



**NATIONAL
DISASTER RISK MANAGEMENT COMMISSION
(NDRMC)**

WOREDA DISASTER RISK PROFILE (WDRP)

REGION: AFAR

ZONE: ZONE 2

WEREDA: ABALA

December, 2020

Addis Ababa

About the National Disaster Risk Management Commission (NDRMC)

The National Disaster Risk Management Commission (NDRMC) was reestablished in December 2015 and recognized by an act of Council of Ministers (Regulation No. 363/2015) as an autonomous Federal Government office mandated to conduct appropriate activities for the comprehensive implementation and realization of the objectives of the National Disaster Risk Management Policy and Strategy and to coordinate, monitor and provide appropriate support with respect to activities carried out by the lead sector institutions.

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PREFACE

Ethiopia is well aware of the impact that disasters can have on the development goals that we are rigorously pursuing through our Growth and Transformation Plan II. With this recognition we started a paradigm shift a few years ago, largely triggered by the revised National Policy and Strategy on Disaster Risk Management.



To make the DRM programme implementation in the country well-informed, a comprehensive information management system is required. We have been undertaking a comprehensive risk assessment exercise under which Disaster Risk Profiles are being prepared for each district and at sub-district levels in the country.

This Wereda Disaster Risk Profile establishes an extensive database on disaster risk elements that will help decision makers at all levels to be better informed at community and Wereda level about the characteristics of potential hazards, their potential exposure, vulnerabilities of communities, capacities and that can also be an input for Wereda Disaster Risk Reduction Plans and area specific early warning tools.

Wereda Disaster Risk Profiles developed are publically available here for the use of all development partners and government sectors at all levels. Also, other data sources of NDRMC, such as Desinventar, Livelihood Baseline and the Early Warning information will be integrated and harmonized with this Information Management System.

Finally, we need to acknowledge the support of partners who have funded this programme and we also look for the support of donors and all development partners in order to achieve the ambitious indicators of this risk information and providing every district with the disaster risk profile and their respective risk-informed plans.

A handwritten signature in black ink, consisting of stylized, overlapping loops and a long horizontal stroke at the end.

*H.E. Ato Mitiku Kassa
Commissioner*

*National Disaster Risk Management Commission (NDRMC)
The Federal Democratic Republic of Ethiopia (FDRE)*

PREFACE

Woreda Disaster Risk Profiling (WDRP) is a government owned programme undertaken by the National Disaster Risk Management Commission (NDRMC) in collaboration with regional DRM offices and development partners to provide baseline information for disaster risk management practices and in the country. The programme is designed by taking into account the experiences gained from the implementation of previous strategies and actions like the Hygo Framework for Action (2000-2015) and the Sendai Framework for Disaster Risk Reduction (2015-2030).



WDRP is composed of diversified indicators including hazard related issues, crop and livestock production, landholding and environmental issues, human and livestock health issues, education and social issues at wereda and kebele level. It provides basic and detailed indicators with both quantitative and qualitative information which obtained from both primary and secondary data sources.

Moreover, two pages summary of profiles is also prepared to help users easily understand WDRP results for each wereda without going into detail for all indicators. In addition to this booklet, developed profiles are uploaded on WDRP website (<http://profile.ndrmc.gov.et>) to be viewed by all users; we encourage all DRM actors at all levels to use this profile as baseline information for all DRM initiatives.

This WDRP booklet was produced through exemplary collaboration of all concerned bodies and I would like to give my deepest gratitude to all who directly or indirectly contribute for the success of the programme particularly for data enumerators and supervisors, data encoders and profile development teams, consultants and advisors, partner ministries and all DRM stakeholders.

Abraham Abebe

Director

*Disaster Risk Reduction and Rehabilitation Directorate (DRRRD)
National Disaster Risk Management Commission (NDRMC)*

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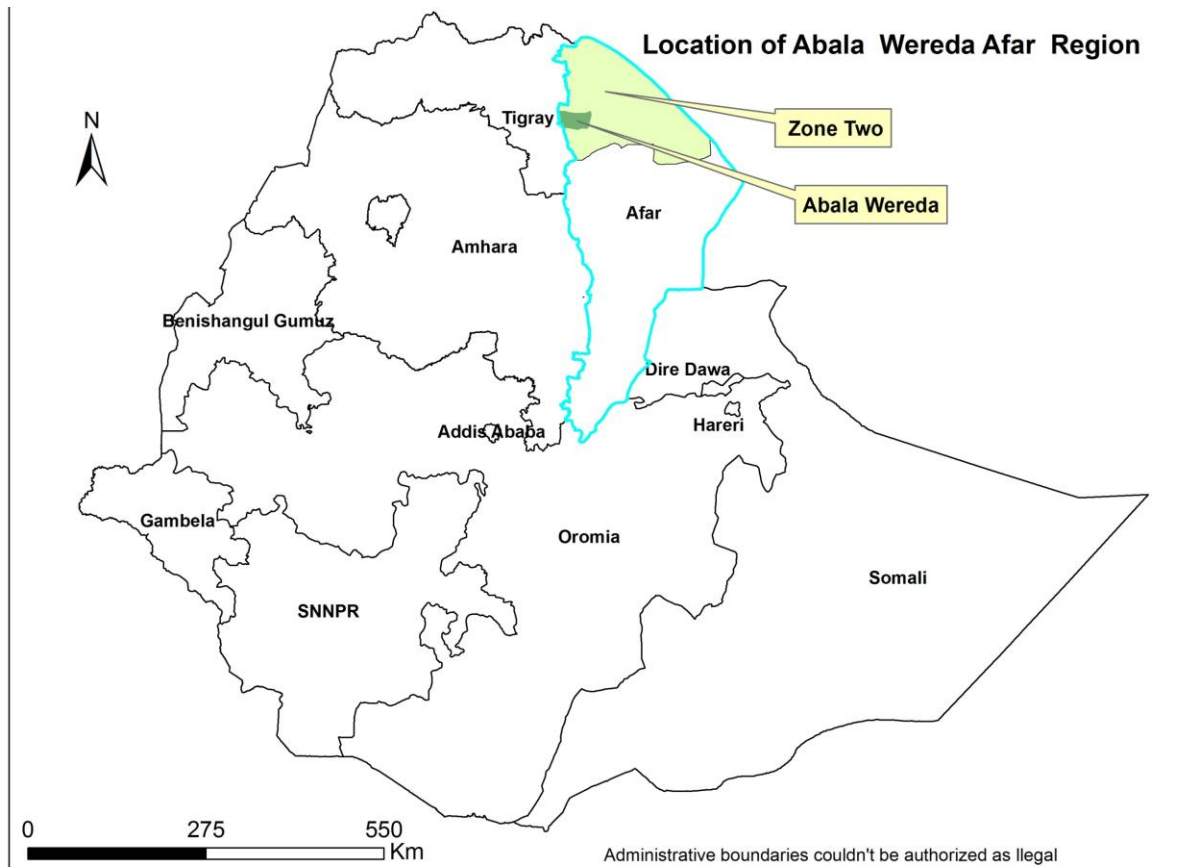
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WEREDA LOCATON



METHODOLOGY

▪ **WDRP Content :**

- Comprehensive information on disaster risk components (Hazards, Vulnerability and Capacity)
- Multi-sectoral and multi-hazard information.

▪ **Research Approach:**

- Mixed Approach
- Both quantitative and qualitative information

▪ **Data Sources:**

- Primary Data:
 - ✓ Household Questionnaires: statistically significant number (around 400 households).
 - ✓ Focus Groups Discussions: One per kebele
 - ✓ Key Informant Interviews: with major woreda level government and non-government DRM actors
 - ✓ Problem Tree Analyses : to see the cause and effect of disasters
- Secondary Data:
 - ✓ collected relevant to WDRP indicators:
 - ✓ LIU, SERA Project, Risk baseline, other ministries...

▪ **Sampling Technique:**

- Multistage cluster sampling
- Both Probability and Non-probability sampling

▪ **Methods of Analysis:**

- Descriptive Statistics
- Textual Analysis
- Cipro and SPSS
- Automate WDRP software

WEREDA

SUMMARY DISASTER RISK PROFILE

INFORMATION



Disaster Risk Profile: Abala Wereda

SUMMARY OF WEREDA PROFILE

Drought and livestock diseases are the major hazards reported by households. Human diseases (mainly malaria) and flooding are also additional hazards in the wereda. Soil erosion is the major environmental problem followed by deforestation and pests. Lack of flood protection structures, low awareness level of the community, shortage of clean drinking water, poor sanitation and weak economic capacity of the community are the major vulnerability factors.

Building flood protection structures is very important. Increasing households' participation in crop production can enhance food availability and reduce dependence on livestock rearing. Animal fattening can also be encouraged through forming cooperatives which would increase their income.

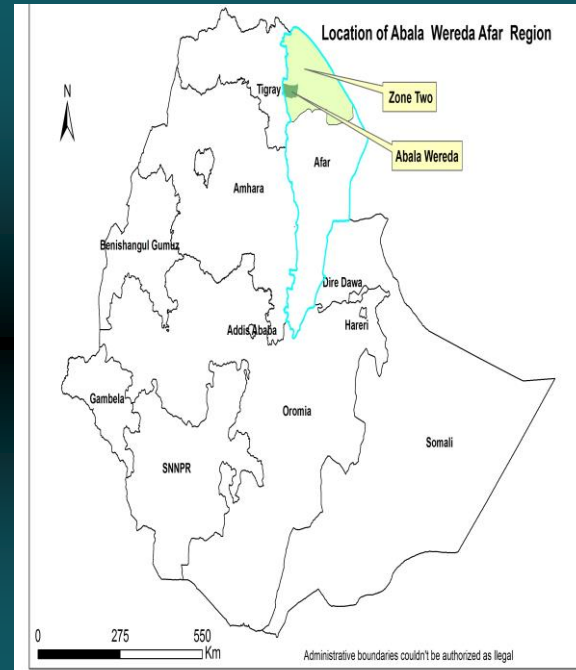
SUMMARY OF LIVELIHOOD ZONE

➤ Asaale Pastoral Zone (LZ1)

Pastoralism is the main livelihood with camel and shoats (sheep/goats) being the most important. The climate is generally dry. Food sources for all wealth groups are predominantly purchases of cereals such as maize and wheat in addition to livestock products such as meat and milk. The sale of livestock, salt mining and the renting out of pack animals are the main sources of income. For the poor additional income is derived from self-employment (salt mining) while for the middle and better-off it comes from the sale of livestock and salt trading.

➤ Asaale Agro-Pastoral Zone (LZ2)

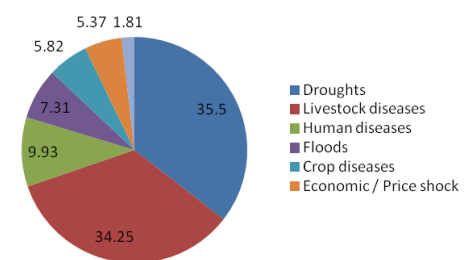
Mixed farming zone. Crop production mainly maize and sorghum; and livestock mainly cattle and shoats. The sale of livestock and self-employment are common sources of income across all wealth groups. Poor and middle households obtain significant income from casual labour employment (agricultural activities, salt mining and transportation) while the better-off obtain income from sale of livestock products.



MAJOR DISASTERS REPORTED IN WEREDA

Kebele	Disaster 1	Disaster 2	Disaster 3	LIU Info
Erkadi	Drought	Flood	Pests	Chronic hazards: LZ1: Drought, livestock disease (anthrax, trypanosomosis, calf diarrhea) and human diseases (malaria, water-borne diseases) LZ2: Rainfall delay/failure, livestock diseases, crop pests & weeds and flooding
Wuhadet	Flooding	Drought	Animal disease	
Gelaiso	Drought	Conflict	Animal disease	
Wesema	Drought	Animal disease	Human disease	
Adekelo	Drought	Animal disease	Human disease	
Asengosa	Drought	Animal disease	Flooding	
Hudno	Drought	Pests	Animal disease	
Adi Harme	Flood	Drought	Animal Disease	
Wakergubi	Drought	Animal disease	Flooding	
Enda Asengola	Drought	Animal disease	Human disease	
Hardin	Drought	Animal disease	Crop pests	

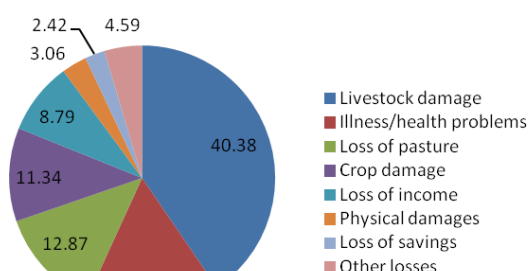
Percentage of households by major disaster faced during the last five year



SHORT NARRATIVE ON MAJOR DISASTERS:

Drought is the major disaster risk in the wereda which causes loss of feed and water for livestock and forces household migration. It is also indicated as the major reason for decreasing number of livestock. Contagious Caprine Pleuropneumonia, New castle disease, Foot and Mouth disease and Tick borne diseases are among the most prevalent livestock diseases in the wereda. Malaria is main health problem that households face most frequently followed by Diarrhea. These are caused by different factors such as water logging (which is suitable for mosquito reproduction), poor sanitation, lack of pure drinking water and malnutrition. Flooding occurs in June, July and August causing damages on pasture, crop and properties. Moreover, flood is the major hazard from June to July causing land degradation and damage on crop, pasture and houses. Crop diseases and pests also affect households who are engaged in crop production. Price shock is additional problem indicated by households, which depletes saving and results in lack of money for medication and purchase of feed and other social purposes.

Percentage of households by major disaster loss suffered



EFFECT OF DISASTERS

Disasters	Loss 1	Loss 2	Loss 3
Drought	Death of animals	Crop damage	Loss of pasture
Livestock disease	Death of animals	Lack of food for humans	Loss of income
Human disease	Death of humans	Lack of working manpower	Loss of income and saving
Flood	Land degradation	Damage houses	Crop and grass damage
Crop diseases	Crop damage	Livestock damage	Lack of food
Price shocks	Loss of saving	Lack of money for medication	Lack of money to buy animal feed



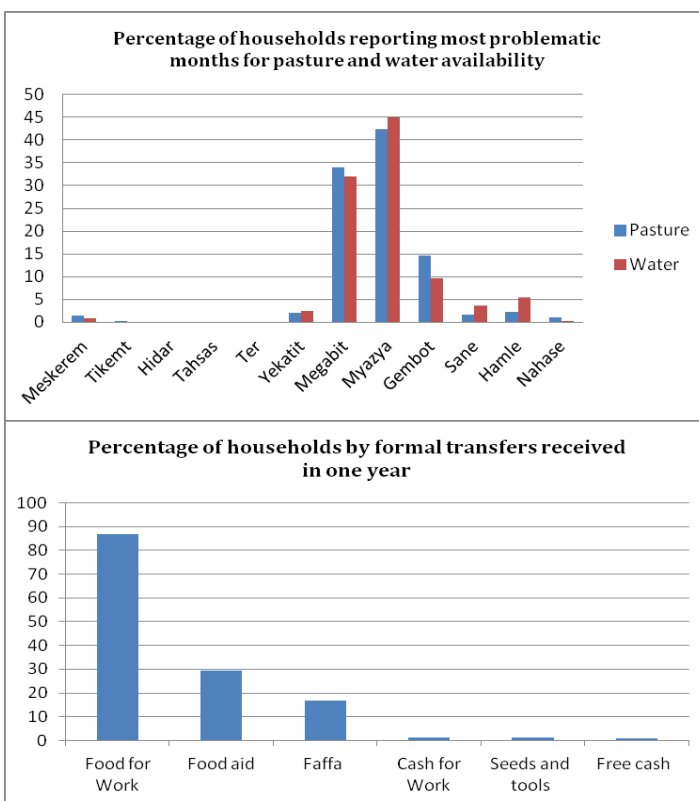
Disaster Risk Profile: Abala Wereda

HOUSEHOLD AND COMMUNITY

VULNERABILITY

The resilience capacity of the community is very low. This can be seen from the fact that 62% of the households did not manage to recover from the disaster loss they suffered. Moreover, about 87% of the households participated in PNSP program (food-for-work project) and 29% and 17% of the households also received food aid and *faffa*. On the other hand, 1/3rd of the households reported that it would be impossible for them to raise Birr 500 in one week indicating their vulnerability to a sudden on-set of disasters.

March, April and May are the most problematic months in terms of pasture and water availability for livestock. Households' participation in crop production is very poor, and they are still heavily dependent on livestock rearing. Lack of terracing and flood diversion structures makes households vulnerable to flooding. As a result, the level of soil erosion is high in all Kebeles. On the other hand, water logging and poor sanitation are among the factors making households vulnerable to malaria. Poor economic capacity of the community, lack of awareness, shortage of drinking water both for humans and animals and lack of pesticides are additional vulnerability factors in the wereda.



Accessibility:

- Access to electricity:** 4.2% of the households are located in the community with electricity, while 2.5% are actually connected electric power.
- Credit:** 8.5% of the households have borrowed money out of which 80 obtained from friends/relatives. They used the credit to purchase food items.
- Access to veterinary facility:** of the total households surveyed, 91% of them reported **poor/very poor access to veterinary service and livestock drug**.
- Access to road, market and urban center:** average time taken to reach the nearest **paved road** in the wereda is 40 minutes, while it took households about 5 hours to reach the nearest **urban center**.
- Access to market:** households reported to have seasonal problems to access markets.
- Access to drinking water and sanitation:** rivers/streams, communal tap and pipe water outside the house are primary sources of drinking water for 36%, 23% and 20% of the households in the wereda. Despite un-safe sources of drinking water, 98% of the households use the water without making any kind of treatment. On the other hand, 80% of the households reported that they do not have any toilet facility at all.
- Access to agricultural inputs:** almost all households did not used fertilizer, but half of the households cultivating crops have used pesticides. Besides, only 19% of the households have reported using improved variety of seed. Access to agricultural extension service is also poor.

Level of Awareness and Institutional Development

The **general literacy** level of the population above 7 years of age is only 13.8%. Out of which 62% of them are only below first grade, while 30% and 8% of the population attended primary school (1-6 grade) and secondary school (7-12 grade), respectively. With regard to **gender parity** in education, proportion of male students dominates the corresponding female students at all education level. Of the total households surveyed, 12.1% of them are female-headed households.

Community's awareness towards disaster risk management system and actors seem to be good. There are **cooperatives and youth association** working on income generation activities and development activities. There are various NGOs working in the area such as WFP, FAO, VSF Germany, ISD and IPDP, which can be considered as external capacities to the community towards disaster risk management.

InfoBits:

Population	: 37943 (2007)
Sex ratio	: 854 F/1000 M
Urban Population	: 10288 (2007)
Mean Altitude	: 1180 m
Mean Slope	: 7.5%
Measles caseload	: 5 (2004-2009)

Sources: Various Secondary Sources

Community Capacity to Cope

- Major coping mechanisms** adopted by households against disasters include reducing expenditure on non-essential items, selling more livestock than usual, seeking alternative/additional jobs, short term labour migration and consumption rather than sale of crop surplus. They also buy animal feed from highland areas (Tigray Region) mainly for pregnant animals.
- The **level of cooperation** in the community is good. This can be seen from the fact that many households received remittance and cash loan with no interest from relatives and neighbours. There is also **Dagu system** through which the community share (give and take) information and enhance preparedness particularly in case of conflict with other tribes.
- Livestock and crop diversity:** Camels, goat, sheep and donkey are the major types of livestock commonly reared by households in the wereda. Some households also own cattle. They use camel, goat and sheep for milk and income, while donkey for transportation. On the other hand, a quarter of the households are engaged in crop production, where maize, sorghum, teff and barley are the major crops grown.

WDRP Indicators

Hazard Related Characteristics



Wereda Disaster Risk Profile

National Disaster Risk Management Commission (NDRMC)



Data Collected Date

Wednesday, March 3, 2021

<u>Region</u>	AFAR	<u>Zone</u>	ZONE 2	<u>Wereda</u>	ABALA
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Selected Indicator	Biological Hazards of the Wereda
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Hazard_Name	Cause_Of_Hazard	Effects_Of_Hazard
-------------	-----------------	-------------------

Hazard_Sub_Type	Animal disease	
-----------------	----------------	--

Contagious Caprine Pleuropneumonia (CCPP)	Lack of feed (pasture) Drought Disease transmission from animals migrating to the area	Death of animals Loss of animal products Shortage of food (milk and butter) Loss of income Effect on human health
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Newcastle disease (Chicken)

Foot and Mouth Disease (FMD)

Tick born diseases

CBPP

Anthrax

Hazard_Sub_Type	Crop diseases and pests	
-----------------	-------------------------	--

Crop diseases and pests	Favourable weather condition	Crop damage
-------------------------	------------------------------	-------------

Hazard_Sub_Type	Human diseases	
-----------------	----------------	--

Malaria	Water logging Lack of clean drinking water Poor sanitation and hygiene Malnutrition High temperature Drought	Death of humans Lack of working manpower Loss of income and saving for medication expense
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Diarrhea



Wereda Disaster Risk Profile

National Disaster Risk Management Commission (NDRMC)



Data Collected Date

Wednesday, March 3, 2021

<u>Region</u>	AFAR	<u>Zone</u>	ZONE 2	<u>Wereda</u>	ABALA
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Selected Indicator Geological Hazards of the Wereda

<u>Hazard_Name</u>	<u>Cause_Of_Hazard</u>	<u>Effects_Of_Hazard</u>
--------------------	------------------------	--------------------------

Hazard_Sub_Type Geological Hazards

No geological hazards are reported in the Wereda



Wereda Disaster Risk Profile

National Disaster Risk Management Commission (NDRMC)



Data Collected Date

Wednesday, March 3, 2021

<u>Region</u>	AFAR	<u>Zone</u>	ZONE 2	<u>Wereda</u>	ABALA
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Selected Indicator Hydro Metrological Hazards of the Wereda

Hazard_Name	Cause_Of_Hazard	Effects_Of_Hazard
<u>Hazard_Sub_Type</u>	Hydro-Meteorological Hazards	
Drought	Deforestation	Death of animals Loss of pasture and water sources Occurrence of human disease Migration of households Crop damage
Flood	Deforestation Lack of terracing	Siltation and soil erosion Physical damage on houses and property Shortage of food Crop damage Pasture damage Death of animals Land degradation (gully formation)



Wereda Disaster Risk Profile

National Disaster Risk Management Commission (NDRMC)



Data Collected Date

Wednesday, March 3, 2021

<u>Region</u>	AFAR	<u>Zone</u>	ZONE 2	<u>Wereda</u>	ABALA
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Selected Indicator	Socio Economic Hazards of the Wereda
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<u>Hazard_Name</u>	<u>Cause_Of_Hazard</u>	<u>Effects_Of_Hazard</u>
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<u>Hazard_Sub_Type</u>	Social Hazards
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Conflict	Conflict over grazing land	Death of people, Death of animals, Displacement of households
Fire	House fire	Damage of houses, Burning of foods and other materials
Price shocks		Lack of money to buy food and feed Lack of money for medication Loss of saving



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Selected Indicator Technological Hazards of the Wereda

<u>Hazard_Name</u>	<u>Cause_Of_Hazard</u>	<u>Effects_Of_Hazard</u>
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Hazard_Sub_Type Technological Hazards

No technological hazard has
been reported in the area



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Region	AFAR	Zone	ZONE 2		Wereda	ABALA			
Selected Indicator:		Disaster Characteristics By Kebele							
Kebele Name	Disaster_Type	Common Period	Year Occured	Worst_Year	Trends of Effects	Root Causes	Effects	Vulnerability	Coping Strategy
ADEKELO	Drought	June	2001, 2002	2001, 2003	Increased	Low or absence of rain fall	Absence of grasses and affecting the livestock		Minimizing the number of animals
	Animal Disease	April	Every year	Every year	Increased	We do not know	Loss of animal products and death of animals		Searching feed and water for their livestock and where the feed is available
	Human diseases	May	Every year	1997	Increased	Water logging, hygiene	Illness and death		
ADI HARMELE	Flood	June, July, August	1984, 2004	1990, 2000, 2001, 20	Increased	High rainfall in other area	Damage crop, land degradation, damage house	No enough diversion and protection such as terracing	Flood diversion
	Drought	April, May, March, June	1995, 1997, 1999, 2001 2003	1997, 2001	Increased	Low rain fall, deforestation	Death of animal, crop damage, displacement	Lack of awareness	Help each other, relief



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Region	AFAR	Zone	ZONE 2	Wereda	ABALA				
Selected Indicator: Disaster Characteristics By Kebele									
Kebele Name	Disaster_Type	Common Period	Year Occured	Worst_Year	Trends of Effects	Root Causes	Effects	Vulnerability	Coping Strategy
ADI HARMELE	Animal Disease	April, August, September, November, October, October, May, December	1997, 1999, 2000, 2001, 2002,	1997, 2001	Increased	Shortage of food, drought, climate change	Death of animals, shortage of human food, death of human	Lack of awareness	Sale of animal
	Pest (blue rust)	June, July, August	1999, 2000, 2001, 2003	1999, 2001	Increased	We do not know	Damage crop, lack of crop production		
ASENGOSA	Drought	April, March, May, June	1997, 1999, 2000, 2001, 2002,	1997, 2001	Increased	Low rain fall, deforestation	Death of animals, death of human, displacement	Poor saving culture	Selling of animals and buying food, migration to Arab countries
	Animal Disease	March - August	All year	1997, 2001	Increased		Death of animal, shortage of human foods (milk, butter)	There is animal clinic	Destocking, selling animals
	Flood	May - August	All year, summer	2004	Increased		Death of animals, agriculture land change in to gully	There is no any structure (gabion and terraces)	Flood diversion



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Region	AFAR	Zone	ZONE 2	Wereda	ABALA				
Selected Indicator: Disaster Characteristics By Kebele									
Kebele Name	Disaster_Type	Common Period	Year Occured	Worst_Year	Trends of Effects	Root Causes	Effects	Vulnerability	Coping Strategy
ENDA ASENGOLA	Drought	June	2000, 2001, 2002, 2003	2000, 2004	Increased	Lack of rain	Death of animals, lack of clean water		Working in PNSP
	Human diseases	May, June, July	2004	2003	Increased		Death of humans		
	Animal Disease	May	1197, 1998, 2000	1997	Increased	Migration of animals to the area	Death of animals		
GELAISO	Drought	February, March, April, May, June	1997, 1999, 2001, 2003	1997	Increased	Low rain fall	Death of animals, displacement		Migrate to other place, relief aid
	Conflicts	April, June, July, August	1998, 2002, 2003	2002	Decreased	Grazing land	Death of people, death of animals, displacement		Fighting, asking government support
	Animal Disease	May, June, July, August	1999, 2000, 2001, 2003	2003	Increased	We do not know	Death of animals, shortage of human food		Buying drug, traditional treatment



