE PROJECT:	2011 - 2021
GRANT SIZE OF THE PROJECT:	N/A



### SUMMARY OF ACTIONS

The CGIAR Research Program on Climate Change, Agriculture and Food Security in East Africa (CCAFS EA) seeks to support the countries in East Africa such as Kenya, in their pursuits to achieve sustainable developmental goals as well as fulfill national, regional and international climate-related commitments. To achieve this, CCAFS EA is promoting climate-smart agriculture (CSA)—a strategic approach to agriculture that aims to solve the region’s increasing developmental and climate-related challenges by introducing climate-smart practices and technologies to sustainably increase agricultural productivity and income, enhance resilience and adaptive capacity, while reducing emissions and sequestering carbon.

### CONTEXT

The agricultural sector in Kenya is the largest contributor of Kenya’s GDP. The key challenges for the sector is overreliance on rain fed agriculture, and extreme weather events such as drought and flood. In order to build resilience in agricultural systems within Kenya, CCAFS promotes innovations by tapping into the expertise of other CGIAR Centers, as well as other national and regional research networks. Efforts are focused around the promotion of climate-smart agriculture that facilitates adaptation and mitigation in cereal-based and livestock systems. CCAFS EA has established research sites to introduce, test, evaluate and promote technological and institutional CSA options for addressing climate variability and change in agriculture. These sites have been established as Climate-Smart Villages (CSVs), and act as ‘lighthouses’, allowing communities to test, co-develop and adopt integrated portfolios of CSA practices.

### OBJECTIVE

CCAFS EA aims to contribute to a climate-resilient East Africa, which is food and nutrition secure and that has equitable access to livelihood opportunities for all. Complementary objectives that support these goals include: increasing carbon storage in agricultural systems, reducing GHG emissions from food systems and agricultural value chains, supporting enabling policies and increased investments in agriculture and natural resource management.

## KEY INTERVENTIONS

FARM LEVEL	TARGET(NO OF FARMERS)	INDICATORS MONITORED
Climate smart agriculture practices	Farmers, research & development partners, value-chain actors	Number of site-specific targeted CSA technologies or practices implemented.
Access to climate services	Farmers	Number of farmers accessing climate information services for decision making
BEYOND FARM LEVEL	TARGET BENEFICIARIES	INDICATORS MONITORED
Policy and advocacy	Policy makers	<p>Number of policy decisions and strategies taken (in part) based on CCAFS science and knowledge products</p> <p>Number of institutions and major initiatives using CCAFS outputs for services helping farm households manage climate risks</p>
Inclusion of youth and women in climate smart agriculture practices	Research & development partners	Number of organizations adapting plans to increase women's access to decision making and control over resources

## PARTICIPATION IN KEY CLIMATE & AGRICULTURE NETWORKS

CCAFS is a member of: Climate Smart Agriculture Multi-stakeholder Platform; African Group of Negotiators-Expert Support (AGNES) and Africa Climate Smart Agriculture Alliance (ACSAA).

### INVOLVEMENT IN CSA

- Research
- Policy formulation
- Knowledge dissemination
- Coordination and networking
- Technology transfer

### RELEVANCE OF CSA MSP TO WORK

- Information about CSA
- Networking
- Learning and exchange
- Reporting and showcasing
- Influence policy environment

## RECOMMENDATION ON WAYS TO SUPPORT MSP

- Developing specific climate smart agriculture policies, legislations, strategies, plans,
- Dissemination of climate smart agriculture knowledge and technologies

- Capacity building of key actors involved in climate smart agriculture implementation
- Mobilizing actors and facilitating dialogue on climate smart agriculture issues/actions
- Conduct research to provide scientific evidence

## LESSONS LEARNED/CHALLENGES IN CSA PROJECT IMPLEMENTATION

Collective action groups are important platforms for innovative partnerships that provide new knowledge and skills and build the capacity of local farmers to change farming practices while adopting new crop and livestock interventions. They empower members to pool financial resources for savings, provide labor for farm operations, and make it easier to provide agro-advisory services and farm inputs of good quality at affordable prices.

Up scaling and out scaling of CSA technologies and practices, will require the strengthening of enabling conditions such as climate information, agro-advisories and access to finance and strengthening existing farmer experimentation networks including mobilizing farmers to continue working in groups. Moving forward, resource poor vulnerable farmers, women and youth should be at the center of efforts to build adaptive capacity.

## RELEVANT LINKS & REFERENCES

CCAFS East Africa 2019–2021: Strategy for Supporting Agricultural Transformation, Food and Nutrition Security under Climate Change <https://ccafs.cgiar.org/publications/ccafs-east-africa-2019%E2%80%932021-strategy-supporting-agricultural-transformation-food-and#.XeijVugzaUk>

Booklet - Stories of Success: Climate-Smart Villages in East Africa - <https://cgspace.cgiar.org/bitstream/handle/10568/81030/Success%20Stories%20Final.pdf?sequence=5&isAllowed=y>

Radeny M, Ogada MJ, Recha J, Kimeli P, Rao EJO, Solomon D. 2018. Uptake and Impact of Climate-Smart Agriculture Technologies and Innovations in East Africa. CCAFS Working Paper no. 251. Wageningen, Netherlands: CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS).

## ORGANISATION INFORMATION AND CONTACT ADDRESS INCASE OF FOLLOW UP

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