



Training of Regional, Zonal Woreda and Kebele Experts on Forestry Techniques

*(Inventory, Mapping/Basic GIS Software Application, Forest
Management Planning, Nursery Management and Silviculture)*

Report

SNNPR REDD+ Coordination Unit
December, 2016
Hawassa

Introduction

The training took place in two rounds, the first round was from November 24-26, 2016; whereas the second round was from 30 November 30 - 02 December, 2016 at Halaba town with the overall objectives of creating awareness about the emerging non-conventional forest uses and the corresponding forestry techniques to use and sustainably manage forests.

One hundred eighty participants drawn from all Zones and Woredas including forest experts, work process owners and office heads were attended the training together with SNNP region Environment protection and Forest authority higher officials and experts. The complete list of registered participants is given in Annex II.

The program for the training is given in Annex II. Key topics/issues covered within three days of the program included the following:

- I. Emerging non-conventional forest uses and sustainable forest management
- II. Mapping/Basic GIS software application
- III. Forest Inventory
- IV. Forest Management planning
- V. Silviculture
- VI. Nursery Management

In addition to the presentation, the session was supported by related documentary videos.

Training opening:

The workshop was officially opened by Ato Mamo Godebo, SNNP regional state Environment Protection and Forest Authority Directorate Deputy Director. Ato Mamo noted that at present climate change caused by human being has become one of the global problem that has been seriously impacting and pushing the survival of human being under pressure. He mentioned that in order to resolve the problem currently Reducing Emission from Deforestation and Degradation (REDD+) is emerged as one of an acknowledged climate change mitigation tool globally.

He further noted that Ethiopia has become a country committed itself to implement REDD+ and executing the REDD+ readiness phase. To make this phase effective and contribute for the implementation of REDD+ across the nation, introducing REDD+ and its essence in general and notably regional REDD+ readiness and piloting activities at zonal level is crucial.

Finally, he announced that the three days' training is officially opened and invited all to participate actively.

Day I:

Emerging Non-Conventional Forest Uses and Sustainable Forest Management

The first presentation was given by Dr. Teshale W/Ammanuel, SNNP region REDD+ Coordination unit coordinator; on his presentation he pin pointed the role of forest for livelihoods and Macroeconomic development (GDP), progressive deforestation, strategies for reducing deforestation and degradation, forest use trends (Conventional Vs. non-conventional forest uses) and finally he has highlighted what should we do to develop and conserve our forests using different strategies.

Forest Inventory

The next topic was presented by Ato Zerihun Asrat, Hawassa University Wondo Genet College of Forestry and Natural Resource Forest inventory and Management lecturer, in his presentation after giving the definition of some common terminologies including trees, forests and forest inventories, he provided an overview on why forest inventory is important, the general principles and procedures of forest inventory planning and implementation, information expected from forest inventory in general and the sources of information.

He highlighted the main issues raised in tree measurements and forest assessments. In tree measurement he touched what a single tree variables, how to measure them and the steps and the equipment

used to measure them. He also described the basic sampling techniques and the different measurements in forest assessment.

Finally, he ended his presentation by showing the current National forest inventory methodology implemented by the ministry.

Discussion

The presentation was followed by questions and response session as indicated below.

- i. How can we sample bamboo forest?
- ii. It is known that different species have different density, and the participants wanted an explanation whether we have an equation for each species to calculate their biomass or not.
- iii. The participants underlined that unless the sessions is supported by detail practical activities it is difficult to cache up all the technical aspects of the training.
- iv. Some participant's raised that the issue of forest sampling and asked that what will happen if they took a sample plots purposively for example only from the valley bottom during forest assessment.
- v. Participants indicated that there is critical lack of data collection instruments at zonal and Woreda level and it will be good if all the equipment and instruments of data collection purchased and distributed to Zones and Woreda
- vi. Among the given sampling techniques which sampling method is better to assess forest area?

vii. The need to provide the training materials in hard copy as many people do not have access to computer. So it would have been more convenient if hardcopies of the presentation have been distributed.

viii. Is there any age limitation to measure a given trees?

Following the questions and comments clarification was given on the issues by the presenters.

i. Concerning bamboo we can select the sampling methods based on the condition of the population accordingly if the stocking is uniform we can use simple random sampling method where as if the population is non-uniform we can use stratified sampling method.

ii. For biomass calculation so far there are general kinds of equation adopted to accommodate different species but the point is to make correct selection by taking in to consideration the agro climatic condition, the diameter classes and other factors. In addition if we get species specific equation that will be better.

iii. Concerning the sampling methods there are statistical principles and procedure to take sample from a given forest so in order to get valid result we should follow these procedures, otherwise our results will not be vigor and scientifically accepted.

iv. The selection among different sampling techniques determined by the condition of natural population. For example if the population to be studied is uniform Simple random sampling is

preferable whereas non-uniform population stratified sampling is better and so on.

