LIST OF TABLES

Title of table	Page NO
Table (5.1) Sits types and preference for grazing in the rainy season	80
Table (5.2) Reasons for the sites' preference for grazing	81
Table (5.3) Time of entering and existing to the three sites by pastoralists	82
Table (5.4) Plant cover/ m^2 at the three sites for the rainy seasons (2013/2014)	87
Table (5.5) Dominant species (in %) at the three sites for the two seasons	89
Table (5.6) Biomass production (in ton/ha) at the three sites	91
Table (5.7) Available forage production (in ton/ha) at the three sites	91
Table (5.8) Carrying Capacity at the three sites for the two rainy seasons	92
Table (5.9) Average total trees density (in tree/ha) at the three sites	93
Table (5.10) Relative trees density for dominant species at the three sites	94
Table (5.11) Live and dead seeds percent of dominant species at the three sites	96
Table (5.12) Age of both respondents at the study area	98
Table (5.13) Education levels for both respondents at the study area	98
Table (5.14) Source of the income and types of cultivation at the study area	99
Table (5.15) Types of crops used by sedentary group at the study area	100
Table (5.16) Staying of livestock in the villages at the study area	100
Table (5.17) Collection of crop residues by sedentary at the study area	101
Table (5.18) Herds structure and purpose of animals' raising at the study area	102
Table (5.19) Disappeared of plants species at the study area	103
Table (5.20) Invader plants species at the study area	104
Table (5.21) Preferring of plants species appeared at the study area	104
Table (5.22) Methods used to face shortage of forage at the study area	105
Table (5.23) Livelihood pattern for pastoralists and causes of changing	106

Table (5.24) Rangelands condition and causes of deterioration	107
Table (5.25) the general status of livestock at the study area	108
Table (5.26) Types of grazing pattern practice at the study area	109
Table (5.27) Moving of pastoralists' families' members 'with livestock	109
Table (5.28) Using of trees and shrubs for feeding livestock during dry season	110
Table (5.29) Water sources for both respondents at the study area	112
Table (5.30) Ownership of water sources and conflicts at the study area	113
Table (5.31) provision of services for pastoralists at the study area	114
Table (5.32) participation of nomads in rangelands activities at the area	115
Table (5.33) Conflicts among both respondents at the study area	116
Table (5.34) Period of conflicts increasing and places of happening	117
Table (5.35) Ways of conflict's transformation among both respondents	118
LIST OF FIGURES	
Figure (2.1) Map of Sudan and South Kordofan State illustrates the study area	8
Figure (2.2) Average rainfall mms/month season (2013) at the study area	11
Figure (2.3) Average rainfall mms/month season (2014) at the study area	11

Figure (2.1) Map of Sudan and South Kordofan State illustrates the study area	8
Figure (2.2) Average rainfall mms/month season (2013) at the study area	11
Figure (2.3) Average rainfall mms/month season (2014) at the study area	11
Fig (4.1) Layout of transects and quadrats distribution in each block	69
Figure (5.1) Plant composition%, litters% and plant cover% at the sandy and clay	84
Figure (5.2) Plant composition%, litters% and bare soil% at the sandy and clay	85
Figure (5.3) Plant composition%, litters% and bare soil% in the gardud (2013/2014)	85
Figure (5.4) Average percentage of Soil Organic Matter at the three sites	95
Figure (5.5) Trees and shrubs use for feeding livestock for pastoralists	110
Figure (5.6) Trees and shrubs use for feeding animals by sedentary	111
Figure (5.7) Mean of NDVI for the six months in (2010) at the three sites	120

Figure (5.8) Mean of NDVI for the six months in (2011) at the three sites	120
Figure (5.9) Mean of NDVI for the six months in (2012) at the three sites	121
Figure (5.10) Mean of NDVI for the six months in (2013) at the three sites	121
Figure (5.11) Mean of NDVI for the six months in (2014) at the three sites	122
LIST OF PLATES	
Plate (4.1) Sandy site	68
Plate (4.1) Sandy site Plate (4.2) Clay site	68 68