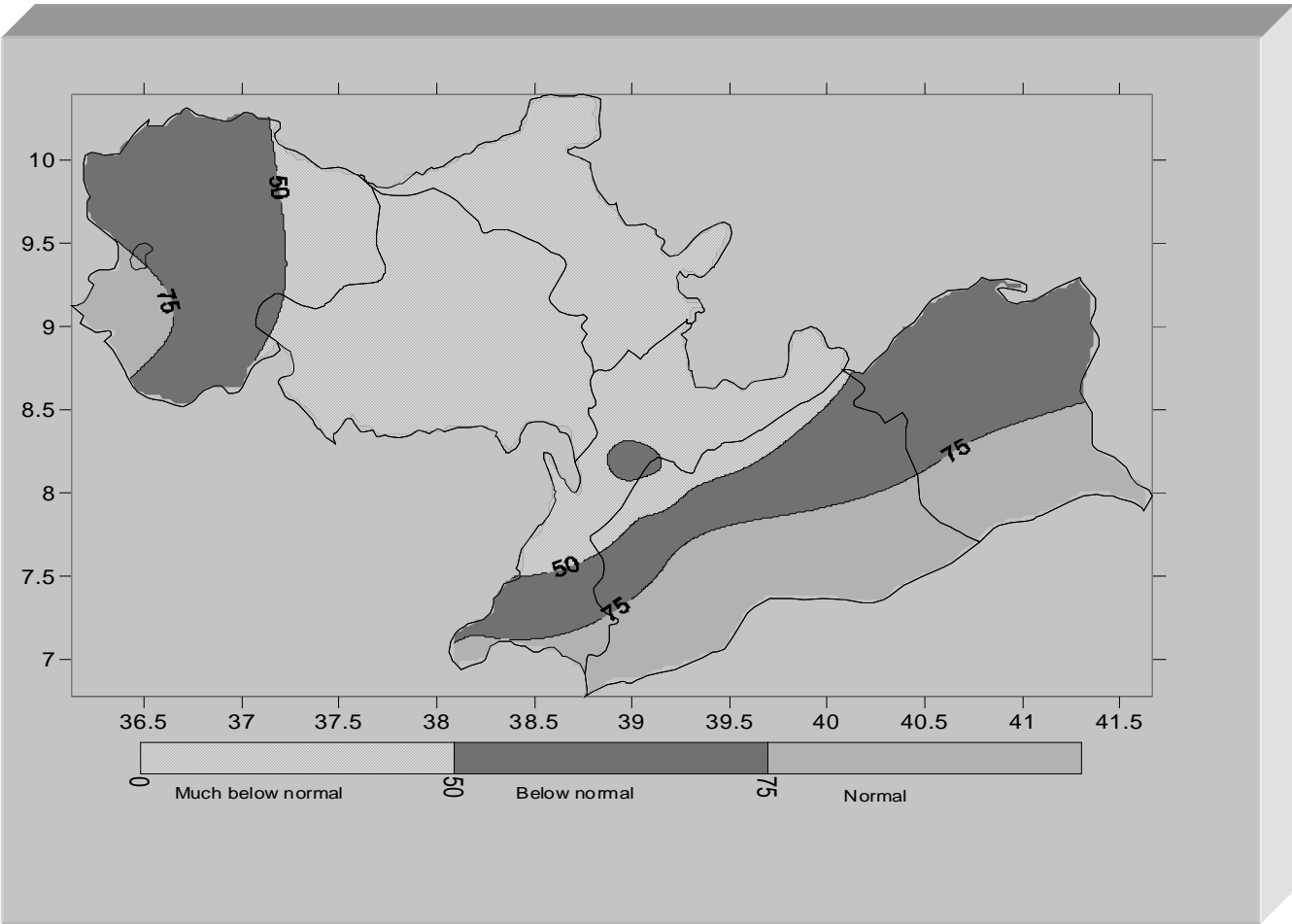


**Seasonal Climate Bulletin**  
**Bega 2007/08**  
**Date of Issue: -1/25/2007**



In general, seasonal rainfall of Bega 2007/2008 had much below normal to normal, specifically east Wellega and Arsi got much below normal-to-normal rainfall, West Harrergie below normal-to-normal rainfall, Shoa got much below normal rainfall except pocket areas of east Shoa (refer fig. 8).