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Selected Indictor: Disaster Characteristics By Kebele									
Kebele Name	Disaster_Type	Common Period	Year Occured	Worst_Year	Trends of Effects	Root Causes	Effects	Vulnerability	Coping Strategy
GELAIISO	Fire problem	July	2003	2003	Decreased	House fire	Damage of houses, burning of foods and other assets		Help each other
HARIDEN	Drought	April, May, June	1997, 2000, 2001, 2003	2001	Increased	Lack of rain fall	Death of animals, lack of clean water		By digging pond, moving with their livestock
	Drought	April, May, June	1997, 2000, 2001, 2003	2001	Increased	Lack of rain fall	Death of animals, lack of clean water		By digging pond, moving with their livestock
	Animal Disease	April, May, June	2000, 2001	2000	Increased	Lack of rain fall	Death of animals		Migrating to other area with animals
	Crop Pest	June, July	1999, 2003	1999	Increased	Poor rain fall	Damage Millet and teff		Applying for help to the government
HIDMO	Drought	April, May, June	199, 2000, 2001, 2003	1999	Increased	Low rain fall, Deforestation	Death of animal, no production		Movement of animals, buying of grass, relief aid, help each other, selling of fire wood
	Pest (blue rust)	April, July, June	All year	All year	Increased	Favourable environment	Damage crops		Praying to God, buying pesticide, asking government



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Selected Indictor: Disaster Characteristics By Kebele									
Kebele Name	Disaster_Type	Common Period	Year Occured	Worst_Year	Trends of Effects	Root Causes	Effects	Vulnerability	Coping Strategy
HIDMO	Pest (blue rust)	June, July, May, April	1999, 2000, 2001, 2002, 2003	1999	Increased	Low grazing land	Death of animals		Buying animal drug, help from organizations, traditional treatment
	Animal Disease	June, July	2000, 2001, 2002, 2004	2002	Increased	High rain fall	Damage crops and soil erosion		Making flood diversion
	Human diseases	August, September, November	1997, 1999, 2000, 2001	1997	Increased	Water logging, drought	Death of human, economic crisis		Go to clinic, traditional treatment
	Human diseases	May, June	2001	2001	Decreased	Shortage of rain fall, Deforestation	Displacement , migration for pasture, death of animal, health problem		Saving of crop residual, buying of grass, migration to other area, relief aid
WAKERGUBI	Animal Disease	October - November	2004	1999, 2002	Decreased	Disease transmission from cattle coming from Tigray region	Death, economic crisis		Treatment, destocking, selling cattle



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Selected Indictor: Disaster Characteristics By Kebele									
Kebele Name	Disaster_Type	Common Period	Year Occured	Worst_Year	Trends of Effects	Root Causes	Effects	Vulnerability	Coping Strategy
WAKERGUBI	Drought	May, June	2001	2001	Decreased	Shortage of rain fall, Deforestation	Displacement , migration for pasture, death of animal, health problem		Saving of crop residual, buying of grass, migration to other area, relief aid
	Flood	July, August	2003, 2004	2004	Increased	High rain fall	Damage crops, damage houses, death of animals, death of humans		Terracing, Galion (for flood diversion)
	Pest (blue rust)	May, June, July, August	2000, 2001, 2002	2002	Decreased	We do not know	Damage crops, low income		Using pesticide, cultural practice
WEIDET	Flood	June, July, August	1986 - 2004	1989, 1996, 2001	Increased	Lack of flood diversion, deforestation , high rain fall	Crop damage, siltation and land erosion, shortage of food conservation		Diversion by wood



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Region	AFAR	Zone	ZONE 2	Wereda	ABALA				
Selected Indicator: Disaster Characteristics By Kebele									
Kebele Name	Disaster_Type	Common Period	Year Occured	Worst_Year	Trends of Effects	Root Causes	Effects	Vulnerability	Coping Strategy
WEIDET	Drought	March, April, May, June, July, August	1981, 1983, 1985, 1987, 1990,	2001	Increased	Deforestation , low rain fall	Animal death, crop damage, movement of people and animals		Animal grass coming from Tigray region, displacement, help each other, relief from government
	Animal Disease	March, April, May, June, July	Every year	1990, 2000, 2001	Increased	Drought, Shortage of pasture	Death of animals, economic crises		use of cultural medicine, buying of drugs
	Pest (blue rust)	May, June, July, August	1987 - 2004	2003	Increased	We do not know	Damage crops		Cultural practice, buying pesticide
WESEMA	Drought	April	1994, 2001, 2002	2001	Increased	Absence of rain fall	Absence of grazing land and livestock damage		Minimizing the number of animals (goat and camel)
	Animal Disease	June	Every year	Every year	Increased		Death of animals		Searching feed and water for their livestock and where the feed is available
	Human diseases	September (Every year)	Every year	2001	Increased	Water logging hygiene	Death of human and economic crisis		



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Selected Indictor: Disaster Characteristics By Kebele									
Kebele Name	Disaster_Type	Common Period	Year Occured	Worst_Year	Trends of Effects	Root Causes	Effects	Vulnerability	Coping Strategy
HIDA RURAL	Drought	June, February, March	1995, 1997, 2000, 2003	1995, 2000	Increased	Deforestation	Death of animals, human disease, displacement , no production of crop	Problem of saving	Migrate to other place, buying of animal feed from Tigray, migration to Arab countries
	Flood	July, August,	1993, 1994, 2001, 2003, 2004	2001	Increased	Deforestation , lack of terracing	Crop damage	Lack of awareness	Construct flood diversion structure, gabion construction
	Pest (blue rust)	June, September	All year	All year	Increased	We do not know	Crop damage	Low production, shortage of food	Cultural protection, buying of pesticide
	Animal Disease	February, March, April	2000	2000	Increased	Shortage of feed	Animal death, loss of income	No enough food for animals, No animal health	use indigenous knowledge treatment, buying drug from other place
	Human diseases	May	2003	1977	Increased	High sunlight, shortage of water	Lack of working manpower, expense for medication, death	Sanitation, balance diet	Clean private and community place, go to clinic

IMPORTANT: The years and months mentoned in this report are according to Ethiopian Calendar (EC).



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Selected Indicator:

Hazards: Conflict as an Issue

KebeleName	Description_Of_Conflict	Change_In_Last_Decade	Main_Causes_Of_Conflict
HIDA RURAL	No conflict		
WEIDET	Camels eating crops	Increased	
WESEMA	There is conflict		
ADEKELO	There is conflict		
ASENGOSA	No Conflict		
HIDMO	Conflict in September	No change	
ADI HARMELE	Conflict with wereda in Tigray region	No	
WAKERGUBI	No Conflict	No	
ENDA ASENGOLA	There is conflict	No change	
HARIDEN	There is conflict	No change	



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Selected Indicator:

Hazard Situation During Last Disaster - Characteristics of most recent disasters that affected the community

KebeleName	Types of Disasters	Hazard Description	Effect Of Disaster	Most Severly Affected	Reason
ADEKELO	Drought	Economic crisis	Displacement, famine, animal death	Women, elders, children	Poor capacity
ADI HARMELE	Drought, flood, pest, animal disease	1997 - 2001	Displacement, death of animals and human, crop damage	Women, children	Poor capacity
ASENGOSA	Drought, water problem, flooding, animal disease	For 8 month every year	Animal death, shortage of animal feed and human food, displaced	Women, children	Inability to migrate
ENDA ASENGOLA	Animal disease and death	Tarru for 3 months	Loss of clean water and animal death	Children and old people	Poor capacity
GELAISO	Drought, conflict, animal disease		Displacement, famine, animal death	Women, elders, children	Poor capacity
HARIDEN	Drought, animals disease	Tarru for 6 months	Starvation, lack of clean water, animal death	Children and old people	Poor capacity
HIDMO	Drought, flood, pest	5 years	Displacement, economic crisis, decreased man power	Women, children and elders	Poor capacity
WAKERGUBI	Drought, pest, flooding	Drought (shortage of rain fall)	Loss of crop production, displacement, death of animal	All families (children)	Lack of balanced diet



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Selected Indicator:

Hazard Situation During Last Disaster - Characteristics of most recent disasters that affected the community

KebeleName	Types of Disasters	Hazard Description	Effect Of Disaster	Most Severly Affected	Reason
WEIDET	Drought, pest, flooding	Economic crisis	Exposure to diseases, displacement, decreased man power and food shortage	Children, elder	Depend on their families
WESEMA	Drought	Economic crisis	Displacement, famine, animal death	Women, elders, children	Poor capacity
HIDA RURAL	Drought	Highly affected the community in 1995 and 2001	Displacement	All peoples particularly women and children	



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Selected Indicator:

Frequency of Disaster Occurrence

	4 out of 5 years or more	3 out of 5 years	2 out of 5 years	1 out of 5 years	0 DK
Conflicts	25.00	50.00	25.00		
Crop diseases	15.91	31.82	29.55	20.45	2.27
Drought	8.41	33.01	38.83	19.42	0.32
Economic / Price shock	84.78	8.70	4.35	2.17	
Flood		12.70	30.16	57.14	
Forest Fires				100.00	
Frost / Cold waves	100.00				
Human diseases	16.05	43.21	13.58	25.93	1.23
Landslide			33.33	66.67	
Livestock diseases	7.93	13.45	41.03	37.59	
Road Accident	66.67		33.33		
Storms / hail storm			100.00		



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Selected Indicator: **Household Exposure to Hazards**

<u>Disaster Type</u>	<u>General Exposure</u>	<u>Last Five Years Exposure</u>
Drought	34.65	35.50
Livestock diseases	30.29	34.25
Human diseases	13.80	9.93
Economic / Price shock	9.54	7.31
Crop diseases	4.77	5.82
Landslide	0.52	0.34
Conflicts	0.41	0.46
Forest Fires	0.31	0.34
Road Accident	0.21	0.34
Heat waves/ High temp	0.10	0.11
Storms / hail storm	0.10	0.11
Frost / Cold waves	0.10	0.11
Earthquake	0.10	
No Disaster	0.10	



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Selected Indicator:

Months of Occurrence of Frequent Disasters

	A - Sep (Meskerem)	B - Oct (Tikimt)	C - Nov (Hidar)	D - Dec (Tahsas)	E - Jan (Tir)	F - Feb (Yekatit)	G - Mar (Megabit)	H - Apr (Meazea)	I - May (Ginbot)	J - Jun (Sene)	K - Jul (Hamle)	L - Aug (Nehase)
Conflicts								25.00	50.00		25.00	
Crop diseases	11.11							17.78	26.67	26.67	8.89	8.89
Drought	1.01	0.67	1.01	1.34			1.01	16.78	38.93	14.43	0.34	0.67
Economic / Price shock				2.22	8.89		4.44	2.22	26.67	8.89	46.67	
Flood					1.72	1.72	1.72	10.34	6.90	6.90	58.62	12.07
Forest Fires					50.00					50.00		
Frost / Cold waves			100.00									
Heat waves/ High temp										100.00		
Human diseases		5.48	2.74			2.74	9.59	1.37		28.77	16.44	1.37
Landslide							33.33	33.33		33.33		
Livestock diseases	1.74	0.35	0.70		0.35	2.79	6.27	12.20	44.60	20.21	10.10	0.35
Road Accident		100.00										
Storms / hail storm											100.00	



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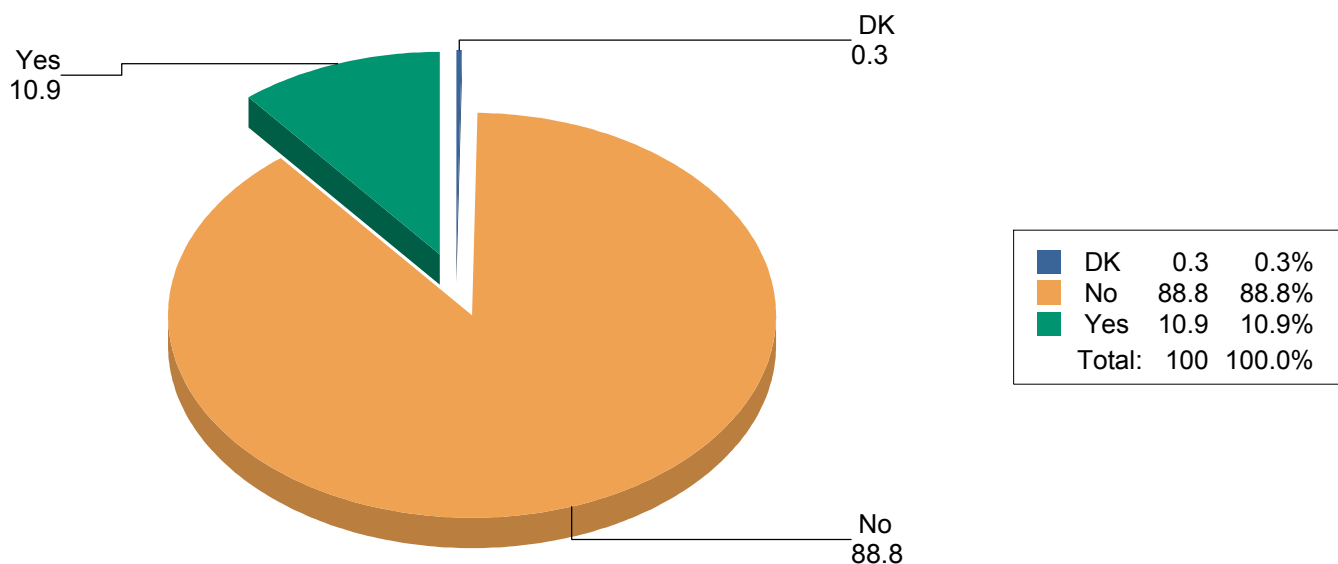
<u>Region</u>	AFAR	<u>Zone</u>	ZONE 2	<u>Wereda</u>	ABALA
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Selected Indicator:

Conflicts: Perception of households on conflict issues - Is conflict an issue in this community?

<u>Is Conflict an Issue in Community?</u>	<u>Response</u>	<u>Percent</u>
Yes		10.92
No		88.80
DK		0.28

Is Conflict an Issue in Community?





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Selected Indicator:

Conflicts: Perception of households on conflict issues - Who To Turn To in case of Conflict?

<u>Who To Turn During Conflict?</u>	<u>Response</u>	<u>Percentage</u>
Family members		13.16
Elders		68.42
Wereda administration		15.79
Police		2.63

Who To Turn During Conflict?

Wereda administration

Police

Family members

Elders	68	68.4%
Family members	13	13.2%
Police	3	2.6%
Wereda administration	16	15.8%
Total:	100	100.0%

Elders
68



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Selected Indicator: Losses from Disasters - Losses from all disasters (household response in %)

<u>Type of Loss</u>	<u>Main Loss Percent</u>	<u>Secondary Loss Percent</u>
Physical damages on houses and property	3.06	2.08
Crop damage	11.34	3.77
Livestock damage	40.38	4.72
Death of household members	1.15	5.28
Illness/health problems	16.31	4.53
Loss of access to social services, including school	0.64	0.57
Loss of income	8.79	38.49
Loss of savings	2.42	13.58
Lost access to grazing land	12.87	12.83
Lost access to water source	1.91	8.68
Had to flee/change residence area	0.51	2.64
Livestock were stolen	0.38	1.70



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Selected Indicator: Losses from Disasters - Main Losses by Type of Disasters (household response in %)

Type of Loss Type of Disasters which mainly caused Listed Losses

	Conflicts	Crop diseases	Drought	Economic / Price shock	Flood	Forest Fires	Frost / Cold waves	Heat waves/ High temp	Human diseases	Landslide	Livestock diseases	Road Accident	Storms / hail storm
Crop damage		35.00	14.14	5.88	32.08						4.48		100.00
Death of household members			0.33								2.61		
Had to flee/change residence area					1.89						0.37		
Illness/health problems	33.33	5.00	6.25	23.53	7.55			100.00	26.87		28.36	100.00	
Livestock damage	33.33	37.50	49.01		18.87		100.00		1.49	100.00	51.12		



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Selected Indicator: Losses from Disasters - Main Losses by Type of Disasters (household response in %)

Type of Loss Type of Disasters which mainly caused Listed Losses

	Conflicts	Crop diseases	Drought	Economic / Price shock	Flood	Forest Fires	Frost / Cold waves	Heat waves/ High temp	Human diseases	Landslide	Livestock diseases	Road Accident	Storms / hail storm
Livestock were stolen											0.75		
Loss of access to social services, including school				11.76					1.49		0.37		
Loss of income		12.50	10.53	5.88	9.43						3.73		
Loss of savings			1.32	23.53	1.89				19.40				
Lost access to grazing land	33.33	7.50	10.53	17.65	5.66				47.76		4.48		



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Selected Indicator:

Losses from Disasters - Main Losses by Type of Disasters (household response in %)

Type of Loss	Type of Disasters which mainly caused Listed Losses												
	Conflicts	Crop diseases	Drought	Economic / Price shock	Flood	Forest Fires	Frost / Cold waves	Heat waves/ High temp	Human diseases	Landslide	Livestock diseases	Road Accident	Storms / hail storm
Lost access to water source			3.95										
Physical damages on houses and property		2.50	3.29		20.75	100.00					0.37		



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Selected Indicator:

Losses from Disasters - Secondary Losses by Type of Disasters (household response in %)

Type of Loss

Type of Disasters which caused Listed Secondary Losses

	Conflicts	Crop diseases	Drought	Economic / Price shock	Flood	Forest Fires	Human diseases	Landslide	Livestock diseases	Road Accident	Storms / hail storm
Crop damage			6.28		4.17	100.00			1.70		
Death of household members			11.72								
Had to flee/change residence area			4.60		8.33				0.57		
Illness/health problems			7.53		4.17				2.84		
Livestock damage			4.60						7.39		



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Wereda ABALA

Selected Indicator:

Losses from Disasters - Secondary Losses by Type of Disasters (household response in %)

Type of Loss

Type of Disasters which caused Listed Secondary Losses

	Conflicts	Crop diseases	Drought	Economic / Price shock	Flood	Forest Fires	Human diseases	Landslide	Livestock diseases	Road Accident	Storms / hail storm
Livestock were stolen			0.84	6.90			2.86				
Loss of access to social services, including school			0.84						0.57		
Loss of income		61.11	36.82		29.17		2.86	50.00	53.98		100.00
Loss of savings		11.11	8.79		29.17		80.00		7.95		
Lost access to grazing land	100.00	11.11	12.13		12.50		8.57		16.48	100.00	



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Wereda ABALA

Selected Indicator:

Losses from Disasters - Secondary Losses by Type of Disasters (household response in %)

Type of Loss

Type of Disasters which caused Listed Secondary Losses

	Conflicts	Crop diseases	Drought	Economic / Price shock	Flood	Forest Fires	Human diseases	Landslide	Livestock diseases	Road Accident	Storms / hail storm
Lost access to water source			2.93	93.10	4.17		2.86		3.98		
Physical damages on houses and property		5.56	2.09				2.86	50.00	1.70		



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Selected Indicator: Seasonal Calendar for Hazards, Activities and Income Level By Kebele

Month of Hazard	Major Problems /Disasters	Hazard Severity Rank	Agricultural Activities	Income Level Rank
Kebele Name ADEKELO				
E - Jan (Tir)	No agricultural activities	-----		-----
F - Feb (Yekatit)	Decreased livestock productivity	-----		-----
G - Mar (Megabit)	No grazing land	-----		-----
H - Apr (Meazea)	Conflict, due to grazing lands	3		-----
I - May (Ginbot)	Lack of water sources (rain fall)	2		-----
J - Jun (Sene)	Long distance to reach food	1		-----

Kebele Name ADI HARMELE				
E - Jan (Tir)		-----	Livestock activity	-----
F - Feb (Yekatit)		-----	Livestock activity	-----
F - Feb (Yekatit)		-----	Livestock activity	1st
H - Apr (Meazea)		-----	Ploughing, livestock	1st
I - May (Ginbot)		-----	Ploughing, sowing	7th

NOTE: Hazard Severity Rank helps prioritize the more severe hazards that have occurred in the months of disaster occurrence, 3 being the worst and 1 the least severe hazards.



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<u>Region</u>	AFAR	<u>Zone</u>	ZONE 2	<u>Wereda</u>	ABALA
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Selected Indicator: Seasonal Calendar for Hazards, Activities and Income Level By Kebele

<u>Month of Hazard</u>	<u>Major Problems /Disasters</u>	<u>Hazard Severity Rank</u>	<u>Agricultural Activities</u>	<u>Income Level Rank</u>
J - Jun (Sene)		-----	Ploughing, sowing	6th
K - Jul (Hamle)		-----	Ploughing, weeding	5th
L - Aug (Nehase)		-----	Sawing, weeding	4th
A - Sep (Meskerem)		-----	Sawing, weeding	3rd
B - Oct (Tikimt)		-----	Harvesting	2nd
D - Dec (Tahsas)		-----	Harvesting	1st

<u>Kebele Name</u>	ASENGOSA			
E - Jan (Tir)	Water problem	2	Livestock activity	4th
F - Feb (Yekatit)	Water problem	2	Livestock activity	5th
G - Mar (Megabit)	Drought, water problem	3	Livestock activity	6th
H - Apr (Meazea)	Drought, water problem	3	Ploughing, livestock activity	11th
I - May (Ginbot)	Drought, water problem, animal disease	3	Ploughing, sowing, livestock activity	7th
J - Jun (Sene)	Drought, water problem, animal disease	3	Ploughing, sowing, livestock activity	8th

NOTE: Hazard Severity Rank helps prioritize the more severe hazards that have occurred in the months of disaster occurrence, 3 being the worst and 1 the least severe hazards.



Wereda Disaster Risk Profile

National Disaster Risk Management Commission (NDRMC)



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Selected Indicator: Seasonal Calendar for Hazards, Activities and Income Level By Kebele

<u>Month of Hazard</u>	<u>Major Problems /Disasters</u>	<u>Hazard Severity Rank</u>	<u>Agricultural Activities</u>	<u>Income Level Rank</u>
K - Jul (Hamle)	Animal disease, flooding	2	Sowing, ploughing, livestock activity	9th
L - Aug (Nehase)	Animal disease, flooding	3	Sowing, livestock activity	10th
A - Sep (Meskerem)	Flooding, animal disease	1	Sowing, livestock activity	3rd
B - Oct (Tikimt)	Animal disease	1	Harvesting, livestock activity	2nd
C - Nov (Hidar)		-----	Harvesting, livestock activity	1st
D - Dec (Tahsas)		-----	Livestock activity	12th

Kebele Name ENDA ASENGOLA

F - Feb (Yekatit)		1		-----
H - Apr (Meazea)		2		-----
I - May (Ginbot)		3		-----

Kebele Name GELAISO

E - Jan (Tir)		-----	No farm	-----
G - Mar (Megabit)	Drought	1		-----

NOTE: Hazard Severity Rank helps prioritize the more severe hazards that have occurred in the months of disaster occurrence, 3 being the worst and 1 the least severe hazards.



Wereda Disaster Risk Profile

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Zone ZONE 2

Wereda ABALA

Selected Indicator: Seasonal Calendar for Hazards, Activities and Income Level By Kebele

<u>Month of Hazard</u>	<u>Major Problems /Disasters</u>	<u>Hazard Severity Rank</u>	<u>Agricultural Activities</u>	<u>Income Level Rank</u>
H - Apr (Meazea)	Drought	2		-----
I - May (Ginbot)	Drought, animal disease, conflict	3		-----
J - Jun (Sene)	Drought, animal disease, conflict	3		-----
K - Jul (Hamle)	Animal disease	1		-----
L - Aug (Nehase)	Animal disease	2		-----
<u>Kebele Name</u> HARIDEN				
G - Mar (Megabit)		3		-----
H - Apr (Meazea)		2		-----
I - May (Ginbot)		1		-----
L - Aug (Nehase)	Sowing, weeding	1	Ploughing, sowing	5th
A - Sep (Meskerem)	Pesticide	2	Weeding, Ploughing	4th
B - Oct (Tikimt)	Harvesting	3	Weeding, harvesting	3rd
C - Nov (Hidar)	Harvesting	3	Harvesting	3rd

NOTE: Hazard Severity Rank helps prioritize the more severe hazards that have occurred in the months of disaster occurrence, 3 being the worst and 1 the least severe hazards.



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Selected Indicator: Seasonal Calendar for Hazards, Activities and Income Level By Kebele

<u>Month of Hazard</u>	<u>Major Problems /Disasters</u>	<u>Hazard Severity Rank</u>	<u>Agricultural Activities</u>	<u>Income Level Rank</u>
D - Dec (Tahsas)		-----	Harvesting	2nd
<u>Kebele Name</u> HIDA RURAL				
E - Jan (Tir)	Animal disease	1	Livestock activities	12th
F - Feb (Yekatit)	Animal disease, human disease	3	Livestock activities	11th
G - Mar (Megabit)		-----	Ploughing	10th
H - Apr (Meazea)	Drought	3	Sowing	9th
I - May (Ginbot)	Drought	3	Ploughing	8th
J - Jun (Sene)	Human disease	2	Ploughing, sowing, weeding	7th
K - Jul (Hamle)		-----	Ploughing, sowing, weeding	6th
L - Aug (Nehase)	Pest, flood, animal disease	3	Thinning	5th
A - Sep (Meskerem)	Plant disease, flood	2	Weeding	4th
B - Oct (Tikimt)		-----	Harvesting	3rd
C - Nov (Hidar)	Human disease	1	Harvesting	1st

NOTE: Hazard Severity Rank helps prioritize the more severe hazards that have occurred in the months of disaster occurrence, 3 being the worst and 1 the least severe hazards.



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Selected Indicator: Seasonal Calendar for Hazards, Activities and Income Level By Kebele

<u>Month of Hazard</u>	<u>Major Problems /Disasters</u>	<u>Hazard Severity Rank</u>	<u>Agricultural Activities</u>	<u>Income Level Rank</u>
D - Dec (Tahsas)		-----		2nd

<u>Kebele Name</u>	HIDMO			
H - Apr (Meazea)	Diversion, Ploughing	3	Ploughing	9th
I - May (Ginbot)	Diversion, Ploughing, sowing	3	Ploughing, sowing	8th
J - Jun (Sene)	Ploughing, sowing	2	Ploughing, sowing	7th
K - Jul (Hamle)	Ploughing, weeding	1	Ploughing, sowing	6th

<u>Kebele Name</u>	WAKERGUBI			
H - Apr (Meazea)		-----	Ploughing, sowing	3rd
I - May (Ginbot)	Drought	3	Ploughing, sowing	3rd
J - Jun (Sene)	Drought	2	Ploughing, sowing, Weeding	3rd
K - Jul (Hamle)	Pest	3	Sowing, weeding	2nd
L - Aug (Nehase)	Pest, flooding	3	Weeding	2nd
A - Sep (Meskerem)	Animal disease	2	Ploughing, sowing	2nd

NOTE: Hazard Severity Rank helps prioritize the more severe hazards that have occurred in the months of disaster occurrence, 3 being the worst and 1 the least severe hazards.



