



Over View of Socio Economic Data on Eastern Ethiopia Region (Harar Biodiversity Center Working Zone)

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Abstract

Eastern part of Ethiopia has diversified socio-economic structure and the Harar Biodiversity center is assigned to do on the issue of biodiversity resource conservation, sustainable utilization and fair and equitable benefit sharing in the eastern part of the country. And as result the center need to assess the general socioeconomic data of the region and classified accordingly in order to identify the region biological resource and focus on the spices that needs to give priority for conservation and to generate the general data how it becomes from time to time. Based on the above objective the socio economic data of each region of eastern part of Ethiopia are presented below.

Keywords: Socio-Economic; Eastern Ethiopia; Region

Introduction

Ethiopia has Avery hug biodiversity resource and this biological resource is found distributed throughout the four direction of the country. And Ethiopian Biodiversity Institute is the main responsible institute focus on conservation, sustainable utilization as well as fair and equitable benefit sharing from that biological resource. And harar Biodiversity center was established in 2015 to manage and conserve the eastern part of the country biological resource and there are Five (5) basic regions in the eastern part of Ethiopia found in the working area of Harar biodiversity Center. These are Eastern hararghe, Wastern Hararghe, Dire Dawa City administration Harari region and Ethiopian Somli region. To conduct the appropriate conservation method in each region knowing the socio economic data of each region is the basic and the first issue and based on this the general basic socio economic data of each region was summarized in the form of table below.

Socio-Economic data of each region

Western hararghe region

General information:

- o Name of Organization: W/hararghe Agricultural office
- o Address: Chiro
- o Yourname: Ato Wasie Bekele
- o Position: Crop and Horticulture Directorate
- o Telephone number: 0912437145

Socio-Economic Data

Traditional Agro Ecological Zones Climate Condition.

No.	Condition	Size (%) from total area of the region
1	Dega	10%
2	Weyna Dega	38%
3	Kola	52%
4	Desert	-
5	other	-

Table 1

Sources of income for the population in the region.

No.	Main sources of income	% from the total population	Rank	Remark
1.	Agriculture	> 70%	1	
2.	Merchant	> 20%	2	
3.	Livestock production	< 5%	4	
4.	Forest production		-	
5.	Agrosilve pastoralist	> 5%	3	

Table 2

Climate Condition

Amount of Annual Rain Fall

Max. average/year	Min. average/year
2000 mm	650 mm

Table 3

Amount of Annual Temperature

Max. average/year	Min. average/year
24°C	20,5°C

Table 4

Altitude

Highest	Lowest
3,600 masl	1,200 masl

Table 5

Demographic Data

Total Population of the Region

Male	Female	Total
1,051,123	1,000,398	2,051,521

Table 6

Household

Male	Female	Total
299,906	68,310	368,216

Table 7

Summary

Total number of protected areas your region	Ownership of Protected Area			Composition	Size in ha.	Remark
	Community	Government	Private			
552	All for the Community	-	-	Local and other foreign forest	10,294	We plan to conserve more

Table 10

Based on the above table the purpose of the protected area should be the following basic targets

- o Conservation = it is the first and basic target.
- o For income generation
- o For research purpose
- o For recreational value.

Total Number of Woreda and Kebele in the Region

No. of Zone/ Clustre	No. of Woreda	City. adim. zone	Total no. of kebele
4	15	2	449

Table 8

Land use

Total land area and Land Utilization of the region

Total land area of the region in hectare/sq.: 1,723,000.

Land Utilization

No.	Land use Type	Size in Hectares	Remark
1	Agricultural Land/crop	375,615	
2	Grazing Land	414,217	
3	Forest Area	132,615	
4	Wetland	3,362	
5	Shrubs	64,665	
6	Settlement	65,700	
7	Protected area	108,592	
8	Affected area	366,981	

Table 9

Protected Area

Is there any protected area in the region? Yes

If yes:

The main purpose/target of conservation is that the following:

- o Ingenious spices
- o Wild life conservation
- o Endangered spices
- o Endemic spices.

