Appendix 3

CSA SADP Experiences

Smallholder Agricultural Development Project (SADP)/2 :- Lesotho Adaptation of Small-Scale Agricultural Production (LASAP)

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Table of Contents

LASAP PROJECT SUMMARY

Project Objective:-to increase the resilience of small scale agriculture to climate change impacts by promoting climate-proofed investments for agriculture-based development, as well as by enhancing the resilience of agricultural productivity under increased climate variability.

Start Date: 2019

End Date: 2021

Project Cost (in USD) : 4,330,000.00

Grants Total: 121

Coverage: Seven districts

Component 1 : Reduced Vulnerability of Agric Production

DAR in collaboration with PFO/DCSO conducted on farm **Demonstrations & Trials** by districts with the intension of evaluating new varities with particular focus on climate adaptability and drought resilience.

2018/19 cropping season

Butha Buthe	Maize
Leribe	Beans
Berea	Sunflower
Mafeteng	Sorghum

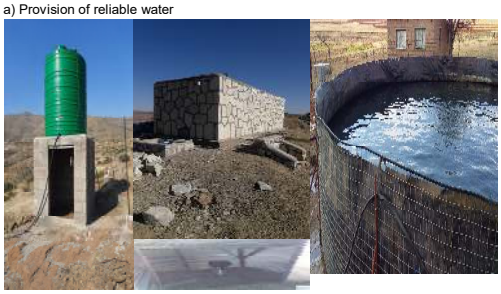
Field days were conducted with 150 farmers attending , Butha buthe and Berea

2019/20 cropping season

Leribe, Berea	Beans
Leribe, Berea	Sunflower
Mafeteng, Quthing	Sorghum
Mafeteng, Quthing	Wheat
Butha Bothe, Quthing	Potatoes
7 Old Districts	Tomatoes
7 Old Districts	Green Peppers

Component 2: Enhanced adaptive capacity to support Agric production in the context of climate change

a) Provision of reliable water

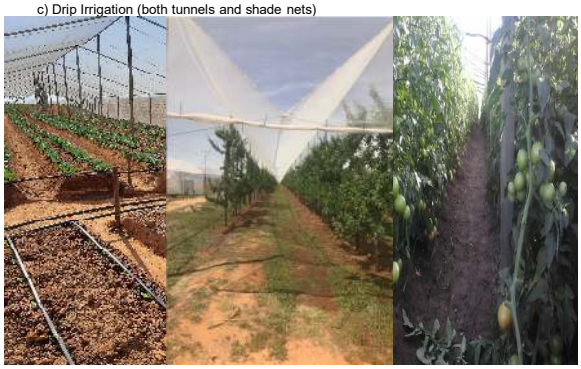


Component 2 (continued)

b) Farming under protected land

Component 2 (continued)

c) Drip Irrigation (both tunnels and shade nets)



Component 2 (continued)

d) Climate adaptive varieties and improved breeding stock

SADP 2 CSA initiatives Production

Component 1: Scaling Up CSA Practices and Advisory Services

- ⇒ Capacity Building for adoption of CSA practices
- ⇒ Support for Investments in CSA Technologies
- ❖ Support for establishment of Lesotho Soil Information System
- ❖ Establishment of State-of- the-art laboratory
- ❖ Construction of fertilizer blending facility
- ⇒ Support to irrigation sector
- ❖ Irrigation schemes (old vs new)
- ❖ National Irrigation Master Plan
- ❖ Support development of Irrigation Policy (Draft)
- ⇒ Integrated Climate, Weather and Market Advisory Services

Menu for CSA Technologies

Technologies	Productivity	Resilience	Mitigation
Improved and stress tolerant varieties			
High yielding varieties	X	X	X
Nutrient dense crops	X	X	X
Drought resistant varieties	X	X	X
Heat resistant	X	X	X
Pest and disease resistant varieties	X	X	X
Germplasm collection, characterization	X	X	

Technologies	Productivity	Resilience	Mitigation
Conservation Agriculture (CA) and Integrated Soil Fertility Management			
CA (basins, cover crops and minimum tillage)	X	X	X
Crop rotations	X	X	X
Mulching and green manure	X	X	X
Intercropping	X	X	X
Compost management	X		X
Contour ploughing	X	X	X
Soil testing and fertility management services	X	X	X
Soil testing based inorganic fertilizer application	X	X	X

Technologies	Productivity	Resilience	Mitigation
Irrigation			
Sprinkler Irrigation	X	X	
Drip Irrigation	X	X	X
Rehabilitation of small-scale irrigation schemes	X	X	
Application of good irrigation and drainage management practices	X	X	
Protection against stray animals	X	X	
Protection against water erosion and wind erosion	X	X	
Infiltration weirs to improve recharge while reducing erosion	X	X	
Implementation of protective ditches, irrigated sites and production against floods	X	X	

Technologies	Productivity	Resilience	Mitigation
Agroforestry			
Establishment of seed multiplication and tree nurseries	X	X	X
Promoting sustainable tree species	X	X	X
Fruit tree cultivation	X	X	X
Farmer managed natural regeneration (FMNR)	X	X	X
Tree nursery (village or individual	X	X	X
Windbreaks, hedgerows, enhanced clearing, live hedges	X	X	X