- v. Concerning the data collection equipment it is true so far we don't have equipment even we don't have forest inventory data at the region level, but at this time even the time by itself demanding us to have scientifically collected and analyzed data about the forest resource in turn our familiarity with all data collection equipment, the techniques and so on. Understanding the situation the region Environment Protection and Forest Authority is allocated budget in this fiscal year, finalized all the preparation activities and start trainees of trainer training in Wondo Genet College of Forestry and Natural Resource. In addition the authority is on bid process to purchase GPSs.
- vi. Integrating the training with practical session is undoubtedly basic, but the objective of the training, time constraint, the number of participants and the topic covered limit the session not to include detail practical activities. In other word if we want to provide intensive training we should have to reduce the number of participants (to 20-25) and also we have to reduce the topics (to only one), that will reduce the coverage of the awareness creation or the knowledge dissemination.
- vii. Concerning the height or age limit to measure the decision is depending on your purpose; in line with this even you can measure newly emerged seedlings in the nursery.

Day II:

Mapping/Basic GIS Software Application

Mapping/Basic GIS Software Application was presented by Ato Zemedu Mulushowa Hawassa University Wondo Genet College of Forestry and Natural Resource GIS lecturer, He focused his presentation on six important issues of GIS. Including the GIS concepts, the basic data, data capturing /entry/, coordinate systems, data analysis and presenting results.

In addition he explained the basic steps followed to use GPS and the main precautions should be considered when we use GPS in order to collect relatively accurate data.

Discussion

The presentation was followed by questions and response session as indicated below.

- i. The information that we get from Google earth is weather updated and the participants wants an explanation to know that and the accuracy of the Google earth images.
- ii. How can we select and cut only one area from the forest area like the gully or degrades part or other feature of the area?
- iii. Again during this session also the participants forwarded that the need to integrate wide and detail practical activities in the training as well as requested on the data collection equipment and software's

Following the questions and comments clarification was given on the issues by the presenters.

- i. Concerning the Google earth image the time is indicated on the image. For example you can get like Image @ 2016/Astrium. This showed us the time when the image was taken also hear Astrium is the name of the satellite and the accuracy of each satellite is already known so that at the same time you can get the accuracy.
- ii. By using GIS software and applying digitization techniques one can easily cut specific feature of the area easily.

Day III.

Forest Management Planning

Forest management planning was presented by Demess Lemma, SNNP region REDD+ coordination unit Forest officer, on his presentation he outlined the introductory points of Forest management, forest management planning and forest management plan. He also touched sustainability issues in forest management, goals and objectives of forest management and the key elements of forest management including land classification, growth and yield prediction and prescription development.

Finally, he highlighted on the main steps implemented in Humbo A/R CDM project when carbon stock is measured.

Silviculture

The next presentation was given by Ato Wassihun Regu, SNNP region REDD+ coordination unit Forest officer after giving the definitions of Silviculture he then listed the systematic approach or guidelines that Silviculture should follow. Ensuing he touched upon the objectives of Silvicultural practices, the different silvicultural Systems, regeneration techniques and finally stand establishment treatments.

Nursery Management

Ato Wassihun again presented the nursery management. After fully explained what does nursery and nursery management means, the presenter described the seed source and nursery management practices, establishment and management of a seedling nursery and production of vegetative planting materials. He further emphasized on how to make quality compost in the Nursery.

Discussion

The presentation was followed by questions and response session as indicated below.

- i. How much is the maximum carbon stock accumulated by a single tree species.

- ii. The participants raised that except above ground woody biomass other types of carbon pools is not included in Humbo project carbon stock calculation.
- iii. Some participants indicated that unforeseen conditions like periodical erratic rain fall may affected the growth of tress, their volume and biomass, so how can we predict and incorporate these issue in forest management plan.
- iv. Some participants forwarded that although bamboo has wide economic and environmental benefits but its potential is still untapped in the region especially in Sidama zone.
- v. Although we are still dependent on plantation forest which was planted during the previous regime but when you go to different parts of the region due to lack of management plan or execution it is observed that the market values of such plantations are getting declined.
- vi. The participants mentioned after the separation from Agriculture and Natural Resource bureau it is still unclear and ambiguous on how to use nursery sites between the two offices the Environment Protection and Forest authority and Agriculture and Natural Resource offices.
- vii. It is known that the permission and licensing forest products are mandated to the Industry bureau but this make challenging for Environment Protection and Forest Authority to control illegal transportation and marketing of products.
- viii. Participants raised that although there is an encouraging structure at Zone and Woreda in contrast at Kebele level the whole thing is different even there is no any structure for Environment Protection and forest office.

