The Carbon Benefits Project

Assisted natural regeneration

23 March 2023

SECTION 1: GENERAL INFORMATION ABOUT PROJECT

Project Name: Assisted natural regeneration

GEF co-financed project: YES / NO

Project ID: 29253

Funding Agency: N/A

Focal Area: N/A

Project Status: Proposal / Active / Completed

Project Start Date: 01/01/1992

Project Duration: 1 years

Project Countries: Niger

Project Region: Niger

Map 1. Project country: Niger

Map 2. Project Activity Area Locations

Period for this Report: 1992 - 2012

Project Area (ha): 500000

Area reported on: 500000 ha

Communities Involved: Regions of Tillabéri, Filingué, Ouallam, Téra and Tahuoa

Project Activities: Assisted natural regeneration

Brief summary of project goal/aim:

Assisted natural regeneration (ANR) is an agroforestry technique, which consists in protecting and preserving tree seedlings growing naturally on cropland or forest/rangeland.

Summary of any C benefit goals (optional):

SECTION 2: INFORMATION ABOUT THE REPORT

User Name of Reporter: Eleanor Milne

Component route chosen: A / B

Methodology used:

Description	IPCC Tier level	Route used
Carbon Benefits Project, IPCC Simple Assessment	Tier 1	
Carbon Benefits Project, IPCC Detailed Assesment	Tier 2	X
Carbon Benefits Project, Dynamic Modelling	Tier 3	
Carbon Benefits Project, Modelling and Measurement	Tier 3	

Report Period: 20 years (1992 - 2012)

SECTION 3: C BENEFITS REPORT

Total carbon and greenhouse gas balance for the Report Period

Total carbon and greenhouse gas balance for report period for baseline scenario (without the project): 0 t CO_2e over 20 years

Total carbon and greenhouse gas balance for report period for project scenario (with the project): -32543700 t CO_2e over 20 years

Total incremental difference[1] (Expected Carbon and Greenhouse Gas Benefit) for the report period: -32543700 t CO_2e over 20 years

Annual C change

Annual C change for the baseline scenario: 0 t CO_2e / year

Annual C change for the project scenario: -1627185 t CO_2e / year

Annual incremental difference: -1627185 t CO_2e / year

C benefits report Table and Figures

Table 3.1 Simple Summary Report following UNFCCC Common Reporting Guidelines.
Table 3.2 Expanded Report showing Carbon Emissions by IPCC AFOLU Source Categories.
Projected report period used in calculations is 20 years, from 1992 to 2012.

Table 3.1 Simple Summary Report following UNFCCC Common Reporting Guidelines.

Greenhouse Gas Source and Sink Categories	Baseline Scenario (1992 - 1993) Emissions and Removals				Project Scenario (1992 - 1993) Emissions and Removals				Carbon Benefits		
	CO_2	CH_4	N_2O	GHGs	CO_2	CH_4	N_2O	GHGs			
	tonnes CO_2equivalent				tonnes CO_2equivalent				Total tCO_2e	tCO_2e / ha	tCO_2e / ha / yr
Agriculture											
A. Enteric Methane		0				0			0	0	0
B. Manure Management		0	0			0	0		0	0	0
C. Rice Cultivation		0				0			0	0	0
D. Agricultural Soils	0	0	0		0	0	0		0	0	0
E. Prescribed Burning of Savannas		0	0	0		0	0	0	0	0	0
F. Field Burning of Agricultural Residues		0	0	0		0	0	0	0	0	0
G. Other	0	0	0	0	0	0	0	0	0	0	0
Land Use Change and Forestry											
A. Forest and other Woody Biomass	0				-32543600				-32543600	-65	-3.3
B. Forest and Grassland Conversion	0	0	0	0	0	0	0	0	0	0	0
C. Abandonment of Managed Lands	0				0				0	0	0
D. CO2 Emissions and Removals from Soil	0				-100				-100	0	0
E. Other	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	-32543700	0	0	0	-32543700	-65	-3.3

Notes:

GWP are 100-year time horizon based on estimates from the IPCC Second Assessment Report.

Signs for uptake are (-) and for emissions (+).

Other GHGs include NOx, CO, VOC, SO2.

Values not identified as 'stocks' are emissions.

A. Forest and other Woody Biomass includes biomass growth and losses from timber harvest and fuelwood gathering.

B. Forest and Grassland Conversion includes emissions from deforestation and shifting cultivation.

D. The change in mineral soil carbon is shown under the 'Project Emissions CO2' column as Baseline minus Project.

F. Other includes emissions from fire, wind, pest, and other natural disturbances.

Table 3.2 Expanded Report showing Carbon Emissions by IPCC AFOLU Source Categories. Projected report period used in calculations is 20 years, from 1992 to 2012.

