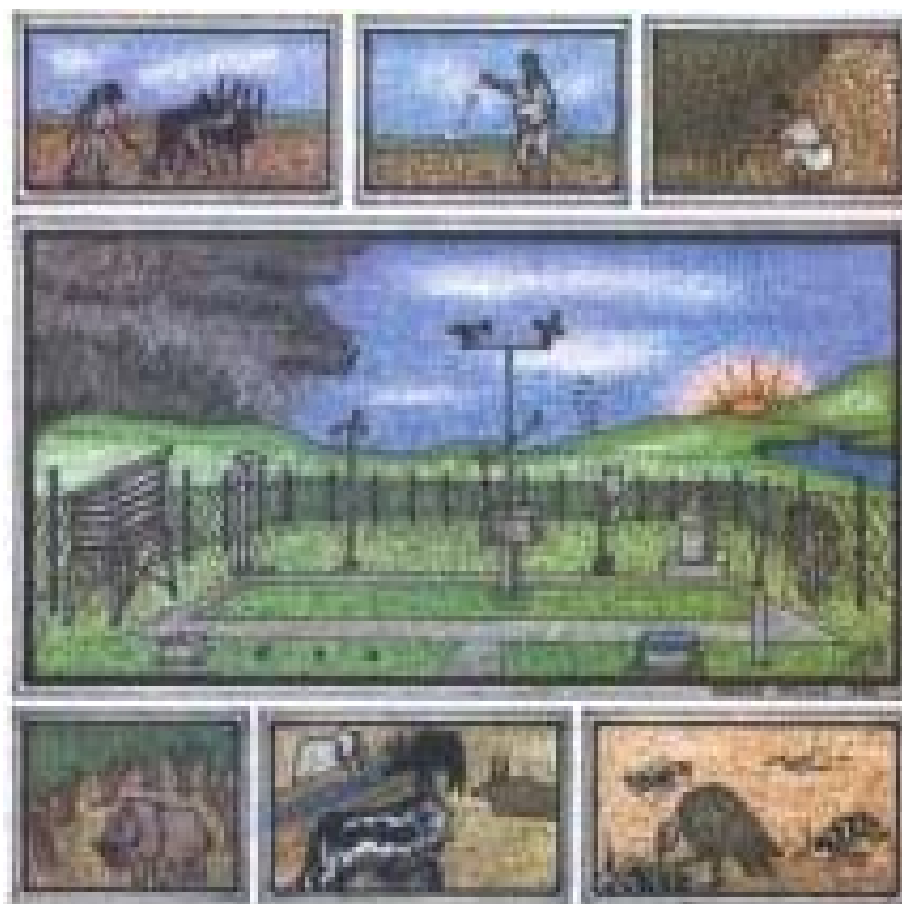


**NATIONAL METEOROLOGICAL SERVICES AGENCY AGROMETEOROLOGICAL
BULLETIN**

**MONTHLY AGROMETEOROLOGICAL BULLETIN
FEBRUARY 2006
VOLUME 17 No. 6
DATE OF ISSUE: - March 5, 2007**



P.O.BOX 1090, ADDIS ABABA, ETHIOPIA
E.Mail: nmsa@telecom.net.et Fax 251-1-517066, Tel. 251-1-512299

FORE WARD

This Agro met Bulletin is prepared and disseminated by the National Meteorological Services Agency (NMA). The aim is to provide those sectors of the community involved in Agriculture and related disciplines with the current weather situation in relation to known agricultural practices.

The information contained in the bulletin, if judiciously utilized, are believed to assist planners, decision makers and the farmers at large, through an appropriate media, in minimizing risks, increase efficiency, maximize yield. On the other hand, it is vital tool in monitoring crop/ weather conditions during the growing seasons, to be able to make more realistic assessment of the annual crop production before harvest.

The Agency disseminates ten daily, monthly and seasonal weather reports in which all the necessary current information's relevant to agriculture are compiled.

We are of the opinion that careful and continuous use of this bulletin can benefit to raise ones agro climate consciousness for improving agriculture-oriented practices. Meanwhile, your comments and constructive suggestions are highly appreciated to make the objective of this bulletin a success.

Director General
NMA
P.O.Box 1090
Tel: 011661-57-79
FAX 00251-11-6625292
E-mail nmsa@ethionet.et
Addis Ababa

አህፅሮት
እ.ኤ.አ ፌብሩዌሪ 2007

እ.ኤ.አ በፌብሩዌሪ 2007 በመጀመሪያው አስርተ ቀናት ምስራቅ ትግራይና አማራ፣ ደቡብ አፋር፣ ምዕራብና ደቡብ ኦሮሚያ፣ የደቡብ ብሄር ብሄረሰቦች ህዝቦች ክልል እንዲሁም መካከለኛው ምስራቅ ኢትዮጵያ ዝናብ አግኝተዋል። ይህም የነበረው የእርጥበት ሁኔታ ለበልግ ወቅት የእርሻ እንቅስቃሴ በጎ ጎን እንደሚኖረው ይታመናል። በተጨማሪም የበልግ ወቅት ማሳ ዝግጅትና የአጭርና የመካከለኛው ጊዜ ሰብሎች ቀደም ብለው ለሚዘሩት አካባቢዎች እንደ ደቡብ አማራ፣ የደቡብ ብሄር ብሄረሰቦች ሕዝቦች ክልል ደጋማ ሥፍራዎች ጥሩ አስተዋፅኦ እንደሚኖረው ይታመናል። በሌላ በኩል ደግሞ በተጠቀሱት አካባቢዎች የነበረው የእርጥበት ሁኔታ የቀኑን ዝቅተኛ የአየር ሙቀት እንደሚጨምር በማድረግ የወርጭ ክስተትን ያዳክማል። ይህም ሁኔታ ለቋሚ ሰብሎች (perennial crops) ለአትክልትና ፍራፍሬ በጎ ጎን እንደሚኖረው ይታመናል። ከባድ ዝናብን በተመለከተ በኮፊሌ 59፣ በጅንካ 37.7 እንዲሁም በወሊሶ 30.1 ሚ.ሜ. ዝናብ በአንድ የዝናብ ቀናት ብቻ አግኝተዋል። የሙቀት መጠንን በተመለከተ በአብዛኛው የሀገሪቱ ስፍራዎች ዝቅተኛ የሙቀት መጠን ቀንሶ ነበር የታየው። ከ5 ዲ.ሴ. በታች የነበረው ዝቅተኛ የሙቀት መጠን አልተከሰተም። ይህም ሁኔታ በቋሚ ሰብሎችና የጓሮ አትክልት እንዲሁም በአንዳንድ አካባቢዎች ባልተሰበሰቡ አዝርዕት ላይ ጥሩ ጎን እንደሚኖረው ይታመናል።