Following the questions and comments clarification was given on the issues by the presenters.

- i. Concerning the maximum amount of carbon a given tree stored, in general it is difficult to know however it is known that carbon stock accumulation in certain tree is directly proportional with growth to a certain maximum age and becomes normal.
- ii. It is true that in addition to the above ground there are also other pools, but in Humbo case the project considers only the above ground one, the reason is due to technical and financial limitation during the design period years ago.
- iii. Sure even some unforeseen conditions even may force us to the extent to modify or change our forest management plan, but the point is to reduce such kinds of risks the projections in the plan should be based on detail and accurate information.
- iv. Concerning bamboo the region Environment protection and Forest Authority is ready to take the initiation if official request is submitted by Zones.
- v. Concerning the nursery off course the decision is delay but the reason is due to unsettled government structure and then recent peace situation in some area of the region like Konso and Gedio plus related leadership reforms. However the decision is taken accordingly except Gedio and Sidama in the reset of Zones and especial Woredas the nursery is used 60% for tree seedling preparation and 40% for Agroforestry, where as in Gedio and Sidama 40% for tree and 60% for Agroforestry, and 50% for tree and 50% for Agroforestry respectively.

- vi. In relation to permission and licensing of forest products the Environment protection and Forest Authority has officially submitted request for correction to region Justice Bureau hope it will be corrected soon.
- vii. Concerning the Kebele level structure it is on process to assign DA's of Agriculture and Natural Resource offices to work for Environment protection and forest authority as well, in addition there are sufficient structure and staffs at Woreda level so that these staff also enough to handle/or fill the gap at KA level (by allocating KAs to each Woreda experts).
- viii. Around one million birr is allocated and GPS purchase is on process, in addition the authority is planned to train at least 60 individuals in WGCF and NR for about one month and budgeted nearly 1 million birr.
- ix. Concerning old plantations so far due to fear of corruption and other factors our intention was only to keep the plantations as it is, however currently the region is on the way to establish forest enterprise like in Oromia and the enterprise will take all the responsibilities of managing and utilizing these plantations.
- x. For this year seedling production poly bag and seed is already distributed to some parts especially to central zones like Sidama, Gedeo and Halaba; and the rest will distribute soon.

Annex I Program Schedule

Training Schedule:

1st round: November 2016

2nd round: 30 November – 02 December 2016

Date	Time	Activity Description	Presenter	Chairman
Day 1	8:30-9:00	Registration	Organizers	
	9:00-9:10	Opening Speech	EPFA	
	9:10-9:20	Training Objectives	RCU	
	9:20-10:30	Emerging non-conventional forest uses & Sustainable Forest Management	RCU	
	10:30-11:00	Coffee Break	Organizers	
	11:00-12:30	Mapping/Basic GIS software Application	WGCF&NR	
	12:30-02:00	Lunch Break		
	02:00-09:30	Mapping/Basic GIS software Application	WGCF&NR	
	09:30-04:00	Coffee Break	Organizers	
	04:00-05:30	Mapping/Basic GIS software Application	WGCF&NR	
Day 2	8:30-10:30	Forest Inventory	WGCF&NR	
	10:30-11:00	Coffee Break	Organizers	
	11:00-12:30	Forest Inventory	WGCF&NR	
	12:30-02:00	Lunch Break		
	02:00-09:30	Forest Inventory	RCU	
	09:30-04:00	Coffee Break	Organizers	
	04:00-05:30	Forest Inventory	RCU	
Day 3	8:30-10:30	Forest Management Planning	RCU	
	10:30-11:00	Coffee Break	Organizers	
	11:00-12:30	Silviculture	RCU	
	12:30-02:00	Lunch Break		
	02:00-04:00	Nursery	RCU	
	04:00-04:30	Coffee break	Organizers	
	04:30-11:00	General Discussion	EPFA&RCU	

Annex II List of Participants

Haduya Z.

15/3/09
of Haduya

Ministry of Environment, Forest and Climate Change
National REDD+ Secretariat
SNNPRS REDD+ Coordination Unit
Zonal and Woreda Level Training on Forestry Techniques

SNNPR, Halaba (24-26 November 2016)

Participants Attendance Sheet

No	Participant's Name	Organization	Phone No	e-mail address	Signature
1	Timote Alwaredo	SOFO	0916881965	-	
2	Desalegn Frano	Gembara	0910195671	-	
3	Dinkinesh Amosuel	Mis Bondonwelo	0924839986	-	
4	Kedir Abljo	SHASHO GO	0917187694	-	
5	Teimespan Fikre	Ge'ibe	0912333002	-	
6	Demeke Gebrele	Dund	0913832229	-	
7	Muyadin Hassen	Ani Lemto	0913335091	-	
8	Assefa-Bachane	Limo	0910460002	-	
9	Elisa Asefa	Haduya zone	0911543334	-	
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Zonal and Woreda Level Training on Forestry Techniques