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Zone ZONE 2

Wereda ABALA

Selected Indicator: Seasonal Calendar for Hazards, Activities and Income Level By Kebele

<u>Month of Hazard</u>	<u>Major Problems /Disasters</u>	<u>Hazard Severity Rank</u>	<u>Agricultural Activities</u>	<u>Income Level Rank</u>
B - Oct (Tikimt)	Animal disease	3	Harvesting	1st
D - Dec (Tahsas)		-----	Harvesting	1st
<u>Kebele Name</u> WEIDET				
G - Mar (Megabit)	Drought, animal disease	1		-----
H - Apr (Meazea)	Drought, animal disease	2	Ploughing	9th
I - May (Ginbot)	Drought, flooding, pest	3	Ploughing, sowing,	7th
J - Jun (Sene)	Flooding, animal disease, pest	2	Ploughing, sowing	7th
K - Jul (Hamle)	Pest	3	Ploughing, sowing, weeding	6th
L - Aug (Nehase)	Crop disaster by animal	2	Sowing, weeding	5th
A - Sep (Meskerem)		-----	Weeding	4th
B - Oct (Tikimt)		-----	Harvesting	3rd
C - Nov (Hidar)		-----	Harvesting	2nd
D - Dec (Tahsas)		-----	Harvesting	1st

NOTE: Hazard Severity Rank helps prioritize the more severe hazards that have occurred in the months of disaster occurrence, 3 being the worst and 1 the least severe hazards.



Wereda Disaster Risk Profile

National Disaster Risk Management Commission (NDRMC)



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Selected Indicator: Seasonal Calendar for Hazards, Activities and Income Level By Kebele

<u>Month of Hazard</u>	<u>Major Problems /Disasters</u>	<u>Hazard Severity Rank</u>	<u>Agricultural Activities</u>	<u>Income Level Rank</u>
<u>Kebele Name</u>	WESEMA			
E - Jan (Tir)	Disease (pasteurolosis, CCPP)	-----	No agricultural activities	-----
F - Feb (Yekatit)	Livestock productivity decreased	-----		-----
G - Mar (Megabit)	No grazing land	-----		-----
H - Apr (Meazea)	Conflict due to grazing land	-----		-----
I - May (Ginbot)	Long distance reach feed	-----		-----

NOTE: Hazard Severity Rank helps prioritize the more severe hazards that have occurred in the months of disaster occurrence, 3 being the worst and 1 the least severe hazards.

WDRP Indicators

Infrastructure Access Characteristics



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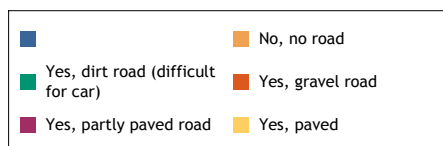
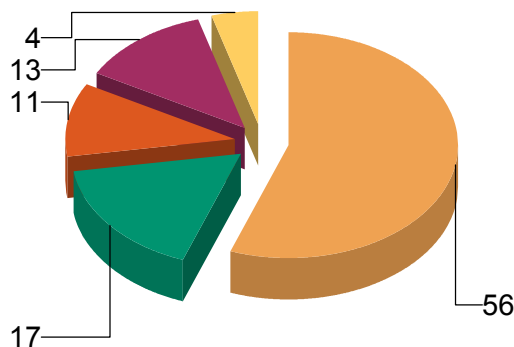
<u>Region</u>	AFAR	<u>Zone</u>	ZONE 2	<u>Wereda</u>	ABALA
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Selected Indicator

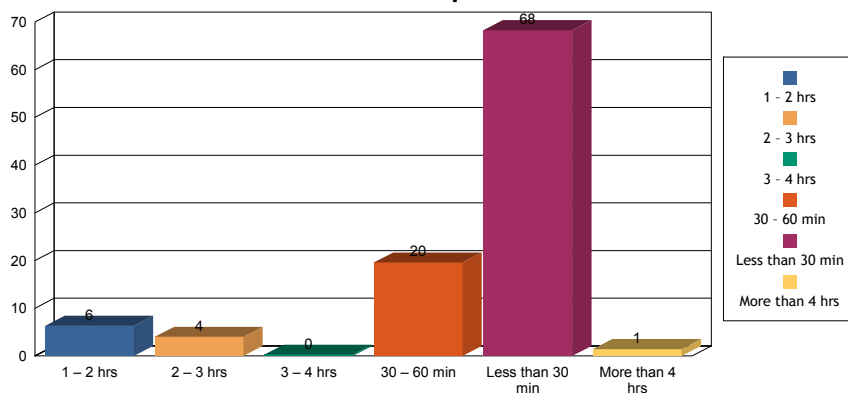
Physical Vulnerability: Access to Roads & Urban Centres - Households access to road and urban centre

<u>Type of Road</u>	<u>Response</u>	<u>Time to Nearest Paved Road (Mins.)</u>	<u>Response</u>	<u>Time To Nearest Urban Center (Mins.)</u>	<u>Response</u>
Yes, paved	4.39	Less than 30 min	68.30	Less than 1 hr	22.45
Yes, partly paved road	12.57	30 - 60 min	19.60	1 - 2 hrs	10.61
Yes, gravel road	10.53	1 - 2 hrs	6.34	2 - 4 hrs	19.59
Yes, dirt road (difficult for car)	16.96	2 - 3 hrs	4.03	4 - 6 hrs	17.96
No, no road	55.56	3 - 4 hrs	0.29	More than 6 hrs	29.39
	0.00	More than 4 hrs	1.44		0.00
<u>Avg Time To Nearest Urban Center(Mins.)</u>		290.00	<u>Avg Time To Nearest Paved Road</u>	40.00	

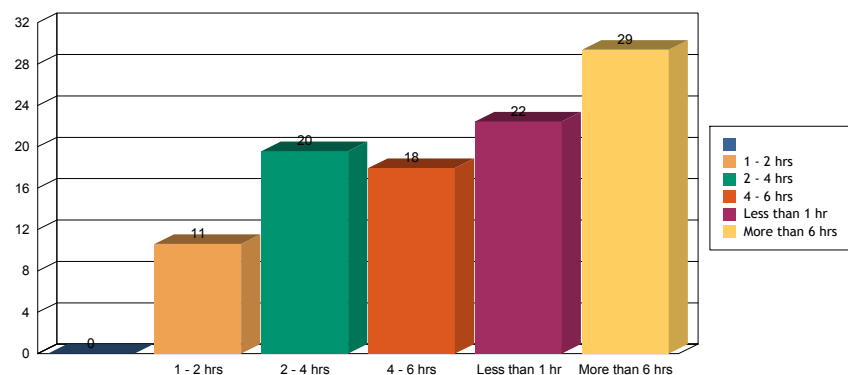
Type of Road



Time to reach the nearest paved road from the HH



Time to reach nearest urban center from the HH





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Selected Indicator

Physical Vulnerability: Access to Electricity - Households access and utilization of electricity

Household Located In Electricity 4.20

Household Connected To Electricity 2.50



Data Collected Date

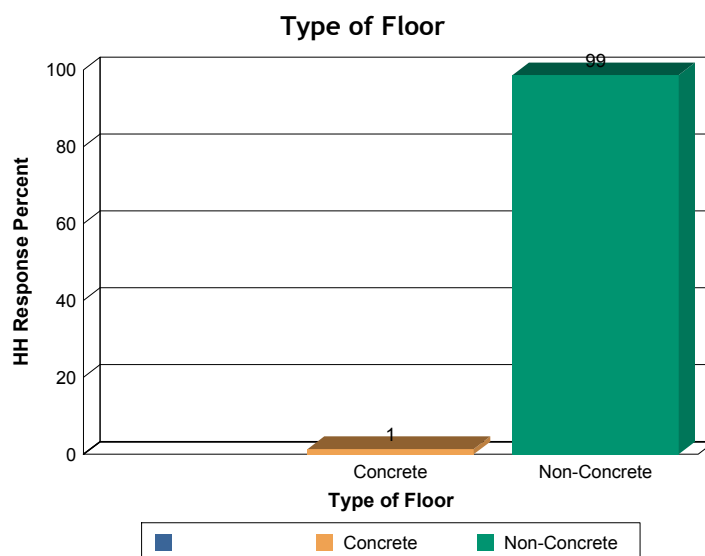
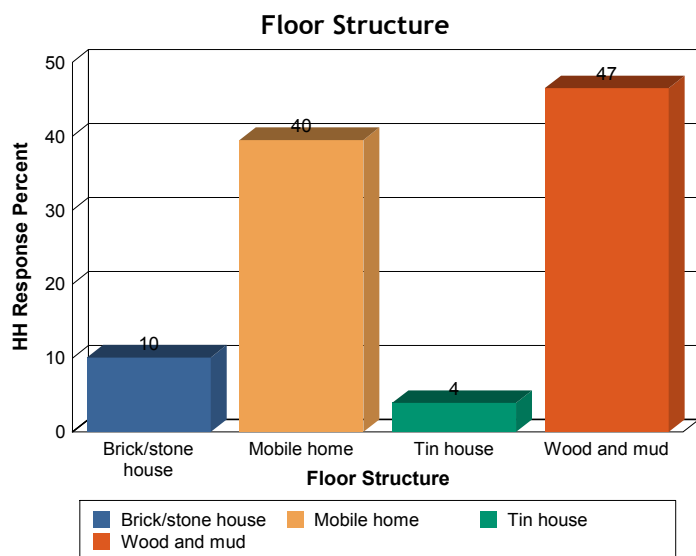
Wednesday, March 3, 2021

Region	AFAR	Zone	ZONE 2	Wereda	ABALA
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Selected Indicator

Physical Vulnerability: Type of Dwelling Units - Households type of dwelling houses

Floor Structure	HH Response	Type of Floor	HH Response
Wood and mud	46.50	Non-Concrete	98.60
Tin house	3.92	Concrete	1.40
Brick/stone house	10.08		
Mobile home	39.50		



WDRP Indicators

Socio Demographic Characteristics



Wereda Disaster Risk Profile

National Disaster Risk Management Commission (NDRMC)



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Selected Indicator

Economic Vulnerability: Level of Migration - Migration level and its characteristics by Kebele

Kebele Name	Approx. No.	Age Group	Sex	Migration Period	Migration Trend	Migration Reason	Destination
HIDA RURAL	40	25 - 40	Male		Increased	Job opportunities, economic hardship, grazing land	Djibouti, Afdera, Tigray, Arab countries, Berhaile (to collect salt)
WEIDET	150	20 - 40 age	Male and f		Increased	Job opportunities, economic hardship	Sudan, Humera, South Africa, Afdera
GELAIISO	250	All	Male and f		Decreased	Job opportunity, conflict, economic hard ship	Tigray region, Saudi Arabia, Aballa
WESEMA	80	Young people	Male		Increased	Economic hard ship, no other opportunity	Saudi Arabia
ADEKELO	80	Young people	Male and f		Increased	Economic hard ship and no other opportunity	Saudi Arabia, Berhaile
ASENGOSA	100	Youth, elder	Male		Increased	Job opportunity, economic hardship	Saudi Arabia, Djibouti
HIDMO	100	20 - 40	Male and f		Increased	Job opportunities, loss of asset, economic hardship	Saudi Arabia, Afdera, Erebitc
ADI HARMELE	150	20 - 40	Male		Increased	Loss of assets, lack of pasture, Job opportunity, economic hardship	Saudi Arabia, Terru, Djibuti, Tigray
WAKERGUBI	1500	18 - 35	Male		Decreased	Job opportunities, economic hardship, grazing land	Terru, Saudi Arabia



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Selected Indicator

Economic Vulnerability: Level of Migration - Migration level and its characteristics by Kebele

Kebele Name	Approx. No.	Age Group	Sex	Migration Period	Migration Trend	Migration Reason	Destination
ENDA ASENGOLA	75	18 - 30	Male		Decreased	Job opportunities, economic hardship, grazing land	Saudi Arabia and Nearest place example Afdera wereda
HARIDEN	785	25-40	Male		Decreased	Job opportunities, economic hardship, grazing land	To Afdera, Erabti and outside Ethiopia such as Saudi Arabia



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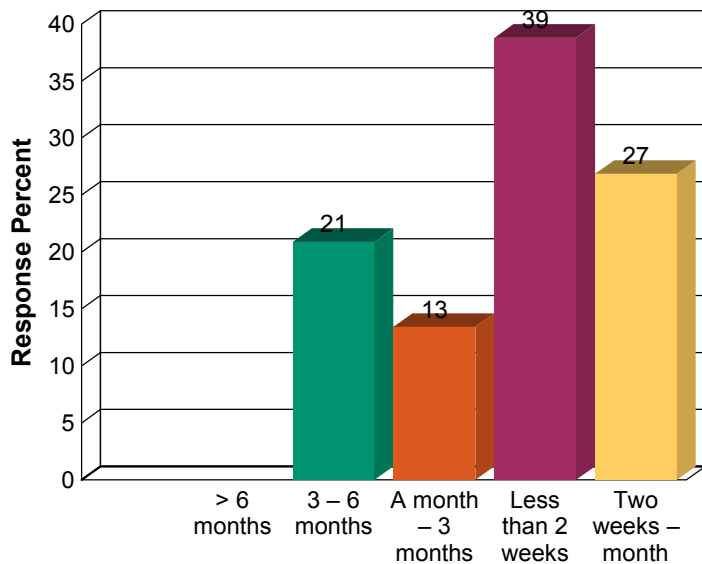
Selected Indicator

Economic Vulnerability: Household Migration - Household migration and reason for migration

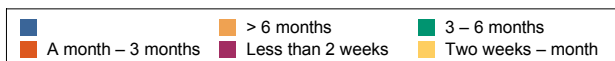
Households who migrated (%)	0.00
-----------------------------	------

Duration of Migration	Response Percent	Migration Reason	Response Percent
Two weeks - month	26.87	Looking for work	10.14
A month - 3 months	13.43	Working elsewhere	2.17
3 - 6 months	20.90	In grazing camp	40.58
> 6 months		Away at school	2.17
Less than 2 weeks	38.81	Family reasons	30.43

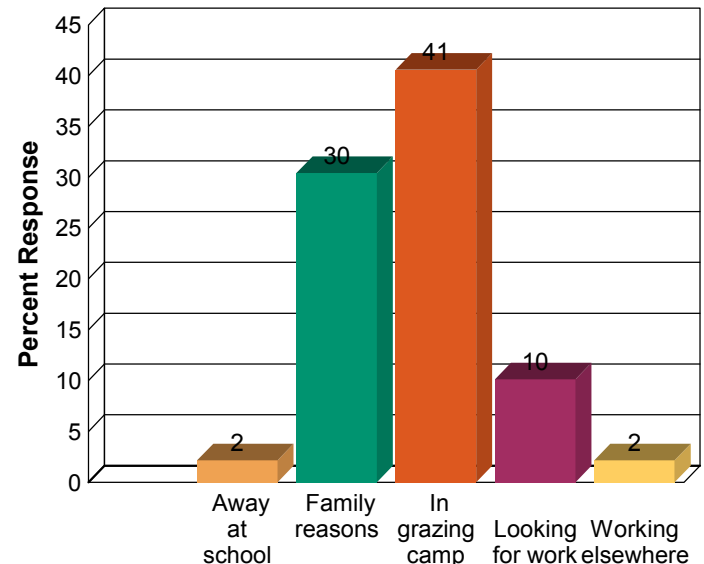
Duration of Migration



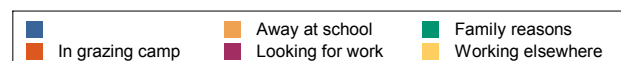
Duration of Migration



Migration Reason



Migration Reason





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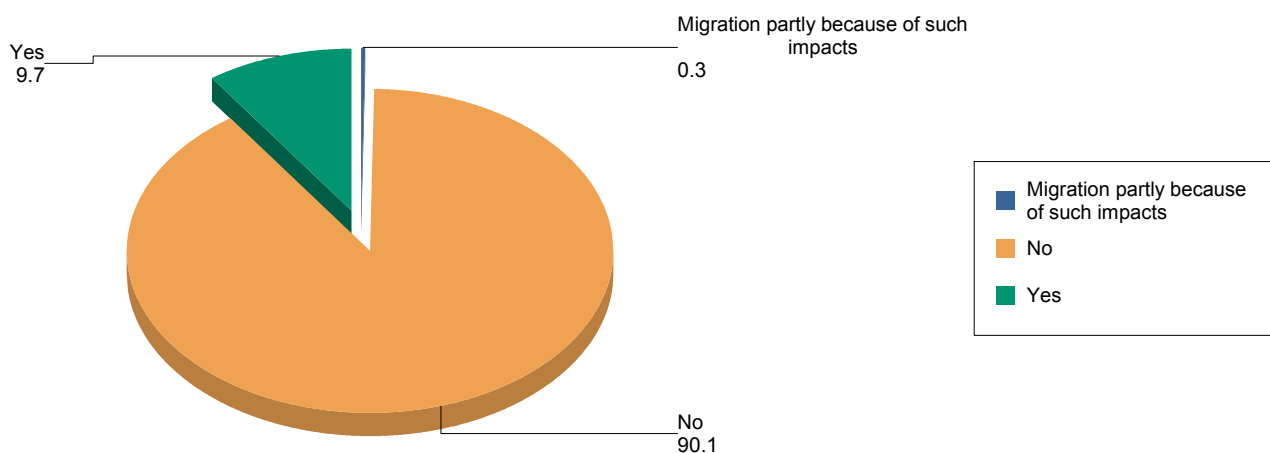
Selected Indicator

Economic Vulnerability: Household Migration - Disasters as a triggering factor for migration (households response in %)

<u>Is Migration Due to Hazard?</u>	<u>HH Response - Due To Hazard</u>
------------------------------------	------------------------------------

No	90.06
Yes	9.66
Migration partly because of such impacts	0.28

Is Migration Due to Hazard?





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Selected Indicator:

Demography: Population Structure

KEY:

Male

Female

	A-Children (0-12 yrs)	B-Youth (12-25 yrs)	C-Working (25-55 yrs)	D-Older (Above 55)
ADEKELO	60 40	40 60	55 45	65 35
ADI HARMELE	40 60	60 40	65 35	70 30
ASENGOSA	50 50	40 60	60 40	75 25
GELAISO	60 40	50 50	35 65	70 30
HIDA RURAL	3 2	40 25	20 5	3 2
HIDMO	40 60	60 40	55 45	35 65
WEIDET	40 60	35 65	35 65	50 50



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Selected Indicator

Demography: Population Trends and Ethnic Groups

<u>Kebele Name</u>	<u>Population Change Trend</u>	<u>Population Change Reasons</u>	<u>Ethnic Groups</u>
HIDA RURAL	Increased	Large local families	
WEIDET	Increased	More children, immigration	
GELAISO	Increased	More children	
WESEMA	Remains the same		
ADEKELO	Remains the same		
ASENGOSA	Increased	More children, immigration	
HIDMO	Increased	More children, immigration	
ADI HARMELE	Increased	More children	
WAKERGUBI	Increased	More children, in migration	
ENDA ASENGOLA	Increased		
HARIDEN	Increased	Large local families	



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Selected Indicator

Social Vulnerability: Household Demographic Characteristics - Demographic characteristics of households

<u>Demographic Indicator</u>	<u>Indicator Value</u>	<u>Comments</u>
------------------------------	------------------------	-----------------

Average household size

7.5

Sex ratio

871.0

Number of females per 1000 males

Child sex ratio (under 14 yrs)

900.0

Number of females per 1000 males

Adult sex ratio (18 & Above yrs)

845.0

Number of females per 1000 males

Dependency ratio $\left(\frac{[(0-14)+(64+)]}{(15-64)} \right)$ yrs)

1.1



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Region	AFAR	Zone	ZONE 2	Wereda	ABALA
Selected Indicator					
Social Vulnerability: Level of Educational Attainment - Education status of household members					
General Awareness		Percentage	Educational Level		Percentage
Read and understand text - Easily		10.10	From Proportion of population (7+) - Less than 1st grade		61.67
Read and understand text - with difficulty		13.70	From Proportion of population (7+) - Primary (1-6)		29.85
Can write letters - easily		8.40	From Proportion of population (7+) - Secondary (7-12)		8.24
Can write letters - with difficulty		10.50	From Proportion of population (7+) - Technical		0.28
			From Proportion of population (7+) - Pursuing or completed University		0.09
General Literacy Rate		Percentage	Adult Literacy Rate		Percentage
Proportion of literate population (7+) to total 7+ population		13.80	Proportion of literate population (15+) to total 15+ population		9.80



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Selected Indicator

Social Vulnerability: Gender Parity - Gender parity in education level (7+ years) and household heading

<u>Educational Level</u>		<u>Male Percent</u>	<u>Female Percent</u>
From Proportion of population (7+) - Less than 1st grade		50.78	49.22
From Proportion of population (7+) - Primary (1-6)		57.89	42.11
From Proportion of population (7+) - Secondary (7-12)		69.85	30.15
From Proportion of population (7+) - Technical		66.67	33.33
From Proportion of population (7+) - Pursuing or completed University		100.00	0.00
Male Head of HH	87.90	Female Head of HH	12.10

WDRP Indicators

Environmental Characteristics



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Region AFAR Zone ZONE 2 Wereda ABALA

Selected Indicator

Environmental Situation: Environmental Problems - Major environmental problems by Kebele

<u>KebeleName</u>	<u>Problem_1</u>	<u>Problem_2</u>	<u>Problem_3</u>	<u>Problem4</u>
HIDA RURAL	Soil erosion	Pests	Deforestation	Drought
WEIDET	Soil erosion	Gully formation	Pests	Deforestation
GELAISO	Soil erosion	Temperature		
ASENGOSA	Soil erosion	Deforestation	Pests	
HIDMO	Soil erosion	Pests	Deforestation	
ADI HARMELE	Soil erosion	Gully formation	Deforestation	
WAKERGUBI	Soil erosion	Pests	Deforestation	



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Wereda ABALA

Selected Indicator

**Environmental Situation: General Land Quality - Perceptions of the community
on changes in the general quality of land over a decade**

<u>KebeleName</u>	<u>Current Situation</u>	<u>Change Last Decade</u>	<u>Comment</u>
HIDA RURAL	Low	Decrease	Soil erosion by flooding
WESEMA	Medium	Good	
ADEKELO	Medium	Good	
HIDMO	Agricultural land	Decreased	Soil erosion by flooding
ADI HARMELE	Decrease	Decrease	Soil erosion by flooding
ENDA ASENGOLA	Good	No	
HARIDEN	Good	No	



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Selected Indicator

Environmental Situation: Changes in Landscape - Changes observed by the community on landscape and the problems due to the changes

<u>KebeleName</u>	<u>Changes_Observed</u>	<u>Problems_Due_To_Changes</u>
HIDA RURAL	Land used	High flooding, increasing agricultural land, increasing population
WEIDET	Soil erosion and gully formation	Low production
GELAIISO	Land cover	Deforestation, soil erosion
WESEMA	Medium	
ADEKELO	Medium	
ASENGOSA	Soil erosion and deforestation	Decrease of farming land and grazing land, decrease of rain fall and animal feed
HIDMO	Land use	Flooding, decrease of ploughing materials, low rain fall
ADI HARMELE	Land use	Increased population
WAKERGUBI	Land use	Increased population
ENDA ASENGOLA	No	
HARIDEN	No	



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Selected Indicator

Environmental Situation: Land-Use other than crop production - Types of land use other than crop production across Kebeles

Kebele Name	Landuse_1	Comments_1	Landuse_2	Comments_2	Landuse_3	Comments_3
HIDA RURAL	No	No				
WEIDET	Cultivated land				2500	
GELAISO	Grazing land	180				
WESEMA	Forest /No deforestation					
ADEKELO	Forest /No deforestation					
ASENGOSA	Grazing land	For grazing land /1500 ha/	Forest	500		
HIDMO	Grazing land					
ADI HARMELE	Grazing land	Decrease				
WAKERGUBI	No					
HARIDEN	Grazing land	Small	Honey production	Small		



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<u>Region</u>	AFAR	<u>Zone</u>	ZONE 2	<u>Wereda</u>	ABALA
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Selected Indicator

Environmental Situation: Deforestation - Observed changes over levels of deforestation by the community and its problems

<u>KebeleName</u>	<u>Changes_Observed</u>	<u>Problems_Due_To_Changes</u>
HIDA RURAL	Highly deforestation	
WEIDET	High deforestation	Drought, low moisture
GELAISO	Increased	Fire wood, increased people
WESEMA	No deforestation	There is problem of planting seedling due to lack of water
ADEKELO	No deforestation	There is problem of planting seedling due to lack of water
ASENGOSA	Increased	High soil erosion, decreased animal feed
HIDMO	Decrease	Afforestation for selling of fire wood and house construct
ADI HARMELE	Increase	Increased desert
WAKERGUBI	High	Income, wood for house construction
ENDA ASENGOLA	No	
HARIDEN	No	



Wereda Disaster Risk Profile

National Disaster Risk Management Commission (NDRMC)



Data Collected Date

Wednesday, March 3, 2021

<u>Region</u>	AFAR	<u>Zone</u>	ZONE 2	<u>Wereda</u>	ABALA
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Selected Indicator

Environmental Situation: Natural Resources Availability - Natural resources available and changes observed by the community

<u>KebeleName</u>	ADEKELO
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<u>Resources_1</u>	Trees and bushing	<u>Resources_3</u>	
<u>Observed_Change_1</u>	Decreased	<u>Observed_Change_3</u>	
<u>Problems_Changes_1</u>	Decreased	<u>Problems_Changes_3</u>	
<u>Resources_2</u>	Land	<u>Resources_4</u>	
<u>Observed_Change_2</u>	No change	<u>Observed_Change_4</u>	
<u>Problems_Changes_2</u>	Problem for agriculture	<u>Problems_Changes_4</u>	

<u>KebeleName</u>	ADI HARMELE
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<u>Resources_1</u>	Land	<u>Resources_3</u>	Forest
<u>Observed_Change_1</u>	Decreased	<u>Observed_Change_3</u>	Decreased
<u>Problems_Changes_1</u>	Erosion by flooding	<u>Problems_Changes_3</u>	Deforestation
<u>Resources_2</u>	Water	<u>Resources_4</u>	
<u>Observed_Change_2</u>	Decreased	<u>Observed_Change_4</u>	
<u>Problems_Changes_2</u>	Low rain fall	<u>Problems_Changes_4</u>	

<u>KebeleName</u>	ASENGOSA
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Selected Indicator

Environmental Situation: Natural Resources Availability - Natural resources available and changes observed by the community

<u>Resources_1</u>	Land	<u>Resources_3</u>
<u>Observed_Change_1</u>	Decreased	<u>Observed_Change_3</u>
<u>Problems_Changes_1</u>	Erosion by flooding	<u>Problems_Changes_3</u>
<u>Resources_2</u>	Forest	<u>Resources_4</u>
<u>Observed_Change_2</u>	Decreased	<u>Observed_Change_4</u>
<u>Problems_Changes_2</u>	Deforestation	<u>Problems_Changes_4</u>

KebeleName ENDA ASENGOLA

<u>Resources_1</u>	Land	<u>Resources_3</u>
<u>Observed_Change_1</u>	No	<u>Observed_Change_3</u>
<u>Problems_Changes_1</u>	No	<u>Problems_Changes_3</u>
<u>Resources_2</u>	Animal	<u>Resources_4</u>
<u>Observed_Change_2</u>		<u>Observed_Change_4</u>
<u>Problems_Changes_2</u>		<u>Problems_Changes_4</u>

KebeleName GELAISO



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Selected Indicator

Environmental Situation: Natural Resources Availability - Natural resources available and changes observed by the community

<u>Resources_1</u>	Land	<u>Resources_3</u>
<u>Observed_Change_1</u>	No	<u>Observed_Change_3</u>
<u>Problems_Changes_1</u>		<u>Problems_Changes_3</u>
<u>Resources_2</u>	Forest	<u>Resources_4</u>
<u>Observed_Change_2</u>	Yes	<u>Observed_Change_4</u>
<u>Problems_Changes_2</u>	Deforestation	<u>Problems_Changes_4</u>