### **Forward**

The information contained in the bulletin is believed to assist many socio-economic activity of the region (Oromia) such as tourism, construction, and Agriculture at most. We strongly advice these sectors for serious follow up of this bulletin for more valuable benefits from the information in the bulletin.

National Meteorological Agency, Adama branch office has issued this bulletin monthly however due to the delay of data from different stations the bulletin will be available for the users just 20 days later from the month marked. This may be improved in the near future with strong improvement of the data exchange method among the meteorological stations.

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***ADAMA***

## 1. Introduction

### 1.1 General

This climatic bulletin contains summary of climatic conditions that prevailed over the zone that administrated under Adama branch office during Bega 2007/2008.

**Bega** is the period from **October** to **January**. It is a harvesting season for various parts of the regions. Bega is normally a dry season characterized by cool nights and early mornings over the high land of north Shoa, west Shoa and high land of western Harrergie and by hot days over various parts of the region. Depending on the influences from mid-latitude rain-bearing systems, some places of north, west and east parts of the region also receive occasional shower rain. However, long term seasonal rainfall of these areas is less than 100mm, and there rainfall contribution to this season is below 10% (reference "Ethiopian climate")

### 1.2 Temperature

During Bega 2007/2008, the highlands of north Shoa, west Shoa and Arsi had cold nights and early mornings. Hence, the extreme minimum temperature values were as low as 1.4<sup>o</sup>c, 1.4<sup>o</sup>c and 1.5<sup>o</sup>c over Arsi Robe, Kulumsa and Darba respectively During Bega 2007/2008(refer table1.2).Day time where hot over pocket areas of East Shoa and east Wellega. However the extreme maximum temperature values were as high as 34.0<sup>o</sup>c, 33.2<sup>o</sup>c and 32.5<sup>o</sup>c over Bako, Mojo and Kokadam respectively (refer table 1.1).

Table1.1 Stations with extreme maximum temperature values of 30.0<sup>o</sup>c and above during Bega 2007/2008.

Station	Extreme maximum Temp.	Month	Date
Bako	34.0	January	2,29
Mojo	33.2	October	5
Kokadam	32.5	January	28
Sodere	32.5	January	14
Tibe	32.5	January	6,12,26
Sibusire	32.0	January	6
Arata	31.6	January	26

Table1.2 Stations with extreme minimum temperature values of 4<sup>o</sup>c and below during Bega 2007/2008.

Station	Extreme	Month	Date
Arsi Robe	1.4	December	4
Kulumsa	1.4	December	6
Derba	1.5	December	19

Assela	2.0	December	18
Sululta	2.0	December	21
Sheno	2.7	November	17
sodare	3.0	November	19
Mojo	3.4	January	4

### **1.3 Rainfall**

The seasonal total rain fall amount during Bega 2007/2008 exceed 100mm over southern part of Arsi and above 80mm rainfall over western parts of east Wellega,with extreme maximum rain fall that occur over Tibe, Chole and Abebe Kerensa with value 56.3mm,32.5mm and 32.5mm respectively(refer fig.6 & table1.3). In general, seasonal rainfall of Bega 2007/2008 had much below normal to normal, specifically east Wellega and Arsi got much below normal-to-normal rainfall, West Harrergie below normal-to-normal rainfall, Shoa got much below normal rainfall except pocket areas of east Shoa (refer fig.8).

Table1.3 Stations with extreme rainfall above 30mm Bega 2007/2008.

Station	Extreme Rainfall	Month	Date
Tibe	56.3	October	1
Abebekeranso	32.5	October	1
Chole	32.5	November	7
Gelemso	32.0	October	2
Sibusire	31.3	October	1
Shambu	30.5	October	1
sedika	30.4	October	1
Arsi Robe	29.5	October	2