SNNPR, Hallaba (24-26 November 2016)

Participants Attendance Sheet

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Zonal and Woreda Level Training on Forestry Techniques

SNNPR, Hallaha (24-26 November 2016)

Participants Attendance Sheet

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 Zonal and Woreda Level Training on Forestry Techniques

SNNPR, Hallaba (24-26 November 2016)

Participants Attendance Sheet

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1	Teshome Duka Wedo	Gedeo zone	0945893262		
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4	Belaehelw. Temode	Kochachone	0916472224		
5	Seid Ahmed	Blue woreda	0913860103		
6	Yeshuwork Tihawo	Gedeo zone	09467218386		
7	Zerchun Ayek	Gedeo zone	0925709125		
8	Yibetol Alamein	" "	0913279165		
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SNNPRS REDD+ Coordination Unit
Zonal and Woreda Level Training on Forestry Techniques

SNNPR, Hallaba (24-26 November 2016)

Participants Attendance Sheet

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Sidama Zone

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National REDD+ Secretariat
SNNPRS REDD+ Coordination Unit
Zonal and Woreda Level Training on Forestry Techniques

SNNPR, Hallaba (24-26 November 2016)

Participants Attendance Sheet

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11	Mekeke Tunisa	Hawasa Jeksa	0932107488	-	[Signature]
12	Desene Dumara	Wonscho	0926987932	-	[Signature]
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Kombata 7

15/12/09
afternoon

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SNNPR, Hallaba (24-26 November 2016)

Participants Attendance Sheet

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Dawro Z

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afternoon

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Zonal and Woreda Level Training on Forestry Techniques

SNNPR, Hallaba (24-26 November 2016)

Participants Attendance Sheet

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Kafa zone

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SNNPRS, Halaba (30 November - 02 December 2016)

Participants Attendance Sheet

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10	Munimic W/antebet	Cherna	0912806194		
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Bench Maji Zone

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SNNPRS, Halaba (30 November - 02 December 2016)

12

Participants Attendance Sheet

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5	SINTAYEHU ABATE	BIM/2-shetbonch	0917389202		[Signature]
6	KASSA SHAMIRO	BIM/2/LOIT M/GOLDIA	0926199206		[Signature]
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Garage Zone

23/3/09

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SNNPRS, Halaba (30 November - 02 December 2016)

Participants Attendance Sheet

No	Participant's Name	Organization	Phone No	e-mail address	Signature
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4	Kebede Minuta Yikar	Edja	0912240385		
5	Ganbano Alemu	Emeror	0910248057		
6	Maddole Bejele	Garage Zone			
7	Shemsu Muredin	Garage Zone	0911738883		
8	Kebele Zerqa	Murix Akil Wolde	0911951133		
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10	Zennun Lemma	Meskan Wanda	0911834824	Zennun Lemma O.9@gmail.com	
11	Abeka Tendi	Cheha	0936985781		
12	Melise Kedir	Kabana	0922447291		
13	Abera Beante	Geta	0912902674		
14	Fassahun Gashu	Gumer	0932244754		
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23/3/09

Shekayom

Ministry of Environment, Forest and Climate Change
 National REDD+ Secretariat
 SNNPRS REDD+ Coordination Unit
 Zonal and Woreda Level Training on Forestry Techniques

SNNPRS, Halaba (30 November - 02 December 2016)

Participants Attendance Sheet

No	Participant's Name	Organization	Phone No	e-mail address	Signature
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4	Abete Atto	Environmental protection	0910192814		
5	Sevanwit kachits	??	0917200015		
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Hababa S.V

23/13/09

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6

SNNPR, Hallaba (24-26 November 2016)

Participants Attendance Sheet

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3	Kedir Tumebo		0913076316		[Signature]
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6	ZEWUDU ENDRI S		0911064428		[Signature]
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SNNPRS, Halaba (30 November - 02 December 2016)

Participants Attendance Sheet

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Debab Oms Zone

23/12/09

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SNNPRS, Halaba (30 November - 02 December 2016)

Participants Attendance Sheet

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6	Fona Gantimo	EFPIFD HPad	0928772483		
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9	Semayat Dana	EFPIFD of TC			
10	Yacob Janku	EFPIFD of TC			
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Basketo SW 23/3/09

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 SNNPRS, Halaba (30 November - 02 December 2016)

Participants Attendance Sheet

No	Participant's Name	Organization	Phone No	e-mail address	Signature
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SW

Kanta

3

SNNPR, Hallaba (24-26 November 2016)

Participants Attendance Sheet

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3	Grenet Abarek	"	0913151556		
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Partial View of the Workshop