KebeleName HARIDEN

<u>Resources_1</u>	Land	<u>Resources_3</u>
<u>Observed_Change_1</u>	No	<u>Observed_Change_3</u>
<u>Problems_Changes_1</u>	No	<u>Problems_Changes_3</u>
<u>Resources_2</u>		<u>Resources_4</u>
<u>Observed_Change_2</u>		<u>Observed_Change_4</u>
<u>Problems_Changes_2</u>		<u>Problems_Changes_4</u>

KebeleName HIDA RURAL



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Region	AFAR	Zone	ZONE 2	Wereda	ABALA
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Selected Indicator

Environmental Situation: Natural Resources Availability - Natural resources available and changes observed by the community

Resources_1 Land Resources_3 Forest

Observed_Change_1 Low Observed_Change_3 Low

Problems_Changes_1 Erosion by flooding Problems_Changes_3

Resources_2 Labour man Resources_4

Observed_Change_2 Low Observed_Change_4

Problems_Changes_2 Displacement /migration/ Problems_Changes_4

KebeleName HIDMO

Resources_1 Land Resources_3

Observed_Change_1 Decreased Observed_Change_3

Problems_Changes_1 Erosion by flooding Problems_Changes_3

Resources_2 Forest Resources_4

Observed_Change_2 Deforestation Observed_Change_4

Problems_Changes_2 External income Problems_Changes_4

KebeleName WAKERGUBI



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Region	AFAR	Zone	ZONE 2	Wereda	ABALA
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Selected Indicator

Environmental Situation: Natural Resources Availability - Natural resources available and changes observed by the community

<u>Resources_1</u>	Land	<u>Resources_3</u>
<u>Observed_Change_1</u>	Decreased	<u>Observed_Change_3</u>
<u>Problems_Changes_1</u>	Erosion by flooding	<u>Problems_Changes_3</u>
<u>Resources_2</u>	Water	<u>Resources_4</u>
<u>Observed_Change_2</u>	No change	<u>Observed_Change_4</u>
<u>Problems_Changes_2</u>		<u>Problems_Changes_4</u>

<u>KebeleName</u>	WEIDET
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<u>Resources_1</u>	Land	<u>Resources_3</u>
<u>Observed_Change_1</u>	Decreased	<u>Observed_Change_3</u>
<u>Problems_Changes_1</u>	Erosion by flooding	<u>Problems_Changes_3</u>
<u>Resources_2</u>		<u>Resources_4</u>
<u>Observed_Change_2</u>		<u>Observed_Change_4</u>
<u>Problems_Changes_2</u>		<u>Problems_Changes_4</u>

<u>KebeleName</u>	WESEMA
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Selected Indicator

Environmental Situation: Natural Resources Availability - Natural resources available and changes observed by the community

<u>Resources_1</u>	Trees and bushing	<u>Resources_3</u>
<u>Observed_Change_1</u>	Decreased	<u>Observed_Change_3</u>
<u>Problems_Changes_1</u>	Decreased	<u>Problems_Changes_3</u>
<u>Resources_2</u>	Land	<u>Resources_4</u>
<u>Observed_Change_2</u>	No change	<u>Observed_Change_4</u>
<u>Problems_Changes_2</u>	Problem for agriculture	<u>Problems_Changes_4</u>



Wereda Disaster Risk Profile

National Disaster Risk Management Commission (NDRMC)



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Region	AFAR	Zone	ZONE 2	Wereda	ABALA
Selected Indicator	Environmental Situation: Rainfall & Temperature - Observed changes on rainfall and temperature by the community over the last decade				
Kebele Name	Rainfall		Temperature		
	Changes Observed	Problems	Changes Observed	Problems	
HIDA RURAL	Low	Deforestation, climate change	Increased	Deforestation, climate change	
WEIDET	Decrease	Low production, food shortage and animal death	Increased	Shortage of moisture, animal disease	
GELAISO	Decrease		Increased		
WESEMA	Low (even no rain fall throughout the year)	Effect on crop production	Increased	Desertification	
ADEKELO	Low (even no rain fall though out the year)	Effect on crop production	Increased	Desertification	
ASENGOSA	Decrease	Low production	Increased		
HIDMO	Decrease	Low production	Increased	Shortage of water	
ADI HARMELE	Decrease	Low production, low grazing land, animal death	Increased	High evaporation	
WAKERGUBI	Low		Increased	Climate change	
ENDA ASENGOLA	Below normal	Drought	Increased	Decreasing amount of clean water	
HARIDEN	Below normal	Drought	Increased	Decreasing amount of clean water	



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<u>Region</u>	AFAR	<u>Zone</u>	ZONE 2	<u>Wereda</u>	ABALA
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Selected Indicator

Environmental Situation: Reasons for Environmental Changes

<u>KebeleName</u>	<u>Reason For Environmental Changes</u>
HIDA RURAL	Deforestation
WEIDET	Deforestation, no terracing
WESEMA	Due to low rainfall and absences of irrigation, the area changed to almost desert for four and five months each year
ADEKELO	Due to low rainfall and absences of irrigation, the area changed to almost desert for four and five months each year
HIDMO	Deforestation
ADI HARMELE	High population, deforestation
WAKERGUBI	Deforestation
HARIDEN	Drought



Data_Collected_Date

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<u>Region</u>	AFAR	<u>Zone</u>	ZONE 2	<u>Wereda</u>	ABALA
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Selected Indicator

Environmental Situation: Soil Erosion - Observed changes on levels of soil erosion by the community

<u>KebeleName</u>	<u>Changes_Observed</u>	<u>Problems_Observed</u>
HIDA RURAL	Increased	There is no flood protection
WEIDET	Increased	Decreasing agricultural land and crop damage
GELAISO	Increased	There is no flood protection
WESEMA	High soil erosion	Flooding from high lands of Tigray Region
ADEKELO	High soil erosion	Flooding from high lands of Tigray Region
ASENGOSA	Increased	Degraded area
HIDMO	Increased	High rain fall, lack of protection
ADI HARMELE	Increased	Low production
WAKERGUBI	High	Problem of high rain fall
ENDA ASENGOLA	No	
HARIDEN	No	

WDRP Indicators

**Livelihood, Occupation and Source
of Food Characteristics**



Wereda Disaster Risk Profile

National Disaster Risk Management Commission (NDRMC)



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Region	AFAR	Zone	ZONE 2	Wereda	ABALA
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Selected Indicator

Economic Vulnerability: Major Occupational Categories - Major categories of occupation and percent of population engaged in the occupation by Kebele

Occupational Categories and Percent of Population engaged within these occupational categories

Percent (%) of Population

KebeleName	Occupation 1	Population	Occupation 2	Population	Occupation 3	Population	Occupation 4	Population
HIDA RURAL	Livestock	80	Farming	10	Petty trading	5	Daily labour	5
ASENGOSA	Livestock and farming	90	Help each other	10		0		0
WAKERGUBI	Livestock and farming	50	Fetching water	40	Terrace, diversion	10		0
ENDA ASENGOLA	Livestock and farming	85	Farming	0		0		0
HARIDEN	Livestock and farming	75	Farming	25		0		0



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Selected Indicator

Economic Vulnerability: Livelihoods - Households important sources of livelihood (response in %)

Type of Livelihood Activity	Order of Importance		
	-----	1st	2nd
Agricultural laborer	0.00	2.59	1.19
Animal herder	0.00	0.86	1.19
Buying and selling livestock (cattle, sheep, goats, camels)	0.00	10.63	10.32
Daily laborer	0.00	0.57	1.59
Others	0.00	0.00	3.17
Rearing & selling animals (camels, cattle, sheep, goats)	0.00	56.32	15.87
Salaried job	0.00	1.15	5.16
Sale_Of_Natural_Products - Animal feed (grass, fodder, forage, salty sand, etc.)	0.00	0.57	0.00
Sale_Of_Natural_Products - Charcoal	0.00	0.29	0.40
Sale_Of_Natural_Products - Firewood	0.00	1.72	5.95
Sale_Of_Natural_Products - Precious stones (gold, gem-stones)	0.00	0.29	0.00
Sale_Of_Natural_Products - Water	0.00	0.29	0.40
Selling Building materials and hardware	0.00	0.29	0.00

	3rd
Agricultural laborer	2.97
Animal herder	0.00
Buying and selling livestock (cattle, sheep, goats, camels)	5.94
Daily laborer	0.99
Others	4.95
Rearing & selling animals (camels, cattle, sheep, goats)	8.91
Salaried job	9.90
Sale_Of_Natural_Products - Animal feed (grass, fodder, forage, salty sand, etc.)	0.00
Sale_Of_Natural_Products - Charcoal	0.00
Sale_Of_Natural_Products - Firewood	6.93
Sale_Of_Natural_Products - Precious stones (gold, gem-stones)	0.99
Sale_Of_Natural_Products - Water	0.00
Selling Building materials and hardware	0.00



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<u>Region</u>	AFAR	<u>Zone</u>	ZONE 2	<u>Wereda</u>	ABALA
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Selected Indicator

Economic Vulnerability: Livelihoods - Households important sources of livelihood (response in %)

Type of Livelihood Activity	Order of Importance		
	-----	1st	2nd
Selling Cereal food crops (sorghum, maize, wheat, barley)	0.00	12.36	9.52
Selling cooked food	0.00	0.29	0.00
Selling dairy products (milk, butter, ghee, cheese)	0.00	10.63	44.84
Selling hides and skins (from goats, sheep, cattle)	0.00	0.29	0.00
Selling meat (from own livestock)	0.00	0.29	0.40
Selling Root crops (Irish potato, sweet potato)	0.00	0.29	0.00
Traditional birth attendant (TBA)	0.00	0.29	0.00

	3rd
Selling Cereal food crops (sorghum, maize, wheat, barley)	6.93
Selling cooked food	0.00
Selling dairy products (milk, butter, ghee, cheese)	51.49
Selling hides and skins (from goats, sheep, cattle)	0.00
Selling meat (from own livestock)	0.00
Selling Root crops (Irish potato, sweet potato)	0.00
Traditional birth attendant (TBA)	0.00



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Region	AFAR	Zone	ZONE 2	Wereda	ABALA
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Selected Indicator

**Economic Vulnerability: Occupational Categories - Percent of population
above 15 years age by occupation categories**

Type of Livelihood Activity	Main Occupation	Secondary Occupation
	1st Occupation	2nd Occupation
A)Below school age children	0.23	
B)Student	15.03	14.36
C)Unemployed & seeking work	4.86	12.26
D)Neither studying nor working nor seeking work	0.68	1.23
E)Retired/ Old	1.36	1.40
F)Cultivator	9.49	5.95
G)Agricultural labourer	0.68	0.18
H)Livestock rearing	31.86	16.11
I)Non-agricultural labour	0.23	5.43
K)Shopkeeper and Petty trade	0.45	
L)Home-maker (housewife)	33.90	35.20
M)Salaried	0.56	6.48
P)Others (specify)	0.68	1.40



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Region AFAR Zone ZONE 2 Wereda ABALA

Selected Indicator: Economic Vulnerability: Sources of Food - Households source for different food items (response in %)

Source of Food	Types of Food Item											
	A)Injera	B)Other cereals	C)Potatoes	D)Pasta	E)Sugar	F)Beans	G)Vegetables	H)Fruits	I)Beef	J)Poultry	K)Fish	L)Milk
A)Own cultivation/production	30.80	17.10	13.30	3.60	1.40		5.30	14.30	82.80	100.00	100.00	95.70
B)Casual labor		13.50	0.70	1.80		16.70						
C)Borrowed			1.50		0.40							
E)Purchases from main shop	64.10	23.10	45.90	69.10	63.70	83.30	42.10	14.30	6.70			0.40
F)Free meals/Food assistance	2.60	32.00			1.40							2.30



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Region AFAR Zone ZONE 2 Wereda ABALA

Selected Indicator: Economic Vulnerability: Sources of Food - Households source for different food items (response in %)

Source of Food	Types of Food Item											
	A)Injera	B)Other cereals	C)Potatoes	D)Pasta	E)Sugar	F)Beans	G)Vegetables	H)Fruits	I)Beef	J)Poultry	K)Fish	L)Milk
G)Purchase from roadside vendor/tuck shop	2.60	13.20	36.30	23.60	31.70		52.60	57.10	7.50			1.60
H)Purchase subsidized food from Kebele shop		0.40			0.40							
K)Other			0.70	1.80	1.10			14.30	3.00			

WDRP Indicators

Crop Production Characteristics



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Region AFAR

Zone ZONE 2

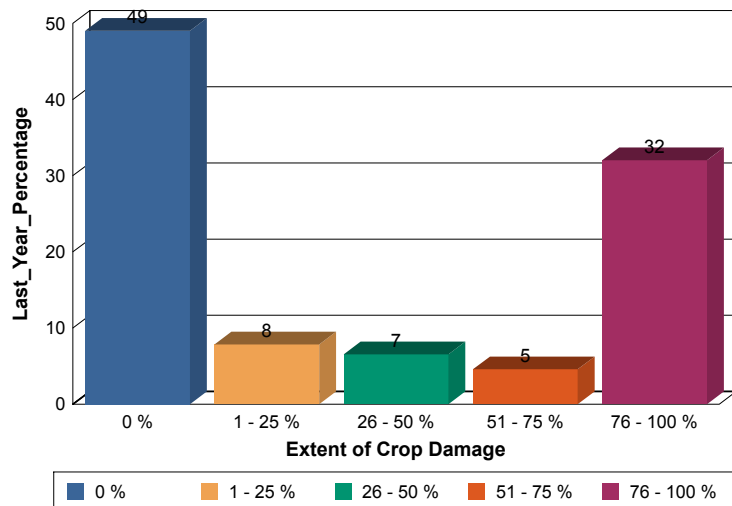
Wereda ABALA

Selected Indicator:

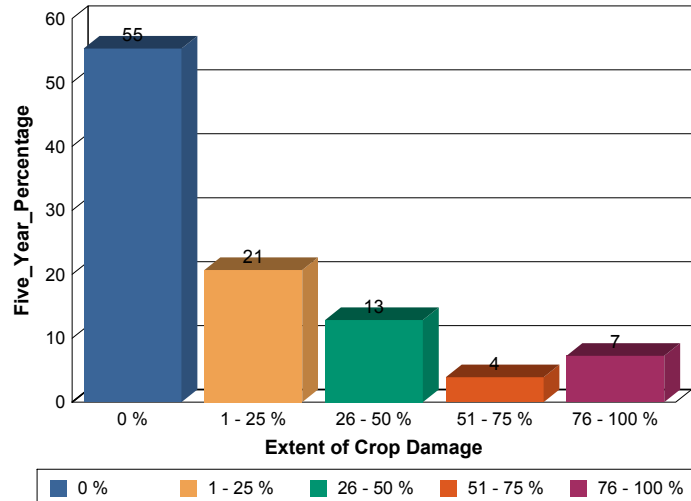
Hazards: Change in Crop Damages - Proportion of Total Crop Damage

<u>Extent of Crop Damage (%)</u>	<u>Last Year Percentage</u>	<u>Five Year Percentage</u>
0 %	49.02	55.31
1 - 25 %	7.84	20.67
26 - 50 %	6.54	12.85
51 - 75 %	4.58	3.91
76 - 100 %	32.03	7.26

Extent of Crop Damage Last_Year



Extent of Crop Damage Five Years Ago





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Region AFAR

Zone ZONE 2

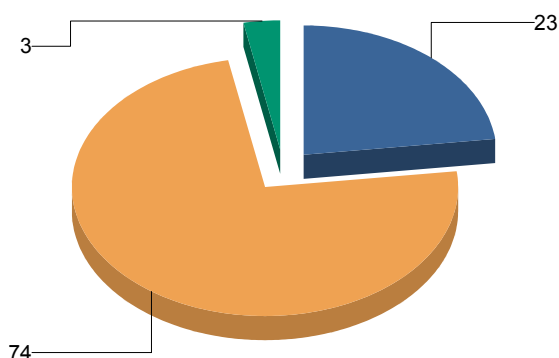
Wereda ABALA

Selected Indicator:

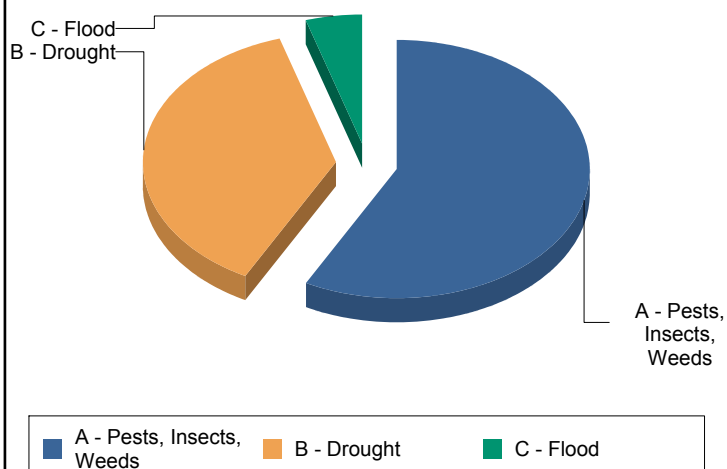
Hazards: Change in Crop Damages - Major reasons for crop damage

<u>Major Reason of Crop Damage</u>	<u>Last Year</u>	<u>Five Year Ago</u>
A - Pests, Insects, Weeds	23.00	56.47
B - Drought	74.00	36.47
C - Flood	3.00	4.71

**Major Reason of Crop Damage -
Last Year**



**Major Reason of Crop Damage -
Five Years Ago**





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Region AFAR

Zone ZONE 2

Wereda ABALA

Selected Indicator:

**Hazards: Change in Crop Damages - Proportion of Damage for Major Crops
(percentage response by households)**

Last Year

Five Years Ago

	0 %	1 - 25 %	26 - 50 %	51 - 75 %	76 - 100 %
Barley	42.31	7.69	7.69	11.54	30.77
	57.14	17.14	17.14	2.86	5.71
Maize	59.18	6.12	2.04	2.04	30.61
	50.00	28.85	11.54	3.85	5.77
Other pulses			50.00	50.00	
	50.00		50.00		
Peas	100.00				
	100.00				
Sorghum	36.59	14.63	14.63	4.88	29.27
	47.50	32.50	5.00	5.00	10.00
Teff	55.88	2.94			41.18
	62.22	6.67	17.78	4.44	8.89



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Region AFAR

Zone ZONE 2

Wereda ABALA

Hazards: Change in Crop Damages - Reasons for Damage of Major Crops

Last Year

Five Years Ago

	A - Pests, Insects, Weeds	B - Drought	C - Flood
Barley	18.18 41.20	72.73 47.10	9.09 5.90
Maize	17.24 73.10	82.76 26.90	
Other pulses	50.00	50.00 100.00	
Sorghum	38.46 61.90	61.54 28.60	4.80
Teff	14.29 47.40	80.95 42.10	



Wereda Disaster Risk Profile

National Disaster Risk Management Commission (NDRMC)



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Region	AFAR	Zone	ZONE 2	Wereda	ABALA
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Selected Indicator: **Agricultural Situation: Change in Crops Grown - Five major crops grown by proportion of total cultivated land**

Kebele Name	Major Crops	Main Season	Cropped Area		Reason For Change
			Present	Five Years Ago	
ADI HARMELE	Sorghum	Meher	400	0	Low rainfall
	Maize	Meher	200	0	High flooding
	Barley	Meher	350	0	Pest
	Teff	Meher	300	0	
ASENGOSA	Maize	Meher	300	0	Low rain fall
	Teff	Meher	150	0	Low rain fall
	Barley	Meher	100	0	Low rain fall
	Sorghum	Meher	5	0	Low rain fall
HARIDEN	Teff	Meher	0	0	No change
	Wheat	Meher	0	0	
	Sorghum	Meher	0	0	
HIDMO	Sorghum	Meher	250	0	Good rain fall
	Maize	Meher	200	0	Stop rain fall early
	Barley	Meher	100	0	Cover by other crops
	Teff	Meher	250	0	
	Peas	Meher	50	0	Good rain fall



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National Disaster Risk Management Commission (NDRMC)



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Selected Indicator: **Agricultural Situation: Change in Crops Grown - Five major crops grown by proportion of total cultivated land**

Kebele Name	Major Crops	Main Season	Cropped Area		Reason For Change
			Present	Five Years Ago	
WAKERGUBI	Sorghum	Meher	200	0	High rain fall
	Maize	Meher	100	0	Early starting
	Barley	Meher	50	0	
	Teff	Meher	35	0	
	Peas	Meher	10	0	
WEIDET	Sorghum	Meher	500	0	Flooding
	Barley	Meher	600	0	Shortage of ploughing material
	Teff	Meher	650	0	
	Peas	Meher	100	0	
HIDA RURAL	Sorghum	Meher	0	0	Good rain fall
	Maize	Meher	0	0	Good rain fall
	Teff	Meher	0	0	Good rain fall
	Barley	Meher	0	0	Good rain fall
	Peas	Tsedey	0	0	Low rain fall
	Sorghum	Meher	500	0	Flooding



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<u>Region</u>	AFAR	<u>Zone</u>	ZONE 2	<u>Wereda</u>	ABALA
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Selected Indicator:

**Agricultural Situation: Access to Extension - Perception of the community on
Access to Agricultural extension Services**

<u>KebeleName</u>	<u>Current_Level</u>	<u>Change_In_Last_Decade</u>	<u>Comments</u>
HIDA RURAL	No		
WEIDET	No	No	
WESEMA	Accessible		
ADEKELO	Accessible		
ASENGOSA	No	No	
HIDMO	No	No	No
ADI HARMELE	No	No	No
WAKERGUBI	No	No	No
ENDA ASENGOLA	No	No	No
HARIDEN	No	No	No



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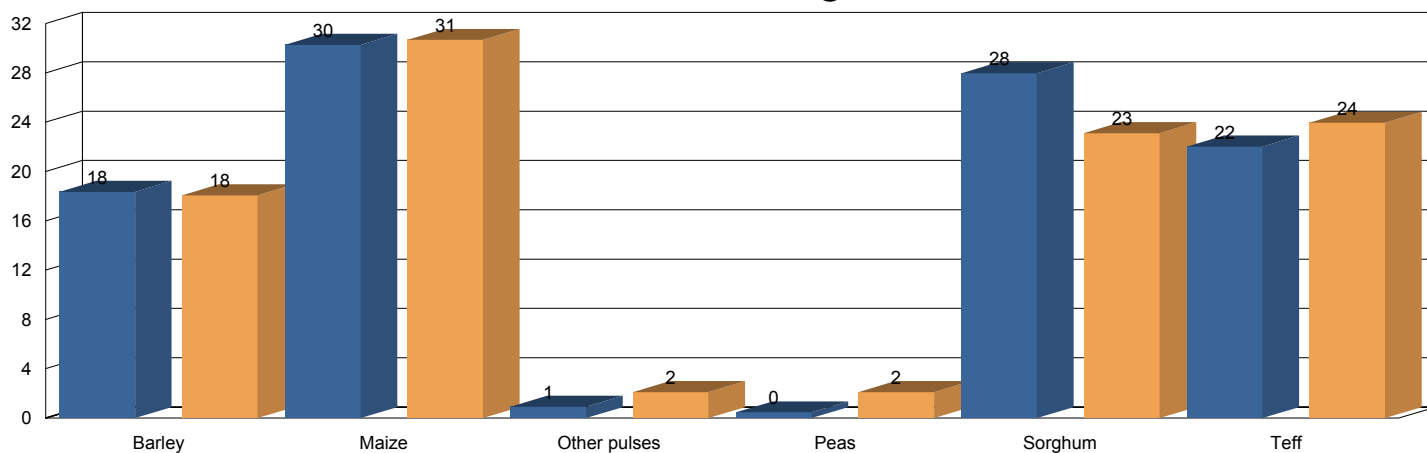
Wednesday, March 3, 2021

Region	AFAR	Zone	ZONE 2	Wereda	ABALA
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Selected Indicator **Economic Vulnerability: Crops Grown - Types of crops grown by households**

Major Crop Type	Type of Crops Grown Last Year	Type of Crops Grown Five Years Ago
Maize	30.28	30.67
Sorghum	27.98	23.11
Teff	22.02	23.95
Barley	18.35	18.07
Other pulses	0.92	2.10
Peas	0.46	2.10

Types of Crops Grown - Percent Responses of HHs for Last Year as compared to Five Years Ago



LEGEND : ■ Last year ■ Five Years Ago



Data Collected Date

Wednesday, March 3, 2021

Region AFAR

Zone ZONE 2

Wereda ABALA

Selected Indicator:

Economic Vulnerability: Crops Grown - Proportion of households by amount of yield of major crops (last year)

	A - Less than 100	B - 100-500	C - 501-1000	D - 1001-1500	E - 1501-2000	F - >2000
Barley	29.20	29.20	20.80	4.20	12.50	4.20
Maize	18.20	6.80	36.40	25.00	50.00	6.80
Other pulses		100.00				
Peas		100.00				
Sorghum	13.00	32.60		26.10	10.90	
Teff	50.00	25.00	17.90	3.60		3.60



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Region AFAR

Zone ZONE 2

Wereda ABALA

Selected Indicator:

Economic Vulnerability: Crops Grown - Proportion of households by amount of yield of major crops (Five Years Ago)

Types of Major Crops

Category of Yield used to be obtained five years ago

	A - Less than 100	B - 100-500	C - 501-1000	D - 1001-1500	E - 1501-2000	F - >2000
Barley	19.05	21.43	30.95	7.14	2.38	19.05
Maize	7.25	14.49	30.43	8.70	14.81	18.84
Other pulses		50.00				50.00
Peas		40.00	60.00			
Sorghum	5.56	18.52		27.78	20.37	
Teff	14.81	25.93	38.89	5.56	7.41	7.41



Data Collected Date

Wednesday, March 3, 2021

<u>Region</u>	AFAR	<u>Zone</u>	ZONE 2	<u>Wereda</u>	ABALA
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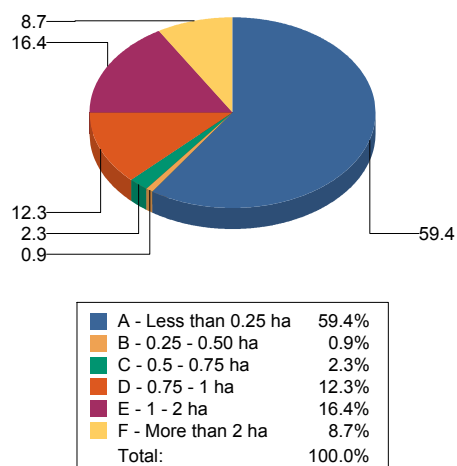
Selected Indicator: **Economic Vulnerability: Land Ownership and Quality - Landownership of HHs**

Households owning land (%)	30.30
Average landholding (in Hectares)s	0.76
Households cultivating land in last 12 months (%)	26.00
Average quantity of land cultivated (in hectares)	1.20