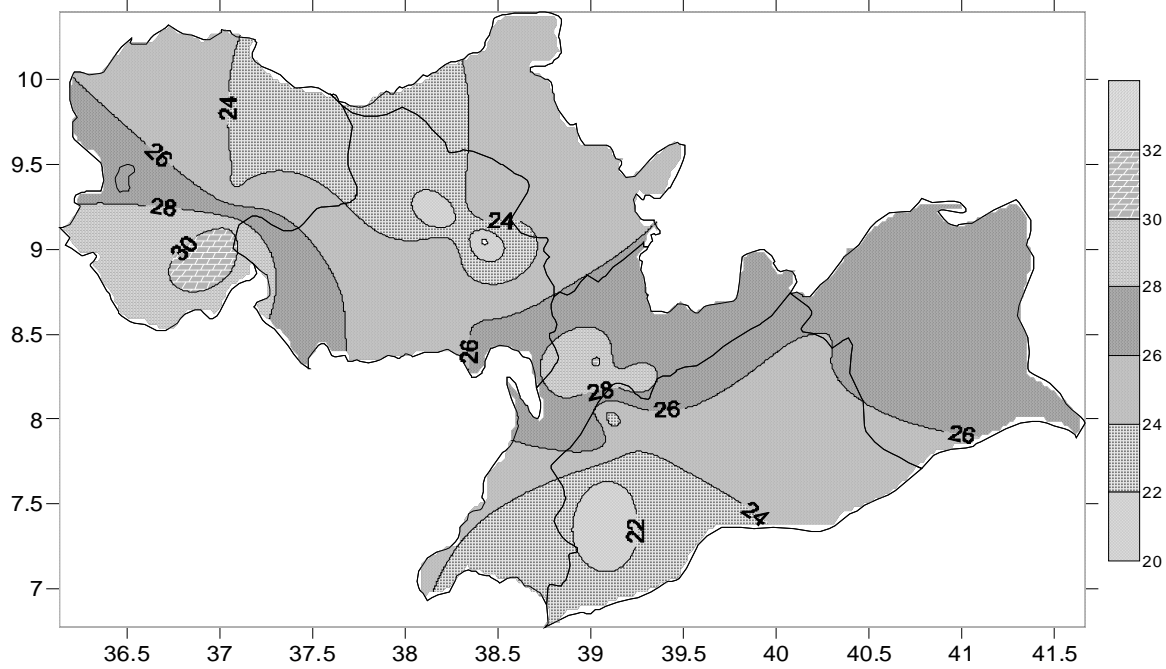


Fig 1: Mean Maximum Temperature of Bega 2007/2008.

