

Appendix (1)

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Refugees Questionnaire

Title of Research:

The impacts of refugees on forest- tree cover study at El Gedaref State
(Eastern Sudan).

➤ This information used for research only.

Section 1: General information

No:

1. Sex : a- Male b- Female

2. Age: Year

3. Annual income:

4. Source of income:

5. Occupation before refuge:



Put a sign inside the square where the answer is appropriate

House Wife	Idle	Herder	Farmer	trader	Technician

6. Education Level:

Illiterate	Khalwa	Primary School	Intermediate	Secondary	University

Section II

Information about refugees behaviors on forest- tree cover at his home country (i. e his country of origin).

Put a sign in the square where the answer is appropriate

1. Before coming to the Sudan, what kind of house do you live

A- House made from brick & stone b- House made of tin

c- House made of wood d- House made of grass

2. From where do you get building materials?

a- From the market b- Provided by the government

c- Cutting trees from forest with licence

d- Cutting trees from forest without licence

Section III

Information of refugee's activities on forest- tree cover in settlement areas:

1. How many years stay in this settlement camp? years

2. Put the following trees according to their availability when you reached the settlement area?

a- *A seyal* b- *A. senegal* c- *A. mellifera*

d- *Balanites aegeptiaca*

3. Name the types of trees that are less dense (endangered)?

a- *A. seyal* b- *A. senegal* c- *A. mellifera*

d- *Balanites aegeptiaca*

4. Mention the kind of grasses and herbs present in this area, when you had come at the first time?

a- b-.....

c-..... d-.....

5. What are the types of herbs & grasses present at this time?

- a- b-.....
c-..... d-.....

6. Over this period how many times do you maintained your houses?

- a- More than six times b-More than three times
c- Only one

7. Arrange the sources of energy used for cooking according to its importance?

- a- Charcoal b-Firewood c- Kerosene d-Gas

8. The use of fire wood and its bi – product (i.e. charcoal, by the following methods
:

a) The traditional stove (mangad)

- a- Always b- Sometimes c- Rarely d- not used

b) Tri – stone stove method (Ladaia)

- a- Always b- Sometimes c- Rarely d-Not used

c) The Improved stove (Kanon Alseror)

- a- Always b- Sometimes c- Rarely d-not used

9. From where do you obtain fuel wood, if you have been used them?

- a- From the forest nearby the camp. b-From the market

- c- From forest far from the camp d-From plants residual

10. If you cut the trees to make use of them, what method do you use for cutting
down trees?

- a- Cutting the upper branches b.Cutting the stem at the root

- c- Cutting the stem half way (in the middle or lobbing)

- d- Cutting the stem at the bottom (pollarding)

11. The trees are often exposed to wild fires. These wild fires are attributed to the following reasons (perception of refugees): -

- a- Clearing land for agriculture. - Charcoal production.
c- Extraction of honey – bee.
d- The herders left the fire burning behind them.

12. Some organizations have setup reforestation programmed (their perception). Have you ever participated in any of them?

- a-in most cases b- in some cases c- rarely
not at all

13. If you have ever participated in rehabilitation programs, what make you benefited from?

- a- I have known the importance of forest in life
b- I have setup a small forest.
c- I have planted tree in my house.
d- I have stopped cutting down trees.

14. Which method have you adopted in protecting trees, shrubs and planted trees?

- a- Protecting them from over – grazing
b- Protecting them from wild fire
c- Stop cutting down them
d- All of the above – methods

15. What is the appropriate method used for protecting trees in your opinion from wild fire (their perception).

- a- Fire lines.
b- Back burning
c- Clearing of forest from grasses and herbs.
d- Fire extinguisher

16. What are the importances of forest trees to our life (their perception):-

a- A source of building materials

b- A source of fuel wood

c- A source of animal fodder

d- Protect the agricultural land from erosion

Appendix (2)

Table 1.

Data sheet for point-centered-quarter samples

Forest type -----

Team Members

1. Point No.	2. Quadrant No.	3. Species code	4. Distance-m	Db-cm	Basal area -cm ²
Stand 1					
1	1				
	2				
	3				
	4				
2	5				
	6				
	7				
	8				
3	9				
	10				
	11				
	12				
4	13				
	14				
	15				
	16				
5	17				
	18				
	19				
	20				
6	21				
	22				
	23				
	24				
7	25				
	26				
	27				
	28				
8	29				
	30				
	31				
	32				
9	33				
	34				

	35				
	36				
10	37				
	38				
	39				
	40				
m=10	n=40		dt=		
Stand 2					
1	1				
	2				
	3				
	4				
2	5				
	6				
	7				
	8				
3	9				
	10				
	11				
	12				
4	13				
	14				
	15				
	16				
5	17				
	18				
	19				
	20				
6	21				
	22				
	23				
	24				
7	25				
	26				
	27				
	28				
8	29				
	30				
	31				
	32				
9	33				
	34				
	35				
	36				
10	37				
	38				
	39				

	40				
m=10	n=40		dt=		
Stand3					
1	1				
	2				
	3				
	4				
2	5				
	6				
	7				
	8				
3	9				
	10				
	11				
	12				
4	13				
	14				
	15				
	16				
5	17				
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6	21				
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7	25				
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8	29				
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	36				
10	37				
	38				
	39				
	40				
m=10	n=40		dt=		

Calculate the absolute density of all trees