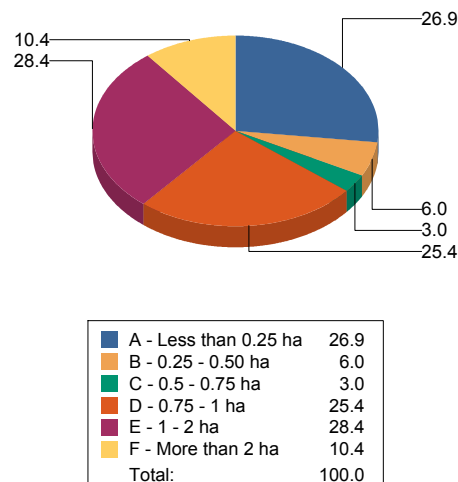
<u>Range Land Holding</u>	<u>Percent Response</u>	<u>Range of Cultivated Land</u>	<u>% Response</u>
A - Less than 0.25 ha	59.0	A - Less than 0.25 ha	27.0
B - 0.25 - 0.50 ha	1.0	B - 0.25 - 0.50 ha	6.0
C - 0.5 - 0.75 ha	2.0	C - 0.5 - 0.75 ha	3.0
D - 0.75 - 1 ha	12.0	D - 0.75 - 1 ha	25.0
E - 1 - 2 ha	16.0	E - 1 - 2 ha	28.0
F - More than 2 ha	9.0	F - More than 2 ha	10.0

IMPORTANT: ha = Hectars

Household Responses to Range Land Holding



Household Responses to Range Cultivated Land





Data Collected Date

Wednesday, March 3, 2021

Region AFAR

Zone ZONE 2

Wereda ABALA

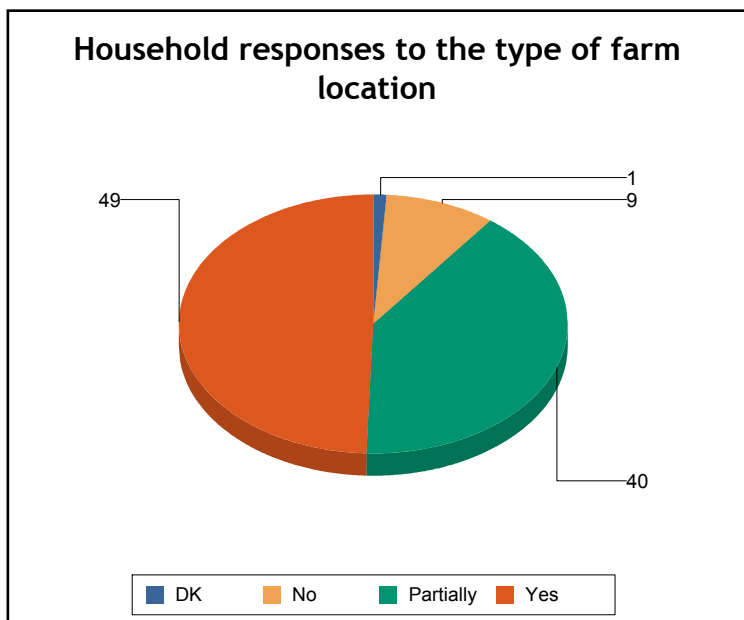
Selected Indicator:

Economic Vulnerability: Land Ownership and Quality - Farmers' perception on the quality of their agricultural land

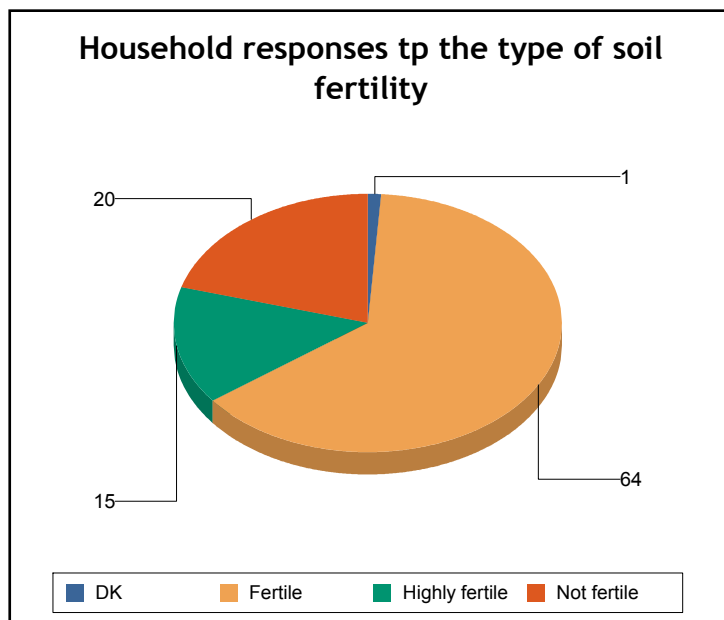
Cropping_Intensity *	3.40
Households with enough land for farming	39.80

<u>HHs with favourable location of farm</u>	<u>Response</u>	<u>Households with fertile soil</u>	<u>Response</u>
Yes	49.43	Highly fertile	14.77
No	9.20	Not fertile	20.45
DK	1.15	DK	1.14
Partially	40.23	Fertile	63.64

* Cropping Intensity = (Gross Cropped Area / Net Cropped Area)x 100%



Gross Cropped Area = Irrigated Area + Unirrigated Area



Net Cropped Area = Total Cultivated Area in last 12 months



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Selected Indicator:

Agricultural Situation: Access to Inputs - Perception of the community on access to improved agricultural inputs

<u>KebeleName</u>	<u>Current Level</u>	<u>Change In Last Decade</u>	<u>Comments</u>
HIDA RURAL	Good	Medium	BH-140 maize is available
WEIDET	Decreased	Decreased	There is no enough input
WESEMA	Good		
ADEKELO	No access		
ADEKELO	No		
HIDMO	Pesticides such as 2-4 D are available	Decreased	Very expensive
ADI HARMELE	Decreased	Decreased	Not enough
WAKERGUBI	Low		Good access and provide improved horticultural seed



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<u>Region</u>	AFAR	<u>Zone</u>	ZONE 2	<u>Wereda</u>	ABALA
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Selected Indicator:

Agricultural Situation: Water for irrigation - Access to water for irrigation in the community

<u>KebeleName</u>	<u>Current_Level</u>	<u>Change_In_Last_Decade</u>	<u>Comments</u>
HIDA RURAL	No		
WEIDET	No	No	No
GELAISO	No	No	No
WESEMA	No	No	
ADEKELO	No	No	
ASENGOSA	No	No	No
HIDMO	No	No	No
ADI HARMELE	Good	Increased	Construction of dam
WAKERGUBI	No	No	
ENDA ASENGOLA	Poor	No	
HARIDEN	Poor	No	



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Selected Indicator:

Agricultural Situation: Soil Fertility - Perception of the community on soil fertility and its change over time

<u>Kebele Name</u>	<u>Current Level</u>	<u>Change In Last Decade</u>	<u>Comments</u>
HIDA RURAL	Low soil fertility		Flooding problem
WEIDET	Good	Decrease	Soil erosion
GELAIISO	Good	No	
WESEMA	Sandy	Good	
ADEKELO	Good	Good	
ASENGOSA	Decrease	Decrease	Erosion
HIDMO	Good	Good	
ADI HARMELE	Decrease	Decrease	Flooding problem
WAKERGUBI	Good	No	
ENDA ASENGOLA	Good	No	
HARIDEN	Good	No	



Wereda Disaster Risk Profile



Wednesday, March 3, 2021

Data Collected Date

Region AFAR

Zone ZONE 2

Wereda ABALA

Selected Indicator:

Economic Vulnerability: Status of Agriculture - Methods of tillage, Irrigation and other agricultural input utilization by households

Percentage of Irrigated Area

Last Year

0.00

Five Years Ago

1.20

Percentage of households with irrigated area

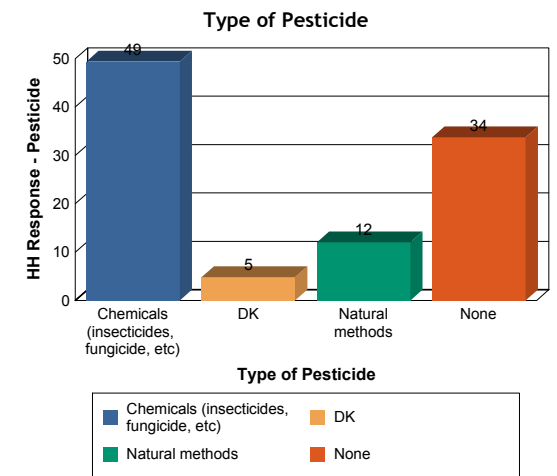
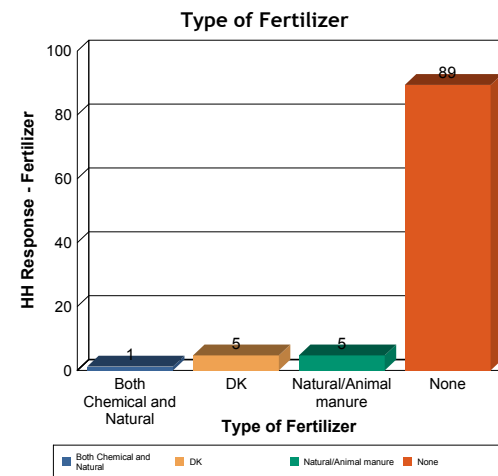
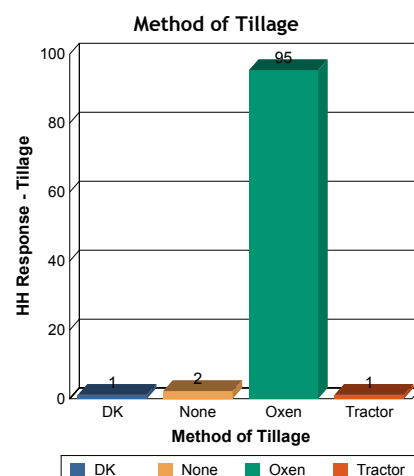
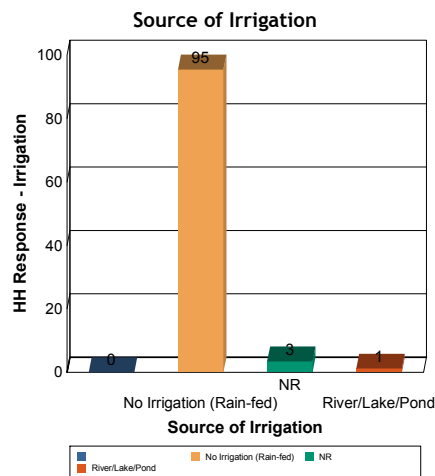
Last Year

0.00

Five Years Ago

0.00

Source of Irrigation	Response	Method of Tillage	Response	Type of Fertilizer	Response	Type of Pesticide	Response
River/Lake/Pond	1.14	Oxen	95.40	Natural/Animal manure	4.71	Chemicals (insecticides, fungicide, etc)	49.40
No Irrigation (Rain-fed)	95.45	Tractor	1.15	Both Chemical and Natural	1.18	Natural methods	12.05
NR	3.41	None	2.30	None	89.41	None	33.73
	0.00	DK	1.15	DK	4.71	DK	4.82



Proportion Improved Seeds

19.00

Proportion Agriculture Service

16.00



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Selected Indicator:

Economic Vulnerability: Change in Agricultural Situation - Households perception on changes of crop type, size of cultivated area and crop yields

Proportion of households reporting change in crops grown	57.10	%
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	1st	2nd	3rd
Adequate fertilizer		15.38	
Adequate irrigation available	2.44	7.69	16.67
Adequate rainfall	24.39		
Insufficient fertilizer		23.08	16.67
Insufficient irrigation available		15.38	16.67
Less rainfall	30.00		

Proportion of households reporting change in size of area cultivated	56.60	%
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	1st	2nd	3rd
Insufficient rainfall	67.50	30.00	
Landslides	2.50		
MERCY CORPS	2.50	10.00	
Migration	10.00		
Other reasons	2.50	20.00	33.33
Water logging	5.00		33.33

Proportion of households reporting change in crop yield	90.00	%
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	1st	2nd	3rd
Adequate fertilizer	1.40	5.30	
Adequate rainfall	23.90		



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Selected Indicator:

**Economic Vulnerability: Change in Agricultural Situation - Households perception
on changes of crop type, size of cultivated area and crop yields**

	1st	2nd	3rd
Better yielding crop		42.10	75.00
Insufficient fertilizer		21.10	
Insufficient irrigation available	2.80	26.30	25.00
Insufficient rainfall	71.80	5.30	



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Region AFAR

Zone ZONE 2

Wereda ABALA

Selected Indicator

Economic Vulnerability: Crops Grown - Number of crops grown by households

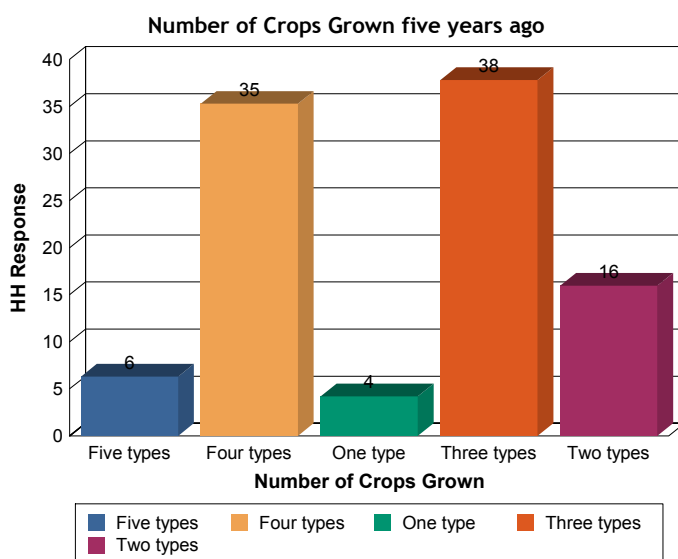
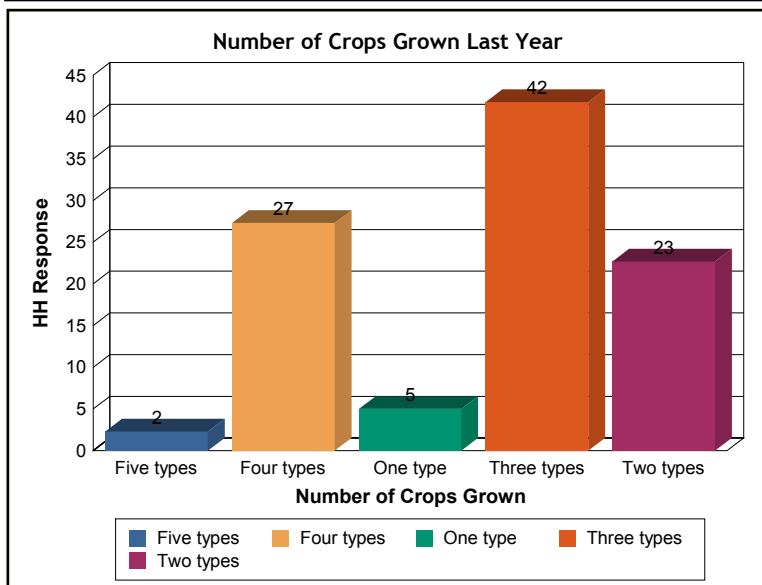
<u>Number of Crops Grown</u>	<u>Crops Grown Last Year</u>	<u>Crops Grown Five Years Ago</u>
One type	5.00	4.20
Two types	22.70	15.97
Three types	41.80	37.82
Four types	27.30	35.29
Five types	2.30	6.30

Avg Crops Grown Last Year

2.96

Avg Crops Grown Five Years Ago

3.22



WDRP Indicators

Livestock Production Characteristics



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Selected Indicator:

Agricultural Situation: Status of Livestock Disease - Change in Livestock Disease Status

<u>Kebele Name</u>	<u>Current Level</u>	<u>Change Over Last Decade</u>	<u>Comment</u>
HIDA RURAL	Foot and mouth disease, PPR, Anthrax	Increase	Number of animals is decreasing
WEIDET	CBPP, Anthrax, food and mouth disease	Increase	Lack of feed
GELAISO	CPP, CBPP, Foot and mouth disease	Increase	Drought, lack grazing land
WESEMA	Anthrax, external and internal parasite	No	
ADEKELO	Anthrax, external and internal parasite	Increase	
ASENGOSA	CBPP, CCPP		
HIDMO	Anthrax, Foot and mouth disease, CBPP		
ADI HARMELE	CBPP, CCPP, Foot and mouth disease		
WAKERGUBI	Anthrax, CBPP, Foot and mouth disease, CCPP		



Data Collected Date

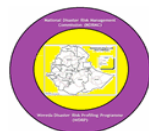
Wednesday, March 3, 2021

Region	AFAR	Zone	ZONE 2	Wereda	ABALA
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Selected Indicator: **Livestock Diseases Prevalence**

Type of livestock diseases affected households in the last five years (households reporting in %)

	1st	2nd	3rd
African horse disease	0.29	0.95	
Anthrax affecting cattle	2.01	5.99	2.64
CBPP	2.01	0.32	0.75
Contagious Caprine Pleuropneumonia (CCPP)	39.54	9.78	6.04
Faciolosis	0.57	0.95	1.89
Foot and mouth disease	14.90	17.03	14.34
Heart water	0.29		
Internal & External Parasites (Tick, mange, helminthiasis, fasci	0.86	0.63	1.13
Liverfluke (Sheep and cattle)	0.29	1.26	0.38
Lymphangitis	1.72		1.13
Newcastle disease (Chicken)	26.07	44.48	12.08
Pasteurellosis	0.86	2.21	1.89
Sheep pox	2.29	3.79	5.66
Tick born diseases	7.45	9.15	47.17



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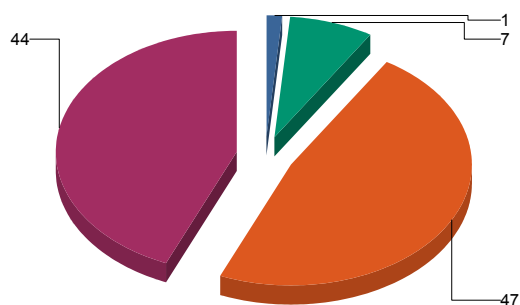
Wereda ABALA

Selected Indicator:

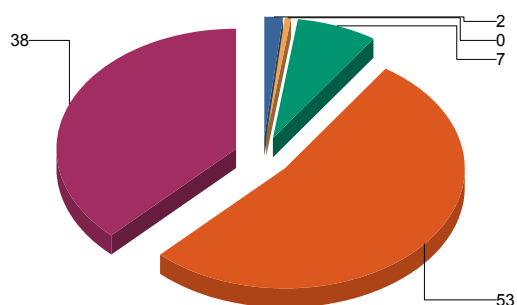
Evaluation of Access to Veterinary Services and Livestock Drugs
Households' evaluation on access to drugs and veterinary services

Level of Access	Veterinary Service	Livestock_Drugs
Excellent		0.30
Good	7.37	7.44
Adequate	1.47	1.79
Poor	47.49	52.68
Very poor	43.66	37.80

Level of Access to Veterinary Services



Access Level of Livestock Drugs





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Selected Indicator:

Agricultural Situation: Water Availability for Livestock - Water availability for livestock in the community

<u>KebeleName</u>	<u>Current_Level</u>	<u>Change_In_Last_Decade</u>	<u>Comments</u>
HIDA RURAL	Pipe		
WEIDET	Good	Good	Good
GELAIISO	Decrease	Yes	
WESEMA	Low	Decrease	
ADEKELO	Low	Decrease	
ASENGOSA	Decreased	Decrease	Low rain fall
HIDMO	Pipe water	Good	Not enough
ADI HARMELE	Good	Increased	Water pump
WAKERGUBI	Good	No	
ENDA ASENGOLA	Good		Road



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Region AFAR

Zone ZONE 2

Wereda ABALA

Selected Indicator:

Agricultural Situation: Livestock Diversity - Type of livestock and their economic importance in the community

Kebele Name	Type of Livestock	Avg_Number	Economic_Importance_Rank
ADEKELO	Camels	2	Source of milk and income
	Sheep	4	Source of milk and income
	Goats	8	Source of milk and income
	Donkeys	1	Transportation
ADI HARMELE	Cattle	3	For ploughing and for milking
	Goats	7	Source of milk and income
	Sheep	4	Source of milk and income
	Camels	2	Source of milk and income
	Donkeys	1	Transportation
ASENGOSA	Camels	8	Source of milk and income
	Goats	35	Source of milk and income
	Cattle	2	Milking
	Donkeys	1	Transportation
ENDA ASENGOLA	Camels	0	For local consumption, milk and transport
GELAISO	Camels	3	Source of milk and income
	Cattle	2	Source of milk and income
	Goats	40	Source of milk and income
	Sheep	10	Source of milk and income
	Donkeys	1	Transport
HARIDEN	Camels	0	For local consumption, milk and transport
HIDA RURAL	Cattle	3	For milk production, for ploughing
	Goats	25	Source of milk and income
	Sheep	20	Source of milk and income



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Selected Indicator:

Agricultural Situation: Livestock Diversity - Type of livestock and their economic importance in the community

Kebele Name	Type of Livestock	Avg_Number	Economic_Importance_Rank
HIDA RURAL	Donkeys	2	Water transportation
	Poultry	3	Economic for food
HIDMO	Cattle	4	For ploughing, for milking
	Goats	2	For milking, selling and fattening)
	Sheep	4	For milking, selling(fattening)
	Donkeys	1	For Transportation
	Goats	17	Source of milk and income
WAKRGUBI	Sheep	8	Source of milk and income
	Camels	4	Source of milk and income
	Cattle	4	Source of milk and income
	Donkeys	1	For water transportation
	Cattle	2	For ploughing, milk
WEIDET	Goats	1	Source of milk and income
	Sheep	1	Source of milk and income
	Mules	1	Transportation
	Donkeys	1	Transportation
	Camels	2	Source of milk and income
WESEMA	Sheep	4	Source of milk and income
	Goats	2	Source of milk and income
	Donkeys	1	Wood transportation, selling



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Region AFAR Zone ZONE 2 Wereda ABALA

Selected Indicator:

Economic Vulnerability: Livestock Ownership and Changes - Percentage of households by number and type of livestock owned

	A - None	B - 1 to 5	C - 6 to 10	D - 11 to 50	E - 51 to 100
Bee keeping	98.00	1.70	0.30		
Camels: Female	34.30	43.10	16.70	5.90	
Camels: Male	56.00	36.80	5.50	1.70	
Camels: Young Female	55.60	41.60	2.00	0.60	0.30
Camels: Young Male	64.10	35.10	0.60	0.30	
Cattle: Female	89.40	9.80	0.60	0.30	
Cattle: Male bulls	93.90	4.90	0.90	0.30	
Cattle: Mature Female	75.40	18.10	5.10	1.10	0.30
Cattle: Mature Male	87.10	10.30	2.60		
Cattle: under 1 year	79.50	17.30	2.60	0.60	
Donkeys	30.40	67.00	2.00	0.60	
Goats	21.60	7.40	10.50	48.30	12.20
Horses	100.00				



Data Collected Date

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Region AFAR Zone ZONE 2 Wereda ABALA

Selected Indicator:

Economic Vulnerability: Livestock Ownership and Changes - Percentage of households by number and type of livestock owned

	A - None	B - 1 to 5	C - 6 to 10	D - 11 to 50	E - 51 to 100
Mules	97.40	2.60			
Poultry	89.40	7.70	2.60	0.30	
Sheep	56.00	20.70	16.40	6.60	0.30



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Region AFAR Zone ZONE 2 Wereda ABALA

Selected Indicator

**Economic Vulnerability: Livestock Ownership and Changes - Households
perception on changes in livestock number in the last five years (response in %)**

Type of Livestock Owned		Changes Observed By Households	
		A - Decreased	B - Remained the Same
Bee keeping		57.10	28.60
Camels: Female		86.30	11.00
Camels: Male		90.80	7.20
Camels: Young Female		71.70	7.20
Camels: Young Male		70.40	20.00
Cattle: Female	2.80	77.80	19.40
Cattle: Male bulls		81.00	19.00
Cattle: Mature Female		86.90	7.10
Cattle: Mature Male		81.80	13.60
Cattle: under 1 year		81.20	11.60
Donkeys		50.40	48.70
Goats		94.70	3.40
Mules		50.00	50.00
Poultry		83.30	13.90
Sheep		83.60	14.40

C - Increased
14.30
2.60
2.00
2.00
9.60
6.00
4.50
7.20
0.80
1.90
2.80
2.10



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Region AFAR

Zone ZONE 2

Wereda ABALA

Selected Indicator

**Economic Vulnerability: Livestock Ownership and Changes - Households
perception on changes in livestock number in the last five years (response in %)**

Type of Livestock Owned

Reason for Decrease in Livestock Number

	A)Conflict	B)Raiding	C)Died in drought	D)Disease	F)Sold for food	G)Sold (not for food)	R)Other
Bee keeping							100.00
Camels: Female	0.50	1.50	70.40	19.40	0.50	0.50	
Camels: Male			57.20	22.50	4.30	8.00	7.90
Camels: Young Female	0.90	1.80	60.60	30.30	0.90		5.50
Camels: Young Male			62.80	23.30	5.80	4.70	2.40
Cattle: Female			60.70	28.60	3.60		7.20
Cattle: Male bulls			68.80	6.30			12.60
Cattle: Mature Female		1.40	69.90	21.90	4.10	1.40	1.40



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Region AFAR

Zone ZONE 2

Wereda ABALA

Selected Indicator

**Economic Vulnerability: Livestock Ownership and Changes - Households
perception on changes in livestock number in the last five years (response in %)**

	A)Conflict	B)Raiding	C)Died in drought	D)Disease	F)Sold for food	G)Sold (not for food)	R)Other
Cattle: Mature Male		2.80	52.80	25.00	8.30	8.30	2.80
Cattle: under 1 year		1.80	67.90	19.60		3.60	7.20
Donkeys	0.90	1.80	38.70	22.50	19.80	4.50	9.90
Goats	0.40	0.40	29.40	50.00	12.10	5.20	2.40
Mules			33.30	33.30		33.30	
Poultry			20.00	73.30			6.70
Sheep	0.80		28.60	45.40	16.00	5.90	3.30



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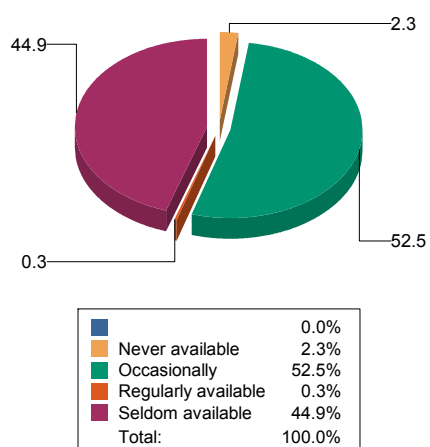
<u>Region</u>	AFAR	<u>Zone</u>	ZONE 2	<u>Wereda</u>	ABALA
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Selected Indicator