Agricultural biodiversity in the region/zone

Crop Diversity in the Region

No	Crop type	Area (ha)/year	Source of planting materials/seeds		
			Improved (GMO)/ha	Farmers variety /ha	Others
1	Oil crops (selet, go menzer, nug, suf, ocholine)	10,551.5	-	all	
2	Yeteraire eheloch (bakela, ater,meser, gaya, shenebera, mahesho)	31,906	<i>mahesho</i>	The rest all	
3	Yageda ehloch (bekolo, mashela,)	225,311	both		
4	Teff, gebes, dagusha	60,645.5	-	all	
	Total	> 343,455			

Table 11

Livestock Diversity in the Region

No.	List of Livestock	Quantity (No)	Breed			Remark
			Local Breed	Improved (GMO)	Others	
1	Cattle	1,255,753	1,255,591	162		It is always updated
2	Goat	999,177	999,177	-		
3	Sheep	248,248	248,248	-		
4	Hours	1900	1900	-		
5	Mules	22,940	22,940	-		
6	Donkey	184,831	184,831	-		
7	Camel	56,537	56,537	-		
8	Hen	1,141,181	1,129,197	11,984		

Table 12

Harari Region

General information

- Name of Organization: Harari Environmental protection Authority
- Address: Harar

Socio-Economic Data

Traditional Agro Ecological Zones Climate Condition

No.	Condition	Size (%) from total area of the region
1	Dega	-
2	Weyna Dega	90%
3	Kola	10%
4	Desert	-
5	other	-

Table 13

Sources of income for the population in the region

No.	Main sources of income	% from the total population	rank	Remark
1.	Agriculture	10%	2	
2.	Merchant	> 70%	1	
3.	Livestock production	< 5%	4	
4.	Forest production		-	
5.	Agrosilve pastoralist	> 5%	3	

Table 14

Climate Condition

Amount of Annual Rain Fall

Max. average/year	Min. average/year
917.5 mm	636.7 mm

Table 15

Amount of Annual Temperature

Max. average/year	Min. average/year
25 ^o c	13 ^o c

Table 16

Altitude

Highest	Lowest
1,900 masl	1,600 masl

Table 17

Latitude and Longitude

Latitude	Longitude
42.03-42.16N	9.11 ^o -9,24 ^o E

Table 18

Demographic Data

Total Population of the Region

Male	Female	Total
120,000	118,000	238,000

Table 19

Summary

Total number of protected area your region	Ownership of Protected Area			Composition	Size in ha.	Remark
	Community	Government	Private			
552	All for the Community	-	-	Local and other foreign forest	10,294	We plan to conserve more

Table 22

Based on the above table the purpose of the protected area should be the following basic targets

- Conservation = it is the first and basic target.
- For income generation
- For research purpose
- For recreational value

The main purpose/target of conservation is that the following

- Ingenious spices
- Wild life conservation
- Endangered spices
- Endemic spices

Agricultural biodiversity in the region/zone

Crop Diversity in the Region

No	Crop type	Area (ha)/year	Source of planting materials/seeds		
			Improved (GMO)/h	Farmers variety /ha	other
1	Sorghum	6,500	1250	5250	
2	Maize	2000	2000	--	
3	Wheat	500	500	--	
4	Ground nut	2,800	2,800	--	
5	Hearicoten bean	35	35	--	
6	Sweet potato	350	175	157	
	Total	12,185	6,760	5,425	

Table 23

Total Number of Woreda and Kebele in the Region

No. of Zone/ Clustre	No. of Woreda	City. adim. zone	Total no. of kebele
--	9	---	17

Table 20

Land use

Total land area and Land Utilization of the region

Total land area of the region in hectare/sq.: 34,326ha

Land utilization

No.	Land use Type	Size In Hectares	Remark
1	Agricultural Land/crop	16,355(47.6%)	
2	Grazing Land	8,238 (24%)	
3	Forest Area, Shrbs, Bush	9,155 (26.7%)	
4	Wetland	-	
6	Settlement	-	
7	Protected area	-	
8	Affected area	274.6 (0.8%)	

Table 21

Protected area

- Is there any protected area in the region? Yes
- If yes:

