



World Vision

Humbo and Soddo Community Reforestation Projects



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Food Security and Natural Resources WVA

Location of Projects

World Vision

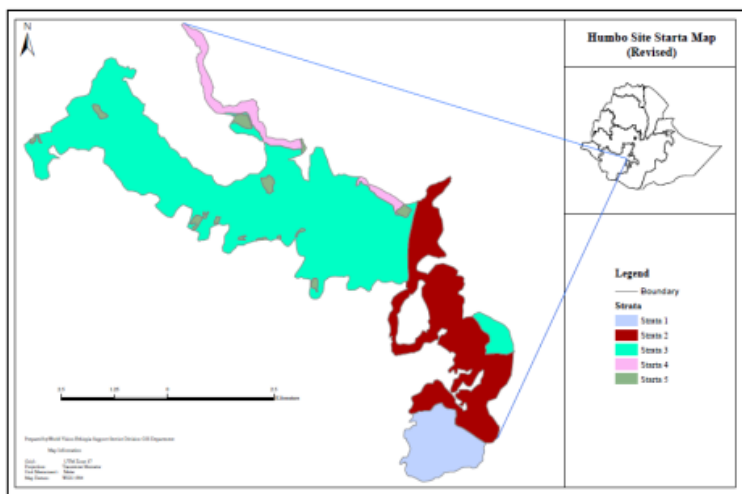


- Both projects began in 2006
- Farmer-Managed Natural Regeneration (FMNR) of native species and enrichment planting using high-valued timber species have been used as the reforestation methods
- Forests have multi-purpose uses including conservation of native species, improved habitat for local faunal species, selective harvesting of trees for fire wood and timber and production of non-timber forest products such as wild foods and medicines
- Forests are managed by community forestry cooperatives with ongoing extension services provided by WVE and local government
- Projects were initially funded by WVA but are now funded 100% through carbon revenue.

Key Project Information

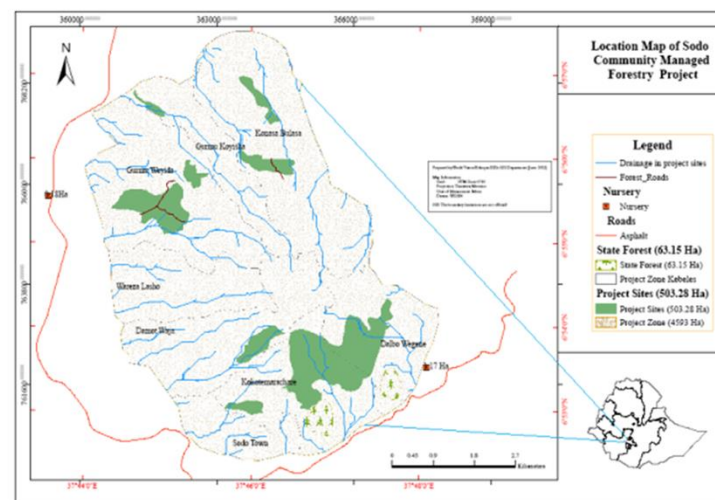
Humbo

- Project Area – 2728 hectares
- Montane tropical dry
- Elevation – 1400 – 2000m
- Average rainfall – 850mm
- Ave. Temp –
- Main tree species
 - *Syzygium guineense* (L.) Skeels
 - *Terminalia brownii* Fresen
 - *Combretum molle*.



