



NATIONAL METEOROLOGICAL SERVICES AGENCY

MCT

Station: HOLETAR.S Wereda: _____ Amajja: _____ Rep. of: SHOA
 Alt. 2000m Long. 38° 30' Lat. 04° 05' Elevation: _____ Year 1985

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	0.0	0.0	7.3	0.0	0.0	2.1	2.0	1.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	1.0	8.0	2.0	1.0	2.0	0.0	0.0
3	0.0	0.0	0.0	2.4	0.2	0.0	0.1	1.0	7.0	7.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	5.4	0.0	0.0	0.0	2.0	1.2	0.3	0.0
6	0.0	0.0	0.0	3.2	0.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0
7	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
8	0.0	0.0	0.0	0.0	6.0	2.0	10.0	10.0	0.0	1.3	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	1.0	0.1	2.0	10.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	12.2	42.4	0.5	48.2	73.9	64.4			0.0
11	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	6.0	2.0	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.4	0.0	0.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	13.0	3.0	6.1	26.6	69.9	115.8	24.4			
21	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	2.3	0.0
22	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0
23	0.0	0.0	0.0	10.4	0.0	3.0	10.0	10.0	0.0	0.0	0.0	0.0
24	12.8	0.0	0.0	3.7	0.0	1.1	2.0	2.0	0.0	0.0	0.0	0.0
25	2.4	0.0	3.0	1.9	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	15.6	2.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	3.4	0.4	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		7.3		0.0							
Sum	15.2	0.0	34.7	27.2	0.0	18.0	139.2	73.9	102.0			
M. Sum	15.2		47.7	49.1	48.0	43.6	259.3	230.4	102.0			
Mean												
Hig.	12.8		15.6	10.4	0.0	0.0	0.0	0.0	0.0	0.0	2.3	
Date	24		26	21	0	0						
Low												
Date												



NATIONAL METEOROLOGICAL SERVICES AGENCY

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Station: Holetta K. Station Vereda Awraja Region Shoa
 Alt. _____ Long. _____ Lat. _____ Element Rain fall Year 1986

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	0.0	49.9	0.6	0.0	1.5	5.8	2.8	0.0	4.1	0.0	0.0
2	0.0	0.0	1.5	15.3	0.0	26.5	5.0	2.0	1.5	2.0	0.0	0.0
3	0.0	0.0	6.8	35.7	0.0	0.0	27.5	28.7	0.0	0.0	0.0	0.0
4	0.0	0.0	2.7	0.0	15.1	0.0	0.4	5.8	0.0	0.8	0.0	0.0
5	0.0	1.6	0.0	1.2	14.7	0.0	12.0	1.9	37.6	0.0	0.0	0.0
6	0.0	2.3	0.0	22.5	0.0	4.4	1.1	10.3	5.2	0.0	0.0	0.0
7	0.0	0.7	0.0	0.4	4.3	1.0	3.5	11.3	6.1	0.0	0.0	0.0
8	0.0	0.0	5.1	0.0	0.5	0.0	7.4	16.8	17.8	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.3	1.3	0.8	26.6	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	12.3	0.9	5.5	0.8	13.0	0.0	0.0	0.0
	0.0	4.6	66.0	75.7	46.9	34.6	69.5	111.2	111.8	6.9	0.0	0.0
11	0.0	1.9	0.0	0.0	1.0	4.3	3.5	13.8	6.1	0.0	0.0	0.0
12	0.0	0.0	0.0	3.0	2.3	4.6	5.0	8.7	0.0	0.0	0.0	0.0
13	0.0	0.2	0.0	15.9	3.3	5.0	4.6	18.2	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	1.6	7.6	11.6	3.8	13.6	12.1	T.R	0.0	0.0
15	0.0	0.0	0.0	0.0	1.6	0.9	0.5	0.0	5.4	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	5.8	14.8	3.0	2.2	0.8	0.0	0.0	2.0
17	0.0	0.0	0.4	0.0	13.0	0.8	5.5	18.1	0.0	0.0	0.0	0.0
18	0.0	7.1	7.3	10.5	0.0	13.4	0.0	12.0	0.0	0.0	0.0	0.0
19	0.0	0.0	7.5	5.5	0.0	8.5	17.0	21.7	0.0	4.3	T.R	0.0
20	0.0	0.0	3.0	0.0	0.0	5.4	16.3	10.8	0.0	0.0	0.0	0.0
	0.0	9.2	18.2	36.5	34.6	69.3	59.2	119.1	24.4	4.3	0.0	0.0
21	0.0	0.0	0.0	2.7	1.4	2.3	1.2	29.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	1.3	0.0	32.6	15.4	0.0	6.6	0.7	0.0	0.0
23	0.0	10.7	0.0	0.0	0.0	0.0	15.0	2.8	0.0	0.0	0.0	0.0
24	0.0	6.0	0.0	3.6	0.0	1.0	3.6	3.0	0.0	0.0	0.0	0.0
25	0.0	11.5	0.0	18.5	0.0	0.1	2.5	0.7	0.0	0.0	0.0	0.0
26	0.0	7.7	0.0	0.0	0.0	8.8	1.9	3.2	0.0	0.0	0.0	0.0
27	0.0	1.5	0.0	0.0	6.1	4.3	6.1	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.8	0.0	0.7	43.1	4.2	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	4.2	9.3	2.6	1.2	0.0	0.0	0.0
30	0.0	0.0	3.8	0.0	0.0	0.0	13.1	3.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	11.0	0.6	0.0	0.0	0.0	0.0
Sums	0.0	37.4	3.8	23.3	7.5	54.0	115.0	49.1	7.8	0.7	0.0	0.0
M. Sum	0.0	51.2	88.0	135.5	89.0	157.9	243.9	279.1	144.0	11.9	0.0	0.0
Mean												
Hig.		11.5	49.9	35.7	15.1	32.6	43.1	41.3	39.6	4.3		
Low		2.5	1.5	3	4	2.2	2.8	7	5	1.9		
Date												



NATIONAL METEOROLOGICAL SERVICES AGENCY

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Station: HOLETTA A/C Wereda _____ Awraja _____ Region Sidon