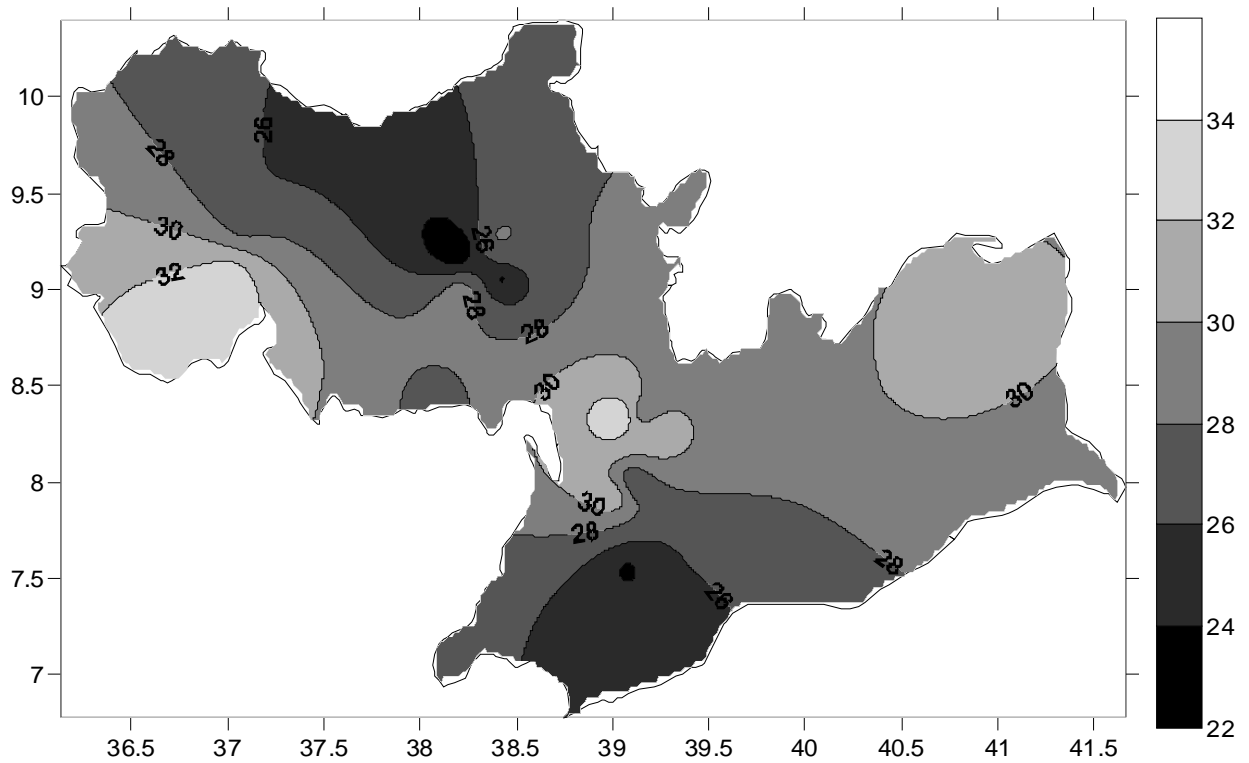


Fig. 2. Extreme Maximum Temperature of Bega 2007

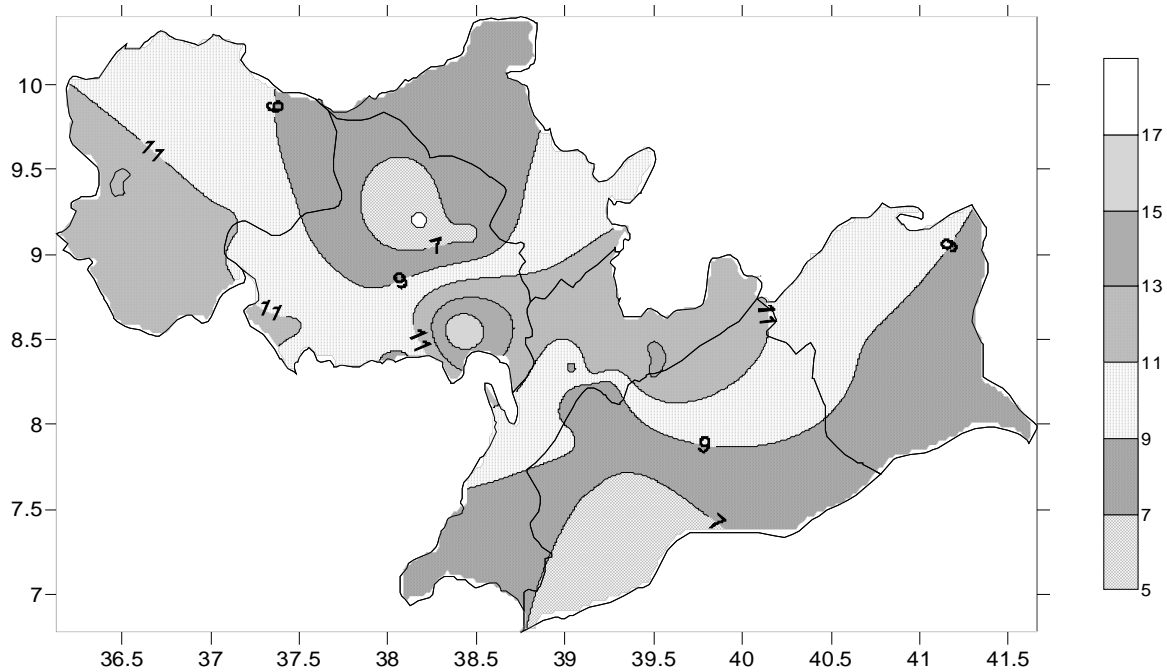


Fig 3: Mean minimum Temperature of Bega 2007/2008.