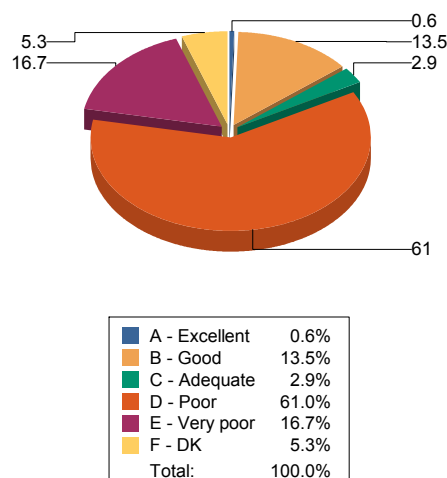
Agriculture (Livestock): Pasture Availability - Households perception on access and quality of pasture

Access to Pasture	Response Percent	Quality of Pasture	Response Percent
Regularly available	0.29	A - Excellent	0.59
Seldom available	44.90	C - Adequate	2.93
Never available	2.33	D - Poor	61.00
		F - DK	5.28
Occasionally	52.48	B - Good	13.49
		E - Very poor	16.72

Household responses to Access to Pasture for Livestock



Household responses to Quality of Pasture





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<u>Region</u>	AFAR	<u>Zone</u>	ZONE 2	<u>Wereda</u>	ABALA
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Selected Indicator

Agriculture (Livestock): Pasture Availability - Households perception on problematic months for pasture availability

<u>Problematic Months</u>	<u>Order of Severity</u>		
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	1st	2nd	3rd
A - Meskerem	1.44	1.15	2.33
B - Tikimt	0.29	1.44	1.17
C - Hidar		0.29	1.46
D - Tahsas		0.29	
F - Yekatit	2.02		3.79
G - Megabit	34.01	6.92	4.08
H - Meazea	42.36	38.33	10.20
I - Ginbot	14.70	38.62	35.57
J - Sene	1.73	10.37	38.48
K - Hamle	2.31	0.29	2.62
L - Nehase	1.15	2.31	0.29



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Zone ZONE 2

Wereda ABALA

Selected Indicator

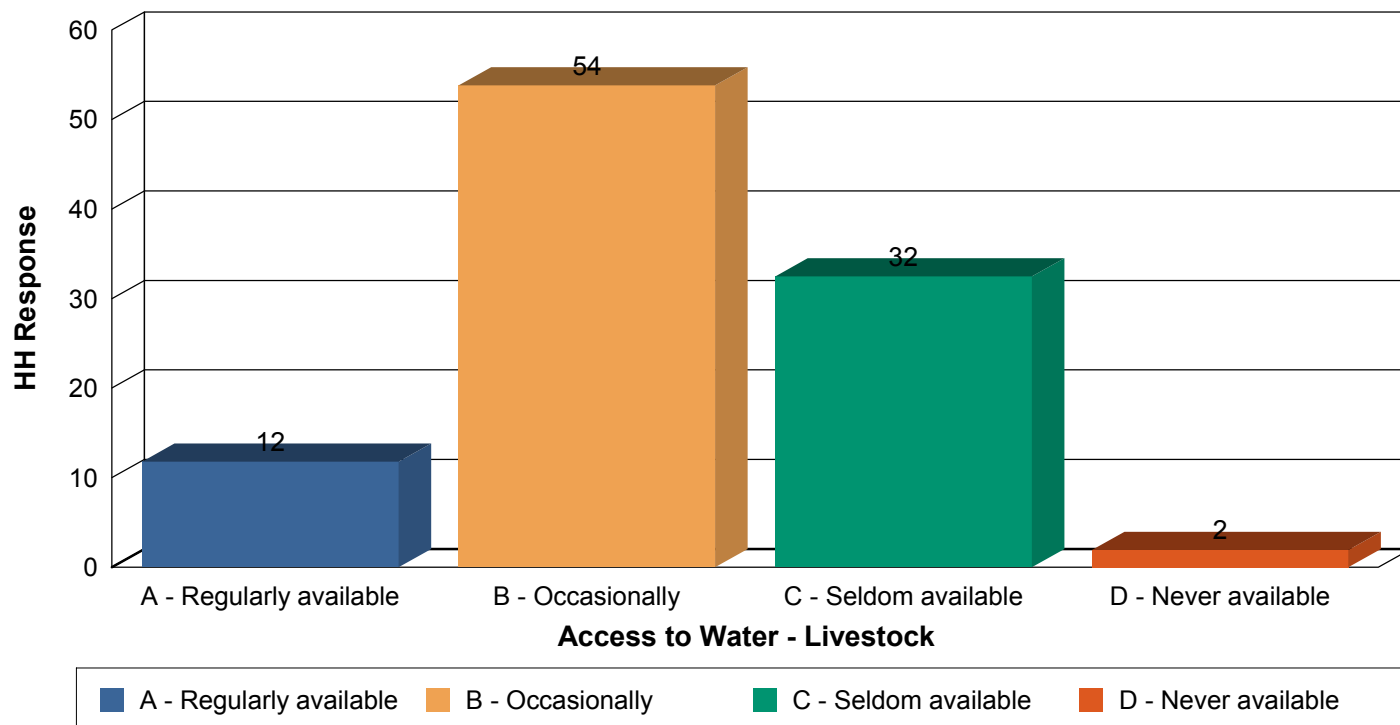
Agriculture (Livestock): Water Availability - Households response on water availability for livestock

Access to Water - Livestock

Household Response

A - Regularly available	11.78
B - Occasionally	53.82
C - Seldom available	32.48
D - Never available	1.91

Household Access to Water for Livestock





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Region AFAR

Zone ZONE 2

Wereda ABALA

Selected Indicator

Agriculture (Livestock): Water Availability - Households perception on problematic months for water availability for Livestock

Problematic Months

Order of Severity

	1st	2nd	3rd
A - Meskerem	0.91	0.31	5.56
B - Tikimt		0.92	0.31
C - Hidar			0.93
D - Tahsas			0.31
F - Yekatit	2.43		3.09
G - Megabit	31.91	8.28	4.01
H - Meazea	44.98	35.28	9.26
I - Ginbot	9.73	42.94	32.72
J - Sene	3.65	5.21	41.36
K - Hamle	5.47	1.53	1.23
L - Nehase	0.30	5.52	1.23



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Selected Indicator

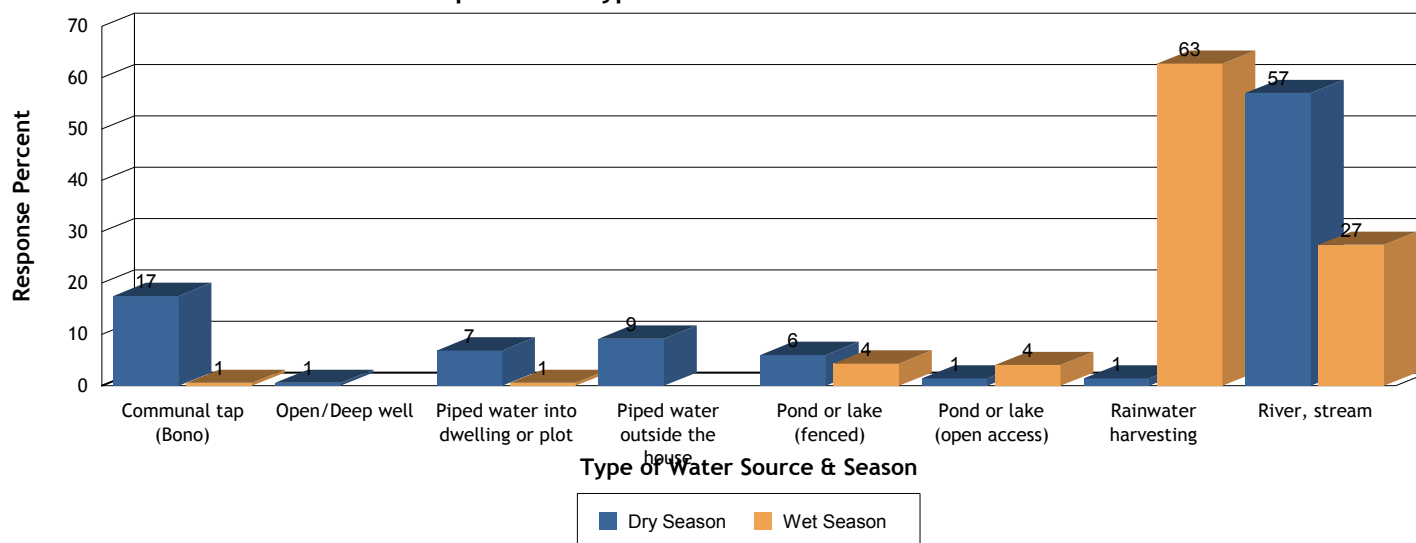
Sources of water for livestock (households response in %)

Type of Livestock Owned

Changes Observed By Households

	Dry Season	Wet Season
Communal tap (Bono)	17.48	0.58
Open/Deep well	0.57	
Piped water into dwelling or plot	6.88	0.58
Piped water outside the house	9.17	
Pond or lake (fenced)	6.02	4.34
Pond or lake (open access)	1.43	4.05
Rainwater harvesting	1.43	62.72
River, stream	57.02	27.46

Household Responses to Type of Water Source and Season for Livestock



WDRP Indicators

Access to Market and Credit



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National Disaster Risk Management Commission (NDRMC)



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Selected Indicator:

Economic Vulnerability: Proportion of Produce Sold and Market - Proportion of crops and livestock sold from total production and markets

KebeleName	Market_For_Crops	Market_For_Livestock_Produce	Percent Livestock_Sold	Total_% Sold	Comments
HIDA RURAL	Aballa market	Aballa market		40	
WEIDET	Aballa market	Aballa market		60	
GELAIISO		Aballa market			
WESEMA		Aballa market		40	
ADEKELO		Aballa market			
ASENGOSA		Aballa market			
HIDMO	Aballa market	Aballa market		50	
ADI HARMELE	Aballa market	Aballa market		20	
WAKERGUBI				40	
HARIDEN	Aballa wereda market	Aballa wereda market			



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Selected Indicator

Economic Vulnerability: Kebele Access to Markets - Access to market by Kebele

Kebele Name	Market_Access_Comments
HIDA RURAL	Seasonal problems
WEIDET	Seasonal problems
ASENGOSA	Seasonal problems
HIDMO	Seasonal problems
ADI HARMELE	Seasonal problems
WAKERGUBI	Seasonal problems
ENDA ASENGOLA	Very good access
HARIDEN	Very good access to market



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Selected Indicator

Economic Vulnerability: Formal & Informal Transfers - Percentage of households reporting received formal transfers

<u>Type of Formal Transfer</u>	<u>HH Response</u>	<u>Type of Informal Transfer</u>	<u>HH Response</u>
Food aid	29.40	Cash loan (no interest)	9.80
Food-for-Work project	86.80	Remittances (from relative living elsewhere)	27.80
Cash-for-Work project	1.30	Gift of livestock to newly-weds	5.00
Faffa	16.80	Cash or kind gift to married daughters when they visit parents or relatives	7.70
Free cash	1.00	Food or grain gift	3.40
Credit support		Other cash gift	3.00
Livestock	0.30	Blood money - compensation	3.10
Tools	1.30	Free labour	3.70
		Donation or loan of milking animals to a relative or friend	0.30
		Sacrifice made to feed the poor	1.20
		Grain loan (no interest)	0.90
		Dowry given to bride's parents	0.90
		Donations of cash or animals to disaster stricken people	0.90
		Seed gift	0.60
		Seed loan	0.30
		Restocking of poorer relatives	2.80
		Distribution of meat to neighbours after a slaughter takes place	2.50
		Free use of pack animals (camels or donkeys)	1.50
		Zakaat	1.20
		Free use of oxen or plough	1.20



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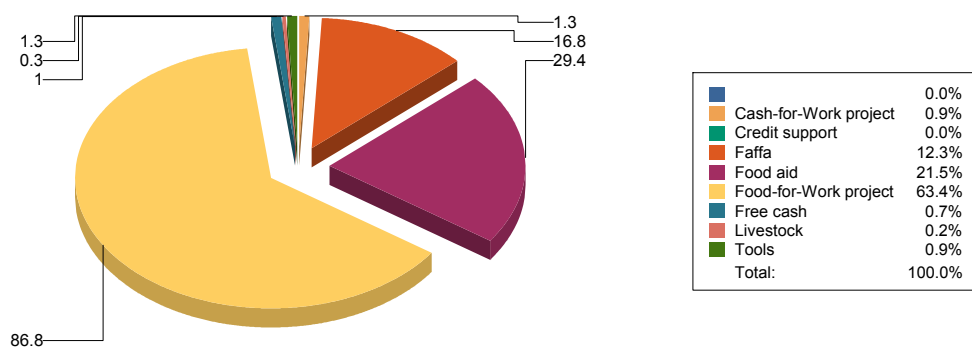
Region	AFAR	Zone	ZONE 2	Wereda	ABALA
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Selected Indicator

Economic Vulnerability: Formal & Informal Transfers - Percentage of households reporting received formal transfers

Type of Formal Transfer	HH Response	Type of Informal Transfer	HH Response
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Type of Formal Transfer Received By Households





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Selected Indicator **Capacity: Access to Credit Facilities - Households access to credit facilities**

<u>Type of Access To Credit Facilities</u>	<u>Indicator Value</u>
Households who borrowed any money in the last one year (%)	8.50
Households who tried to borrow 1-2	36.67
Households who managed to get credit 1-2	50.00
Households who managed to get credit 5 & Above	3.33
Households with membership in any credit /micro finance society (%)	0.60
Households who tried to borrow 3-4	53.33
Households who managed to get credit 3-4	46.67
<u>Average No. of HHs Tried to get Credit</u>	3.03
<u>Average No. HHs Managed to get Credit</u>	2.57



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Selected Indicator

Capacity: Access to Credit Facilities - Percentage of households by major reasons of borrowing money

Type of Borrowing Reason Degree of Importance of the Borrowing Reasons - HH Responses

	1st Important	2nd Important	3rd Important
Buy agricultural input	13.33	5.88	25.00
Buy food	73.33	17.65	
Others (specify)	3.33		50.00
Pay for education	3.33		
Pay for health care	6.67	64.71	
Pay for social event	11.76		25.00



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Selected Indicator

Capacity: Access to Credit Facilities - Percentage of households by major sources of credit

Major Sources of Credit for Households	Degree of Importance of the Credit Source	
	1st Important	2nd Important
Bank/formal lending institution	3.30	
Friends/relatives	80.00	23.50
Neighbors	16.70	16.70



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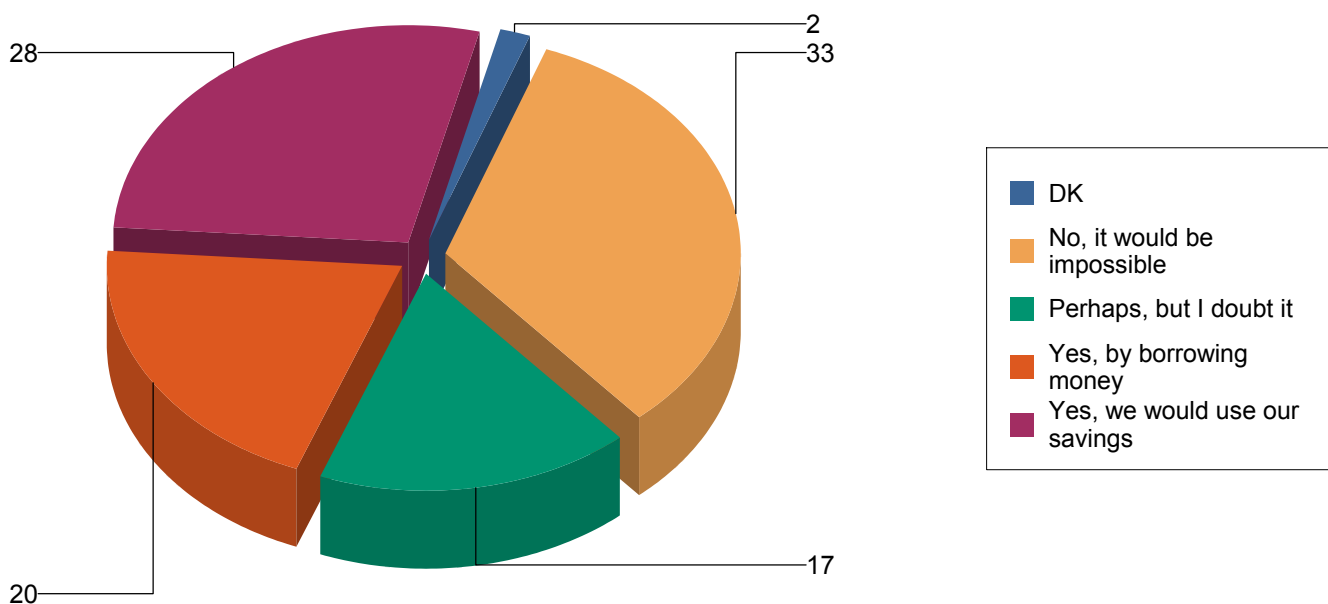
Region	AFAR	Zone	ZONE 2	Wereda	ABALA
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Selected Indicator

Capacity: Access to Credit Facilities - Percent of households with ability to raise 500 birr in one week

HH Ability To Raise 500 Br in One Week	Response Percent
Yes, we would use our savings	27.90
No, it would be impossible	33.23
DK	1.57
Yes, by borrowing money	20.06
Perhaps, but I doubt it	17.24

Households' Ability To Raise 500 Br in One Week



WDRP Indicators

Health and Sanitation Characteristics



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Region AFAR

Zone ZONE 2

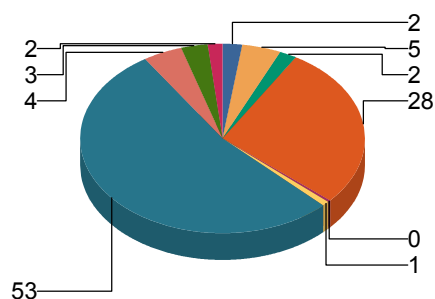
Wereda ABALA

Selected Indicator

**Household Access to Health Facilities - Where do patients go for health care?
Constraints to adequate healthcare**

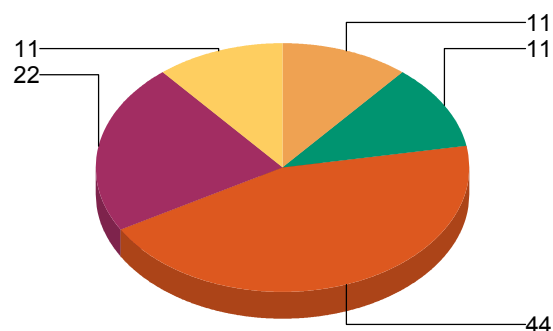
<u>Where do Patients Go for Healthcare</u>	<u>HH Response</u>	<u>Constraints to Adequate Health Care</u>	<u>Response</u>
Did not get Health Care	1.94	No money for treatment costs	44.44
Central Hospital	2.16	No money for travel	11.11
District/Municipal hospital/health centre/ clinic	27.80	Poor quality of service	22.22
Other public	53.45	Shortage of health professionals	11.11
Community health worker	4.53	NA	11.11
Private hospital/clinic	3.02		
Pharmacy	4.31		
Other private	0.86		
Traditional healer	1.72		
Other	0.22		

Where Do Patients go for Health care?



Central Hospital	2.2%
Community health worker	4.5%
Did not get Health Care	1.9%
District/Municipal hospital/health centre/ clinic	27.8%
Other	0.2%
Other private	0.9%
Other public	53.4%
Pharmacy	4.3%
Private hospital/clinic	3.0%
Traditional healer	1.7%
Total:	100.0%

Constraints to Adequate Health Care



NA	0.0%
No money for travel	11.1%
No money for treatment costs	44.4%
Poor quality of service	22.2%
Shortage of health professionals	11.1%
Total:	100.0%



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Selected Indicator

Hazards: Health problems and changes over the last decade

<u>Kebele Name</u>	<u>Health Problems</u>	<u>Changes In Last Decade</u>
HIDA RURAL	Severely damage	Yes
WEIDET	Diarrhea, malaria, TB	Increased
WESEMA	Malaria and lack of nutrition	
ADEKELO	Malaria and lack of nutrition	
ASENGOSA	Malaria, eye disease, TB	Decrease
HIDMO	Malaria, diarrhea, typhoid	Increased
ADI HARMELE	Mosquito fly (malaria), Influenza, TB	Increased
WAKERGUBI	Malaria, typhoid, TB	No
ENDA ASENGOLA	Poor health condition	No change
HARIDEN	Poor health condition	No change



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Selected Indicator	Household Health Status - Households health condition and major health problems				
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Health Condition	HH Response	Population Sickness	HH Response	Children Sickness	HH Response
Good health	76.39	Malaria	40.71	Malaria	46.67
Ill for <3 months	20.23	Headache	8.85	Diarrhea	30.00
Ill for more than three months	3.39	Diarrhea	8.63	Pneumonia/ lung problem	10.00
		Asthma	2.43	DK	3.33
		Eye problems	2.21		
		Hyper tension	1.55		
		Mental illness	1.33		
		NA	3.10		
		DK	0.44		
		Pneumonia/ lung problem	8.63	Chronic fever	3.33
		Back ache	7.30	Headache	1.67
		Tuberculosis	5.53	Back ache	1.67
		Stomach pain	5.53	Asthma	1.67
		Chronic fever	3.10	NA	1.67



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Wereda ABALA

Selected Indicator

Household Health Status - Households health condition and major health problems

Health Condition

HH Response

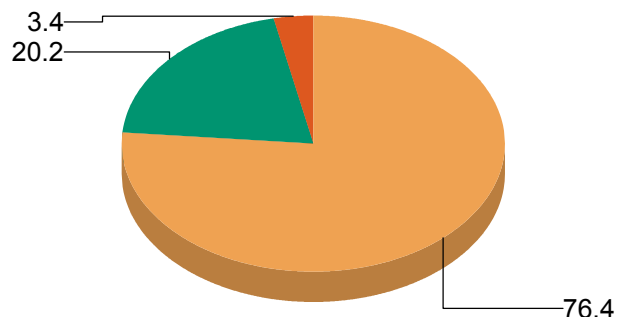
Population Sickness

HH Response

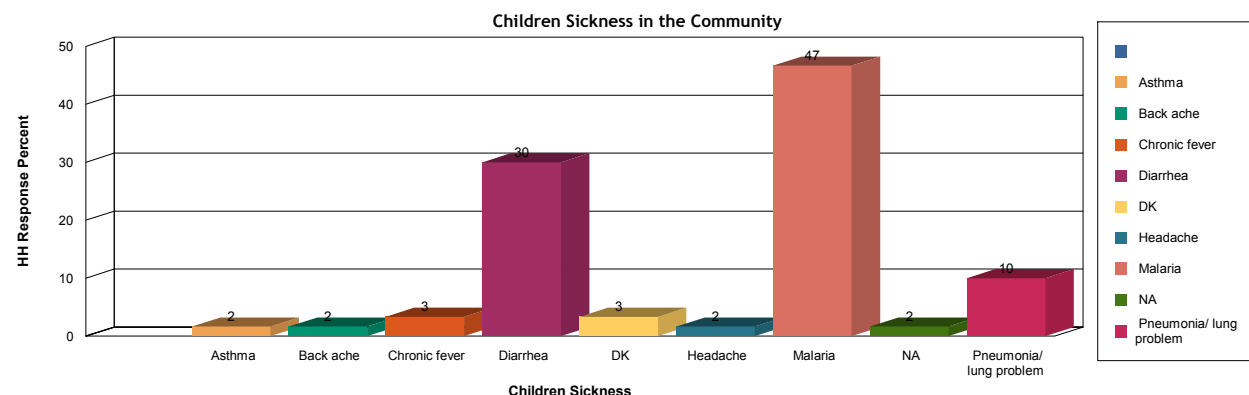
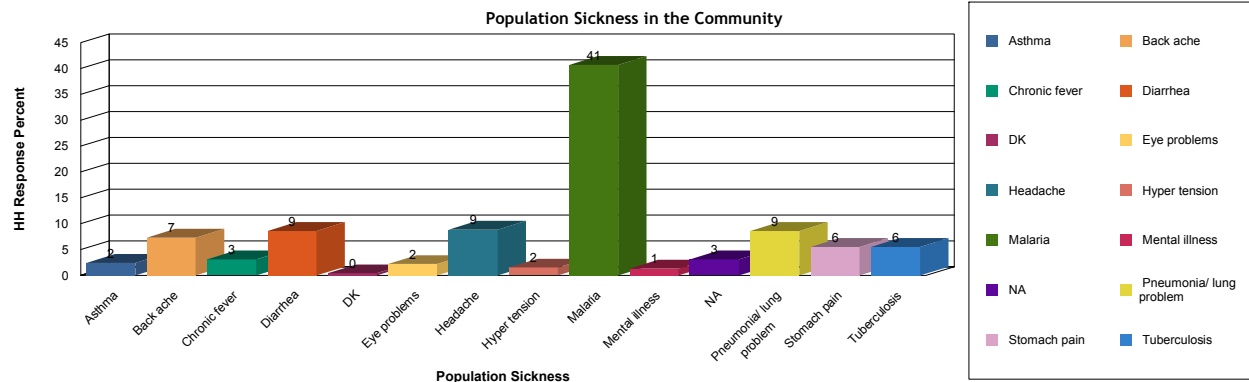
Children Sickness

HH Response

Health Condition of the Community



Good health	76.4%
Ill for <3 months	20.2%
Ill for more than three months	3.4%
Total:	100.0%





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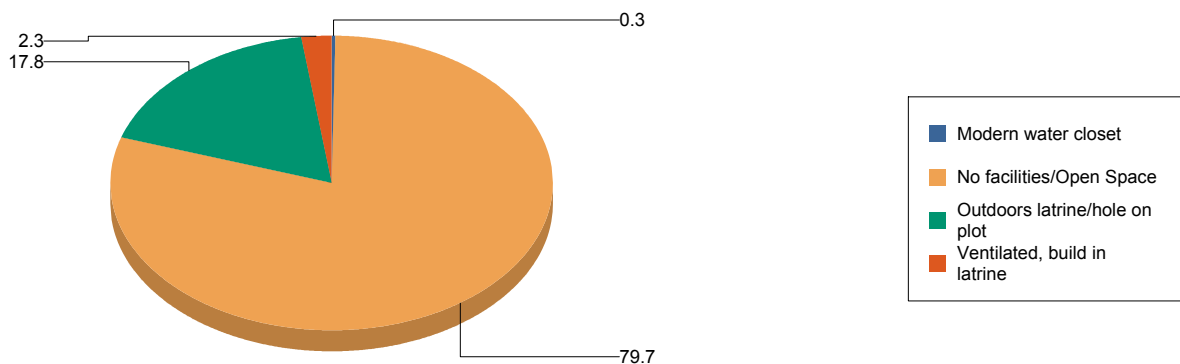
Wereda ABALA

Selected Indicator

Household Access to Sanitation - Percentage of households with access to different kind of toilet facilities

<u>Type of Toilet Facility</u>	<u>HH Response</u>
Modern water closet	0.28
Ventilated, build in latrine	2.26
Outdoors latrine/hole on plot	17.80
No facilities/Open Space	79.66
<u>HH Sharing Toilet</u>	11.40