Soddo

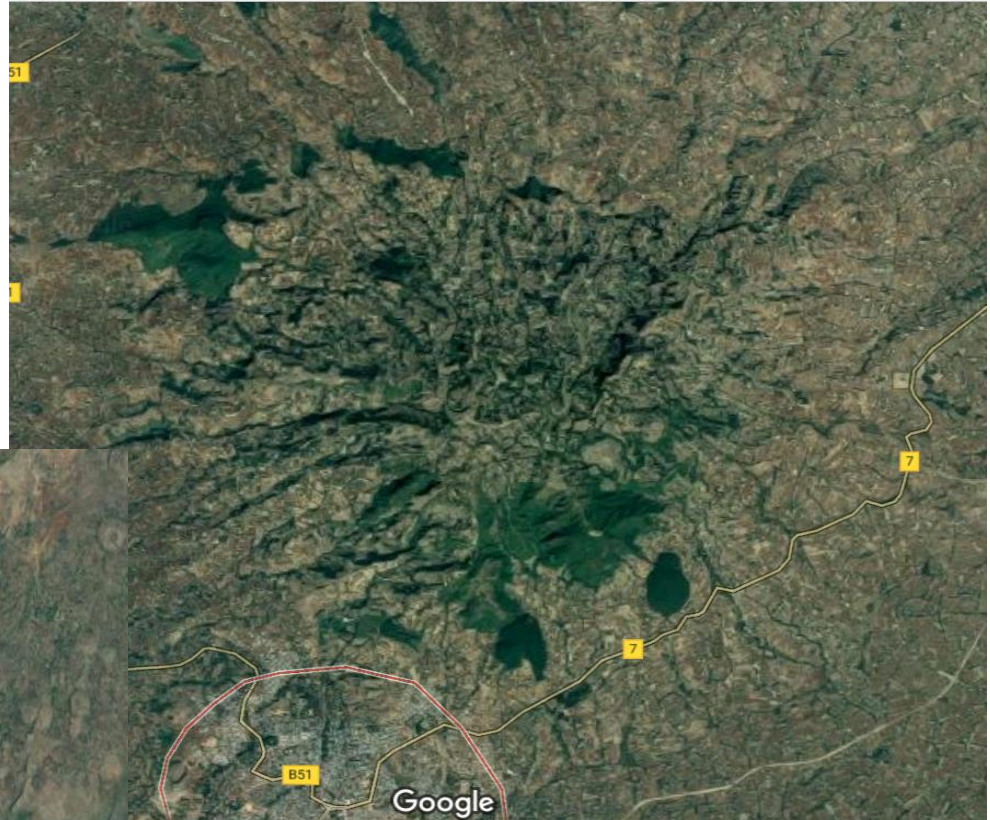
- Project Area – 503 hectares
- Montane tropical moist
- Elevation – 2100 – 2700m
- Average rainfall – 1484mm
- Ave. Temp – 19.3 °C
- Main tree species
 - *Syzygium guineense* (L) Skeels,
 - *Olea europea*
 - *Olinia rochetiana* A.Juss