Alt. _____ Long. _____ Lat. _____ Element DAILY AMOUNT Year 1927

MS-516 FORM 7-27

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	
1	0.0	0.0	4.5	12.5	0.0	8.6	0.0	13.7	0.0	4.8	0.0	0.0	
2	0.5	0.0	0.0	12.9	0.0	1.9	0.0	17.0	TR	0.0	0.0	0.0	
3	1.0	0.0	8.4	8.7	0.0	2.6	3.7	4.0	3.6	0.0	0.0	21.4	
4	0.0	0.0	0.0	0.7	0.0	0.8	7.5	0.3	5.9	4.0	0.0	0.0	
5	0.9	0.0	3.2	0.0	0.1	0.0	3.8	29.5	5.8	5.9	0.0	0.0	
6	0.0	0.0	6.0	12.5	9.8	0.0	7.6	2.4	29.4	0.0	0.0	0.0	
7	0.0	0.0	17.1	0.0	1.5	2.5	2.3	3.0	0.9	0.0	0.0	0.0	
8	0.0	0.0	1.5	1.0	8.0	2.0	5.1	28.0	6.5	0.0	0.0	0.0	
9	0.0	0.0	0.4	16.2	1.8	0.0	3.1	15.3	0.0	0.9	0.0	6.0	
10	0.0	0.6	4.0	TR	4.7	0.1	2.3	7.2	8.1	3.1	0.0	0.0	
	2.4	0.6	55.1	61.5	25.9	18.5	35.4	120.4	60.2	167	0.0	21.4	
11	0.0	28.0	TR	2.8	0.0	1.6	0.0	6.5	7.8	0.0	1.2	0.0	
12	0.0	0.0	0.0	0.0	0.0	3.3	6.3	6.1	12.5	0.0	0.2	0.0	
13	0.0	0.0	12.0	0.0	0.0	3.3	2.5	34.6	4.1	0.0	0.0	0.0	
14	0.0	TR	0.0	0.0	0.0	0.0	15.4	2.1	11.4	0.0	0.0	0.0	
15	0.0	0.0	2.3	0.0	0.0	0.0	5.0	3.2	3.6	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.3	0.0	0.0	0.0	0.0	
17	0.0	2.2	10.1	5.2	0.0	0.0	17.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.4	0.2	0.0	1.7	4.0	11.1	0.0	0.0	0.0	0.0	
19	0.0	8.1	1.1	19.0	0.0	1.0	3.4	1.0	0.0	0.0	0.0	0.0	
20	0.0	2.0	0.0	0.7	24.5	12.0	4.3	13.7	0.5	0.0	0.0	0.0	
	0.0	40.5	25.9	27.9	24.5	23.3	60.9	81.6	38.2	0.0	1.4	0.0	
21	0.0	24.0	0.1	0.0	4.1	5.8	8.3	0.6	0.0	0.0	0.0	0.0	
22	0.0	6.4	1.0	0.0	6.6	0.6	1.8	22.3	0.8	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	21.3	19.0	9.1	13.5	0.0	0.0	0.0	0.0	
24	0.0	0.0	3.6	0.0	13.0	4.0	3.4	4.9	4.3	0.0	0.0	0.0	
25	0.0	0.0	9.3	0.0	11.4	2.7	15.0	0.1	9.4	0.3	0.0	0.0	
26	0.0	0.3	0.8	0.0	2.2	0.3	6.2	6.0	0.0	0.0	0.0	0.0	
27	0.0	1.8	0.0	0.0	15.3	4.6	3.4	0.6	0.0	0.0	0.0	0.0	
28	0.0	3.8	15.2	0.0	0.0	TR	4.6	0.7	0.0	0.0	0.0	0.0	
29	0.0		0.4	0.0	9.4	0.5	19.0	3.0	0.0	0.0	0.0	0.0	
30	0.0		TR	0.0	0.0	6.9	2.4	8.1	0.0	0.0	0.0	0.0	
31	0.0				3.3		12.2	0.0		0.0		0.0	
Sum	0.0	36.2	31.1	0.0	86.6	44.7	85.7	59.8	14.5	0.3	0.0	0.0	
M. Sum	2.4	77.3	112.1	92.4	137.0	86.2	182.0	261.8	112.9	17.2	1.4	21.4	
Mean													
Hig.	1.0	28.0	19.1	19.0	24.5	19.0	19.0	34.6	29.4	5.9	1.2	21.4	
Date	3	11	7	19	20	23	29	13	6	5	11	3	
Low													
Date													

1st class



NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: HOLETTA / IAB Wereda WELMERA Awraja MENAGESHA Region SIIKA

Alt. 2000 M Long. _____ Lat. _____ Element PACCY KALIFALL Year 1988

W.D.C. FORMER PART

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	2.7	4.9	0.0	0.0	3.3	3.5	15.9	2.6	6.8	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.5	11.0	0.5	10.1	4.8	11.8	0.0	0.0
3	0.0	0.0	2.6	0.0	0.0	6.4	17.1	20.6	9.8	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.1	17.4	9.3	19.9	0.0	0.0	0.0
5	0.0	0.0	0.0	1.0	0.0	0.0	2.7	0.5	0.5	0.0	6.0	0.0
6	1.0	0.0	0.0	8.1	0.0	0.9	16.1	8.0	0.5	0.0	0.0	0.0
7	0.0	0.0	0.0	2.9	0.0	0.8	3.2	7.4	0.4	0.0	0.0	0.0
8	0.0	0.0	0.0	6.8	0.0	1.3	0.1	6.5	0.4	0.0	0.0	0.0
9	0.0	11.5	0.0	0.6	0.0	6.6	20.2	28.5	12.1	0.0	0.0	0.0
10	0.0	7.5	0.0	13.7	0.0	0.0	14.7	21.7	18.2	0.0	0.0	0.2
	3.7	22.9	2.6	33.1	3.8	30.6	107.9	115.2	73.4	4.8	0.0	0.0
11	0.0	0.0	0.0	1.6	1.8	6.0	18.3	22.2	0.5	0.0	0.0	0.0
12	0.0	0.0	0.0	3.8	1.9	0.0	4.1	4.8	4.3	0.0	0.0	TR
13	0.0	0.8	0.0	4.8	4.6	13.9	7.4	9.0	14.9	2.0	0.0	0.0
14	0.0	14.7	0.0	1.0	TR	3.9	14.0	10.7	12.0	17.1	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	8.2	0.9	2.2	0.0	0.0	0.0
16	1.6	0.0	0.0	0.0	0.0	0.0	10.3	14.0	15.5	6.1	0.0	0.0
17	4.9	0.0	0.0	1.0	0.0	9.3	0.2	0.3	0.0	1.9	0.0	0.0
18	0.0	0.0	0.0	21.7	9.0	0.0	4.1	20.9	11.5	0.0	0.0	0.0
19	0.0	0.0	0.0	2.3	0.0	0.0	14.3	3.7	4.4	0.0	0.0	0.0
20	0.1	0.0	0.0	16.6	0.0	4.9	6.6	13.7	18.5	0.0	0.0	0.0
	6.6	15.5	0.0	52.8	17.3	38.0	88.0	105.2	85.2	27.1	0.0	0.0
21	0.0	0.0	0.0	0.5	0.0	4.7	5.3	12.6	30.0	0.0	0.0	0.0
22	0.0	3.5	0.3	0.1	0.0	7.3	2.1	6.2	14.3	0.0	0.0	0.0
23	0.0	TR	0.0	0.0	0.0	0.0	13.5	0.4	0.0	0.0	0.0	0.0
24	0.0	19.8	0.0	0.0	0.0	0.0	9.6	0.0	6.2	0.0	0.0	0.0
25	0.0	0.5	4.8	0.0	0.0	0.8	5.5	12.0	7.8	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	3.6	1.3	10.4	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	12.2	9.8	0.4	21.5	0.0	0.0	0.0
28	0.0	0.3	0.0	0.0	0.0	2.5	5.7	2.8	1.5	0.0	0.0	0.0
29	0.0	0.0	0.0	0.8	0.0	8.3	7.4	13.8	1.4	0.0	0.0	0.0
30	0.0	0.0	0.0	2.6	0.0	0.0	18.5	4.5	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	17.0	0.2	0.0	0.0	0.0	0.0
Sum	0.0	41.3	5.2	14.2	0.0	39.4	95.7	63.3	82.7	0.0	0.0	0.0
M. Sum	10.3	80.7	7.8	90.1	21.1	108.0	291.6	253.7	234.9	31.9	0.0	0.0
Mean												
Hig.	4.9	19.8	4.8	21.7	9.0	13.2	20.2	28.5	30.0	17.1		0.2
Dis	17	21	25	18	18	13	9	9	21	14		10
Low												
Date												