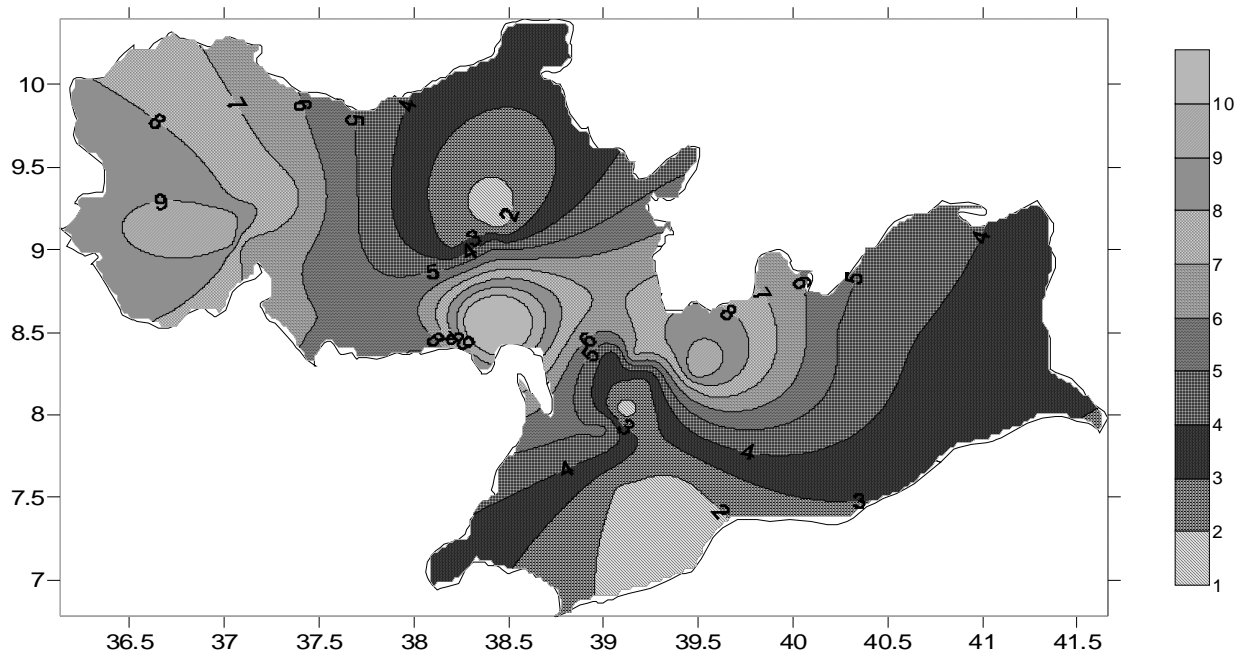


Fig. 5 Extreme minimum Temperature of Bega 2007

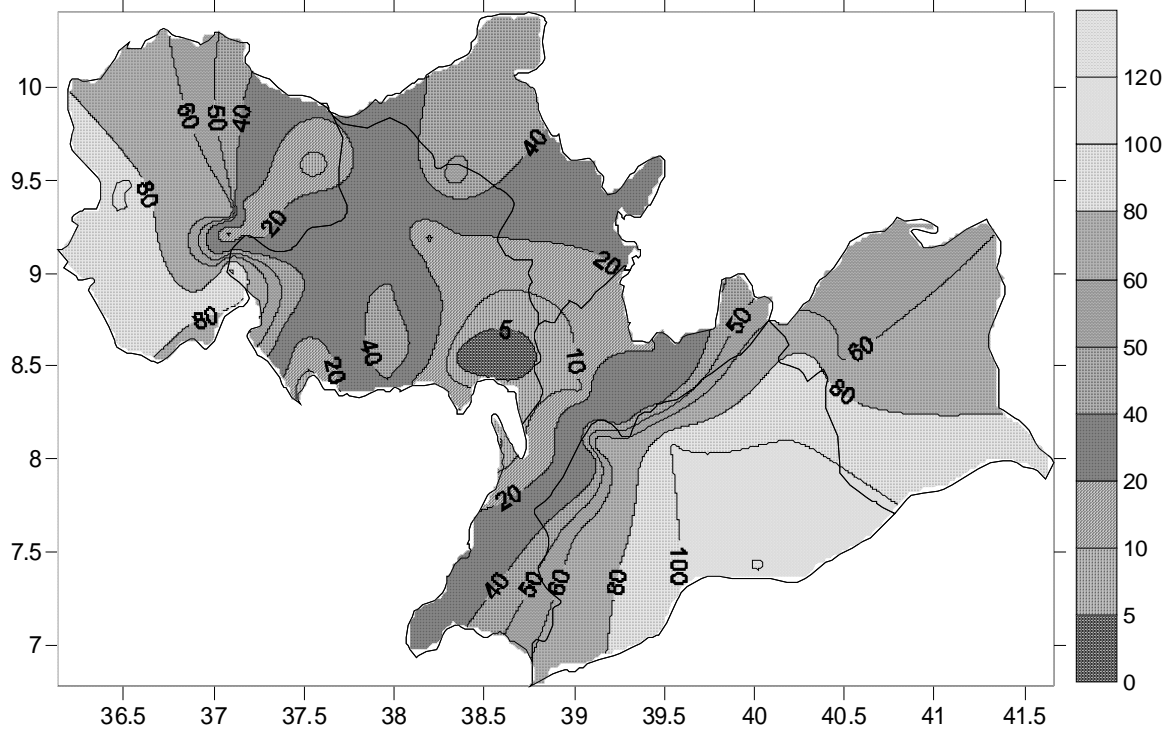


