Agriculture, Forestry and Other Land Use (AFOLU) Carbon Calculator - ACC

Carbon Reporting Initiative of USAID's Global Climate Change Program

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Ecosystem Services Unit

May 15, 2013

WINROCK INTERNATIONAL
Putting Ideas to Work

Scope and Context of the AFOLU C Calculator

- Simple, easy-to-use, web-based Carbon Calculator applicable to USAID's project portfolio
- Uses sound and transparent science
- Estimates the impacts of USAID's global land-based projects
  - t CO_2e on an annual basis
  - Does **NOT** generate estimates of marketable C offsets!

www.afolucarbon.org

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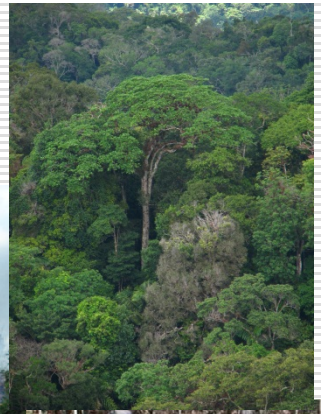
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Purpose of the AFOLU C Calculator

- Assist USAID's projects/missions estimate their quantitative indicator for climate change mitigation activities (t CO_2e)
- Provides estimation of C benefits using tiered approach:
  - Level A: default data and minimal inputs
  - Level B: override defaults with project specific data
- Encourages improved M&E systems for estimating project-specific carbon benefits

Activities Included/Tools

- Forest Protection
  - Deforestation
  - Illegal logging
  - Fire
- Forest Management
  - Reduced Impact Logging
  - Stop logging
- Afforestation / Reforestation
  - Native species
  - Plantations
- Agroforestry
- Agricultural Land Management
- Grazing Land Management










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Activity type Forest Protection



Required Level A

Name	Forest Protection demo
Area	10000.0 Ha
Effective Percent	50.0 % Guide
Protection Against	☐ Fire ☑ Deforestation ☐ Illegal logging

Advanced Level B

Community Area	0.0 ha
Deforestation Rate	1.0 %
Known Fire Incidence Rate	0.0 proportion yr-1
Illegal Logging Rate	0.0 %
Forest Growth	3.62 tC ha-1 yr-1
Forest Carbon Stock	164.96 tC ha-1

Average aboveground forest carbon stock in or around the project area. If default values are overridden with project specific data, these data should come from w from the default t C/ha, please change to correct units.

Soil Carbon	140.59 tC ha-1

Average soil carbon stock in the top 30 cm of soil. If default values are overridden with project specific data, these data should come from well distributed samples

Peat Swap Percentage	0.0 %

Percent of project area covered by tropical peat. This peat would have been drained and/or burned as part of a new land use if the project did not undertake forest value unchanged. Otherwise, enter a value between 0 and 100.

Average Depth Burned	0.34 m

Depth of peat that would have burned as a result of controlled or uncontrolled burning. Note the default unit of meters; change to centimeters if desired. If there is

Average Depth Drained	46.0 cm

Depth to which the water table would have been lowered in the project area as a result of peat drainage for a new land use. Note the default unit of centimeters; ch default value unchanged.

Peat Bulk Density	0.14 g cm-3

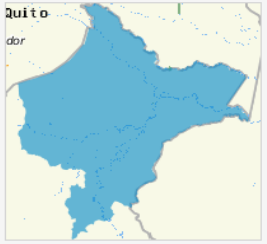
Bulk density of peat. If default values are overridden with project specific data, these data should come from well distributed samples collected within the project a are equivalent units. If there is no peat in your project area, leave the default value unchanged.

Offtake	0.0 m3 ha-1

Notes

Save Calculate

Name Forest Management demo
Activity Type Forest Management
Year 2013
Location Peru, Loreto



Activities

Name	Admin Unit
Forest Protection demo	Colombia, Caque
Agroforestry demo	Indonesia, Lampu
Cropland demo	Brazil, Bauru
A/R demo	Thailand, Nakhor
Grazingland demo	Angola, Bié
Forest Management demo	Peru, Loreto

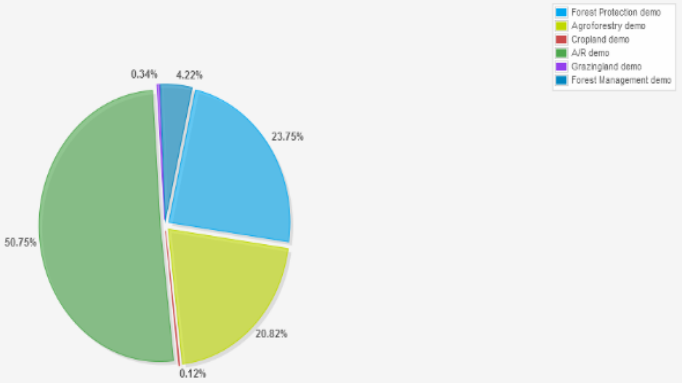
Total Benefit: 7797 t CO2

Years	Benefit (t CO2)
2013 - 2013	7,797
2014 - 2014	7,797
2014 - 2018	46,784
2014 - 2023	85,770
2014 - 2043	241,717

Benefit
,912 t CO2
,493 t CO2
226 t CO2
,811 t CO2
623 t CO2
,797 t CO2

Activities Pie Chart

Total Benefits | By Admin Unit | By Activity | By Activity (Total/Area)



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Thank you!

USAID AFOLU Carbon Calculator:

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For further questions contact:

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