NATIONAL METEOROLOGICAL SERVICES AGENCY

12/155

Station: HOLETA (JAR) Wereda WOMERA Awraja MINAGCSHA Region SIHOA
 Alt. _____ Long _____ Lat _____ Element DAILY RAIN FALL Year 1989

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	0.0	0.0	0.0	0.0	0.0	3.9	12.2	7.3	0.0	0.0	0.0
2	0.0	0.0	0.0	2.0	0.0	0.0	7.0	7.7	4.8	0.0	0.0	0.0
3	0.0	6.6	0.0	3.2	0.0	0.0	6.7	5.0	3.5	0.0	0.0	0.0
4	0.0	17.2	0.0	0.0	0.0	0.0	1.5	17.0	0.8	0.0	0.0	0.0
5	0.0	36.4	0.0	1.9	0.0	0.0	10.0	3.9	2.6	0.0	0.0	0.0
6	0.0	3.2	0.0	0.0	0.0	TR	11.5	10.4	0.2	0.0	0.3	6.6
7	0.0	2.3	0.5	TR	0.0	5.9	12.1	0.4	6.9	0.0	0.0	TR
8	0.0	15.6	0.0	3.5	0.0	8.6	9.5	3.3	8.7	TR	0.0	0.0
9	0.0	3.6	0.0	0.0	0.0	0.0	11.3	4.0	13.5	0.0	0.0	0.0
10	0.0	2.2	0.0	0.0	0.0	2.4	3.6	4.2	2.9	0.0	0.0	0.0
	0.0	86.9	0.5	10.6	0.0	23.9	77.1	62.1	51.2	0.0	0.3	0.6
11	0.0	TR	0.0	3.2	0.0	7.5	8.8	3.2	1.2	0.0	0.0	0.0
12	0.0	0.0	0.0	7.4	0.0	0.0	17.5	0.3	2.7	0.0	0.0	0.0
13	0.0	0.0	0.0	0.7	0.8	6.3	16.0	14.2	2.4	0.0	0.0	0.0
14	0.0	0.0	6.2	0.0	0.4	0.0	7.0	5.3	1.4	0.0	0.0	0.0
15	0.0	0.0	4.9	0.0	0.0	0.0	5.0	16.0	0.7	0.0	0.0	0.0
16	3.7	0.0	9.5	2.1	0.0	3.7	4.0	20.1	8.0	0.0	0.0	15.0
17	0.0	0.0	0.0	0.0	1.7	1.8	0.7	7.0	26.9	1.3	0.0	2.6
18	0.0	0.0	1.9	0.0	0.0	0.0	2.6	13.6	1.0	0.0	0.0	0.1
19	2.3	0.0	0.0	4.8	0.0	0.0	1.9	4.0	0.0	0.7	0.0	TR
20	0.9	0.0	0.0	1.0	0.0	1.7	17.1	13.1	0.0	1.0	0.0	0.0
	6.9	0.0	22.5	19.2	2.9	21.0	81.0	45.3	144.3	3.0	0.0	17.4
21	TR	0.0	0.0	5.2	0.1	3.5	18.0	26.5	2.7	0.0	0.0	0.0
22	0.2	0.0	0.0	7.0	1.2	1.1	3.0	2.1	1.4	0.0	0.0	0.0
23	0.0	0.0	0.0	15.0	2.0	0.0	9.7	10.2	1.6	0.0	0.0	0.0
24	0.0	0.0	0.0	9.3	0.0	8.3	13.2	16.5	3.0	0.0	0.0	0.0
25	0.0	0.0	13.5	1.9	0.0	0.0	2.6	10.1	1.0	0.0	0.0	0.0
26	0.0	0.0	1.9	1.6	2.1	5.5	5.3	19.3	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	3.0	2.3	0.3	12.3	0.0	0.0	0.0
28	0.0	0.0	16.1	0.0	0.0	2.1	9.3	8.0	0.0	0.0	0.0	2.9
29	0.0	0.0	6.6	0.0	0.0	1.3	12.3	9.5	0.0	TR	0.0	0.0
30	0.0	0.0	16.8	0.0	0.0	5.2	0.6	4.3	0.0	0.0	0.0	TR
31	0.0	0.0	6.1	0.0	0.0	0.0	1.3	10.6	0.0	0.0	0.0	0.0
Sum	0.2	0.0	55.0	40.0	5.4	30.0	82.6	115.4	22.0	0.0	0.0	2.9
M. Sum	7.1	86.9	78.0	69.8	8.3	74.9	240.7	279.3	119.5	3.0	0.3	21.2
Mean												
Htg.	3.7	36.4	16.8	15.0	2.1	9.4	18.0	26.5	26.9	1.3	0.3	15.0
Date	16	5	30	23	26	10	21	21	17	17	6	16
Low												
Date												