Livestock Diversity in the Region

No.	List of Livestock	Quantity (No)	Breed			Remark
			Local Breed	Improved (GMO)	Others	
1	Cattle	1,101,266	1,250,489	148	1,255,753	It is always updated
2	Goat	757,231	999,441	-	921,100	
3	Sheep	241,248	128,789	-	209,252	
4	Hours	1900	1700	-	1900	
5	Mules	22,940	22,940	-	22,940	
6	Donkey	184,831	184,831	-	184,831	
7	Camel	56,537	56,537	-	56,537	
8	Hen	1,141,181	1,129,197	11,984	1,141,181	

Table 24

Eastern Hararghe Region

General information

- Name of Organization: Eastern Haraghe Agricultural office
- Address: Harar

Socio-Economic Data

Traditional Agro Ecological Zones Climate Condition

No.	Condition	Size (%) from total area of the region
1	Dega	7.67%
2	Weyna Dega	24.57%
3	Kola	67.7%
4	Desert	-
5	other	-

Table 25

Sources of income for the population in the region

No.	Main sources of income	% from the total population	rank	Remark
1.	Agriculture	40%	2	
2.	Merchant	>20%	1	
3.	Livestock production	<15%	4	
4.	Forest production		-	
5.	Agrosilve pastoralist	>25%	3	

Table 26

Climate Condition

Amount of Annual Rain Fall

Max. average/year	Min. average/year
1,200mm	400mm

Table 27

Amount of Annual Temperature

Max. average/year	Min. average/year
28 ^o c	13 ^o c

Table 28

Altitude

Highest	Lowest
3,405 masl	500masl

Table 29

Demographic Data

Total Population of the Region

Male	Female	Total
1,692,915	1,640,844	3,333,759

Table 30

Total Number of Woreda and Kebele in the Region

No. of Zone/ Clustre	No. of Woreda	City. adim. zone	Total no. of kebele
4	20	--	541

Table 31

Land use

Total land area and Land Utilization of the region

Total land area of the region in hectare/sq.: 2,262,266 ha

Land Utilization

No.	Land use Type	Size in Hectares	Remark
1	Agricultural Land/crop	488,070(21.5%)	
2	Grazing Land	91,651 (4.1%)	
3	Forest Area,Shrbs,Bush	48,713 (2.1%)	
4	Shrubs	438,431 (19.4%)	
6	Communal	139,847 (6.2%)	
7	Protected area	100,046.394	
8	Affected area	1,055,572(46.7%)	

Table 32

Protected area

- Is there any protected area in the region? Yes
- If yes

Summary

Total number of protected area your region	Ownership Of Protected Area			Composition	Size in ha.	Remark
	Community	Government	Private			
26	All for the Community	-	-	Local and other foreign forest	100,046.394	We plan to conserve more

Table 33

Based on the above table the purpose of the protected area should be the following basic targets

- Conservation = it is the first and basic target.
- For income generation
- For research purpose
- For recreational value

The main purpose/target of conservation is that the following:-

- Ingenious spices
- Wild life conservation
- Endangered spices

Agricultural biodiversity in the region/zone

Crop Diversity in the Region

No	Crop type	Area (ha)/ year	Source of planting materials/ seeds		
			Improved (GMO)/h	Farmers variety /ha	other
1	Sorghum	151,169	7,961	143,208	
2	Maize	122,718	37,375	85,343	
3	Wheat	38,283	17,870	20,413	
4	Barley	12,763	333	12,430	
5	Teff	3,483	1,264	2,219	
6.	Bean	3,909	83	3,826	
7	pea	2,319	--	2,319	
8	Miser	1,073	--	1,073	
9	Shmbera	817	5	812	
10	Ground nut	28,932	--	28,932	
11	Hearicoten bean	2,019	33	1,986	
12	Seliti	727	--	727	
13	Teleba	379	--	379	
14	Other	478			
	Total	369,069	64,924	304,145	

