

3.6 Sustainable Agriculture

Sustainable agriculture is a widely recognized technology which enhances crop adaptation to climate variability and reduces GHG emissions. Sustainable agriculture has an advantage of increasing the yield without the use of fertilizer and a relatively lower cost. Sustainable agriculture involves a number of practices to include; (i) development of green manure and cover crops for soil improvements (ii) conservation tillage (iii) use of organic manure (iv) application of lime, (v) control of weed

One of the SNDP strategic objectives under agriculture is promotion of soil management for sustainable agriculture production through; (i) mainstreaming climate change adaptation and developing mitigation action plan and measures including variability assessment and risk management, (ii) promoting appropriate sustainable conservation measures, (iii) the target for diffusion of the technology is a 5 to 10 year plan aimed at involving small scale farmers switch to sustainable agriculture starting with 1000 hectares in the first year, 3000 hectares in the second year and stabilizing at 5000 hectares. Implementation of such an action will lead to sequestration and reduction of GHG emissions. Other benefits include less use of mineral fertilizers, less runoff, and sustainable use of land.

Strategic Objective	Development of sustainable agriculture				
Strategies	Output		Responsibility	Timeframe	Budget(Estimated Budget)
	Objective verifiable activity	Means of verification	Key actors		
Development resources	Provide development resources for enhanced integrated crop research and conservation technologies training and outreach programs, extension services and working capital for herbicides and insecticides	Resources provided and research results emerge to feed into sustainable agriculture dissemination	Ministry of Agriculture, ZARI, UNZA, ZNFU, GART, bilateral and multilateral institutions , financial institutions	36 months	1,000,000
Appropriate machinery	Provision of appropriate machinery to identified small scale farmers for ease of conservation agriculture application.	Innovative financing mechanism formulated and start supporting small scale farmers identified aimed at scaling up sustainable			

Awareness and information program.	Awareness and information program to highlight the benefits and technologies for sustainable agriculture to	Awareness program formulated and more small scale farmers participate in sustainable agriculture activities			
Projected developed as mitigation option	Develop project as a mitigation option to meet the criteria REDD+, NAMAs	Project developed to meet the criteria of REDD+ and NAMAs to enable small scale farmers under the program benefit from carbon financing			

Various actors will have different roles in relation to the strategic objectives and related activities requiring attention