

- Highlights -

- ☺ **A significant increase in rainfall** activities was observed over most Summer rain-benefiting parts of the country. Hence, moderate to heavy thunderstorm experienced over the High-grounds and parts of Western lowlands during this dekad.
- ☺ Heavy fall associated with strong Hailstorm during this dekad has brought cumulative rainfall totals Much Above Normal over zoba Maakel.
- ☺ The Spatial Distribution of rainfall during this dekad is shown in Fig.2. Highest rainfall records during this period were over Asmara 220, Hayelom 191, Tsada Christian 176, Embaderho 134, Hazega 131, Areza 118, Adi-Tecelezan 106, Mekerka 91, Adi-Quala 86, Nakfa 74, Haikota 64, and Asmat 61mm.
- ☺ Most stations over zoba Maakel, Debub and zoba Anseba received good temporal distribution of rainfall. Over five rainy days was reported over Asmara, Tsazega, Tsada-Christian, Adi-Quala, Hazega and Elabered stations.
- ☺ Dekadal rainfall was **Much Above Normal** over zoba Maakel, Normal over Adi-Quala and Meshib while **Below Normal** elsewhere.
- ☺ Cumulative rainfall since first June during this year is Much Higher than the past seven years record over Z. Maakel.
- ☺ Comparison of cumulative rainfall during this dekad during 2000, 1999, 1998 and long year average for selected stations is shown in Fig 1. Adi Caih, Adi Quala, Keren, Afabet and Ghinda received less rainfall amount.
- ☺ NDVI image for this dekad (Fig.3) shows increment of vegetation over Central and Southern High-grounds. Medium vegetation level was observed over southwestern lowlands and southern High-grounds.
- ☺ As per the ground phenology report, early vegetative growth was observed over zoba Maakel, Anseba & Gash-Barka and late vegetative over zoba Debub.
- ☺ Isolated to scattered rain shower with heavy thunderstorm at places are likely over most of the High-grounds and Western Lowlands of the country in the coming dekad 22 (01-10 August) 2000.

Fig 1. Cumulative Rainfall during Dekad 21 (21 – 31 July) 2000

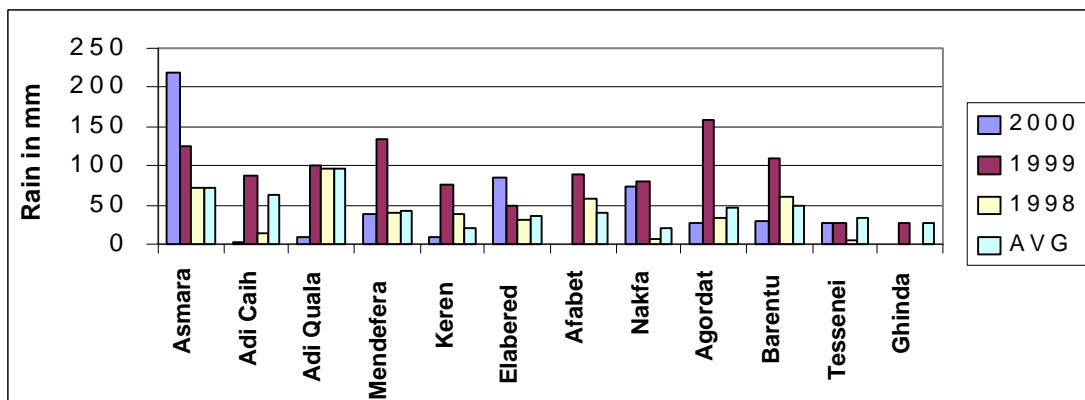


Fig. 2 Rainfall Map of Dekad 21 (21 - 31 July) 2000

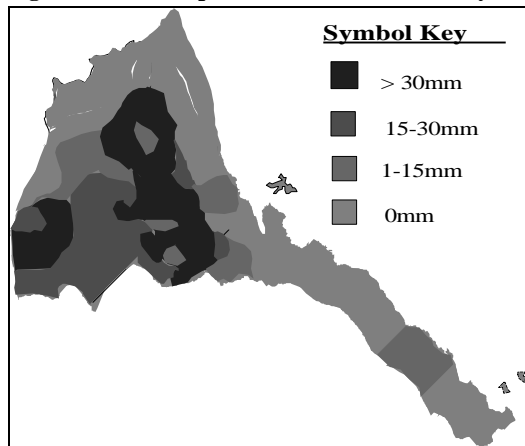
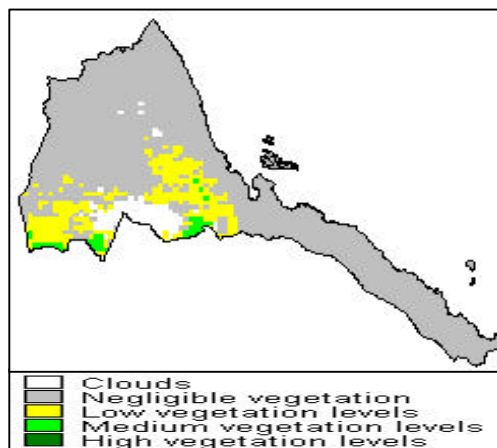


