

## Appendix

Appendix (1) Botanical Latin name, Botanical types and Local name

Botanical Latin name	Botanical types	Local name
<i>Acanthospermum hespidium</i>	Forbs	Kharab housa
<i>Amaranthus grecans</i>	Forbs	Lesan Eltier
<i>Andropogon gayanyus</i>	Grass	Aburakheese
<i>Aristida mutablis</i>	Grass	Gaw
<i>Asteraceae hyperhernia ofrun</i>	Forbs	Abu-morrwa
<i>Blepharis linariifolia</i>	Forbs	Begeal
<i>Buffalo grass</i>	Grass	Khashesha Eljamoos
<i>Cassia tora</i>	Forbs	Kwal
<i>Chloris gyana</i>	Grass	Afan Elkhadim
<i>Corchorus ditorius</i>	Forbs	Khodra
<i>Cucumia dispaceors</i>	Forbs	Eragelgazal
<i>Dactylactinum aegyptioum</i>	Grass	Abu-asabie
<i>Demodium dichotomum</i>	Forbs	Abu-areeda
<i>Echinocola colonum</i>	Grass	Difra
<i>Eragrostis tremula</i>	Grass	Bannu
<i>Euphorbia hirtal</i>	Forbs	Um-lobiena
<i>Farsetia grandiflora</i>	Forbs	Nwara
<i>Hygrophylla spinosa</i>	Forbs	Um-shwieka
<i>Hyparrhenia confinis</i>	Grass	Um-rajjo
<i>Impomea kordofana</i>	Forbs	Tabar

<i>Indigofra spp</i>	Forbs	Sharaya
<i>Ipomoea coptica</i>	Forbs	Eragelnar
<i>Jasminum nitidum</i>	Forbs	Khashem Elnaseeba
<i>Justicia kotschyi</i>	Forbs	Nana
<i>Loranthus spp</i>	Forbs	Enabeldb
<i>Marettia philaeana</i>	Forbs	Neyada
<i>Ocimum basilicum</i>	Forbs	Rehan bary
<i>Oldenlandia herbacea</i>	Forbs	Um-kenatillat
<i>Pennisetum pedicellatum</i>	Grass	Um-Dofoyo
<i>Rhynchosia minima</i>	Forbs	Adanelfar
<i>Schonfeidia gracilis</i>	Grass	Danb Elnaga
<i>Sesbania arabic</i>	Forbs	soreeb
<i>Setaria pallidea fusea</i>	Grass	Dohon Eltier
<i>Sorghum halepense</i>	Grass	Adar
<i>Sorghum purpureosercim</i>	Grass	Bejl
<i>Symbopogan nevratus</i>	Grass	Nal
<i>Tribulus terrestris</i>	Forbs	Dirassa
<i>Xanthium brosilicum</i>	Forbs	Lazag
<i>Zornia glochidiata</i>	Forbs	Sheliny



Appendix (2) shows sacrifices area round water points at study area



Appendix (3) the effect of open grazing system on vegetation attributes





Appendix (4) the effect of open grazing system on vegetation attributes



Appendix (5) the plants diversity at grazing sites

Site .....

Date .....

Transect number .....

Group .....


Spp = Plants species

R = Rock

L = litter

Bs = Bare soil

**Site description**

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.....

.....

Appendix (6) range inventory form (loop form)

Site .....

Date .....

Quadrat number .....

Group .....

Q. No	Cover %	Species found	Q. No	Cover %	Species found

1			6		
2			7		
3			8		
4			9		
5			10		

**Site description:**

.....

.....

Appendix (7) range inventory form (Quadrant form)

Site	Transect (no)	Sample (no)	Weight/g



**Others occupation besides animal birthing:** farmer                      traded                      self worker  
 other.....

**System of life:** nomad                       semi- nomad                       stalled

**Type of animal that you bride:** Cattle                       Camel                       Sheep   
 Goats                       others.....

**Is there specific system to use rangeland:** yes                       no

**The animal number in rainy season grazing land compared with the past time: are**  
 increased                       re decreased                       no change

**Is there map for grazing lands:** yes                       no

**The period of come to (rainy season grazing area) Maharife: .....**

**When you go back to msaife (dry season grazing area).....**

**Compared with the past time is a period to sty on rainy season grazing land area are**  
 increased                       deceased

**Reason (why):**

- 1.....
- 2.....
- 3.....
- 4 .....

**Is the rangelands is decreased when compared with past time: yes**                       no

**If your answer is yes, is the reason:**

- 1- Expansion of agriculture land
- 2- Increasing of population number in village
- 3- Increasing of animals number in rainy grazing lands

**The reason of disappearing on some range plants are:**

- 1- Overgrazing
- 2- Decreased on rain amount
- 3- Seasonal fire

**The plants that disappeared in rangelands are:**

<i>Blepharis linariifolia</i>	<i>Demodium dichotomum</i>	<i>Asteraceae hyperhernia ofrun</i>	<i>Andropogon gayanyus</i>	<i>Sorghum purpureoserici</i>	<i>Dactylactinum aegyptioum</i>
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**The plants that appeared in rangelands are:**

<i>Euphorbia hirtal</i>	<i>Cassia tora</i>	<i>Acanthospermum hespidum</i>	<i>Xanthium brosilicum</i>	<i>Jasminum nitidum</i>	others

**Sources of water:**

- 1- .....
- 2- -.....
- 3- .....
- 4- -.....

**Are there was a conflict for:**

- 1-Drinking water
- 2-Grazing land
- 3-Between herders and farmers
- 4-animals routs