Fig 6: Total Rainfall during Bega 2007/2008.

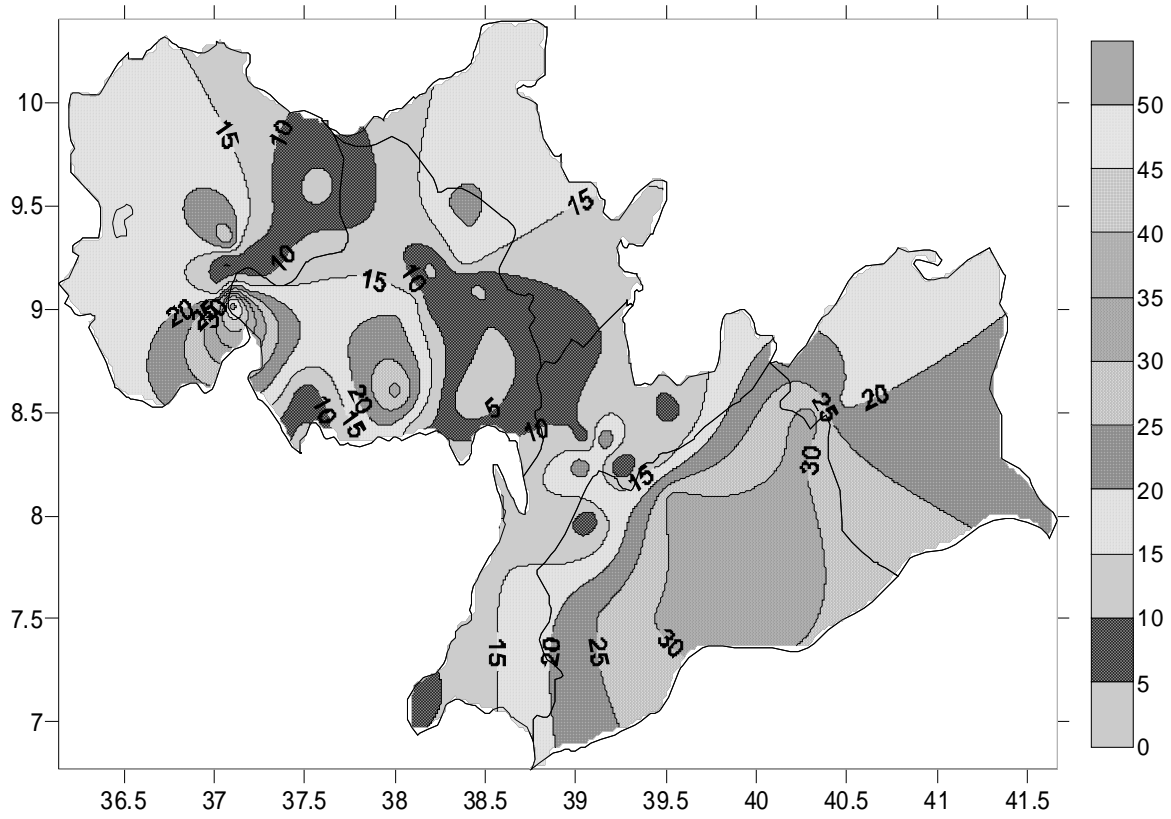


Fig 7. Extreme Rainfall of 2007/2008.

