

Annex 11: Additional information regarding leakage

Appendix 1: Evaluation of the impact of the project on fuel wood availability

### **Humbo Assisted Natural Regeneration Post Project Fuel Wood**

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**August, 2008**

#### **Introduction**

Fuel wood problem is one of the expected circumstances to happen in the project area as a result of the inception of the project (closing the area). The project put some of the alternative strategies during pre-feasibility assessment to solve the problem. One of the anticipated strategies was to collect fire wood from the project areas from removed branches and twigs as result of the silvicultural practices (pruning, thinning and coppice reduction). During this reporting time, forest management practices have been fully started in all cooperatives forest land. Some of the community members especially women and children are able to collect fire wood from silvicultural practices. To estimate the amount of fuel wood that has been collected per hectare, sample data have been taken randomly from the project area.

What we did was that we collected fire wood removed as a result of pruning from four sampled areas having an area of  $100\text{m}^2$  each cooperatives/strata randomly and then weighted separately. Strata 1 was represented by 3. Finally, the average is computed and the result is converted to hectare. Based on sampling the result, confirmed that 5.13 tone of fire wood is being collected by the community from a hectare of closed forest area. Further more, through interviewing community members, we understood that they are collecting huge amount of these pruned branches. This reveals that pre-project firewood estimate was 4.3t/ha is much lower than after closed silvicultural practices product. This in turn indicates that even positive at this early stage which hinting more and more during the next subsequent silvicultural management as per FMNR techniques.

Annex 13- Table1. Dried fuel wood (kg) data collected from four cooperatives areas

Cooperatives	Longena (strata-2)	Bossa (strata -3)	Bada (strata – 4)	Bongota (2)
Plot 1	43	51.7	56	56.8
Plot 2	44	48.5	55	59
Plot 3	41.5	49	52.7	61
Plot 4	39.5	52	54.3	57.2
<b>Average</b>	<b>42</b>	<b>50.3</b>	<b>54.5</b>	<b>58.5</b>

The average is computed as follows:

$$A_v = 42+50.3+54.5+58.5/4 = 51.33 \text{ kg/10} = \mathbf{5.13 \text{ ton.}}$$

## Appendix 2: Grazing pressure in project site

**May 2007**

### **Livestock population at Humbo Assisted Natural Regeneration project site**

**Table 1: Number of livestock that has been available in KA and out of total livestock grazing in the project area per strata**

No	Name of Kebeles	Type of livestock				total # per KA	# in the forest	# per Strata			
		Ox	Cow	Bull	Goat			1	2	3	4
1	Abela Gefeta	227	408	149	270	1054	264	264			
2	Abela Longena	850	654	514	450	2468	1234		926	308	
3	Abela Shoya	400	490	230	750	1870	468			468	
4	Bola Wanche	185	203	120	165	673	337			337	
5	Bosa Wanche	418	395	270	250	1333	333		333		
6	Hobicha Beda	670	717	343	150	1880	940				940
7	Hobich Bongota	843	500	98	253	1694	424		318	106	
	<b>Total</b>	<b>3593</b>	<b>3367</b>	<b>1724</b>	<b>2288</b>	<b>10972</b>	<b>3998</b>	<b>264</b>	<b>1577</b>	<b>1219</b>	<b>940</b>

**NB:** KA = Kebele/village level Association.

From the above data the number of livestock grazing on project site was very insignificant and community areas now getting more grass that ever through cut & carry system.

Appendix 3: Clarification of land area available for cropping, grazing, fodder production and other purposes outside the project area in the 7 project kebele.

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No. 00006 / 5098 / 2007  
Date 15 / 10 / 2007

To: World Vision Ethiopia  
Addis Ababa

Subject: Clarification and update of land use data of Humbo Assisted natural Regeneration Project area Kebele / Forest development cooperatives

In response of your request to clarify the indicated detail is as follow:

S/No	Name of Kebele	Uni Ha	Total Kebele size( Land nolding)	Assisted Natural regeneration project	Land outside the project area	Remark
1	Hobicha Bada	Ha	2175	372.77	1802.23	
2	Hobicha Bongota	Ha	2175	340.04	1834.96	
3	Abela Longena	Ha	2735	1043.45	1691.55	
4	Abela Shoya	Ha	801	109.73	691.27	
5	Abela Gefeta	Ha	2425	176.42	2248.58	
6	Bossa Wanchie	Ha	1700	341.96	1358.04	
7	Bolla Wanchie	Ha	2100	343.60	1756.40	
	Total	Ha	14111	2727.97	11383.03	

The land out side the project area includes; land use for cropping, grazing, fodder development and other purposes. It is not possible to explicitly separate areas of each for these purposes as areas have multipurpose or seasonal uses grasses, weeds as well as crop residues from these areas being used as animal feed/grazing.

With best regards!



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- CC
- WVE Abela Faracho
- BOARD
- NR Work process
- Humbo Tebela