4th class



NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: HOLETTA BAS. CEN. Wereda HOLETTA / AMBA / Awraja WELMEZA Region SHOA

Alt. Long. Lat. Element DAILY RAIN FALL Year 1990

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	00		0.0	2.7	00	8.2	23.4	9.3	4.4	0.3	0.0	00
2	00		4.3	1.0	00	2.4	12.0	6.2	3.0	3.1	00	00
3	00		0.0	23.9	17.3	2.0	0.6	14.4	0.6	2.7	00	00
4	00		5.5	10.3	00	2.3	6.1	12.9	7.7	0.0	00	00
5	00		3.0	17.2	00	3.8	15.5	9.3	12.0	00	00	00
6	00		0.0	9.2	00	3.0	22.6	26.5	3.4	00	00	00
7	00		3.3	7.0	00	9.0	13.0	4.8	7.2	00	00	00
8	00		0.0	4.9	1.5	00	4.0	7.5	00	1.0	00	00
9	00		00	00	00	00	0.7	2.3	16.5	00	00	00
10	00		00	00	00	00	5.6	10.0	6.5	00	00	7.1
	0.0		16.1	67.0	18.8	30.7	103.5	103.2	61.5	6.1	0.0	0.0
11	00		00	00	1.9	1.2	5.8	13.4	0.4	00	00	0.9
12	00		00	00	00	00	11.1	21.2	0.0	00	00	0.0
13	00		00	00	7.1	14.3	0.0	4.8	8.1	00	00	00
14	00		00	00	00	6.1	17.7	12.0	9.0	00	00	00
15	00		00	00	00	7.0	2.8	1.0	3.0	00	00	00
16	00		00	00	0.2	0.9	12.6	13.0	9.1	00	00	00
17	0.5		00	00	2.1	5.6	12.1	5.5	0.6	00	00	00
18	00		00	0.8	0.3	3.2	19.9	0.2	11.3	00	00	00
19	00		00	00	0.8	11.2	2.1	16.6	1.5	1.9	00	00
20	00		00	1.3	15.4	2.5	12.0	1.2	0.5	00	00	00
	0.5		0.0	2.1	20.7	52.0	96.1	91.9	43.5	1.9	0.0	0.9
21	00		5.8	00	00	6.0	1.5	6.9	0.0	00	00	00
22	00		0.2	00	00	1.5	2.5	7.9	5.0	00	00	00
23	00		0.0	3.8	00	2.5	8.0	13.6	23.5	0.0	00	00
24	00		00	00	00	00	2.0	4.7	0.0	00	00	00
25	00		00	0.9	00	12.4	5.7	4.0	13.9	00	00	00
26	00		00	9.7	00	3.2	0.2	3.3	0.7	00	00	00
27	00		00	0.0	0.2	7.3	0.0	3.8	5.0	00	00	00
28	00		00	9.2	00	7.2	1.3	2.8	0.0	00	00	00
29	00		0.8	2.7	0.3	7.1	20.0	24.0	1.8	00	00	00
30	00		11.2	00	10.2	9.0	1.6	65.0	0.8	00	00	00
31	00		0.8		5.3		20.0	7.1		00		00
Sum	0.0		18.8	26.3	16.0	49.1	62.8	143.1	50.7	0.0	0.0	0.0
M. Sum	0.5		34.9	95.4	55.5	131.8	262.4	338.2	155.7	8.0		0.9
Mean												
Hig.	0.5		11.2	23.9	17.3	14.3	23.4	65.0	23.5	3.1		0.9
Days	17		30	5	3	13	1	30	23	2		11
Low												
Dats												

1st class



NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: HOLETTA R.C. Wereda HOLETTA Awraja WELMEKA Region SHOA

Alt. Long. Lat. Element QAEY RAIN FALL Year 1991

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	00	00	00	2.8	0.0	00	35.5	5.7	11.7	00	00	00
2	00	00	0.9	0.2	0.1	0A	22.0	7.2	7.0	00	00	00
3	7.2	00	00	0.9	9.0	0.6	10.6	23.4	6.9	00	00	0.5
4	00	00	00	1.1	11.0	00	7.0	15.9	12.7	00	00	1.7
5	00	00	2.3	1.2	7.2	0.2	42.0	15.1	3.3	2.2	00	00
6	0.3	00	18.0	2.3	25.1	0.7	16.5	1.1	3.9	00	00	00
7	1.3	00	00	00	00	00	1.1	7.1	0.3	0.1	00	00
8	0.0	00	2.2	00	0.5	0.1	4.2	0.1	1.3	00	00	00
9	00	00	25.6	00	00	00	1.3	43.3	6.0	00	00	00
10	00	6.0	13.5	00	00	2.7	21.5	2.9	19.5	00	00	00
	1.6	6.0	62.5	2.5	36.7	5.0	115.8	112.8	75.6	2.6	0.0	2.2
11	00	7.5	00	00	00	4.1	13.6	5.3	2.5	00	00	00
12	00	00	26.6	00	00	1.9	00	8.3	1.5	00	00	00
13	00	00	2.3	00	00	11.5	3.1	4.6	0.3	00	00	00
14	00	00	00	00	00	3.6	3.8	0.5	1.0	00	00	00
15	00	00	00	00	00	00	2.3	3.0	7.2	00	00	00
16	00	2.6	00	00	00	00	0.2	16.0	7.2	00	00	00
17	00	9.7	00	00	00	00	4.4	0.7	0.7	00	00	00
18	00	00	0.0	00	00	00	2.5	00	2.6	00	00	00
19	00	00	2.0	00	0.1	9.5	6.2	6.6	11.1	00	00	00
20	00	00	00	00	00	5.9	6.3	7.0	27.5	00	00	2.6
	00	19.8	30.9	00	0.4	36.5	50.5	52.0	47.2	00	00	2.6
21	00	4.9	00	00	00	1.1	22.2	0.9	4.0	00	0.3	00
22	00	0.0	00	00	00	11.0	11.2	12.2	42.9	00	00	1.0
23	00	00	1.6	12.8	00	2.6	8.0	1.1	00	00	00	00
24	00	22.0	12.0	00	00	7.3	3.8	14.9	2.8	00	00	00
25	00	00	3.6	00	00	2.5	1.1	1.0	00	00	00	00
26	19.5	11.2	00	00	00	5.3	5.0	13.7	00	00	00	00
27	00	4.9	00	00	00	1.3	11.8	13.5	00	00	00	00
28	00	00	00	00	00	2.5	1.9	3.1	00	00	00	00
29	00	00	7.4	00	00	13.2	00	0.2	00	00	00	00
30	00	00	00	00	0.1	1.3	00	2.7	00	00	00	00
31	00	00	00	00	00	00	1.0	0.9	00	00	00	00
Sum	19.5	49.0	24.6	12.8	0.1	48.4	66.0	67.2	43.1	2.2	0.3	1.0
M. Sum	21.1	74.8	118.0	21.3	37.2	89.8	232.1	233.0	175.5	11.0	1.0	5.5
Mean												
Hig.	19.5	28.0	26.6	12.8	25.1	13.2	22.2	43.3	42.9	2.2	0.3	2.6
Date	26	24	12	23	6	29	2	9	22	5	21	20
Low												
Date												



NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: Holeta R.C. Wereda _____ Awraja _____ Region SHOA
 Alt. _____ Logg. _____ Lat. _____ Element Daily Rainfall Year 1992

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	0.0	1.2	2.9	2.4	0.0	14.0	25.3	3.8	0.0	0.0	
2	0.0	2.0	8.8	11.5	0.0	1.7	2.6	1.1	0.7	1.4	0.0	
3	0.0	0.0	0.0	2.0	0.2	0.0	2.3	27.8	4.3	0.0	0.0	
4	0.0	0.4	0.0	0.0	0.0	0.0	8.0	8.3	5.7	2.7	0.0	
5	0.0	0.6	0.1	0.0	0.0	0.0	2.0	2.3	1.1	0.0	0.0	
6	0.0	0.5	0.0	0.0	0.0	4.6	3.1	34.0	0.6	0.0	0.0	
7	0.0	0.0	0.0	0.0	1.3	19.5	31.1	11.2	1.8	9.3	0.0	
8	0.0	0.0	0.0	4.5	9.6	9.1	4.3	4.1	3.6	0.6	0.0	
9	0.0	10.7	0.0	0.0	1.7	0.2	4.9	12.1	0.4	0.0	0.0	
10	0.4	0.0	0.0	0.0	0.0	0.0	0.7	19.3	2.8	20.6	0.0	
	0.4	14.2	10.1	20.9	15.2	35.1	73.0	145.5	24.2	34.6	0.0	
11	0.2	0.0	0.0	0.0	1.7	0.0	4.4	9.5	0.9	0.5	0.6	
12	0.0	0.0	0.0	0.0	0.4	3.5	26.3	12.4	3.3	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.8	20.7	1.9	3.7	3.5	0.0	0.0	
14	0.0	0.0	0.0	1.2	1.0	0.3	3.8	7.1	0.0	0.0	0.0	
15	0.0	0.0	0.6	0.3	0.0	0.0	8.1	14.5	7.9	0.0	0.0	
16	0.0	0.0	0.0	0.2	0.0	0.9	2.7	4.1	8.2	0.7	0.0	
17	0.0	0.7	0.0	0.0	3.2	0.0	1.4	7.4	2.4	0.5	0.0	
18	10.2	3.4	19.7	0.0	0.2	0.6	3.6	7.2	4.3	0.0	0.0	
19	1.5	0.0	0.0	0.0	2.4	0.0	23.6	9.7	0.9	0.0	0.0	
20	0.0	0.0	0.0	0.2	0.1	0.0	1.7	TR	2.5	0.0	0.0	
	11.9	4.1	20.3	1.9	9.8	26.0	77.5	75.6	33.9	1.7	0.6	
21	0.3	0.0	0.0	0.0	0.0	0.6	TR	7.0	8.2	0.0	0.0	
22	0.0	0.0	0.0	4.5	0.0	0.6	7.7	4.5	9.3	0.0	0.0	
23	1.1	0.0	0.7	0.0	0.0	8.6	4.4	3.0	5.3	0.0	0.0	
24	0.0	7.1	4.9	13.1	4.9	6.6	2.7	12.5	9.3	0.0	0.0	
25	8.9	7.7	0.3	2.4	1.5	5.3	8.5	8.4	9.1	0.0	0.0	
26	2.8	0.0	0.0	34.4	3.2	6.2	0.8	9.9	8.2	0.0	0.0	
27	0.0	0.4	15.4	0.8	0.0	5.7	5.0	4.0	4.9	0.0	0.0	
28	0.0	0.0	3.0	15.5	0.0	6.7	3.7	7.0	5.4	0.0	0.0	
29	0.0	0.0	2.0	1.5	0.0	9.1	6.0	4.4	8.5	0.0	0.0	
30	0.2	0.0	0.1	0.0	0.0	4.9	0.0	7.8	8.2	0.0	0.0	
31	31.8	0.0	2.0	0.0	0.0	0.0	1.6	17.0	0.0	0.0	0.0	
Suro	45.1	15.2	28.4	72.2	9.6	54.3	40.4	91.5	76.4	0.0	0.0	
M. Suro	57.4	33.5	58.8	95.0	34.6	115.4	190.9	312.6	135.1	36.3	0.6	
Mean												
Hz.	31.8	7.7	19.7	34.4	9.6	20.7	26.3	34.0	9.3	20.6	0.6	
Date	31	25	18	26	8	13	12	6	24	10	11	
Low												
Date												



NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: Holeta IAR Wereda _____ Awraja _____ Region SHOA
 Alt. _____ Long. _____ Lat. _____ Element Daily Rainfall Year 1993