እ.ኤ.አ በፌብሩዌሪ 2007 በሁለተኛው አስርተ ቀናት በአብዛኛው የአማራ ምስራቅና ደቡብ ምስራቅ ትግራይ፣ ጥቂት የመካከለኛ ኦሮሚያ፣ እንዲሁም አብዛኛው የኦሮሚያ ክፍል፣ የሰሜን ሱማሌ ኪስ ቦታዎችን ጨምሮ መደበኛና ከመደበኛ በላይ ዝናብ አግኝተዋል። ይህም ከላይ በተጠቀሱት አካባቢዎች የነበረው እርጥበት ለበልግ ወቅት የእርሻ እንቅስቃሴ ለምሳሌ የማሳ ዝግጅትን ለማድረግ፣ ዘር ለመዝራት፣ በተጨማሪም ተዘርተው በቡቃያ ላይ ላሉ ሰብሎች በጎ ጎን እንደሚኖረው ይታመናል። በተጨማሪም በአንዳንድ የሰሜን ምስራቅ የአርብቶ አደሩ ስፍራዎች ለግጦሽ ሣርና ለመጠጥ ወታ አቅርቦት ጥሩ አስተዋፅኦ ይኖረዋል። ከበድ ያለ ዝናብን በተመለከተ አንዳንድ የመካከለኛው (ኩሉምሳ፣ መሀልሜዳ፣ ሸዋሮቢት) የምእራብ (ሻምቡ) እና የሰሜን ምስራቅ (ሲሪንቃና ጨፋ) የሀገሪቱ ክፍሎች ከ25-50.9 ሚ.ሜ የሚደርስ ዝናብ በአንድ የዝናብ ቀናት ብቻ አግኝተዋል። ይህም የዝናብ ሁኔታ ለወቅቱ የእርሻ እንቅስቃሴ በጎ አስተዋፅኦ እንደሚኖረው እሙን ነው።

እ.ኤ.አ በየካቲት 2007 በሦስተኛው አስርተ ቀናት አብዛኛው ጋምቤላ፣ አንዳንድ የምዕራብ ኦሮሚያና የደቡብ ብሔር ብሔረሰቦች ምስራቃዊ ኪስ ቦታዎች በስተቀር በአብዛኛው የአገሪቱ ክፍሎች ከመደበኛው በታች የሆነ ዝናብ ነበር ያገኙት። ይህም ሁኔታ በልግ አብቃይ ለሆኑትና በአሁኑ ሰአት

የማሳ ዝግጅትና የዘር ጊዜያዊ ለሆኑትና በተለይ በአለፈው የአሥር ቀናት እጥረት ለነበረባቸው የመካከለኛውና ምስራቅ አሮሚያ፣ የምስራቅ የደቡብ ብሄር ብሄረሰኞችና ሕዝቦች ክልል በልግ አብቃይ አካባቢዎች በአሥሩ ቀን የታየው የእርጥበት እጥረት የጎላ አሉታዊ ተፅዕኖ እንደሚያሳድር እሙን ነው።

በአጠቃላይ እ.ኤ.አ በፌብሩዋሪ 2007 በተለይ በወሩ ሦስተኛ አስር ቀናት በአብዛኛው በልግ አብቃይ አካባቢዎች የዝናብ እጥረት ነበር። ይሁን እንጂ በሁለተኛው አሥር ቀናት በምሥራቅና ደቡብ ትግራይ፣ በምሥራቅ አማራ በመጀመሪያው አሥር ቀናት ደግሞ ከደቡብ ትግራይና ሰሜን ምሥራቅ አማራ በስተቀር በአብዛኛው የበልግ አምራች አካባቢዎች ለማሳ ዝግጅትና ለዘር ጊዜ አመቺ የሚሆን ዝናብ ነበር። ጠቅለል ባለ መልኩ ሲወሰድ በተለይ ቀደም ብለው ከታህሣሥ ወር ጀምረው የማሳ ዝግጅት በሚጀምሩትና በአብዛኛው በጥር ወር ወደ ዘር ለሚሸጋገሩት እንደ ደቡብ ትግራይና ሰሜን ምሥራቅ አማራ ባሉት አካባቢዎች በወሩ የመጀመሪያና ሦስተኛ አስር ቀናት ላይ የዝናብ እጥረት መኖሩ ቀደም ብለው ተዘርተው በቡቃያ ላይ ባሉ አዝርዕት የወጋ ፍላጎት ላይ አሉታዊ ተፅዕኖ እንደሚያስከትል እሙን ነው። በሌላ በኩል በወሩ ወስጥ በመደበኛ ሁኔታ የጥራጥሬ አዝርዕት (አተር፣ ባቄላና ምሥር)፣ የብርዕ ሰብልና የአገዳ ሰብል የዘር ጊዜያዊ ለሆነው እንደ አርሲ ሮቤ፣ ወገል ጤና፣ ጨራ፣ ባሌ ሮቤ፣ ወናጎ፣ ይርጋ ጨፌ፣ ዓለማያ፣ ቡሌ፣ ኮቸሬ፣ ቡኢ፣ ጊዮሌ፣ ከምባታና ሃዲያ በመሳሰሉት ቦታዎች በአመዛኙ ማለትም በመጀመሪያዎቹ ሁለት አሰርት ቀናት የነበረው የዝናብ ሁኔታ አመቺ እንደሚሆን ይታመናል።

