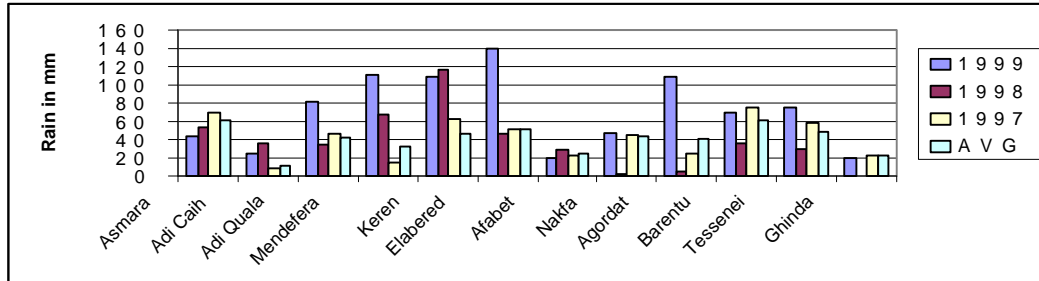


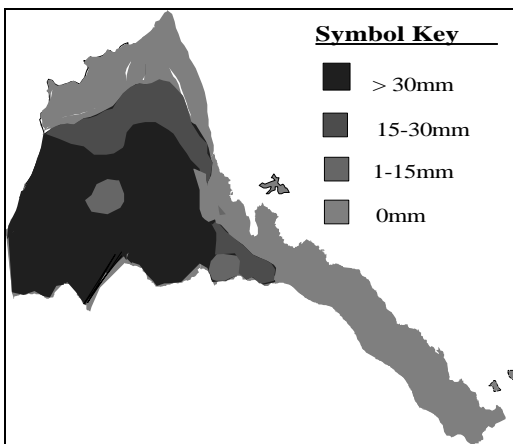
# - Highlights -

- ☹ **Wet condition persisted** over most parts of the country. Hence scattered to wide spread rain shower was observed over most parts of the high-grounds, the adjoining Escarpments and Western lowlands of the country during this dekad.
- ☹ **Spatial Distribution** of rainfall during this period was depicted in Fig.1. Highest rainfall during this dekad was recorded over Decamare (158mm), Debarewa (148mm), Elabered (142mm), Mai-edaga (128mm), Adi-Tekelezan (124mm), Paradizo (120mm), Keren (108mm), Sesah (101mm), Mekerka (100mm), Omhajer (96mm), Adi-Quala (85mm), Algaeta (84mm) and Gollige (84mm).
- ☹ **Temporal Distribution** of rainfall during this dekad was fairly **good** over most stations. Eight day of rain was reported over Adi-Quala and Hal-hal. Asmara, Keren and Mendefera stations reported seven rainy days. The rest most stations reported 3 to 6 rainy days.
- ☹ **Much Above Normal** rainfall was recorded over Adi-hawisha, Ghegeret, Adi-Caih, Adi-Quala, Debarewa, Decamare, Mendefera, Elabered, Keren, Agordat, Aligidir, Omhajer and Tessenei. While Shamboko, Mahmimet, Hal-hal, Hagaz, Areza and Senafe stations received rainfall **Less than the long Year Average**. The rest most stations received **Normal to Above Normal Rainfall** during this dekad.
- ☹ This year's cumulative rainfall since first June is **Above Average** over most stations as compared to the last Seven years. As shown in Fig 1. Rainfall amount during this dekad is greater than 1998, 1997 and the long year Average.
- ☹ Early and late vegetative growth as well as seed germination were continued over most summer rain benefiting parts of the country.
- ☹ A significant increase in greenness of vegetation was observed over most summer rain receiving parts of the country. The greenness of vegetation, NDVI image for this dekad was depicted in ( Fig.3 ). Medium and low vegetation levels Was dominant over most parts of the High-grounds, the adjoining Escarpments and western lowlands of the country.
- ☹ Isolated to scattered rain shower is expected to continue over most parts of the high-grounds, the adjoining Escarpments and Western lowlands of the country during the coming dekad 23 (11-20 August) 1999.

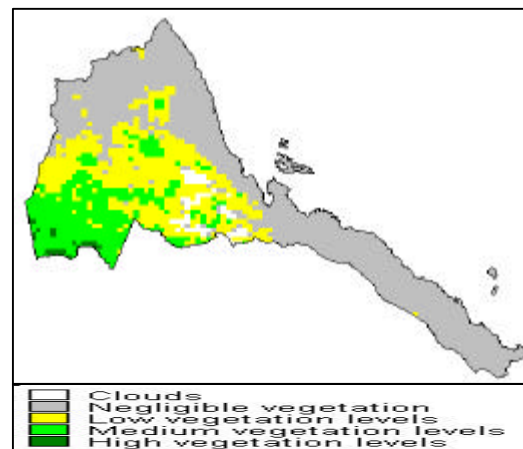
**Fig 1. Comparison of Rainfall during Dekad 22 in 1999, 98, 97 & Long Year Avg.**



**Fig. 2 Rainfall Map of Dekad 22 (01-10 August) 1999**



**Fig. 3 Vegetation Map of Dekad 22 (01-10 August) 1999**



Comments and suggestions for improvement of the Bulletin if any may kindly be mailed to either of the Agencies mentioned below.