Table 34

Livestock Diversity in the Region

No.	List Of Livestock	Quantity (No)	Breed			Remark
			Local Breed	Improved (GMO)	Others	
1	Cattle	1,585,119	1,562,683	22,436		It is always updated
2	Goat	1,594,321	1,594,321	--		
3	Sheep	548,773	548,773	--		
4	Hours	4,029	4,029	--		
5	Donkey	249,060	249,060	--		
6	Camel	43,273	43,273	--		
7	Poultry	2,554,144	2,492,121	62,023		

Table 35

Ethiopian-Somail Region

General information

- Name of Organization: Ethiopian Somail Agricultural office
- Address: Ethiopian Somail

Socio-Economic Data

Traditional Agro Ecological Zones Climate Condition

No.	Condition	Size(%) from total area of the region
1	Dega	-
2	Weyna Dega	~24%
3	Kola	~76%
4	Desert	-
5	other	-

Table 36

Sources of income for the population in the region

No.	Main sources of income	% from the total population	rank	Remark
1.	Agriculture	≥14%	3	
2.	Merchant	≥8%	4	
3.	Livestock production	≥55%	1	
4.	Forest production	-	-	
5.	Agrosilve pastoralist	≥23%	2	

Table 37

Climate Condition

Amount of Annual Rain Fall

Max. average/year	Min. average/year
660mm	150mm

Table 38

Amount of Annual Temperature

Max.average/year	Min.average/year
45°c	20°c

Table 39

Demographic Data

Total Population of the Region

Male	Female	Total
3,024,000 (56%)	2,576,000 (44%)	5,748,462

Table 40

Urban Population

No.	Female	Male	Total	Remark
1	374,000	439,000	814,000 (14%) of the total	it is always updated

Table 41

Rural Population

No.	Female	Male	Total	Remark
1	2,201,000	2,584,000	4,785,000 86% of the total	It is always updated

Table 42

Household

Male	Female	Total
--	---	---

Table 43

Total Number of Woreda and Kebele in the Region

No. of Zone/ Clustre	No. of Woreda	City. adim. zone	Total no. of kebele
11	93	6	2,224

Table 44

Land Utilization

No.	Land use Type	Size In Hectares	Remark
1	Agricultural Land/crop	801,481	
2	Grazing Land	Not known	
3	Forest Area, Shrbs, Bush	>>	
4	Shrubs	>>	
6	Communal	>>	
7	Protected area	>>	
8	Affected area	>>	

Table 45

Land use

Total land area and Land Utilization of the region

Total land area of the region in hectare/sq.: 3,500,000ha (350,000km²)

Protected area

- Is there any protected area in the region? Yes
- If yes

Summary

Total number of protected area your region	Ownership of Protected Area			Composition	Size in ha.	Remark
	Community	Government	Private			
4	All for the Community	-	-	Local and other foreign forest	100	We plan to conserve more

Table 46

Based on the above table the purpose of the protected area should be the following basic targets

- Conservation = it is the first and basic target.
- For research purpose

The main purpose/target of conservation is that the following:

- Ingenious spices

Agricultural biodiversity in the region/zone

Crop Diversity in the Region

No	Crop type	Area (ha)/year	Source of planting materials/seeds		
			Improved (GMO)/h	Farmers variety /ha	other
1	Sorghum	93,594			
2	Maize	116,862			
3	Wheat	31,245			
4	Onion	46,850			
5	Tomato	23,425			
6.	Hot paper	20,400			
7	Others	96,516			
	Total	428,892			

Table 47

Livestock Diversity in the Region

No.	List of Livestock	Quantity (No)	Breed			Remark
			Local Breed	Improved (GMO)	Others	
1	Cattle	3,796,000	Borna/Arsi	250,000		It is always updated
2	Goat	8,547,000	All(longear/short)	--		
3	Sheep	9,053,000	All(black sheep			
4	Efuines	213,00				
5	Bee keeping	--				
6	Donkey	---				
7	Camel	2,032,000	2,032,000	--		
8	Poultry	---				

Table 48

E. Dire Dawa City Administration

General information

- Name of Organization: Dire Dawa Forest and Environment office
- Address: Dire Dawa