SUMMARY

FEBRUARY 2007

During the first dekad of February 2007, the observed normal to above normal rainfall over southern Afar, eastern and southern Oromia, southern Amhara and central parts of eastern Ethiopia and the exhibited below normal rainfall over eastern Tigray would have a positive contribution for the ongoing Belg season agricultural activities. Moreover, it would have positive impact in areas like southern Amhara, highlands of SNNPR, where Belg activities like land preparation and sowing activities of short and medium cycle crops starts earlier. Besides, the observed wet moisture condition over the aforementioned areas decreases the extreme minimum temperature from frost prone areas. Regarding heavy fall, Weliso, Jinka and Kofelle reported heavy fall 30.1, 32.7 and 59.0 respectively in one rainy day. With regard to air temperature, there was a significant improvement of extreme minimum temperature i.e. rise in amount in most parts of frost prone areas. No station reported extreme minimum temperature below 5⁰C. Thus this situation would have positive impact for normal growth and development of plants.

During the second dekad of February 2007, During the second dekad of February 2007, the observed normal to above normal rainfall over most parts of northeastern Amhara, southeastern Tigray, few areas of central Oromia as well as pocket areas of northern Somali could have a positive contribution for Belg agricultural activities like land preparation, sowing activities, and crops which are at early vegetative stage over the aforementioned areas. Moreover, it could also have a positive impact for the availability of pasture and drinking water over some areas of northeastern pastoral areas. Besides, central (Kulumsa, Mehal Meda, Shewa Robit), western (Shambu), northeastern (Sirinka and Cheffa) recorded heavy fall ranging from 25-50.9 mm in one rainy day. This situation would have a positive contribution for the ongoing Belg agricultural activities

During the third dekad of February 2007, with the exception of most parts of Gambela, some areas of western Oromia and pocket areas of eastern SNNPR, it has been a dry spell over most parts of the country. Thus this situation could have negative impact on Belg crops in areas where sowing activity has performed earlier. Besides it could have significant negative effect on early season's Belg agricultural activities particularly in areas like central and eastern Oromia including eastern parts of SNNP where the deficient moisture condition persisted during the preceding dekad.

Generally throughout the month under review particularly during the third dekad of the month the deficient rainfall condition has been observed over most parts of the country. However the observed good rainfall over most parts of Belg growing areas, excluding South Tigray and northeastern Amhara, during the first dekad and over eastern and South Tigray including eastern Amhara, during the second dekad, could favor land preparation and sowing activities in the areas. When we see the over all performance of Belg rainfall situation since the on set of the season there was deficient rainfall during the first dekad and third dekad of the month particularly in some pocket areas where the Belg agricultural activities start earlier like South Tigray and northeaster Amhara. Therefore, this condition could result in water stress on the existing crops over the aforementioned areas. On the other hand the observed better rainfall particularly during the first and second dekad of February 2007 over most parts of SNNPR, central Oromia, eastern Amhara including pocket areas of eastern highlands could favour sowing activity in areas like Arsi Robe, Wegel Tena, Chira, Bale Robe, Wonago, Yirga Chefe, Alemaya, Bule, Kochere, Bui, Gidole, Kembata and Hadia where sowing of pulses (beans, peas and lentil) and cereals is the normal practice at this time of the year.