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	0.0	0.0	0.0	TR	2.5	0.9	23.5	2.6	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.3	4.4	32.3	33.6	3.0	0.0	0.0
3	0.0	0.7	0.0	6.7	1.6	0.2	8.4	12.5	4.9	0.3	0.0	0.0
4	0.0	7.7	0.0	2.5	1.9	25.0	0.0	1.6	8.8	2.5	0.0	0.0
5	0.0	9.8	0.0	12.8	0.0	2.2	4.0	14.0	10.7	0.0	0.0	0.0
6	0.0	11.0	0.0	8.5	0.0	18.3	0.8	20.9	10.5	0.0	0.0	0.0
7	0.0	2.0	1.0	0.0	0.0	1.2	1.5	2.3	14.3	0.0	0.0	0.0
8	0.0	0.3	2.8	3.1	0.0	0.7	4.8	0.0	7.0	0.0	0.0	0.0
9	0.0	0.2	0.0	0.4	0.0	0.4	15.1	8.1	0.2	0.0	0.0	0.0
10	0.0	4.9	0.0	0.0	0.0	3.4	10.4	1.5	5.3	0.0	0.0	0.0
	0.0	36.6	3.8	26.0	3.5	54.2	50.3	116.7	97.9	5.8	0.0	0.0
11	0.0	21.5	0.0	0.0	1.2	0.0	0.9	1.4	1.7	0.0	0.0	0.0
12	0.0	0.0	0.0	11.9	18.5	1.6	4.1	5.5	1.7	0.0	0.0	0.0
13	0.0	0.0	0.0	7.0	17.7	0.0	3.8	15.6	1.5	0.0	0.0	0.0
14	0.0	9.4	0.0	3.7	0.7	1.0	7.6	11.9	2.1	0.0	0.0	0.0
15	0.0	0.0	0.0	TR	0.0	4.0	0.0	TR	4.2	0.0	0.0	0.0
16	16.5	0.0	0.0	10.6	0.0	TR	5.0	0.8	12.5	0.0	0.0	0.0
17	0.0	0.0	0.0	3.9	1.4	7.7	1.2	9.8	4.1	0.0	0.0	0.0
18	0.0	0.0	0.0	TR	0.6	0.4	29.0	13.6	13.9	0.0	0.0	0.0
19	0.0	0.0	0.0	16.1	0.0	9.8	3.7	2.5	12.0	0.0	0.0	0.0
20	0.0	0.0	0.0	4.4	0.0	1.0	8.2	9.9	0.0	0.0	0.0	0.0
	16.5	30.9	0.0	57.6	40.1	25.5	63.5	71.0	53.7	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	2.4	0.9	1.4	13.2	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.2	26.5	4.7	0.0	0.0	0.0
23	0.0	2.7	0.0	0.0	0.1	0.0	4.5	2.1	4.5	0.0	0.0	0.0
24	0.8	2.3	0.0	0.0	0.0	2.3	17.8	2.8	2.0	19.5	0.0	0.0
25	0.9	10.7	0.0	0.0	0.7	2.6	8.0	12.4	8.5	0.0	0.0	0.0
26	0.0	0.6	0.0	TR	0.9	0.0	3.3	3.6	14.4	0.0	0.0	0.0
27	0.0	0.0	0.0	36.5	0.0	3.1	22.3	2.0	17.0	0.0	0.0	0.0
28	0.0	0.0	0.0	5.2	0.0	2.7	16.5	2.8	8.6	1.2	0.0	0.0
29	0.0		0.0	1.7	0.6	10.4	5.1	3.5	0.4	0.0	0.0	0.0
30	0.0		0.0	0.0	11.0	1.4	6.3	6.7	2.6	0.0	0.0	0.0
31	0.0		0.0		0.0		10.8	12.8		0.0		0.0
Sum	1.7	16.3	0.0	43.4	15.7	23.4	96.2	88.4	62.7	20.7		0.0
M. Sum	18.2	83.8	3.8	127.0	59.3	103.1	210.0	276.1	214.3	26.5		
Mean												
Hig.	16.5	21.5	2.8	36.5	18.5	25.0	29.0	32.3	33.6	19.5		
Date	16	11	18	27	12	4	18	2	2	24		
Low												
Date												



NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: Holata Research Wereda Abimeya Awraja Mekki Gesha Region SHOA
 Alt. _____ Long: _____ Lat. _____ Element SOY RAIN Year 1995

COMMERCIAL P. E. 03003/86

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1		0.0	0.0	0.0	0.0	0.0	1.3	21.4	1.8	1.4	0.0	0.0
2		0.0	0.0	8.6	0.0	5.0	0.0	16.4	3.0	0.0	0.0	0.0
3		0.0	0.0	0.2	0.0	5.4	2.6	2.5	8.3	0.0	0.0	0.0
4		0.0	0.0	8.5	13.0	0.0	0.0	11.6	0.0	0.0	0.0	0.0
5		0.0	0.0	0.0	6.8	0.0	0.0	0.0	14.6	0.0	0.0	0.0
6		0.0	0.0	11.8	0.0	0.0	1.4	1.0	3.6	0.0	0.0	0.0
7		0.0	25.5	2.5	0.0	0.0	11.8	0.0	4.5	0.0	0.0	0.0
8		56.7	0.0	1.0	0.0	0.0	1.7	24.4	0.2	0.0	0.0	0.0
9		4.3	0.0	3.9	0.0	0.0	2.8	0.3	10.3	0.0	0.0	0.0
10		0.0	0.0	0.0	0.0	0.0	0.8	6.3	9.1	0.0	0.0	0.0
		64.0	25.5	31.5	19.6	10.4	22.4	8.3	55.4	1.4	0.0	0.0
11		0.0	0.0	5.0	0.0	0.0	7.9	16.2	2.2	0.0	0.0	0.0
12		1.6	0.0	3.2	24.5	0.0	7.2	4.1	0.0	0.0	0.0	0.0
13		4.7	0.0	0.0	5.4	0.0	0.7	27.5	0.0	0.0	0.0	0.0
14		0.0	0.0	13.5	0.4	0.0	0.0	87.5	0.0	1.2	0.0	0.0
15		13.5	0.0	6.2	1.8	0.0	1.8	0.3	0.0	12.9	0.0	0.0
16		0.0	0.0	6.0	0.2	4.6	5.9	0.6	0.5	0.0	0.0	0.0
17		0.0	0.0	13.5	0.3	15.6	8.1	4.4	0.2	0.0	0.0	11.0
18		0.0	0.0	0.0	3.5	2.2	3.6	6.7	4.8	0.0	0.0	2.5
19		0.0	0.0	3.5	0.0	3.6	0.3	1.4	8.0	0.0	0.0	0.0
20		0.0	1.1	0.0	4.0	0.0	0.5	7.8	1.0	0.0	0.0	0.0
		19.8	1.6	50.9	40.6	29.0	35.5	111.5	16.7	14.1	0.0	13.5
21		0.0	14.0	0.0	0.0	6.2	31.5	4.3	2.8	0.0	0.0	0.0
22		0.0	0.2	0.7	0.0	1.4	7.7	4.9	4.8	0.0	0.0	0.0
23		0.0	0.0	0.0	0.0	3.2	24.6	8.9	1.7	0.0	0.0	0.0
24		0.0	0.6	14.0	0.0	0.0	23.3	16.8	0.6	0.0	0.0	6.0
25		0.0	0.0	8.7	0.0	2.1	24.6	0.4	0.0	0.0	0.0	0.0
26		0.0	0.0	23.0	0.6	12.1	11.5	25.9	0.0	0.0	0.0	0.0
27		0.0	0.0	0.0	1.9	5.2	0.0	1.7	0.0	0.0	0.0	0.0
28		0.8	0.0	0.0	8.8	5.2	2.4	7.1	0.0	0.0	0.0	0.0
29			0.0	0.0	8.1	11.8	0.7	3.6	0.0	0.0	0.0	0.0
30			0.0	0.0	1.5	5.0	1.7	0.0	0.0	0.0	0.0	0.0
31			0.0	0.0	0.0	0.0	1.0	0.5		0.0		20.5
Sum		0.8	14.8	41.4	20.9	52.2	139.6	69.1	16.0	0.0	0.0	30.5
M. Sum		89.6	41.9	123.8	81.3	91.6	196.9	264.5	82.1	15.5		34.0
Mean												
Hig.		56.7	25.5	23.0	24.5	18.6	34.6	37.5	14.6	12.9		20.5
Date		8	7	26	12	17	23	14	5	15		31
Low												
Date												