Household Responses to the type of toilet facilities in the community





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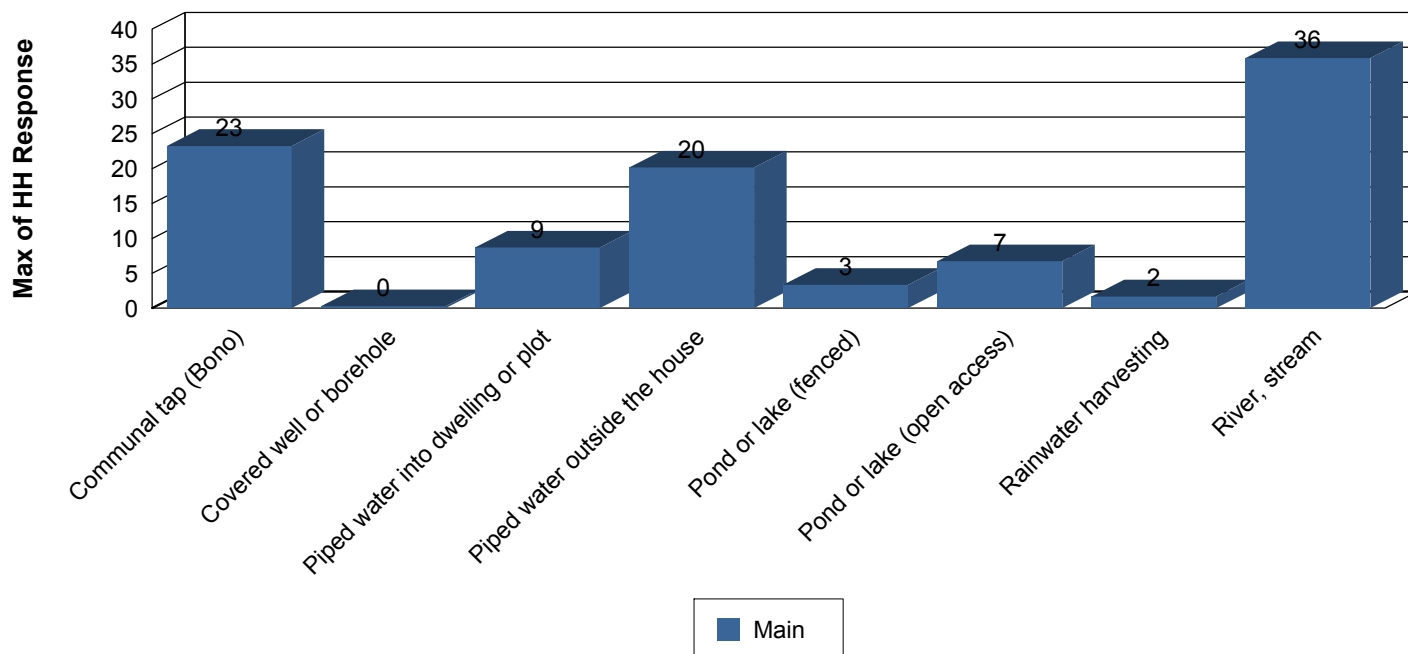
<u>Region</u>	AFAR	<u>Zone</u>	ZONE 2	<u>Wereda</u>	ABALA
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Selected Indicator

**Household Access to Drinking Water - Sources of drinking water for households
(response in %)**

Sources of drinking water for Households	Priority of the Water Source
	Main
Communal tap (Bono)	23.25
Covered well or borehole	0.28
Piped water into dwelling or plot	8.68
Piped water outside the house	20.17
Pond or lake (fenced)	3.36
Pond or lake (open access)	6.72
Rainwater harvesting	1.68
River, stream	35.85

Source of Drinking Water & Type of Source





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Region AFAR Zone ZONE 2 Wereda ABALA

Selected Indicator

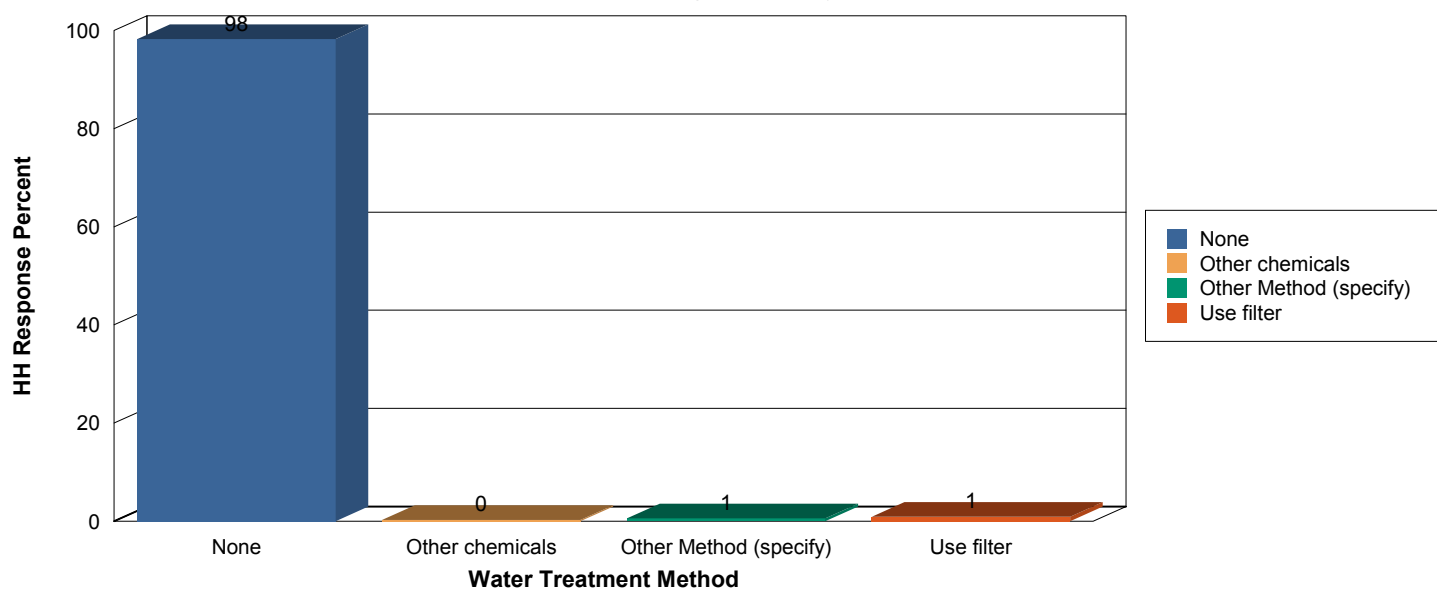
Household Access to Drinking Water - Households methods of treating drinking water

Method of Treating Water

HH Response

Use filter	0.88
Other chemicals	0.29
Other Method (specify)	0.59
None	98.23

Method of Treating Water by Households





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Selected Indicator

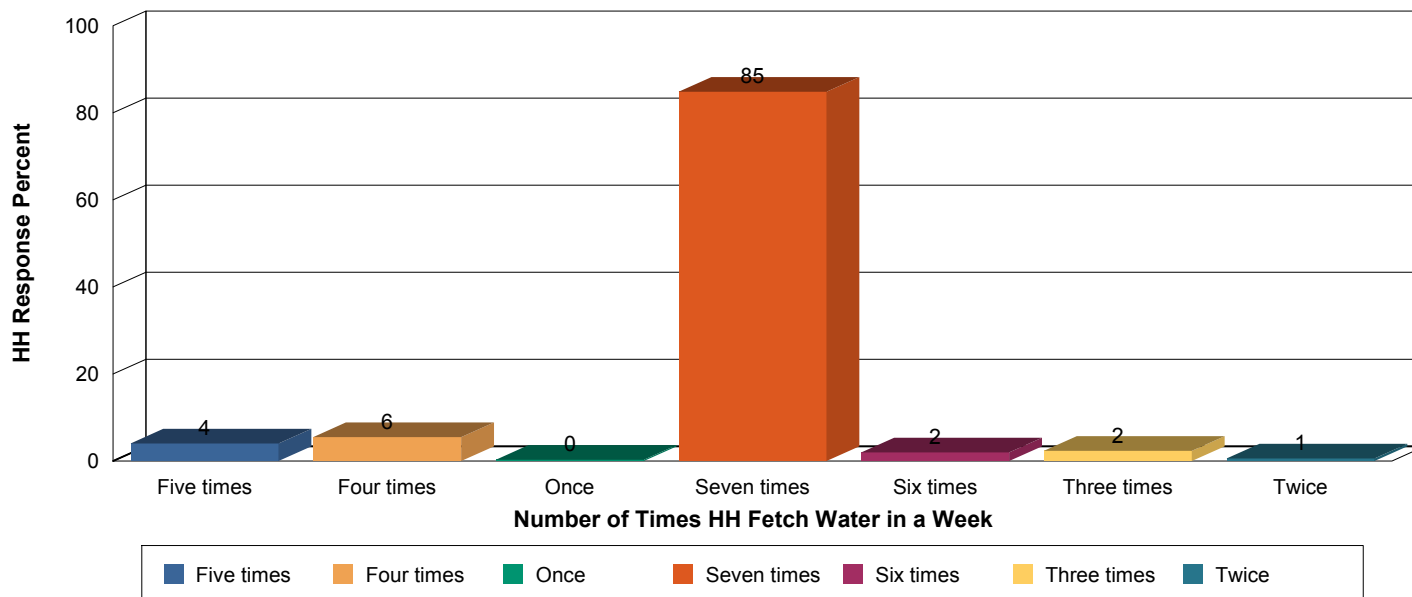
Household Access to Drinking Water - Number of times households fetch water in a week

<u>Number of Times Households Fetch Water in a Week</u>	<u>HH Response</u>
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Once	0.29
Twice	0.58
Three times	2.33
Four times	5.52
Five times	4.07
Six times	2.03
Seven times	84.88

Average Number of Times HH Fetch Water Per Week **6.60**

Number of Times HH Fetch Water in a Week





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Selected Indicator

Household Access to Drinking Water - Time taken per day to fetch water for households

Time Taken To Fetch Water

HH Response

Less than 30 min

46.29

30 min - 1 hr

16.32

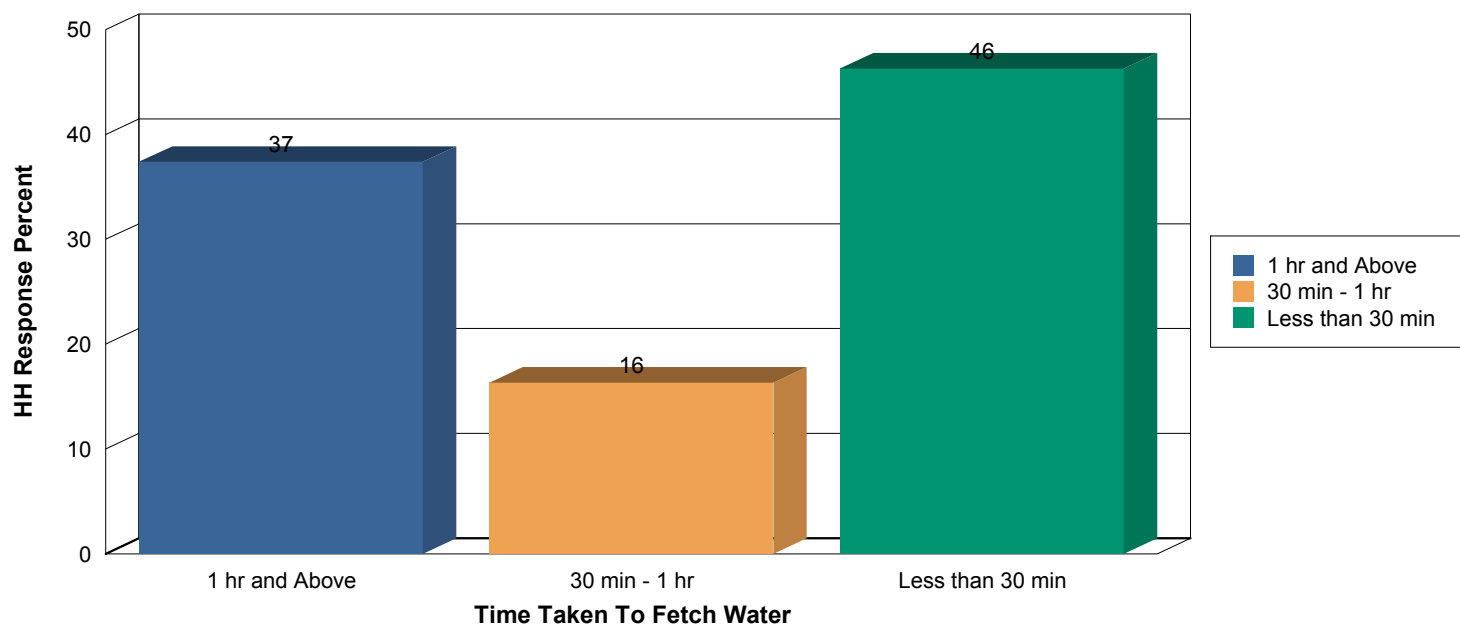
1 hr and Above

37.39

Average Number of Times Taken To Fetch Water

112.00

Time Taken To Fetch Water for the HH



WDRP Indicators

Coping Mechanisms and Preparedness



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Selected Indicator

Capacity: Community Preparedness against Sudden Onset Disasters

KebeleName	Precaution_1	Comment_1	Precaution_2	Comment_2	Precaution_3	Comment_3
WEIDET	Help each other	Food	Asking government	Relief	Praying to God	
WESEMA	Minimizing the number of animals	Minimize loss during the hazard	Buying the food which is important for the future	The long drought season there is no food and grass for their livestock	Buying feed for animals	
ADEKELO	Minimizing the number of animals	Minimize loss during the hazard	Buying the food which is important for the future	In the long drought season there is no feed /grass for their livestock	Buying feed for animals	
ASENGOSA	Praying Allah		Asking government	For relief	Buying feed for animals	
HIDMO	Asking government	To get support	Help each other	To protect disaster		Saving crops and money
ADI HARMELE	Flood	Gabion protection				Saving crops and money
WAKERGUBI	Help each other	With food and money	Praying to Allah		Asking government	For relief
ENDA ASENGOLA	Informing government	Because they have no other option			Asking government	For relief
HARIDEN	Informing government and labour migration	Because they have no other option			Asking government	For relief



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Selected Indicator **Capacity: Community Preparedness against Increase in Disaster Intensity**

KebeleName	Precaution_1	Comment_1	Precaution_2	Comment_2	Precaution_3	Comment_3
WEIDET	Migrate	For labour work				
GELAISO	Decrease food intake per day		Migration	The youth migrate to urban area for labour work		
WESEMA	Selling animals (especially male animals)		Migration to grass and water area	Travelling long distance to search for feed and water		
ADEKELO	Selling animals (especially male animals)		Migration to grass and water area	Travelling long distance to search for feed and water		
ASENGOSA	Migrate	For labour work	Help each other	Food		
HIDMO	For emergency					
ADI HARMELE	Flood diversion works	Because there is no flood diversion and protection structure				
WAKERGUBI	Praying to Allah		Migrate	For labour work and pasture		
ENDA ASENGOLA	Labour migration		Selling of their animals	Reduce the number of animals		
HARIDEN	Selling animals					



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Selected Indicator

Capacity: Community Preparedness against Disasters

Kebele Name	Precaution 1	Comment 1	Precaution 2	Comment 2	Precaution 3	Comment 3
ADEKELO	Collection of food and feed	The use of the risk period	Buying feed for pregnant animals	Additional feed for pregnant animals	Separating animals according to species and age	The minimize the number of animals according their importance
ENDA ASENGOLA	Protecting environment	To protect shortage of food	By protecting their animals			
HARIDEN	Protecting environment	To protect shortage of food	By protecting their animals			
WESEMA	Collection of food and feed	The use of the risk period	Buying feed for pregnant animals	Additional feed for pregnant animals	Separating animals according to species and age	The minimize the number of animals according their importance



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Selected Indicator Hazard: Coping and recovering during last Disaster

Kebele Name ADEKELO

Type of Disaster(s) Drought, conflict, animal disease

Coping Strategy Help each other, asking government support, praying to Allah

Description Crops, money, relief, to get rain fall an peace

Recovery Strategy Relief

Description

Community Participation Ways Sharing food and money

Description

Kebele Name ADI HARMELE

Type of Disaster(s) Drought, flood, pest

Coping Strategy Asking government support, helping each other and migration

Description

Recovery Strategy No

Description

Community Participation Ways Sharing food and money

Description



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Selected Indicator Hazard: Coping and recovering during last Disaster

Kebele Name ASENGOSA

Type of Disaster(s) Drought, water problem, flooding, animal disease

Coping Strategy Help each other, relief aid

Description Food and money

Recovery Strategy Construct gabion, saving

Description For diversion

Community Participation Ways Sharing food and money

Description

Kebele Name ENDA ASENGOLA

Type of Disaster(s) Animal disease

Coping Strategy Food aid from WFP and government

Description Migration of people in group from their place to other area

Recovery Strategy Participating in food for work activities

Description

Community Participation Ways

Description



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Selected Indicator Hazard: Coping and recovering during last Disaster

Kebele Name GELAISO

Type of Disaster(s) Drought, conflict, animal disease

Coping Strategy Help each other, asking government support, praying to Allah

Description Crops, money, relief, to get rain fall an peace

Recovery Strategy Relief

Description

Community Participation Ways Sharing food and money

Description

Kebele Name HARIDEN

Type of Disaster(s) Drought, animals disease

Coping Strategy Aid from WFP

Description

Recovery Strategy Migration of people in group from their place to another place

Description

Community Participation Ways

Description



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Selected Indicator Hazard: Coping and recovering during last Disaster

Kebele Name HIDA RURAL

Type of Disaster(s)	Drought
Coping Strategy	Labour migration, praying to God
Description	Relief
Recovery Strategy	
Description	
Community Participation Ways	Sharing food and money
Description	Buying foods

Kebele Name HIDMO

Type of Disaster(s)	Drought, flood, pest
Coping Strategy	Asking government support, helping each other and migration
Description	
Recovery Strategy	No
Description	No
Community Participation Ways	Sharing food and money
Description	



Wereda Disaster Risk Profile

National Disaster Risk Management Commission (NDRMC)



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Region	AFAR	Zone	ZONE 2	Wereda	ABALA
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Selected Indicator Hazard: Coping and recovering during last Disaster

Kebele Name WAKERGUBI

Type of Disaster(s) Drought, flood, pest

Coping Strategy Asking government support, helping each other and migration

Description

Recovery Strategy No

Description No

Community Participation Ways Sharing food and money

Description

Kebele Name WEIDET

Type of Disaster(s) Drought, pest, flooding

Coping Strategy Flood diversion, sweeping pests with leaf

Description Protect erosion

Recovery Strategy Asking government, terracing, gabion

Description Diversion

Community Participation Ways Sharing food and money

Description



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Selected Indicator	Hazard: Coping and recovering during last Disaster				
Kebele Name	WESEMA				
Type of Disaster(s)	Drought, conflict, animal disease				
Coping Strategy	Help each other, asking government support, praying to Allah				
Description	Crops, money, relief, to get rain fall an peace				
Recovery Strategy	Relief				
Description					
Community Participation Ways	Sharing food and money				
Description					



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Selected Indicator **Capacity: Type Community Participation**

<u>Kebele Name</u>	<u>Levels Comm Participation</u>	<u>Changes In Last Decade</u>
HIDA RURAL	The level of cooperation is good	No change
WEIDET	Diversion, weeding, ploughing, relief aid	No change
ASENGOSA	Very good, cooperate for all work	Increased
HIDMO	Diversion, water harvesting (digging of land), harvesting ploughing	Increased
ADI HARMELE	Our kebele people are cooperative	No change
WAKERGUBI	Very good (for diversion), ploughing, sowing, harvesting, funeral	Increased



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Selected Indicator

**Capacity: Recovery from Losses from Disasters - Percentage of Households who
have managed to recover from losses of disasters**

Percentage of households who have managed to recover from losses of disasters

31.90 %

Comments



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Selected Indicator

Capacity: Coping Strategies Adopted by Households - Main coping strategies adopted by households to recover from respective losses

Type of Coping Strategy Adopted	Type of Loss						
	Crop damage	Illness/health problems	Livestock damage	Loss of savings	Lost access to grazing land	Lost access to water source	Physical damages on houses and property
Borrowing of food or cash (including purchasing food on credit)	16.70		66.70	16.70			
Collection of wild food			100.00				
Consumption rather than sale of crop surplus	66.70	16.70					16.70
Increased working hours	33.30		33.30		33.30		



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Selected Indicator

Capacity: Coping Strategies Adopted by Households - Main coping strategies adopted by households to recover from respective losses

Type of Coping Strategy Adopted

Type of Loss

	Crop damage	Illness/health problems	Livestock damage	Loss of savings	Lost access to grazing land	Lost access to water source	Physical damages on houses and property
Limit portion size at meals			16.70				
Long-term / permanent migration (including distress migration of whole families)			100.00				
Reduced expenditure on health and education (including taking children out of school)			100.00				
Reduced expenditure on non-essential items (beer, cigarettes, clothes, meat, etc.)	25.00		41.70	8.30	16.70		8.30



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Selected Indicator

Capacity: Coping Strategies Adopted by Households - Main coping strategies adopted by households to recover from respective losses

Type of Coping Strategy Adopted				Type of Loss			
	Crop damage	Illness/health problems	Livestock damage	Loss of savings	Lost access to grazing land	Lost access to water source	Physical damages on houses and property
Rely on less preferred and less expensive food			100.00				
Restrict consumption by adults in order for small children to eat						100.00	
Sale of non-productive assets (Jewelry, clothing, etc.)	50.00		50.00				
Seek alternative or additional jobs	26.70	13.30	53.30		6.70		



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Selected Indicator

Capacity: Coping Strategies Adopted by Households - Main coping strategies adopted by households to recover from respective losses

Type of Coping Strategy Adopted				Type of Loss			
	Crop damage	Illness/health problems	Livestock damage	Loss of savings	Lost access to grazing land	Lost access to water source	Physical damages on houses and property
Sell more livestock than usual			75.00		25.00		
Sending children of household for work			66.70		33.30		
Short-term / seasonal labor migration	50.00	8.30	33.30		8.30		



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Selected Indicator

**Capacity: Coping Strategies Adopted by Households - Percentage of households
by frequency of main coping strategies adopted**

Type of Coping Strategy Adopted	Frequency of Adoption				
	1 - Daily	2 - Often (1-2 times/week)	3 - Sometimes (2-3 times/month)	4 - Seldom (1-3 times in 6 months)	5 - Never
Borrowing of food or cash (including purchasing food on credit)		25.00		75.00	
Consumption rather than sale of crop surplus		29.63	7.41	48.15	14.81
Increased working hours				66.67	8.33
Limit portion size at meals			100.00		
Reduced expenditure on non-essential items (beer, cigarettes, etc)	14.89	12.77	6.38	61.70	4.26
Reduced expenditure on productive inputs (fertilizer, seeds, etc)				100.00	
Rely on less preferred and less expensive food				100.00	
Sale of productive assets (land, farm implements, vehicle, etc)				100.00	
Seek alternative or additional jobs	13.95	30.23	27.91	23.26	4.65
Sell more livestock than usual		19.57	4.35	71.74	4.35
Sending children of household for work			20.00	80.00	
Short-term / seasonal labor migration	13.79	27.59	6.90	51.72	



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Selected Indicator

**Capacity: Coping Strategies Adopted by Households - Percentage of households
by frequency of main coping strategies adopted**

Type of Coping Strategy Adopted	Frequency of Adoption				
	1 - Daily	2 - Often (1-2 times/week)	3 - Sometimes (2-3 times/month)	4 - Seldom (1-3 - times in 6 months)	5 - Never
Skip entire day without eating					100.00



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Selected Indicator

Capacity: Alternative Livelihood Sources - Alternative livelihood sources suggested by the community

Kebele Name	Work Option 1	Comment 1	Work Option 2	Comment 2	Work Option 3	Comment 3
HIDA RURAL	Daily labour	Road construction	Migrate to Arab countries	To get money		
WEIDET	Selling of fire wood	There is no other alternative	Daily labour	Road construction		
GELAISO	Daily labour	Road construction				
WESEMA	Daily labour in road construction	To get additional income				
ADEKELO	Daily labour in road construction	To get additional income				
ASENGOSA	Daily labour	Road construction	Government labour	Opportunities are good		
HIDMO	Daily labour	Road construction				
ADI HARMELE	Daily labour	Road construction	Collecting and selling fire wood	For more income		
WAKERGUBI	Petty trade	The Kebele is near to Aballa town	Daily labour	There is road construction		
ENDA ASENGOLA	Animal rearing	No other option	By gathering honey from farming place			
HARIDEN	Animal rearing	No other option	Daily labour in school and road construction			



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Selected Indicator

Capacity: Recovery from Losses from Disasters - Percentage of households
recovered from past disasters by type of Disasters

<u>Type of Disaster</u>	<u>Recovered Percentage</u>
Drought	44.63
Flood	11.16
Landslide	0.41
Crop diseases	5.79
Livestock diseases	33.47
Human diseases	3.72
Storms / hail storm	0.41
Forest Fires	0.41



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Selected Indicator:

Capacity: Recovery from Losses from Disasters - Proportion of households
recovered by type of Losses

<u>Type of Loss</u>	<u>Percentage</u>
Physical damages on houses and property	5.53
Crop damage	16.60
Livestock damage	40.85
Death of household members	0.85
Illness/health problems	11.49
Loss of income	9.36
Loss of savings	2.13
Lost access to grazing land	8.94
Lost access to water source	3.40
Had to flee/change residence area	0.85



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Selected Indicator

Capacity: Coping Options if More Resources Available - What coping strategy could be adopted if more resource were available?