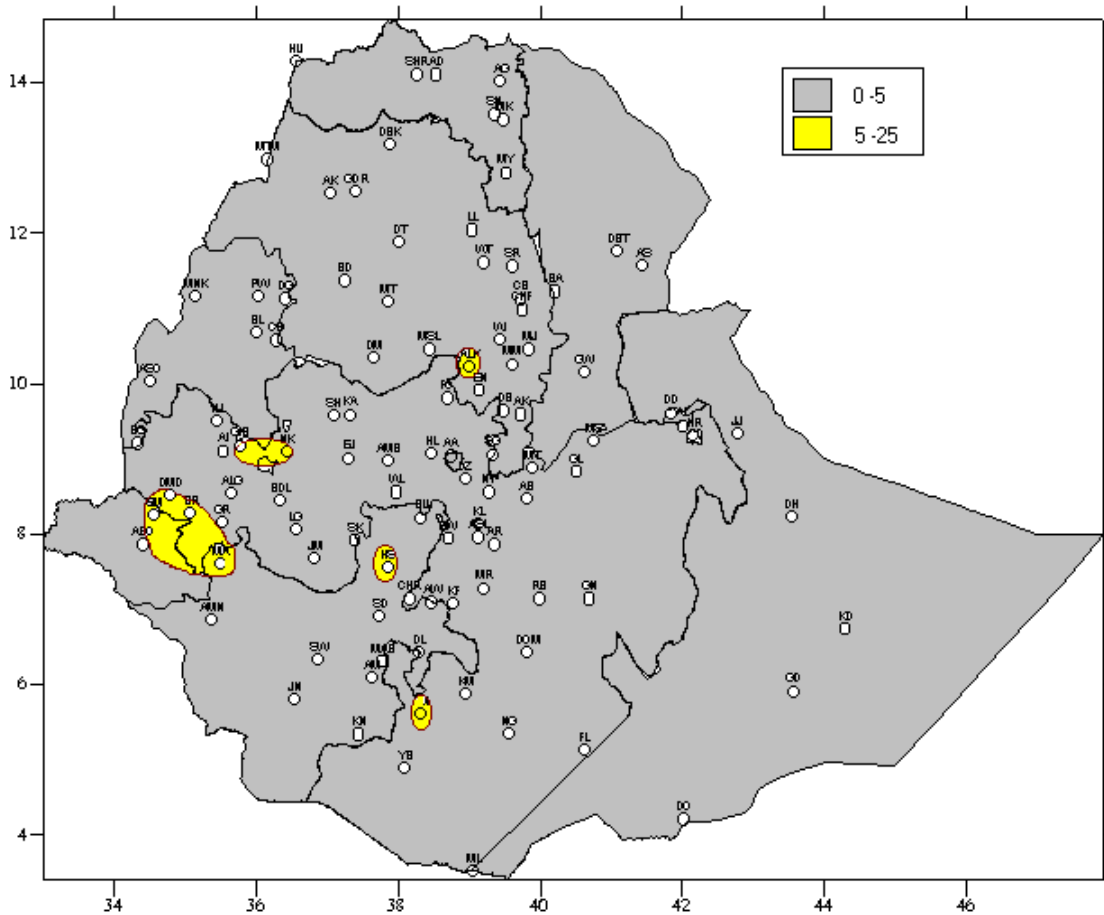


Fig 1. Rainfall distribution in mm (21 - 28 February, 2007)

1. WEATHER ASSESSMENT

1.1 (21 – 28 February, 2007)

1.1.1 Rainfall amount (Fig.1)

Only pocket areas of western and southern Oromia, eastern Gambela, pocket area of eastern SNNPR, and pocket area of southern Amahara received 5-25mm rainfall. The rest parts of the country exhibited little or no rainfall.

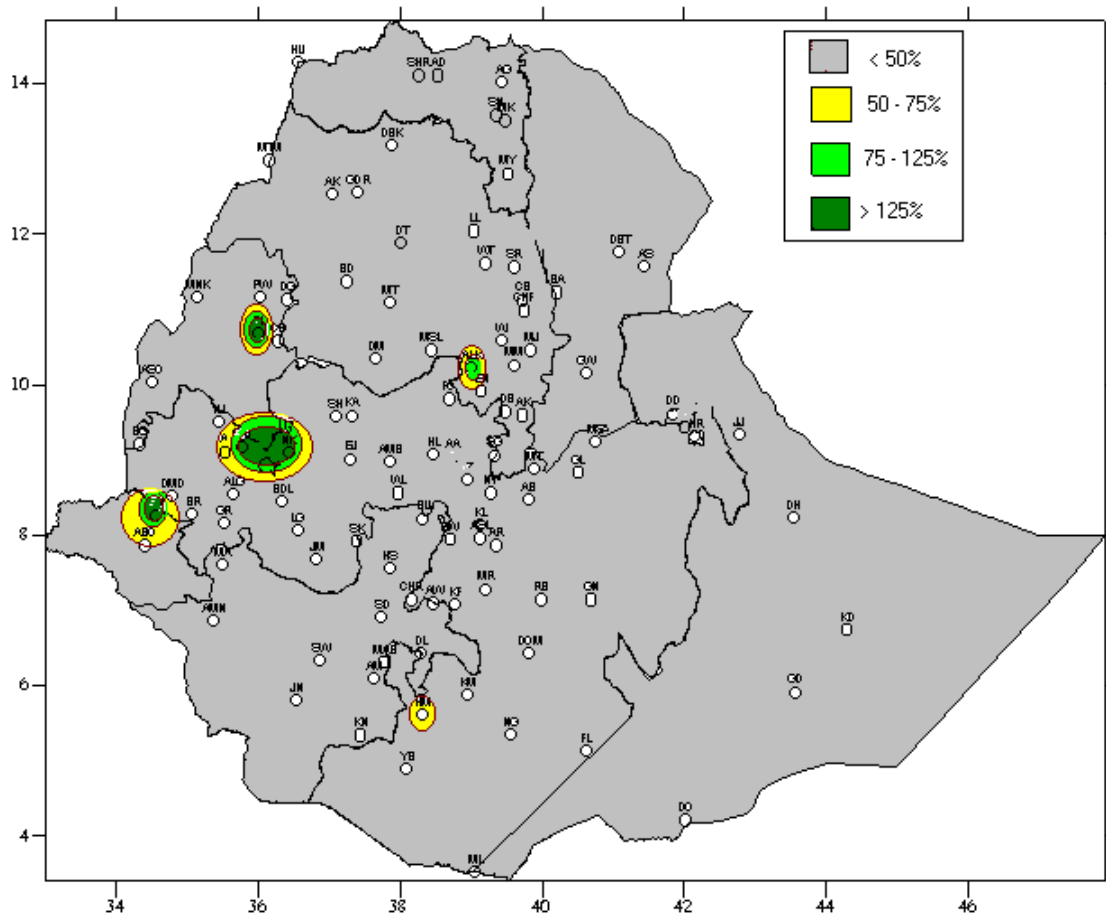


Fig. 2 Percent of normal rainfall distribution (21-28 February, 2007)

Explanatory notes for the Legend

< 50- Much below normal

50-75%- Below normal

75-125%- Normal

> 125% - Above normal

1.1.2 Rainfall Anomaly (Fig. 2)

Only pocket areas of western, northern Gambela, eastern Benshalgul-Gumuz and southern Amahra received normal to above normal rainfall. The rest parts of the country exhibited below normal to much below normal rainfall.