Fig. 3 Vegetation Map of Dekad 21 (21 - 31 July) 2000



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

Processed & Prepared by:

Management of Asmara Int'l Airport
 Meteorological Service
 E-mail: oad@aemal.com.er

Issued by:

Ministry of Agriculture
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Dekadal Rainfall and Vegetation Summary

Dekad 21

July 21-31, 2000

Station	Rainfall & Vegetation Situation during current dekad					Cumulative Rainfall Since 1 June							
	Actual	Normal	% of Normal	NRD	Ground Report (Phenology)	'00	'99	'98	'97	'96	'95	'94	'93
Maakel													
Adi Hawisha	98.7	48	206	5	GR/EV	0	106	83.5	182	211	253	330	234
Asmara Airport	220	71.3	308	9	-	296	221	155	287	107	165	120	166
Ghegeret	236	47.8	495	8	-	347	239	181	206	-	-	-	-
Paradizo	216	*	*	7	-	266	210	112	245	144	244	135	170
Tsada Christian	176	53.3	330	8	GR/EV	208	170	127	267	184	144	143	-
Dehub													
Adi Kaih (HQ)	1.6	62.6	2.56	1	NA	76	142	92.4	343	116	249	373	136
Areza	43	20	215	2	NA	111	181	121	95	90	105	176	101
Adi Quala	85.5	95.6	89.4	6	NA	237	316	277	375	341	210	311	385
Debarewa	43	37	116	4	GR/EV/LV	217	210	183	206	345	179	216	207
Decamare	38.5	69	55.8	2	GR/EV/LV	189	183	137	191	237	131	336	199
Kudus Giorgis	67.3	43	157	4	GR/EV	120	359	223	278	265	183	192	254
Mai-Aini	0	*	*	0	GR/EV	195	301	205	203	176	-	-	-
Maimne	17.8	70	25.4	4	SW/GR/EV	58.9	255	299	243	252	267	275	-
D. Keih Bahri													
Assab	0	6.1	0	1	NCS	5.5	0	8.8	0	14	1	0	1
Afambo	5.5	*	*	0	NCS	0	24.5	165	-	-	-	-	-
Thio	0	0	100	0	NCS	0	0	0	0	0	-	-	-
Anseba													
Elabered(MOA)	84	35	240	7	GR/EV	218	118	204	183	118	383	962	384
Keren / Darit	8.7	20.3	42.9	2	GR/EV	99	170	144	315	263	176	54	161
Hagaz	7.4	13	56.9	4	GR/EV	95.6	136	108	101	146	200	128	0
Halhal	78.9	34	232	5	GR/EV	216	235	139	158	153	263	137	202
Hamelmallo	23.6	*	*	5	GR/EV	90.2	*	*	*	*	*	*	*
S. Keih Bahri													
Afabet	0	40.4	0	0	GR/EV	21	124	105	0	122	66	142	106
Badda	0	0	100	0	NCS	0	5.6	13.2	10	0	-	-	-
Foro	0	13	0	0	NCS	0	1	0	1	0	0	54	18
Ghelalo	0	0	100	0	NCS	0	0	0	0	0	0	-	-
Ghinda	0	27.3	0	0	NCS	0	73	23.2	132	33	120	123	61
Mahmimet	0	17	0	0	NCS	0	8	55.5	78.5	0	88	156	4
Massawa	0	6.4	0	0	NCS	0	0	0	0	0	5	-	-
Menshib	2.5	2.7	92.6	1	NCS	5.3	32	26	86.9	15	62	-	-
Nacfa	74	19	389	1	GR/EV	76	119	48.7	218	62	69	162	140
Gash-Barka													
Agordat	28.2	46.1	61.2	2	SW/GR/EV	73.9	237	163	56	61	125	239	64
Aligidir	0	16.7	0	0	SW/GR/EV	0	87.1	51.8	68	16	NA	NA	NA
Barentu	30	49.3	60.9	3	SW/GR/EV	122	215	150	251	131	146	228	264
Forto	0	*	*	0	SW/GR/EV	0	132	124	60	24	-	-	-
Gollige	60.7	*	*	5	SW/GR/EV	86.7	206	79	221	89	208	-	-
Mekerka	90.8	*	*	5	SW/GR/EV	165	52.6	10	0	0	102	44	*
Keru	7.5	*	*	1	SW/GR/EV	36.5	91	0	NA	40	21	61	0
Shamboko	0	63.3	0	0	SW/GR/EV	0	0	179	141	229	273	290	NA
Tessenei	27.5	39.9	68.9	2	SW/GR/EV	33.6	141	37.1	54	287	180	163	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
 M.A: Much above Normal

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