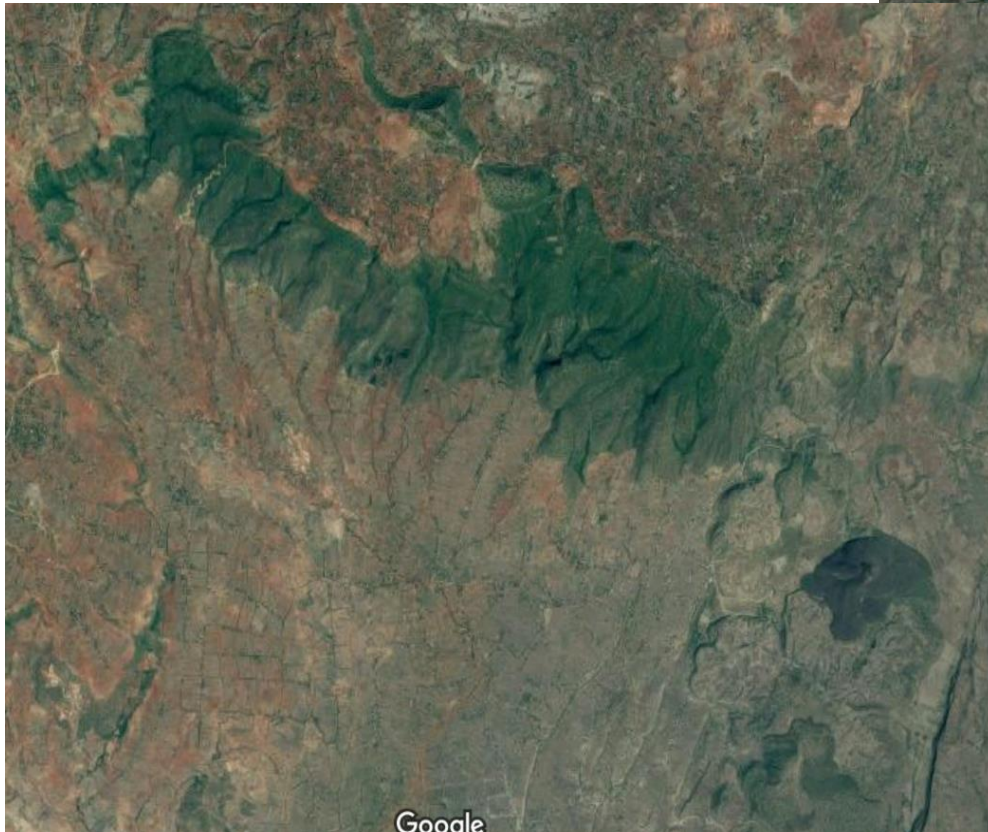
Project Areas from Google Earth

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Humbo



Soddo



Humbo

- Total CO₂ sequestration – 182,923 tCO₂
- tCO₂ per Ha – 67.3
- Carbon revenue - \$USD 555k
- Over 40 tree species regenerated
- Improved habitat to promote biodiversity. To illustrate this over 100 bird species have been identified living in the project area including the African Paradise Flycatcher, Speckled Mouse bird, African Grey Woodpecker, Ethiopian boubou and Red-billed Firefinch

Soddo

- Total CO₂ sequestration – 94,819 tCO₂
- tCO₂ per Ha – 188.5
- Carbon revenue - \$USD 520k
- 41 tree species recorded in project area
- 110 bird species recorded in project area. Notable species include the Abyssinian Longclaw and Bateluer which are listed as near-threatened. The African Paradise Flycatcher, Speckled Mouse bird and Rupells Robin Chat are commonly seen.

Humbo Mountain – February 2002



Humbo Mountain – March 2010



Soddo

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Economic Benefits by Numbers

Humbo

- Construction of 8 flour mills with average net income of 34,132 birr per a mill/year and 9 grain stores used to store grain during harvest, where currently 120 quintal of maize seed being stored
- 240 solar panel has been purchased with a total of 99,700 birr and distributed to members
- More than 1281 HHs have accessed credit service for investment on different businesses
- Increase in Livestock from 8,684 cow/ox/bulls and 2,288 goats at start and the current number of animals is 12,194 (cow/ox/bulls/heifer/donkey) and 3,837 goats and sheep

Soddo

- 441 HHs from the five cooperatives have accessed credit service from carbon revenue to invest on different businesses
- In 2017, 300,000.00 birr was earned from sale of bamboo, vetiver grass, apple and grafted mango seedlings.
- 314 solar panels have purchased and distributed to the members through use of microcredit
- 230 individuals from other areas have visited the site for learning and experience sharing

Harvested wood from Humbo 2008 - 2017

Year	Abella Longena (t/ha)	Bossa Wanche (t/ha)	Hibicha Bada (t/ha)	Hobicha Bongota (t/ha)	Total (t/ha)	Average (t/ha)
Monitoring Period 1						
2008	4.2	4.9	5.45	5.85	20.4	5.1
2009	4.37	4.97	5.94	5.99	21.27	5.3
2010	4.71	5.16	5.81	6.50	22.19	5.5
2011	4.97	5.48	6.97	7.07	24.50	6.1
Monitoring Period 2						
2012	5.11	5.78	7.02	7.5	25.41	6.4
2013	5.35	5.9	7.52	7.95	26.72	6.7
2014	5.71	6.04	8.11	8.01	27.87	7.0
2015	5.94	6.5	8.92	8.4	29.76	7.4
2016	6.32	6.78	9.12	8.72	30.94	7.7
2017	6.48	7.4	9.79	8.99	32.66	8.2

Economic Benefits

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Wild foods and medicines



Nursery products



Livestock fattening



Economic Benefits

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Ecotourism



Timber