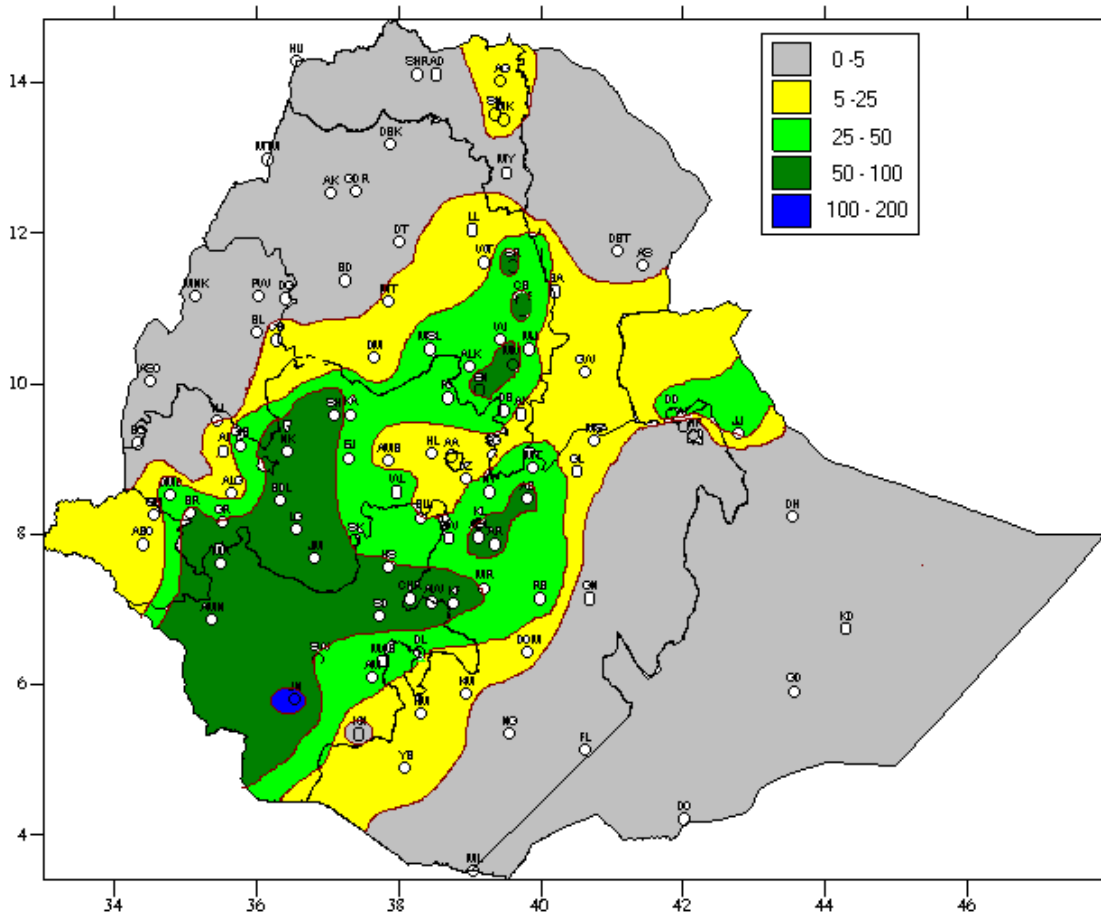


Fig. 3 Rainfall distribution in mm for the month of February 2007

1.2 February 2007

1.2.1 Rainfall distribution (Fig.3)

Only pocket area of southern SNNPR received 100-200mm rainfall. Western, eastern, northern and southern SNNPR, western, southern and pocket area of central Oromia and pocket areas of eastern and southern Amahra experienced 50-100mm rainfall. Northern and southeastern SNNPR, western, northern, central and southern Oromia, eastern Gambela, eastern and southeastern Amahra, tip of eastern Benshalgul-Gumuz and eastern Somali exhibited 25-50mm rainfall. Western, central, eastern and southern Oromia, northern, western and southern Gambela, eastern Benshalgul-Gumuz, southern and eastern Amahra, northeastern Tigray, southern Afar and northern Somai received 5-25mm rainfall. The rest parts of the country exhibited little or no rainfall.