Socio-Economic Data

Traditional Agro Ecological Zones Climate Condition(Table 49)

No.	Condition	Size(%) from total area of the region
1	Dega	-
2	Weyna Dega	~12%
3	Kola	~88%
4	Desert	-
5	other	-

Table 49

Sources of income for the population in the region

No.	Main sources of income	% from the total population	rank	Remark
1.	Agriculture+ forest+Lives Stock	≥10%(35,609)	2	
2.	Manufacturing+Mining +Constraction	≥4% (16,516)	3	
3.	Seirvice	≥19 (68,327)%	1	

Table 50

Climate Condition

Amount of Annual Rain Fall

Type	Max.average/year	Min.average/year
W.D	7200mm	680mm
KL	800mm	410mm

Table 51

Amount of Annual Temperature

Type	Max.average/year	Min.average/year
W.D	27 ^o c	17 ^o c
KL	31.5 ^o c	19 ^o c

Table 52

Demographic Data

Total Population of the Region

Male	Female	Total
171,930	170,897	342,824

Table 53

Urban Population

No.	Female	Male	Total	Remark
1	116,874	114,776	231,650	it is always updated

Table 54

Rural Population

No.	Female	Male	Total	Remark
1	54,043	109,973	164,016	It is always updated

Table 55

Household

Rural	Urban	Total
22,091	53,602	75,693

Table 56

Total Number of Woreda and Kebele in the Region

No.of Zone/ Clustre	No.of Woreda	City .adim .zone	Total no.of kebele
7 (3Ur and 4Ru)		1	47 (9Ur\$38Ru)

Table 57

Land use

Total land area and Land Utilization of the region

Total land area of the region in hectare/sq.: 128,802ha (1,288.02km²)

Land Utilization

No.	Land use Type	Size In Hectares	Remark
1	Agricultural Land/crop	13,498.45 (10.48%)	
2	Grazing Land	22,707.80 (17.63%)	
3	Forest Area,Shrbs,Bush	11,836.91(9.19%)	
4	Settlement	2,923.81(2.27%)	
6	Communal	-	
7	Affected area	77,835.06(60.43%)	

Table 58

Protected area

- Is there any protected area in the region? Yes
- If yes:

So far counting and measurement still has not been made.

So far counting and measurement still has not been made.

Summary (Table 59)

Based on the above table the purpose of the protected area should be the following basic targets

- Conservation = it is the first and basic target.
- For research purpose

Total number of protected area your region	Ownership Of Protected Area			Composition	Size in ha.	Remark
	Community	Government	Private			
--	All for the Community	-	-	Local and other foreign forest	--	We plan to conserve more

Table 59

The main purpose/target of conservation is that the following:

- Ingenious spices

Agricultural biodiversity in the region/zone

Crop Diversity in the Region

NB. Size in Hectare we have not data

No	Crop type	Area (ha)/year	Source of planting materials/seeds		
			Improved(GMO)/h	Farmers variety /ha	other
1	Sorghum	--			
2	Maize	--			
3	Wheat	--			
4	Barley	--			
5	Tomato	--			
6.	Groundnut	--			
7	Cabbage	--			
8	Sweat potato	--			
9	Coffee	--			
10	Chat	--			
	Total				

Table 60

Livestock Diversity in the Region

No.	List Of Livestock	Quantity (No)	Breed			Remark
			Local Breed	Improved (GMO)	Others	
1	Cattle	58,913		--		It is always updated
2	Goat	73,737		--		
3	Sheep	85,887		--		
4	Equines	14,824		--		
5	Camel	14,441		--		

Table 61

Conclusion

Generally, as we have seen from the above data from all region land cover change is expanding in Avery alarming rate. And the major factor for this change is the rapid infestation stage of Invasive alien plant species indicated in all study areas. As a result the socio-economic impact shows great influence on the livelihood of both the agricultural area and also the agro- pastoralist areas. From this data not only the farmers, but also all stakeholders as a model facilitator of Ethiopian Biodiversity institute should take part both in the control and eradication of those Invasive plant spices and minimize it socio-economic impact on the livelihood of the community [1].

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