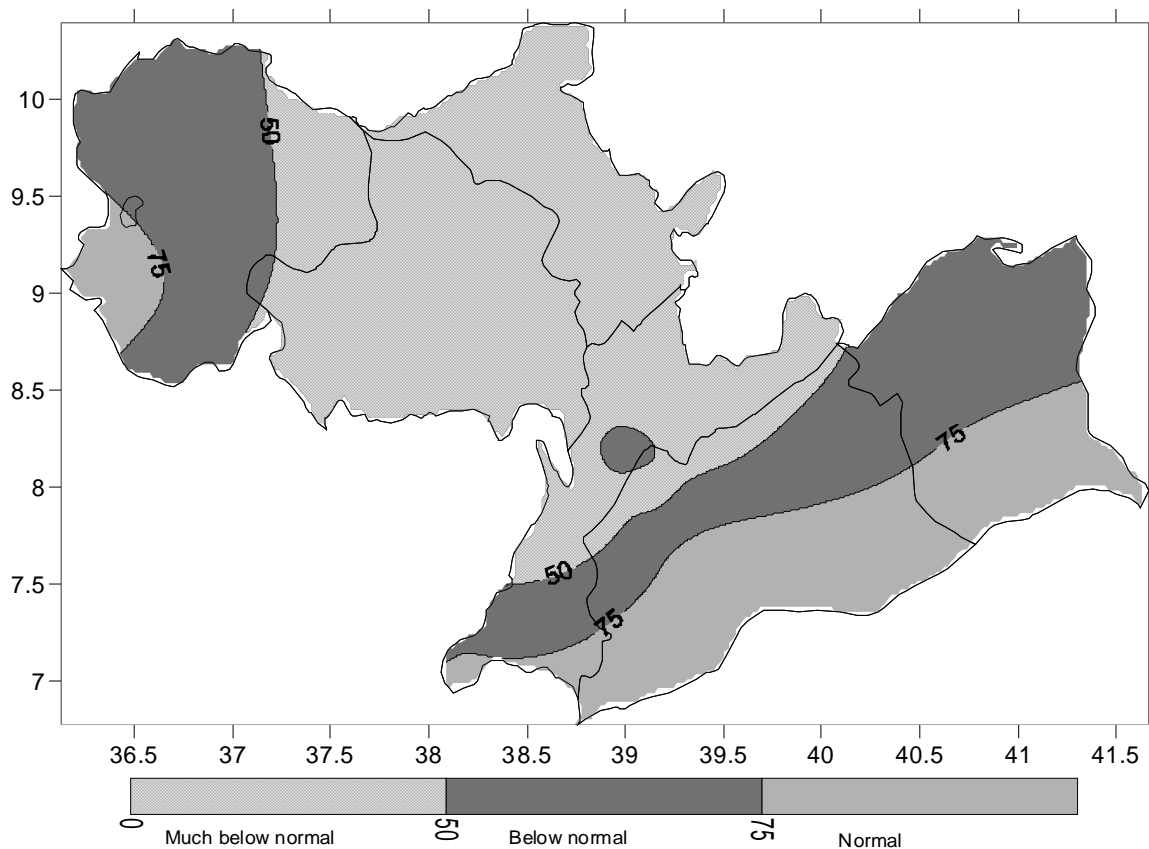


Fig 8: Percent of normal during Bega 2007/2008.