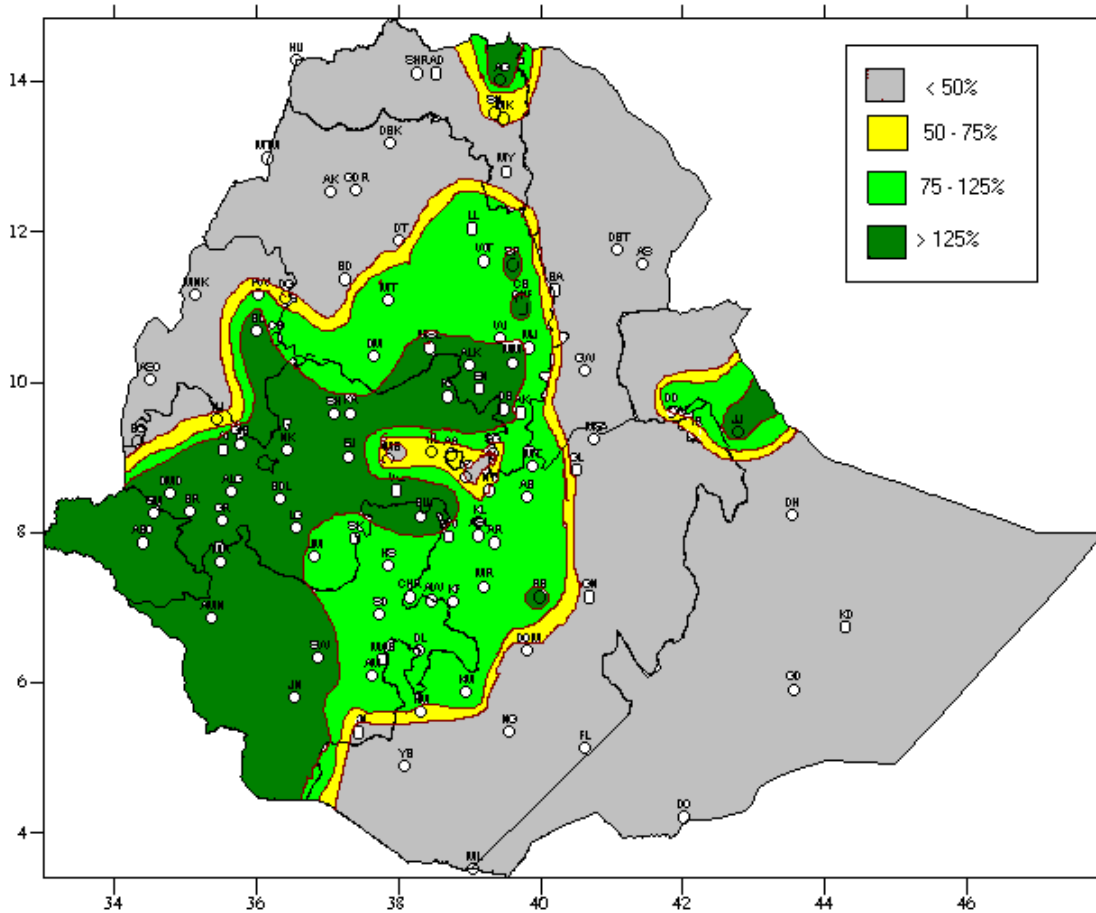


Fig. 4 Percent of Normal Rainfall distribution for the month of February 2007

Explanatory notes for the Legend:

- < 50 -Much below normal
- 50-75%- Below normal
- 75-125%- Normal
- > 125% - Above normal

1.2.2 Rainfall Anomaly (Fig. 4)

Most parts of western, northwestern and southern SNNPR, all parts of Gambela, western, central, northern and southern Oromia, eastern Benshalgul-Gumuz, southern and eastern Amahra, tip of northern Tigray and northern Somali received normal to above normal rainfall. The rest parts of the country exhibited below normal to much below normal rainfall.

1.3 TEMPERATURE ANOMALY

Some areas like Metema and Gambela exhibited extreme maximum temperature greater than 40°C during the month.

2. WEATHER OUTLOOK

2.1 For the first dekad of March 2007

For the coming ten days, the dry and hot weather conditions will continue in similar manner over various portions of the country. However, relative moisture incursion towards the country is expected across few places of the nation. As a result western and southern Oromia including SNNPR will get near normal rainfall. Besides eastern Tigray and Amhara central and eastern Ethiopia will receive light rain shower from their cloud coverage, however, it will be below normal. Other wise the rest parts of the country will be under dry and hot weather conditions.

2.2 For the month of March 2007

During the next month, the seasonal rainfall activity is expected to have better performance over the main Belg rainfall benefiting areas while due to the Belg season's high variable nature there will be dry spells on consecutive days.

In general, eastern Tigray and Amhara, western and southern Somalia as well as SNNPR will receive close to normal rainfall. Moreover central and eastern Ethiopia will have a chance of getting near normal rainfall. On the other hand northwestern north eastern and southern eastern low lands of the country will have below normal rainfall and will experience hot and dry weather conditions.

3. AGROMETEOROLOGICAL CONDITIONS AND IMPACT ON AGRICULTURE

3.1 VEGETATION CONDITION AND IMPACT ON AGRICULTURE

Throughout the month under review particularly during the third dekad of the month the deficient rainfall condition has been observed over most parts of the country. However the observed good rainfall over most parts of Belg growing areas, excluding South Tigray and northeastern Amhara, during the first dekad and over eastern and South Tigray including eastern Amhara, during the second dekad, could favor land preparation and sowing activities in the areas. When we see the over all performance of Belg rainfall situation since the on set of the season there was deficient rainfall during the first dekad and third dekad of the month particularly in some pocket areas where the Belg agricultural activities start earlier like South Tigray and northeaster Amhara. Therefore, this condition could result in water stress on the existing crops over the aforementioned areas. On the other hand the observed better rainfall particularly during the first and second dekad of February 2007 over most parts of SNNPR, central Oromia, eastern Amhara including pocket areas of eastern highlands could favour sowing activity in areas like Arsi Robe, Wegel Tena, Chira, Bale Robe, Wonago, Yirga Chefe, Alemaya, Bule, Kochere, Bui, Gidole, Kembata and Hadia where sowing of pulses (beans, peas and lentil) and cereals is the normal practice at this time of the year.

3.2 EXPECTED WEATHER IMPACT ON AGRICULTURE DURING THE COMING DEKAD

The anticipated near normal rainfall over Belg growing areas of South Tigray, eastern Amhara, Oromia and SNNPR would favor the water requirements of the existing Belg crops. Moreover the expected moisture condition over the aforementioned areas would have positive impact on early season's agricultural activities over central (Meraro, Ziway, Kulumsa), SNNPR (Hosaina, Awasa, Wenago, Yirga Chefe, Kochere, Sidama, Tepi), northeastern (Srinka), eastern (Gelemso, Mieso, Alemaya) and southern midlands of Ethiopia (Dolo Mena) where sowing and land preparation is the normal practices at this time of the year. On the other hand the expected erratic rainfall distribution particularly over the lowlands would negatively affect crop's water requirement. Thus farmers are advised to give proper attention for appropriate water-harvesting techniques especially over the lowlands. The expected near normal rainfall over western Ethiopia would favour sowing and land preparation in areas like Limu Genet, Sekoru and the like. Besides it would have positive contribution for perennial crops. Nevertheless, the anticipated below normal rainfall over pocket areas of the aforementioned areas would have negative impact. Thus, the concerned personnel should design appropriate alternate solution to tackle the expected adverse condition to minimize the risk. The expected erratic rainfall in some lowlands of Belg growing areas would favour the outbreak of pest and diseases. Therefore, close monitoring and appropriate preparedness measures should be undertaken ahead of time particularly over sensitive areas to control the danger below economic threshold level.