Copied by: Name _____
/bn.

Sig. _____

3-6-15

Sig. _____



NATIONAL METEOROLOGICAL SERVICES AGENCY

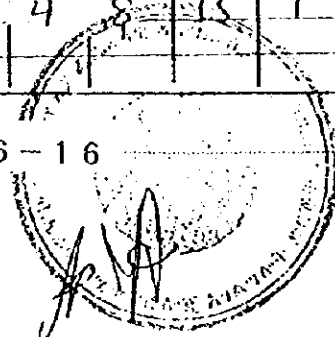
157

Station: Holela DAR Wereda _____ Awraja _____ Region SKOA
 Alt. _____ Long. _____ Lat. _____ Element Daily Rainfall Year 1996

COMMERCIAL P. E. 0305/84

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1		0.0	0.0	0.0	0.0	0.0	0.8	10.0	4.3	5.3		
2		0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.9	0.0		
3		0.0	0.0	0.0	0.0	6.5	3.8	TR	0.0	0.0		
4		0.0	0.0	0.0	0.0	26.0	19.5	7.2	11.5	0.0		
5		0.0	0.0	1.8	0.0	30.2	12.5	0.0	1.5	0.0		
6		0.0	8.5	TR	0.0	12.4	4.5	11.8	7.2	0.0		
7		0.0	2.7	17.1	0.0	0.2	17.0	2.6	0.1	0.0		
8		0.0	0.0	0.9	3.0	0.6	1.9	9.0	12.2	0.0		
9		0.0	TR	3.5	3.5	5.6	3.8	28.3	1.4	0.0		
10		0.0	7.0	0.6	1.1	TR	7.2	11.4	6.4	0.0		
		0.0	18.2	23.9	7.6	21.5	71.0	21.2	45.5	5.3		
11		0.0	0.0	0.5	1.0	0.0	8.1	2.2	9.2	0.0		
12		0.0	1.0	2.8	0.7	TR	11.9	9.1	0.0	0.0		
13		0.0	5.3	0.0	5.7	8.5	8.9	1.2	3.1	0.0		
14		0.0	16.0	12.2	1.2	14.5	2.8	9.0	0.4	0.0		
15		0.0	2.7	0.3	0.0	5.2	8.0	5.2	18.8	0.0		
16		0.0	0.6	0.0	15.6	6.0	9.7	6.2	3.2	0.0		
17		0.0	0.0	6.6	TR	1.3	18.6	10.5	4.7	0.0		
18		0.2	1.9	TR	3.2	0.0	2.5	22.5	0.9	0.0		
19		0.0	0.3	1.4	0.0	4.8	14.8	21.2	0.6	0.0		
20		0.0	0.7	5.1	0.1	2.2	2.6	16.1	5.7	0.0		
		0.2	28.5	28.9	27.5	45.3	25.4	125.5	46.1	0.1		
21		0.0	0.0	0.0	0.0	2.5	7.2	0.2	0.8	0.0		
22		0.0	0.8	0.0	0.0	12.8	8.6	9.4	12.4	0.0		
23		0.0	0.2	0.0	0.6	5.9	8.9	0.9	6.5	0.0		
24		1.7	0.0	0.0	0.8	9.2	3.0	7.6	5.5	0.0		
25		2.2	6.5	0.0	0.0	6.5	3.2	2.5	0.0	0.0		
26		4.2	30.3	0.0	7.3	7.8	2.9	13.2	0.0	0.0		
27		0.2	2.5	2.0	0.0	5.7	1.7	4.4	0.0	0.0		
28		TR	4.9	3.1	0.2	0.6	16.0	5.2	0.0			
29		TR	1.0	0.5	0.4	0.0	X	5.6	0.0			
30		TR	2.2	0.0	6.0	0.6	X	3.2	4.0			
31		TR	0.0		5.0		X	0.5				
Sum		8.3	47.4	51.6	20.3	57.0	57.5	49.7	29.2	0.0		
M. Sum		88.5	94.1	58.4	55.4	183.8	213.9	336.4	120.7	5.3		
Mean												
Hig.		4.2	30.3	12.2	15.6	30.2	19.5	23.3	18.8	5.3		
Date		26	26	14	16	5	4	8	15	1		
Low												
Date												

Copied by: Name _____ Sig. _____ 3 - 6 - 16 _____

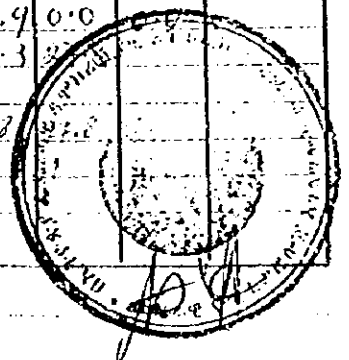




NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: HOMBOLLE Wereda Awraja Region SINCH
 Alt. Long. Lat. Element daily Rain fall Year 1977