**Table 4: Weather Report of Bega 2007/2008.**

Stations	Lat.	Long.	T.RF	E.RF	Month	Date	M.Max	E.Max	Month	Date	M.Min	E.Min	Month	Date	PON
Akaki	8.55	38.4	1	1	Nov	8	26	29	Jan	5	17.2	14	Dec	25	
Abebekerensa	8.59	38.01	52	33	Oct	1									
Abomsa	8.28	39.49	44	13	oct	18	27	29.5	oct	12	13.1	10	Nov	17	38
Ameya gindo	8.36	37.55	1	1	Oct	1									
Arsi Robe	7.52	39.37	84	30	Oct	2	23	25.8	Jan	26	5.8	1.4	Dec	4	104
Ambo col.	8.59	37.5	11	7	Oct	1	27	30	Jan	4	11.1	6	oct	13	16
Arata	7.93	39.03	27	9	Oct	15	28	31.6	Jan	26	9.7	5.4	Dec	6	48
Assela	7.57	39.07	68	24	Oct	2	21	23.7	Jan	7	7.1	2	Dec	18	63
Backo	9.07	37.03	47	15	Oct	1	31	34	Jan	2,29	12.4	10	Jan	5	60
Bedessa	8.53	40.46	59	20	Oct	1	27	30.7	Jan	26	9.3	4.3	Dec	4	68
Chitu	8.36	37.58	11	8	Oct	1									
Chole	8.08	39.54	100	33	Nov	7									
Dertu Liben	9.57	37.56	5	3	Oct	1									
Derba	9.26	38.39	27	20	Oct	1	26	28.5	Oct	30	8.5	1.5	Dec	19	

Dilela	8.37	38.02	39	16	Oct	2										
Entoto	9.05	38.43	16	6	Oct	2	19	23.5	Jan	3	7.5	4.5	Dec	19		
Ejere	9.51	38.33	54	21	Oct	1										
Efabiya	9.02	36.52	99	16	Jan	18										
Enchini	9.19	38.22	11	5	Oct	3										10
Etheya	8.07	39.14	74	21	Oct	3										
Ginchi	9.02	38.08	39	19	Oct	3										
Gelemso	8.48	40.3	94	32	Oct	2	26	29	Jan	25,26	10.5	4.6	Nov	19	59	
Gebete	9.23	37.25	13	4	Oct	1										
Guben	9.1	37.18	44	17	Oct	2										
Hombole	8.22	38.46	16	16	Oct	1										26
Homi	9.37	37.14	21	17	Oct	1										
Harodoyo	9.33	37.57	33	12	Oct	4										
Hareto	9.22	37.06	3	3	Jan	28					11.8	9	Nov	4		
Kulumsa	8	39.09	27	7	Oct	3	23	25.8	Jan	26	7.1	1.4	Dec	6	36	
Kimoye	9.01	38.21	17	7	Oct	3	26	29.5	Jan	26	7.4	2.8	Dec	17	45	
Kombolcha	9.3	37.28	18	9	Oct	1	25	27.7	Jan	15	10.1	7.9	Dec	20		
Kokadam	8.25	39.02	29	23	Oct	1	30	32.5	Jan	28	9.3	3.5	Nov	19	76	
Meki	8.08	38.49	0													0
Mojo	8.36	39.06	9	8	Oct	3	30	33.2	oct	5	8.7	3.4	Jan	4	22	
Adama	8.36	39.16	42	25	Oct	1	26	28.5	Jan	10,26	13.2	7.2	Dec	20		
Nura era	8.5	39.54	21	9	Oct	15										36
Shambu	9.34	37.07	89	31	Oct	1	24	26.5	Jan	4	10.3	7.5	Dec	17		
Sedika	7.44	40	121	30	Oct	1										
Sebeta	8.55	38.36	4	3	Oct	3										5
Sodere	8.24	39.24	26	5	Oct	16	30	32.5	Jan	14	8.2	3		19		
Sheno	9.19	38.19	6	3	Nov	5	20	21.5	Jan	4	4.4	2.7	Nov	17	16	
Sire	7.14	38.19	32	9	Nov	8										76
Sibusire	9.02	36.52	112	31	Oct	1	29	32	Jan	6	12.2	9	Dec	17		
Sululta	9.1	38.45	10	3	Oct	1	23	25.5	Nov	25	5.9	2	Dec	21		
Suten	8.21	38.34	26	17	Oct	1										
Tibe	9.03	37.1	108	56	Oct	1	30	32.5	Jan	6,12,26	10.6	6.4	Nov	17		
Tokeirensa	8.59	37.35	38	17	Oct	1										
Tulubolo	8.39	38.12	13	9	Oct	1	25	27	Jan	8,9,11	8.6	5	Dec	21		

*Explanatory notes:-*

T.RF-Monthly total rainfall

E.RF –Extreme rainfall.

M.Max-Mean maximum temperature

E.Max-Extreme maximum temperature  
M.Min-Mean minimum temperature  
E.Min-Extreme minimum temperature  
PON-Percent of normal rainfall