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## Dekadal Rainfall and Vegetation Summary

Dekad 22

August 01-10,1999

Station	Rainfall & Vegetation Situation during current dekad					Cumulative Rainfall Since 1 <sup>st</sup> June							
	Actual	Normal	% of Normal	N R D	Ground Report (Phenology)	'99	'98	'97	'96	'95	'94	'93	'92
<b>Maakel</b>													
Adi Hawisha	65	35	<b>186</b>	3	GR/EV/LV	171	136.5	254	240	285	371	234	166
Asmara Airport	44.1	61	72	6	.-	265	208.1	357	147	226	154	182	0
Paradizo	78.7	NA	NA	7	.-	318	227	271	*	*	*	*	*
Ghegeret	112.4	48	<b>234</b>	7	.-	322	149.7	348	189	274	190	192	285
Tsada Christian	44.5	51	87	5	GR/EV/LV	215	168.5	325	214	215	187	*	*
<b>Dehub</b>													
Adi Caih (HQ)	24.4	11	<b>222</b>	3	GR/EV/LV	189	128.4	352	143	259	389	151	0
Areza	11.2	40	28	3	GR/EV/LV	193	161.7	135	118	111	296	101	139
Adi Quala	81.2	43	<b>189</b>	8	GR/EV/LV	398	311.8	424	406	260	355	401	418
Debarewa	148	39	<b>379</b>	6	GR/EV/LV	358	318.5	254	386	227	264	272	240
Decamare	158	38	<b>416</b>	6	GR/EV/LV	341	190.6	226	279	160	346	237	208
Kudus Giorgis	110.7	32	<b>346</b>	7	GR/EV/LV	470	290.8	299	313	217	221	277	230
Mai-aini	12.5	NA	NA	2	GR/EV/LV	301	268.3	238	210	*	*	*	*
Maimne	44.4	38	117	4	GR/EV/LV	292	331.8	261	302	275	343	*	*
Senafe	32.3	47	69	4	GR/EV/LV	266	253.7	214	191	286	504	109	144
Tsorona	14.5	NA	NA	2	GR/EV/LV	173	136.3	352	*	*	*	*	*
<b>D. Keih Bahri</b>													
Assab	0	2	0	0	NCS	0	19.3	0	14	7	0	1	1
Afambo	0	NA	NA	0	NCS	24.5	173	*	*	*	*	*	*
Thio	0	NA	NA	0	NCS	0	0	0	0	*	*	*	*
<b>Anseba</b>													
Elabered (MOA )	140.2	51	<b>275</b>	6	GR/EV	258	250.4	234	142	383	431	388	356
Keren / Darit	108.3	46	<b>235</b>	7	GR/EV	278	259.7	377	263	219	94	194	300
Hagaz	0	47	0	0	GR/EV	136	178.3	133	173	200	175	0	0
Halhal	39.6	57	69	8	GR/EV	274	182.7	251	181	311	222	222	24
<b>S. Keih Bahri</b>													
Afabet	20.2	25	81	3	GR/EV	144	133	0	147	120	144	120	56
Badda	0	NA	NA	0	NCS	5.6	13.7	10	0	*	*	*	*
Ghelalo	0	0	100	0	NCS	1	0	1	0	0	54	18	*
Foro	0	0	100	0	NCS	0	0	0	0	0	*	*	*
Ghinda	19.6	22	89	3	NCS	92.6	23.2	155	55	121	210	62	0
Mahmimet	0	21	0	0	NCS	8	55.5	126	0	88	216	4	*
Massawa	0	0	100	0	NCS	0	0	0	0	5	*	*	*
Menshib	0	NA	NA	0	NCS	32	26	87.9	15	70	*	*	*
Nacfa MS	48	44	109	3	GR/EV	167	52.1	301	89	127	206	140	191
<b>Gash-Barka</b>													
Agordat	108.6	41	<b>265</b>	5	GR/EV	345	168.2	81	97	145	266	134	223
Aligidir	70.9	48	<b>148</b>	2	GR/EV	158	71.8	132	87	NA	NA	NA	76
Barentu	69.8	61	114	6	GR/EV	285	186.6	326	227	192	269	301	223
Forto	68	NA	NA	2	GR/EV	171	126.1	105	60	*	*	*	*
Gollige	83.5	NA	NA	6	GR/EV	290	131	308	171	248	*	*	*
Omhajer	96	49	<b>196</b>	3	GR/EV	339	199.5	300	220	344	303	296	*
Shambuoko R.	0	50	0	NA	GR/EV	0	190.4	193	279	279	364	*	212
Tessenei	75.3	49	<b>154</b>	3	GR/EV	216	68.4	92	295	260	221	0	*

### Legend

NCS: Not Rain-Fed Crop season  
 LP: Land preparation  
 SW: Sowing  
 \* : Rain gauge was not installed

GR: Germination  
 EV: Early vegetative  
 LV: Late Vegetative

FW: Flowering / Heading  
 SS: Seed Setting  
 MT: Maturity  
 Not Sig.: No significant change

HV: Harvesting  
 NA: Data not Available  
 NRD: No. of Rainy days

Data Source:- Ministry of Agriculture; and Management of Asmara Int'l Airport - Meteorological Services