Table 1. Climatic and Agro-Climatic elements of different stations for the month of February 2007

	Stations	Region	A/ rainfall	Normal	%of Normal	ETo mm/day	Monthly ETo	Moisture status
1	Adigrat	TIGRAI	16.5	10.0	165.0	NA	NA	NA
2	Maichew		0.0	25.2	0.0	NA	NA	NA
3	Mekele		5	9	54.5	4.8	134.4	VD
1	Assayta	AFAR	0.3	9.5	3.2	5.19	145.32	VD
2	Dubti		3.5	15.3	22.9	NA	NA	NA
1	A. Ketema	AMHARA	33.4	20.5	162.9	4.1	114.8	MD
3	Aykel		0	2.2	0.0	NA	NA	NA
4	Bahir Dar		0	1.8	0.0	4.1	114.8	VD
5	Bati		9.1	41.7	21.8	3.52	98.56	VD
6	Bullen		3.2	0.3	1066.7	3.96	110.88	VD
7	Combolcha		34	37.3	91.2	3.6	100.8	MD
8	Chefa		71.9	40.0	179.8	3.9	109.2	M
9	D.Birhan		30.6	18.6	164.5	3.86	108.08	MD
10	D.Markos		15.6	17.6	88.6	4.3	120.4	D
11	D.Tabor		0.5	6.8	7.4	NA	NA	NA
12	Enwary		57.5	13	456.3	4.72	132.16	MD
13	M.Meda		51.2	26	198.4	3.66	102.48	MD
14	Majete		20.1	49	41.2	3.74	104.72	D
15	Metema		0	0	0.0	4.74	132.72	VD
16	Motta		12.4	13	98.4	4.05	113.4	D
17	Lalibela		10.7	13	84.9	3.68	103.04	D
18	S. Gebeya		11.2	24	46.1	3.83	107.24	D
19	Sirinka		78.3	61	128.4	3.3	92.4	M
20	W. Tena		17.6	23	76.5	3.71	103.88	D
21	Wereilu		25.3	30	83.2	3.54	99.12	MD
1	Ambo Agri.		OROMIYA	14.2	36.6	38.8	NA	NA
2	Aira	9.1		6.0	151.7	NA	NA	NA
3	Alemaya	3.3		24.1	13.7	4.3	120.4	VD
4	Alge	23.2		17.9	129.6	NA	NA	NA
5	Ambo	14.2		36.6	38.8	NA	NA	NA
6	Arjo	89		23.7	375.5	NA	NA	NA
7	Bedelle	59.3		21.3	278.4	3.86	108.08	M
8	Begi	2.8		8.0	35.0	NA	NA	NA
9	Bui	33.4		19.8	168.7	NA	NA	NA
10	Chira	62.8		56.0	112.1	NA	NA	NA
11	D.Dollo	31.6		14.1	224.1	3.511	98.308	MD
12	D.Mena	6.4		34.6	18.5	3.05	85.4	VD
13	D.Zeit	3.3		25.4	13.0	4.8	134.4	VD
14	Fitche	46.4		33	140.6	3.65	102.2	MD
15	Gelemso	5.5		35	15.9	4.61	129.08	VD
16	Gimbi	27.3		4	682.5	NA	NA	NA
17	Ginir	0.3		24	1.2	NA	NA	NA
18	H. Mariam	10.4		25	41.6	3.67	102.76	VD
19	Jimma	51.3		47	109.1	3.4	95.2	M
20	K.Mengist	18.2		22	84.7	3.81	106.68	D
21	Kachisa	37.5		27	137.4	3.8	106.4	MD

22	Koffele		63.9	57	111.9	NA	NA	NA
23	Kulumsa		59.9	44	135.2	4.1	114.8	M
24	L. Genet		61.8	37	168.9	NA	NA	NA
25	Metehara		44	30	144.7	5.4	151.2	MD
26	Moyale		29.6	22	136.4	NA	NA	NA
27	Nazreth		21.6	27	79.4	5.46	152.88	D
28	Neghele		2.5	22	11.6	6.3	176.4	D
29	Nedjo		2.5	5	48.1	3.18	89.04	D
30	Nekemte		54.4	16	346.5	3.6	100.8	M
31	Robe(Bale)		40.6	32	128.9	4.3	120.4	MD
32	Sekoru		26.7	37	71.8	3.29	92.12	MD
33	Shambu		77.9	27	286.4	NA	NA	NA
34	Wolliso		44.8	30	149.3	NA	NA	NA
35	Yabello		14.2	37	38.8	NA	NA	NA
36	Ziway		37.1	35	107.2	4.46	124.88	MD
1	Gode	SOMALI	0.0	4.8	0.0	3.9	109.2	VD
2	Jijiga		34	25	136.8	NA	NA	NA
1	A.Minch	SNNPR	35.5	31.8	111.6	4.4	123.2	MD
2	Awassa		56.3	58.9	95.6	4.1	114.8	MD
3	Hosaina		51	52	98.3	NA	NA	NA
4	Jinka		102	47	216.1	2.66	74.48	H
5	Konso		4	40	9.5	5.23	146.44	VD
6	M.Abay		29	32	88.5	4.87	136.36	D
7	Masha		79.7	53	150.7	2.97	83.16	M
8	Sawla		49	36	138.0	4.12	115.36	MD
1	Assosa	B/GUMUZ	0.0	4.2	0.0	5.36	150.08	VD
2	Chagni		6.3	7.1	88.7	5.01	140.28	VD
1	Gambela	Gambela	7	3	241.4	4.41	123.48	VD
1	A.A.Obs.	A.A	16.6	36	46.1	3.4	95.2	D
2	A.A. Bole		21.3	37.6	56.6	NA	NA	NA
1	Dire Dawa	D.D	28.6	32.7	87.5	4.2	117.6	D
1	Harar	Harai	3	12	28.8	NA	NA	NA

Legend

VD	Very Dry	< 0.1
D	Dry	0.1 - 0.25
MD	Moderately Dry	0.25 - 0.5
M	Moist	0.5 - 1
H	Humid	>1

Explanatory Note

ET_o Reference Evapotranspiration (mm)

DEFNITION OF TERMS

ABOVE NORMAL RAINFALL: - Rainfall in excess of 125% of the long term mean

BELOW NORMAL RAINFALL: - Rainfall below 75 % of the long term mean.