Coping Strategy To Be Adopted

Response (%)

Adaptation of economic activities to hazards season (e.g. cropping cycle, short term crops, etc.)	54.08
Storage of food and other necessities	40.85
Physical protection of buildings and property	4.51
Changing residence area/migration	0.28
None	0.28



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Zone ZONE 2

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Selected Indicator:

Capacity: Coping Strategies Adopted by Households - Percentage of households by major type of coping strategies adopted (at least once)

<u>Coping Strategy Adopted</u>	<u>Main Strategy</u>	<u>Secondary Strategy</u>
Reduced expenditure on non-essential items (beer, cigarettes, clothes, meat, etc.)	21.05	16.00
Sell more livestock than usual	20.61	5.33
Seek alternative or additional jobs	18.86	21.33
Short-term / seasonal labor migration	13.16	16.00
Consumption rather than sale of crop surplus	12.28	8.00
Increased working hours	5.26	4.00
Sending children of household for work	2.19	4.00
Rely on less preferred and less expensive food	2.19	1.33
Borrowing of food or cash (including purchasing food on credit)	1.75	8.00
Sale of productive assets (land, farm implements, vehicle, etc.)	0.88	2.67
Reduced expenditure on productive inputs (fertilizer, seeds, livestock drugs, etc.)	0.44	1.33
Limit portion size at meals	0.44	1.33
Reduce number of meals eaten in a day	0.44	8.00
Skip entire day without eating	0.44	1.33



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Selected Indicator

Capacity: Coping Strategies Adopted by Households - Main coping strategies adopted by households for respective disasters

Coping Strategies Adopted Types of disasters for which HHs in the community adopt the listed Coping Strategies

	Crop diseases	Drought	Flood	Forest Fires	Human diseases	Landslide	Livestock diseases	Storms / hail storm
Borrowing of food or cash (including purchasing food on credit)	25.00	25.00					50.00	
Consumption rather than sale of crop surplus	14.30	64.30	7.10				10.70	3.60
Increased working hours	8.30		16.70		16.70		33.30	



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Zone ZONE 2

Wereda ABALA

Selected Indicator

Capacity: Coping Strategies Adopted by Households - Main coping strategies adopted by households for respective disasters

Coping Strategies Adopted		Types of disasters for which HHs in the community adopt the listed Coping Strategies						
	Crop diseases	Drought	Flood	Forest Fires	Human diseases	Landslide	Livestock diseases	Storms / hail storm
Limit portion size at meals	100.00							
Reduce number of meals eaten in a day		100.00						
Reduced expenditure on non-essential items (beer, cigarettes, etc)		72.90		2.10			25.00	



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Selected Indicator

Capacity: Coping Strategies Adopted by Households - Main coping strategies adopted by households for respective disasters

Coping Strategies Adopted Types of disasters for which HHs in the community adopt the listed Coping Strategies

	Crop diseases	Drought	Flood	Forest Fires	Human diseases	Landslide	Livestock diseases	Storms / hail storm
Reduced expenditure on productive inputs (fertilizer, seeds, etc)		100.00						
Rely on less preferred and less expensive food		80.00					20.00	
Sale of productive assets (land, farm implements, vehicle, etc)	50.00	50.00						



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Selected Indicator

Capacity: Coping Strategies Adopted by Households - Main coping strategies adopted by households for respective disasters

Coping Strategies Adopted **Types of disasters for which HHs in the community adopt the listed Coping Strategies**

	Crop diseases	Drought	Flood	Forest Fires	Human diseases	Landslide	Livestock diseases	Storms / hail storm
Seek alternative or additional jobs	9.30	34.90	16.30		4.70		34.90	
Sell more livestock than usual	4.30	25.50	4.30		2.10		63.80	
Sending children of household for work		40.00	40.00				20.00	



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Selected Indicator

Capacity: Coping Strategies Adopted by Households - Main coping strategies adopted by households for respective disasters

Coping Strategies Adopted Types of disasters for which HHs in the community adopt the listed Coping Strategies

	Crop diseases	Drought	Flood	Forest Fires	Human diseases	Landslide	Livestock diseases	Storms / hail storm
Short-term / seasonal labor migration		40.00	20.00		6.70	3.30	30.00	
Skip entire day without eating			100.00					



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Selected Indicator

Capacity: Coping Strategies Adopted by Households - Secondary coping strategies adopted by households for respective disasters

	Crop diseases	Drought	Flood	Human diseases	Livestock diseases
Borrowing of food or cash (including purchasing food on credit)	16.70	33.30		16.70	33.30
Consumption rather than sale of crop surplus		66.70	16.70		16.70
Increased working hours	33.30	66.70			
Limit portion size at meals		100.00			
Long-term / permanent migration (including distress migration)		100.00			
Reduced expenditure on health and education	100.00				



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Selected Indicator

Capacity: Coping Strategies Adopted by Households - Secondary coping strategies adopted by households for respective disasters

	Crop diseases	Drought	Flood	Human diseases	Livestock diseases
Reduced expenditure on non-essential items (beer, cigarettes, etc)		58.30	16.70		25.00
Rely on less preferred and less expensive food		100.00			
Restrict consumption by adults in order for small children		100.00			
Sale of non-productive assets (jewellery, clothing, etc.)	50.00				50.00
SC-USA		100.00			
Seek alternative or additional jobs	18.80	56.30	6.30		18.80



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Selected Indicator

Capacity: Coping Strategies Adopted by Households - Secondary coping strategies adopted by households for respective disasters

	Crop diseases	Drought	Flood	Human diseases	Livestock diseases
Sell more livestock than usual		50.00			50.00
Sending children of household for work		33.30			66.70
Short-term / seasonal labor migration	25.00	58.30	8.30		8.30

WDRP Indicators

Community

Perceptions and Suggestions



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Selected Indicator

Interventions: Community Perception on Mediums to Influence DRM Actors - Community perception on the effectiveness of institutional channels to use to influence DRM actors

Kebele Name	Institution_1	Process_Description	Institution_2	Process_Description	Institution_3	Process_Description
ADEKELO	No	No				
ADEKELO	Wereda administration	Direct to wereda administration	Through elders	They are respected in the community	Dagu sytem	Sharing information
ADI HARMELE	Wereda administration	Direct to wereda administration	PARDO	Direct		
ENDA ASENGOLA	Wereda administration	Direct to wereda administration	Early warning			
HARIDEN	Wereda administration	Direct to wereda administration	Early warning			
HIDMO	Wereda administration	Direct to wereda administration	PARDO	Ask first development agent and wereda		
WEIDET	Disaster Risk Management	PSNP	PARDO		Wereda Administration	
WESEMA	Wereda administration	Direct to wereda administration	Through elders	They are respected in the community	Dagu sytem	Sharing information



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Selected Indicator

Interventions: Community Perception on their Knowledge used in DRM Process -
Perception of the community on how their knowledge influences the priorities
and measures of DRM actors

<u>KebeleName</u>	<u>Community Suggestions</u>
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HIDA RURAL

No



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Selected Indicator

Interventions: Suggestions to DRM Actors in the Area - Community suggested measures to DRM actors in the area for effective DRM actions

Kebele Name	Measure 1	Comment 1	Measure 2	Comment 2	Measure 3	Comment 3
ADEKELO	Awareness creation on disaster					
ASENGOSA	No					
HIDMO	Awareness creation	To protect disaster	Saving and using technology	Early maturing crop, construct flood diversion	Relief aid	Wheat
WAKRGUBI	Supplying gabion	For flood diversion	Small hand tools	For construction of flood diversion structures		
WEIDET	Supplying gabion	For flood diversion	Small hand tools		Food aid	Safety net program
WESEMA	Awareness creation on disaster					
HIDA RURAL	No	No				



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Selected Indicator

Economic Vulnerability: Community Suggestions to Improve Economic Situation - Community suggested measures to improve the economic situation of the area

<u>KebeleName</u>	<u>Measure 1</u>	<u>Comment 1</u>	<u>Measure 2</u>	<u>Comment 2</u>	<u>Measure 3</u>	<u>Comment 3</u>
HIDA RURAL	Cooperative	For fattening				
WEIDET	Daily labour	Road construction				
GELAISO	No					
WESEMA	No					
ADEKELO	No					
ASENGOSA	Daily labour	Road construction				
HIDMO	No					
ADI HARMELE	Daily labour	Road construction	Small shop			
WAKERGUBI	Daily labour	Road construction	Irrigation			
ENDA ASENGOLA	Digging of clean water		Constructing road		Digging of pond	
HARIDEN	Digging of pond		Digging of clean water		Construct the road	



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Selected Indicator Community Awareness of Disaster Risk Management System and Actors					
Kebele Name ADEKELO					
Institution 1	Governmental organization				
Responsibility	Food security				
Activity					
Institution 2					
Responsibility					
Activity					
Institution 3					
Responsibility					
Activity					
Kebele Name ADI HARMELE					
Institution 1	Aballa Wereda PARDO				
Responsibility	To give few gabion				
Activity	Diversion				
Institution 2					
Responsibility					
Activity					
Institution 3					
Responsibility					
Activity					



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Selected Indicator Community Awareness of Disaster Risk Management System and Actors					
Kebele Name ASENGOSA					
Institution 1	DRM				
Responsibility	Food for work				
Activity	Terrace, diversion				
Institution 2	PRADO				
Responsibility					
Activity	Terrace, diversion				
Institution 3					
Responsibility					
Activity					
Kebele Name ENDA ASENGOLA					
Institution 1	No				
Responsibility					
Activity					
Institution 2					
Responsibility					
Activity					
Institution 3					
Responsibility					
Activity					



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Selected Indicator Community Awareness of Disaster Risk Management System and Actors					
Kebele Name GELAISO					
Institution 1	Wereda Administration				
Responsibility					
Activity					
Institution 2	Wereda Police				
Responsibility					
Activity					
Institution 3	Wereda PARDO				
Responsibility	Relief				
Activity					
Kebele Name HARIDEN					
Institution 1	No				
Responsibility					
Activity					
Institution 2					
Responsibility					
Activity					
Institution 3					
Responsibility					
Activity					



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Selected Indicator Community Awareness of Disaster Risk Management System and Actors					
Kebele Name HIDA RURAL					
Institution 1	Aballa PARDO				
Responsibility	Construction				
Activity	Construct Gabion				
Institution 2	Aballa PARDO				
Responsibility	Diversion				
Activity	Give pesticide				
Institution 3	Aballa PARDO				
Responsibility	Food for work				
Activity					
Kebele Name HIDMO					
Institution 1	Aballa Wereda				
Responsibility	Gabion				
Activity	Diversion				
Institution 2	PRADO				
Responsibility	Relief				
Activity	Safety net				
Institution 3					
Responsibility					
Activity					



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Selected Indicator Community Awareness of Disaster Risk Management System and Actors					
Kebele Name WAKERGUBI					
Institution 1	Aballa PARDO				
Responsibility	Gabion, small hand tools				
Activity	For diversion, for construction				
Institution 2					
Responsibility					
Activity					
Institution 3					
Responsibility					
Activity					
Kebele Name WEIDET					
Institution 1	No				
Responsibility					
Activity					
Institution 2					
Responsibility					
Activity					
Institution 3					
Responsibility					
Activity					



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Selected Indicator	Community Awareness of Disaster Risk Management System and Actors				
<u>Kebele Name</u>	WESEMA				
<u>Institution 1</u>	Governmental organization				
<u>Responsibility</u>	Food security				
<u>Activity</u>					
<u>Institution 2</u>					
<u>Responsibility</u>					
<u>Activity</u>					
<u>Institution 3</u>					
<u>Responsibility</u>					
<u>Activity</u>					



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Zone ZONE 2

Wereda ABALA

Selected Indicator

Community Perception of DRM System and Actors - Perception of the community on the effectiveness of DRM system in helping them to prevent, cope and recover from disasters

<u>KebeleName</u>	<u>Prevention</u>	<u>Coping</u>	<u>Recovery</u>	<u>Overall Effectiveness</u>
ADEKELO	75% good			
ASENGOSA	Not enough	More fund is needed		
HIDMO	Diversion, animal disease		Relief aid	
WAKERGUBI	Not enough	Not enough		
WESEMA	67% good			
HIDA RURAL	Good	Not enough		



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Selected Indicator

Major Public Interventions Desired - Percentage of households by type of intervention desired

Major public interventions desired by the community	Degree of Importance for the community		
	1st	2nd	3rd
Better job	31.74	9.60	9.25
Cash transfers/social assistance	0.28	8.19	1.16
Cash-for-work activities (not employment)	0.84	12.99	3.47
Food-for-work activities	9.27	11.30	17.92
Medical assistance / access to health facilities	1.97	5.08	10.98
Micro-credit programmes	3.93	21.19	18.50
Other	1.69	0.28	2.31
Rental subsidies	0.00	0.28	0.00
School fees for children	1.40	3.11	1.45
Subsidized food	1.97	2.54	2.31
Subsidized health care	4.49	11.86	22.25
Supplementary feeding for women and young children	1.40	4.24	8.09
Food aid	40.17	7.34	1.16
Walda Ibsa	0.84	1.98	1.16

WDRP Indicators

Other Community Characteristics



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<u>Region</u>	AFAR	<u>Zone</u>	ZONE 2	<u>Wereda</u>	ABALA
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Selected Indicator Capacity: Community Based Organizations in the Wereda

<u>Name Of Organization</u>	<u>Est. Year</u>	<u>Formal/Informal</u>	<u>Type of Members</u>	<u>Activity</u>
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<u>Kebele Name</u>	ADI HARMELE			
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Farmer Group Association	2002	Formal	2002	To distribute sugar
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Animal Drug Association	1999	Formal		Provide animal drugs
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<u>Kebele Name</u>	ASENGOSA			
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Market Association	2002	Formal	Women and men	Animal fattening and selling, Animal buying and selling
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Youth Association	2002	Formal	Young 18-35	Animal buying and selling
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<u>Kebele Name</u>	GELAISO			
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Youth Association	2001	Formal	18-35	Income generation activities
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<u>Kebele Name</u>	HIDA RURAL			
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Youth Association	2001	Formal	Youth	Ploughing, pest control
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Erkudi cooperative	1996	Formal	Older, farmer association	Ploughing
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<u>Kebele Name</u>	WAKERGUBI			
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Women Association	1998	Formal	18-35	
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Youth Association	1999	Formal	18-35	
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<u>Kebele Name</u>	WEIDET			
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Youth Association	2001	Formal	18-35 age	Income generation activities
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Data Collected Date

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Region AFAR

Zone ZONE 2

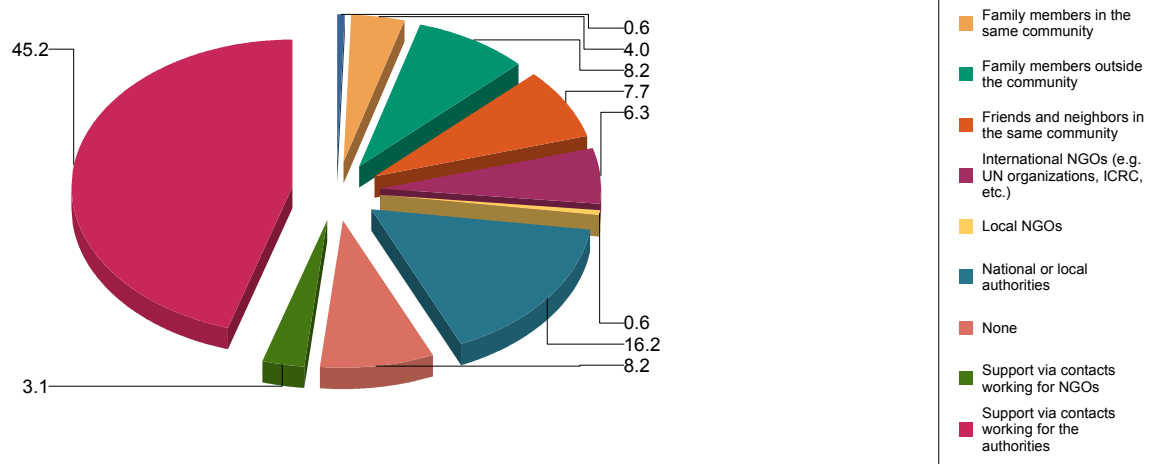
Wereda ABALA

Selected Indicator

Supporting Agencies against Disasters - Percentage of households by supporting institutions to handle or recover from disaster damages

<u>Supporting Agencies Against Disasters</u>	<u>Response Percentage</u>
National or local authorities	16.19
International NGOs (e.g. UN organizations, ICRC, etc.)	6.25
Local NGOs	0.57
Family members in the same community	3.98
Friends and neighbors in the same community	7.67
Family members outside the community	8.24
Support via contacts working for the authorities	45.17
Support via contacts working for NGOs	3.13
None	8.24
DK	0.57

Supporting Agencies Against Disasters





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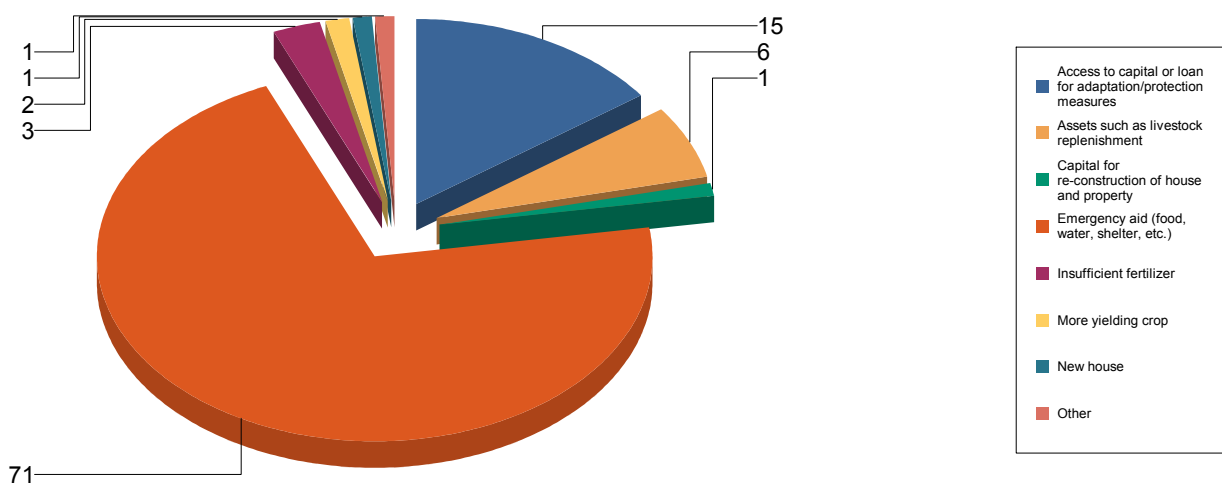
<u>Region</u>	AFAR	<u>Zone</u>	ZONE 2	<u>Wereda</u>	ABALA
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Selected Indicator

Types of support received by households during disasters

<u>Type of Support Provided By Supporting Agencies</u>	<u>Response Percentage</u>
Emergency aid (food, water, shelter, etc.)	71.17
Capital for re-construction of house and property	0.92
New house	0.92
Access to capital or loan for adaptation/protection measures	15.03
Other	1.23
Insufficient fertilizer	2.76
More yielding crop	1.53
Assets such as livestock replenishment	6.44

Type of Support Provided By Supporting Agencies





Wereda Disaster Risk Profile

National Disaster Risk Management Commission (NDRMC)



Data Collected Date

Wednesday, March 3, 2021

Region		AFAR	Zone	ZONE 2	Wereda	ABALA
Selected Indicator		Government Actors in the Field of Disaster Risk Management - Government actors and their activities in the field of Disaster Risk Managements				
Government Institution		Wereda Administration Office				
Activity	Resettlement of the population					
Description						
Activity	Soil and water conservation					
Description						
Activity	Animal Health					
Description						
Activity						
Description						
Government Institution		Wereda Agriculture Office				
Activity	Pesticide provision, vaccine produce, treatment pr					
Description						
Activity	Gabion, small hand tools, training					
Description						
Activity						
Description						
Activity						
Description						



Wereda Disaster Risk Profile

National Disaster Risk Management Commission (NDRMC)



Data Collected Date

Wednesday, March 3, 2021

Region	AFAR	Zone	ZONE 2	Wereda	ABALA
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Selected Indicator	Government Actors in the Field of Disaster Risk Management - Government actors and their activities in the field of Disaster Risk Managements
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Government Institution	Wereda Disaster Preparedness and Prevention Office (DPPO)
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Activity	Early warning, supply food and medicine
Description	
Activity	Store food and medicine, distribute
Description	
Activity	
Description	
Activity	
Description	

Government Institution	Wereda Education Office
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Activity	Early warning, informal school establishment, supp
Description	
Activity	Store food educational materials, distribution
Description	
Activity	
Description	
Activity	
Description	



Wereda Disaster Risk Profile

National Disaster Risk Management Commission (NDRMC)



Data Collected Date

Wednesday, March 3, 2021

Region	AFAR	Zone	ZONE 2	Wereda	ABALA
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Selected Indicator	Government Actors in the Field of Disaster Risk Management - Government actors and their activities in the field of Disaster Risk Managements
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Government Institution	Wereda Health Office
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Activity	Health extension
Description	
Activity	Vaccination
Description	
Activity	Examination of pregnant and infants
Description	
Activity	HIV/AIDS exam
Description	

Government Institution	Wereda Water Resource Development Office
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Activity	Water sanitation control
Description	
Activity	Active response on any problems
Description	
Activity	
Description	
Activity	
Description	



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<u>Region</u>	AFAR	<u>Zone</u>	ZONE 2	<u>Wereda</u>	ABALA
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Selected Indicator	Non-Government Actors in the Field of Disaster Risk Management - Non-government actors and their activities in the field of Disaster Risk Management
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<u>Non Governmental Actors in the Wereda</u>	<u>Activities</u>
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WFP	Nutritional aid to students, special support for female students by providing food and oil
FAO	Vaccination
Walda Tukuma	Nutrition, animal treatment
OPDO Office	Training, planting



Data_Collected_Date

November 13, 2014

Region	AFAR	Zone	ZONE 2	Wereda	ABALA
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Selected Indicator: Interventions: Community Suggestions to Development Actors

Kebele Name	BIKILTU GUDINA				
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Type Of Disaster 1	Drought	Type Of Disaster 3
Early Warning Indicator	Low rain fall, drying of plant, high sunlight	Early Warning Indicator
Preparedness Measure		Preparedness Measure
Type Of Disaster 2	Flood	Type Of Disaster 4
Early Warning Indicator	High rain fall	Early Warning Indicator
Preparedness Measure	Constructing traditional flood diversion methods	Preparedness Measure

Kebele Name	WEIDET				
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Type Of Disaster 1	Drought	Type Of Disaster 3
Early Warning Indicator	Starting month of rain	Early Warning Indicator
Preparedness Measure	Saving	Preparedness Measure
Type Of Disaster 2	Flooding	Type Of Disaster 4
Early Warning Indicator	High rain fall from high land area	Early Warning Indicator
Preparedness Measure	Constructing traditional flood diversion methods	Preparedness Measure

Region	AFAR	Zone	ZONE 2	Wereda	ABALA
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Selected Indicator: Interventions: Community Suggestions to Development Actors

Kebele Name		GELAISO	
Type Of Disaster 1	Drought	Type Of Disaster 3	
Early Warning Indicator	Starting month of rain	Early Warning Indicator	
Preparedness Measure	Saving, migration	Preparedness Measure	
Type Of Disaster 2	Conflict	Type Of Disaster 4	
Early Warning Indicator		Early Warning Indicator	
Preparedness Measure	Fight	Preparedness Measure	

Kebele Name		WESEMA	
Type Of Disaster 1	Drought	Type Of Disaster 3	
Early Warning Indicator	Hotness of the area	Early Warning Indicator	
Preparedness Measure	They buy food items	Preparedness Measure	
Type Of Disaster 2	Animal disease	Type Of Disaster 4	
Early Warning Indicator	Elimination of grasses	Early Warning Indicator	
Preparedness Measure	Leaving the area	Preparedness Measure	

Region	AFAR	Zone	ZONE 2	Wereda	ABALA
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Selected Indicator: Interventions: Community Suggestions to Development Actors

Kebele Name	ADEKELO
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Type Of Disaster 1	Drought	Type Of Disaster 3
Early Warning Indicator	Hotness of the area	Early Warning Indicator
Preparedness Measure	They buy food items	Preparedness Measure
Type Of Disaster 2	Animal disease	Type Of Disaster 4
Early Warning Indicator	Elimination of grasses	Early Warning Indicator
Preparedness Measure	Leaving the area	Preparedness Measure

Kebele Name	ASENGOSA
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Type Of Disaster 1	Drought	Type Of Disaster 3
Early Warning Indicator	Starting month of rain	Early Warning Indicator
Preparedness Measure	Saving, migration	Preparedness Measure
Type Of Disaster 2	Animal disease	Type Of Disaster 4
Early Warning Indicator	Body size (very weak)	Early Warning Indicator
Preparedness Measure	Buying of grass	Preparedness Measure

Region	AFAR	Zone	ZONE 2	Wereda	ABALA
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Selected Indicator: Interventions: Community Suggestions to Development Actors

Kebele Name		HIDMO	
Type Of Disaster 1	Drought	Type Of Disaster 3	
Early Warning Indicator	Starting month of rain	Early Warning Indicator	
Preparedness Measure	Saving food	Preparedness Measure	
Type Of Disaster 2	Flood	Type Of Disaster 4	
Early Warning Indicator	Climate condition	Early Warning Indicator	
Preparedness Measure	Construct diversion	Preparedness Measure	

Kebele Name		ADI HARMELE	
Type Of Disaster 1	Flood	Type Of Disaster 3	
Early Warning Indicator	Cloudy, information	Early Warning Indicator	
Preparedness Measure	Flood diversion	Preparedness Measure	
Type Of Disaster 2	Drought	Type Of Disaster 4	
Early Warning Indicator	Low rain fall during April	Early Warning Indicator	
Preparedness Measure	Saving	Preparedness Measure	

Region	AFAR	Zone	ZONE 2	Wereda	ABALA
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Selected Indicator: Interventions: Community Suggestions to Development Actors

Kebele Name	WAKERGUBI
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Type Of Disaster 1	Drought	Type Of Disaster 3
Early Warning Indicator	Shortage of rain fall, if there is no rain in April	Early Warning Indicator
Preparedness Measure	Saving	Preparedness Measure
Type Of Disaster 2	Pest	Type Of Disaster 4
Early Warning Indicator	We do not know	Early Warning Indicator
Preparedness Measure	Buying pesticide	Preparedness Measure

Kebele Name	ENDA ASENGOLA
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Type Of Disaster 1	Drought	Type Of Disaster 3
Early Warning Indicator		Early Warning Indicator
Preparedness Measure	Food for work	Preparedness Measure
Type Of Disaster 2	Animal disease	Type Of Disaster 4
Early Warning Indicator		Early Warning Indicator
Preparedness Measure	Buying drugs	Preparedness Measure

Selected Indicator:

Interventions: Community Suggestions to Development Actors

Kebele Name		HARIDEN	
Type Of Disaster 1	Drought	Type Of Disaster 3	
Early Warning Indicator		Early Warning Indicator	
Preparedness Measure	Food for work	Preparedness Measure	
Type Of Disaster 2	Disease animal	Type Of Disaster 4	
Early Warning Indicator		Early Warning Indicator	
Preparedness Measure	Buying drugs	Preparedness Measure	



Wereda Disaster Risk Profile

National Disaster Risk Management Commission (NDRMC)



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<u>Region</u>	AFAR	<u>Zone</u>	ZONE 2	<u>Wereda</u>	ABALA
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Selected Indicator

Wereda Strengths, weaknesses, opportunities and threats (SWOT) Analysis

<u>Kebele Name</u>	Strength	Weakness	Opportunity	Threat
ADEKELO	No deforestation Use minimum livestock production		Road Pond School (elementary)	
ADI HARMELE	Literate people Training Cooperate to work	Social problems Lack of awareness	Dam construction	Lack of funding Increase severity of disaster
GELAISO	Literate people Good awareness	Social problems Less income	Dam construction	Increased severity of disaster Lack of funding Commitment
HIDMO	High social interaction	Lack of awareness	Enough agricultural land	Lack of funding
WAKERGUBI	High social interaction Literate people	Backward living condition	Dam construction	Increased severity of disaster (flooding)
WEIDET	Literate people Training	Social problems Lack of awareness	Dam construction Terracing Afforestation	Poverty Lack of funding Increase security disaster
WESEMA	No deforestation Use minimum livestock production		Road Pond School (elementary)	
HIDA RURAL	Storage of crop residues Traditional flood protection Storage of crop residues Traditional flood protection	Lack of awareness Social problems		Increased severity of disaster