		Without Project (Baseline scenario)			**With Project (Project scenario)**			**Incremental difference (Project scenario minus baseline scenario)**		
		tCO_2e	tCO_2e/yr		tCO_2e	tCO_2e/yr		tCO_2e	tCO_2e/yr	
Source category	Source sub-category	Total	Annual	Uncertainty (%)	Total	Annual	Uncertainty (%)	Total	Annual	Uncertainty (%)
Total Enteric Methane		0	0	0	0	0	0	0	0	0
Total Manure Methane		0	0	0	0	0	0	0	0	0
Total Manure Nitrous Oxide		0	0	0	0	0	0	0	0	0
Total Rice Methane		0	0	0	0	0	0	0	0	0
Soil Nitrous Oxide	Crop Residue N	0	0	0	0	0	0	0	0	0
	Manure N in Pasture/Range/Paddock	0	0	0	0	0	0	0	0	0
	Manure N Amendments	0	0	0	0	0	0	0	0	0
	Mineralization of Cultivated Organic Soils	0	0	0	0	0	0	0	0	0
	Synthetic N Fertilizer	0	0	0	0	0	0	0	0	0
Total Soil Nitrous Oxide		0	0	0	0	0	0	0	0	0

Table 3.2 Expanded Report showing Carbon Emissions by IPCC AFOLU Source Categories. Continued. Projected report period used in calculations is 20 years, from 1992 to 2012.

		Without Project (Baseline scenario)			**With Project (Project scenario)**			**Incremental difference (Project scenario minus baseline scenario)**		
		tCO_2e	tCO_2e/yr		tCO_2e	tCO_2e/yr		tCO_2e	tCO_2e/yr	
Source category	Source sub-category	Total	Annual	Uncertainty (%)	Total	Annual	Uncertainty (%)	Total	Annual	Uncertainty (%)
Biomass Carbon Stocks	Forest Land	0	0	0	0	0	0	0	0	0
	Grassland/Savanna	0	0	0	0	0	0	0	0	0
	Annual Cropland	0	0	0	0	0	0	0	0	0
	Perennial Cropland	0	0	0	0	0	0	0	0	0
	Agroforestry	0	0	0	-32543600	-1627180	35	-32543600	-1627180	35
	Settlements	0	0	0	0	0	0	0	0	0
	Deforestation	0	0	0	0	0	0	0	0	0
	Shifting Cultivation	0	0	0	0	0	0	0	0	0
Total Biomass Carbon Stocks		0	0	0	-32543600	-1627180	35	-32543600	-1627180	35
Biomass Burning non-CO2	Cropland Residue	0	0	0	0	0	0	0	0	0
	Forest Land	0	0	0	0	0	0	0	0	0
	Grassland/Savanna	0	0	0	0	0	0	0	0	0
	Perennial Crops	0	0	0	0	0	0	0	0	0
	Agroforestry	0	0	0	0	0	0	0	0	0
	Settlements	0	0	0	0	0	0	0	0	0
	Deforestation	0	0	0	0	0	0	0	0	0
	Shifting Cultivation	0	0	0	0	0	0	0	0	0
Total Biomass Burning non-CO2		0	0	0	0	0	0	0	0	0

Table 3.2 Expanded Report showing Carbon Emissions by IPCC AFOLU Source Categories. Continued. Projected report period used in calculations is 20 years, from 1992 to 2012.

		Without Project (Baseline scenario)			**With Project (Project scenario)**			**Incremental difference (Project scenario minus baseline scenario)**		
		tCO_2e	tCO_2e/yr		tCO_2e	tCO_2e/yr		tCO_2e	tCO_2e/yr	
Source category	Source sub-category	Total	Annual	Uncertainty (%)	Total	Annual	Uncertainty (%)	Total	Annual	Uncertainty (%)
Soil Carbon Stocks	Mineral Soils*	0	0	0	-100	-5	88	-100	-5	88
	Organic Soils	0	0	0	0	0	0	0	0	0
Total Soil Carbon Stocks		0	0	0	-100	-5	88	-100	-5	88
Total Greenhouse Gas Emissions		0	0	88	-32543700	-1627185	42	-32543700	-1627185	42

Notes:

GWP are 100-year time horizon based on estimates from the IPCC Second Assessment Report.

Signs for uptake are (-) and for emissions (+); for greenhouse gas flux, emissions reductions are (-) and emissions increases are (+)

*The change in mineral soil carbon is shown under the 'With Project' column as Baseline minus Project.

*Estimates for Mineral soil carbon stocks are not shown as this feature is still under development.

*Estimates for Perennial Crop woody biomass carbon stocks are not shown as this feature is still under development.

*Totals for each year are calculated as the annual value times the number of years in the report period.