NORMAL RAINFALL: - Rainfall amount between 75 % and 125 % of the long term mean.

BEGA: - It is characterized with sunny and dry weather situation with occasional falls. It extends from October to January. On the other hand, it is a small rainy season for the southern and southeastern lowlands under normal condition. During the season, morning and night times are colder and daytime is warmer.

BELG: - Small Rainy season that extends from February to May and cover s southern, central, eastern and northeastern parts of the country.

CROP WATER REQUIREMENTS: - The amount of water needed to meet the water loss through evapotranspiration of a disease free crop, growing under non-restricting soil conditions including soil water and fertility.

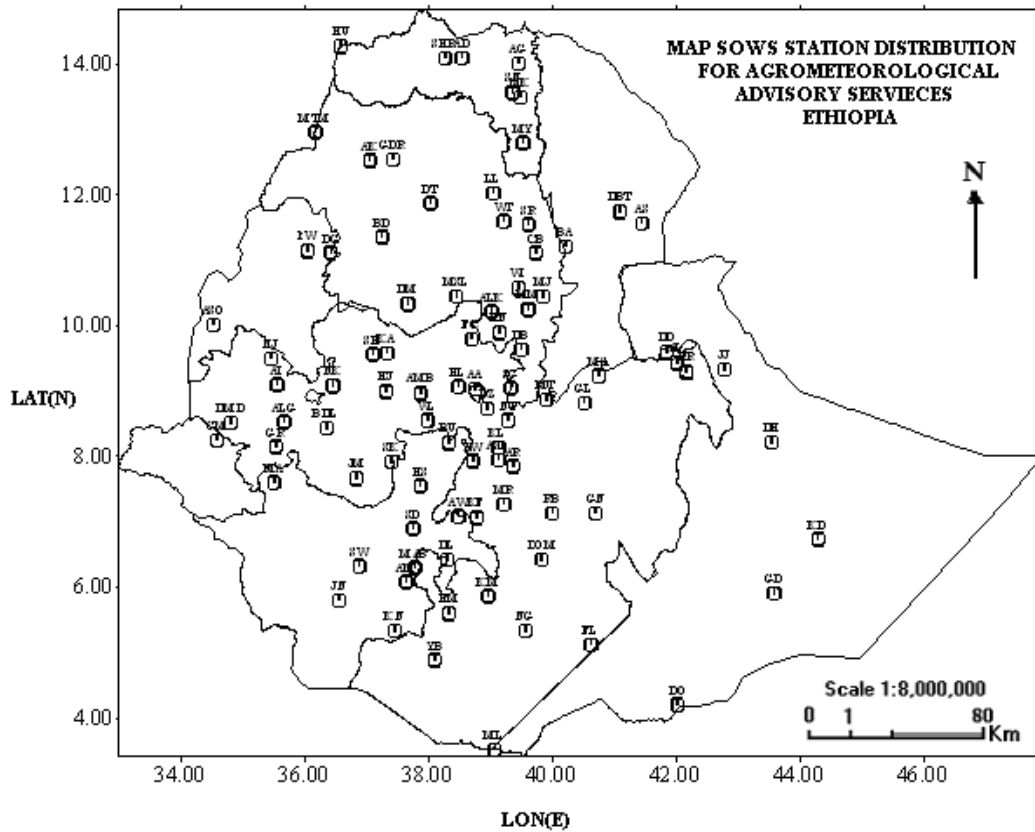
DEKAD: - First or second ten days or the remaining days of a month.

EXTREME TEMPERATURE: - The highest or the lowest temperature among the recorded maximum or minimum temperatures respectively.

ITCZ: - Intertropical convergence zone (narrow zone where trade winds of the two hemispheres meet.

KIREMT: - Main rainy season that extends from June to September for most parts of the country with the exception of the southeastern lowlands of the country.

RAINY DAY: - A day with 1 or more mm of rainfall amount.



Station	CODE	D.Markos	DM	Hossaina	HS	M/Selam	MSL
A. Robe	AR	D.Zeit	DZ	Humera	HU	Nazereth	NT
A.A. Bole	AA	D/Dawa	DD	Jijiga	JJ	Nedjo	NJ
Adigrat	AG	D/Mena	DOM	Jimma	JM	Negelle	NG
Adwa	AD	D/Odo	DO	Jinka	JN	Nekemte	NK
Aira	AI	D/Tabor	DT	K.Dehar	KD	Pawe	PW
Alemaya	AL	Dangla	DG	K/Mingist	KM	Robe	RB
Alem Ketema	ALK	Dilla	DL	Kachise	KA	Sawla	SW
Alge	ALG	Dm.Dolo	DMD	Koffele	KF	Sekoru	SK
Ambo	AMB	Dubti	DBT	Konso	KN	Senkata	SN
Arbaminch	AM	Ejaji	EJ	Kulumsa	KL	Shambu	SH
Asaita	AS	Enwary	EN	Lalibela	LL	Shire	SHR
Asela	ASL	Fiche	FC	M.Meda	MM	Shola Gebeya	SG
Assosa	ASO	Filtu	FL	M/Abaya	MAB	Sirinka	SR
Awassa	AW	Gambela	GM	Maichew	MY	Sodo	SD
Aykel	AK	Gelemso	GL	Majete	MJ	Wegel Tena	WT
B. Dar	BD	Ginir	GN	Masha	MA	Woliso	WL
Bati	BA	Gode	GD	Mekele	MK	Woreilu	WI
Bedelle	BDL	Gonder	GDR	Merraro	MR	Yabello	YB
BUI	BU	Gore	GR	Metehara	MT	Ziway	ZW
Combolcha	CB	H/Mariam	HM	Metema	MTM		
D.Berehan	DB	Harer	HR	Mieso	MS		
D.Habour	DH	Holleta	HL	Moyale	ML		