## **ECOSYSTEM RESTORATION** | Mapping

## Intervention suitability map





## Strengthening Community Resilience in Somali Region, Ethiopia (SCRSE), a Protracted Crisis, Horn of Africa Program

Poster and map developed by Acacia Water. Significant contributions to the underlying assessment were made by the Wetlands International, the Ethiopian Red Cross Society, The Netherlands Red Cross, the women and men of Jijiga, Gursum and Tuliguled, and Taye Alemayehu.

## **Types of interventions**









The Netherlands Red Cross

Explanation and examples	Benefits		Contribution to SCRSE project goals		
	Direct to users	To ecosystem restoration	Water security	Food Security	DRR
a of riverbanks and flooding areas against overgrazing, ming, tree cutting and water erosion. In the case of aservoirs also protect the inflow area. In of an area against degrading activities, such as griculture and/or tree cutting. Often cut-and-carry and fruit harvesting are allowed. Sometimes closures is back-up grazing area for emergencies. The closure alized by fencing or by (community) agreements ints on sustainable use of forested areas, including harvesting of wood and other natural products. In the ecological and socio-economic value through tree wildlife management, control of invasive species, etc. Ints on grazing patterns, assignment of wet/dry season gency grazing areas, sustainable wood harvesting, anagement and safe disposal of waste(water)	Erosion control, increased production of forage and other natural products	Improved groundwater recharge, flow regulation, biodiversity, (micro)climate regulation	Indirect - strengthened water resources	Direct - Productivity of livestock more reliable. Increased availability of fruits, berries and other natural products in times of scarcity	Direct – More resilient rangelands and forests, reduced risk of droughts flooding and disease outbreaks
grass strips, soil bunds ting, tree strips (wind breaks), life fencing, agroforestry	Higher yields, more reliable yields. Possibility to produce crops with a higher market- value	Improved groundwater recharge, water flow regulation and soil formation. Increased biodiversity	Indirect – improved surface water availability to agriculture and groundwater resources for consumption	Direct – more crop diversity, higher yields and increased yield reliability	Direct – Reduced risk of drought, flooding and disease outbreaks. Improved preparedness
, contour bunds, contour ploughing, tied ridges, grass- ntour trenching					
uctures above ground such as stone bunds, trenches, rracing, check dams, tree strips					
ure management, mulching					
main CA principles are: minimal soil disturbance, t soil cover and crop rotations					
n of permanent crops such as fruit trees, tea, coffee,					
props outside the flooding period, or flood resistant ply flood control interventions, such as soil bunds and ditches. Apply spate irrigation or floodwater spreading					
tion, afforestation, reforestation and protection of trees. f species that promote soil stability. Controlled grazing					
l larger scale structures constructed with manual labour erosion, such as gabions					
n asvalley tanks. Larger excavations for water storage gently sloping lands	Improved water availability	Groundwater recharge, flow regulation	Direct - increased water availability	Direct – higher yields (irrigation) and productivity of livestock (watering)	Direct – More resilient water supply, less rair dependency for crop production reduced risk of flooding
ural depresssions in which runoff concentrates made s to prevent leaking					
side half-moon shaped embankments on medium- bes used to promote infiltration and store water er reservoirs build to trap water coming of bare rock					
nd cisterns dug out and lined to store water, keep it when covered) prevent evaporation					
of surface water into an aquifer via infiltration wells to ar and improve its quality					
table roof surface – tiles, metal sheets or plastics – to ainfall, and conduct it to a storage tank					
is accross a waterway that counteract erosion by low velocity	Improved water availability and water quality	Groundwater recharge, flow regulation	Direct - increased water availability and quality	Direct – higher yields (irrigation) and productivity of livestock (watering)	Direct – More resilient water supply, less rain dependency for crop production, reduced risk of flooding
l open water reservoirs consisting of a wall (earth or in a narrow valley aimed at storing water					
n water reservoirs consisting of an earthen or concrete concave location to store water					
d concrete walls across seasonal rivers capturing diments,thereby storing shallow groundwater					
concrete walls across seasonal rivers that store					