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	8.8	0.0	0.0	4.5	0.0	0.0	6.3	12.4	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	10.9	0.0	22.1	5.5	0.0	10.1	0.0	0.0
3	0.0	0.0	0.0	18.4	1.2	0.0	0.0	6.8	23.5	4.1	0.0	0.0
4	0.0	0.0	0.0	2.9	0.0	0.0	10.0	4.3	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	1.4	20.1	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.8	0.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	4.1	0.0	10.9	0.0	0.0	0.0
8	0.0	0.0	0.0	8.9	0.0	41.5	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	35.9	13.8	3.5	3.8	0.0	0.0
10	0.0	1.3	0.0	0.0	0.0	9.8	9.4	3.2	4.8	0.0	0.0	0.0
	8.8	1.3	0.0	35.8	12.1	51.3	101.2	66.7	47.7	21.9	27.8	0.0
11	0.0	2.1	0.0	0.0	0.0	13.4	4.8	0.0	11.5	3.3	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	23.5	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	0.0	0.0
14	36.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.9	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	13.3	5.2	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	6.9	0.0	0.0	0.0	0.0	3.1	3.4	10.9	15.8	0.0	0.0	0.0
19	26.5	0.0	0.0	0.0	0.0	0.0	20.5	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	6.5	2.7	0.0	0.0	0.0	0.0
	71.1	2.1	0.0	0.0	0.0	21.0	57.1	50.4	40.6	8.5	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	18.2	0.2	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	8.2	0.0	0.0	0.0	0.7	0.0	0.0	12.4	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	11.4	31.1	0.0	0.0	12.2	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.1	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	17.2	17.1	0.0	0.0	0.0	0.0
26	0.0	0.0	1.1	36.6	0.0	0.0	0.0	7.8	0.0	14.7	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	18.8	0.0	0.0	0.0	30.9	0.0	0.0
28	0.0	0.0	3.2	2.1	0.0	0.0	0.0	6.1	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	45.2	0.0	0.0
30	0.0	0.0	0.0	3.1	0.0	0.0	59.3	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	5.8	0.0	0.0	0.0	0.0	31.9	0.0	9.8	0.0	0.0
Sum	0.0	0.0	18.3	45.7	0.0	41.4	111.1	62.9	0.0	162.9	0.0	0.0
M. Sum	79.9	3.4	18.3	81.5	12.1	113.7	271.4	180.0	88.3	193.3	0.0	0.0
Mean												
Hfig.	36.8	2.1	8.2	36.6	10.9	41.5	59.3	32.3	13.5	45.8	0.0	0.0
Date	14	11	22	26	2	2	31	23	3	29		
Low												
Date												





NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: HOMBOLLE Wereda Awraja Region SEHA
 Alt. Long Lat. Element 20.4 22.0 19.0 Year 1978

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	0.0	0.0	0.0	5.1	0.0	5.2	22.9	0.0	22.9	0.0	0.0
2	0.0	0.0	19.2	0.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	3.1	0.0	0.0	0.0	0.0	6.4	4.3	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	20.4	18.6	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	12.6	0.0	0.0	1.2	0.0	0.0
6	0.0	0.0	0.0	4.7	0.0	0.0	0.0	42.1	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	8.1	0.0	0.0	3.6	1.1	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	18.7	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	22.3	4.7	24.0	0.0	57.9	94.6	14.9	28.1	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	6.5	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	5.6	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	0.0	0.0	0.0
14	0.0	16.2	0.0	2.4	0.0	0.3	14.2	31.1	0.0	3.6	0.0	0.0
15	9.5	1.9	0.0	0.0	0.0	3.5	0.0	43.6	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	21.2	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	45.3	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	8.5	0.0	0.0	0.0	0.0	0.0
19	0.0	2.9	0.0	0.0	0.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	15.0	0.0	0.0	0.2	0.0	0.0	0.0
	9.5	21.0	0.0	2.4	0.0	85.3	31.2	93.0	14.7	3.6	0.0	0.0
21	0.0	9.6	0.0	0.0	0.0	0.0	7.1	7.1	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	1.3	20.1	0.0	2.2	0.0	0.0	0.4
23	0.0	4.3	0.0	0.0	0.0	23.2	0.0	11.1	0.0	0.0	0.0	0.0
24	0.0	21.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	10.9	0.0	0.0	0.0	0.0	12.0	0.0	0.3	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	22.9	24.4	3.2	5.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	31.9	0.0	4.6	0.0	0.0	0.0	0.0
28	0.0	4.2	0.0	0.0	0.0	3.8	0.0	1.6	3.0	0.0	0.0	0.0
29	0.0		0.0	4.3	0.0	16.5	0.0	0.0	9.1	0.0	0.0	0.0
30	0.0		0.0	5.4	0.0	4.9	0.0	2.1	2.9	0.0	0.0	0.0
31	0.0		0.0		0.0		0.0	0.0		0.0	0.0	0.0
Sum	0.0	50.2	0.0	9.7	0.0	105.3	69.6	35.7	24.4	0.0	0.0	0.4
M. Sum	9.5	71.2	22.3	16.8	24.0	190.6	158.7	233.3	59.0	31.7		0.4
Mean												
Hig.	9.5	21.2	19.2	5.4	8.1	45.3	24.4	43.6	14.5	26.9		0.4
Date	15	24	2	30	7	17	26	15	9	1		22
Low												
Date												



NATIONAL METEOROLOGICAL SERVICES AGENCY

L.V.A

Station: HOMBOLE Wereda Awraja Region SHOA
Alt. Long. Lat. Element 20/24 Rain fall Year 1979

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	0.0	0.0	0.0	0.0	0.0	7.6	5.8	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	72.9	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.9	4.5	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	31.2	0.0	7.9	2.2	0.0	0.0	0.0	0.0
9	0.1	0.0	0.0	5.2	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0
10	1.1	0.0	0.0	1.9	0.0	0.0	16.3	4.3	0.0	0.0	0.0	0.0
	1.2	0.0	0.0	7.1	31.2	0.0	104.7	40.3	10.9	0.0	0.0	0.0
11	0.0	0.0	0.0	20.2	0.0	0.0	6.6	0.0	0.0	0.0	0.0	0.0
12	33.5	0.0	3.9	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	3.4	0.0	14.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	12.2	0.0	0.0	0.0	0.0	22.3	0.0	9.0	0.0	0.0	0.0	0.0
15	0.0	10.7	0.0	0.0	0.0	38.3	14.5	6.6	7.2	0.0	0.0	0.0
16	0.0	0.0	8.2	0.0	0.0	0.0	0.0	11.1	0.0	0.0	0.0	0.0
17	0.0	0.0	22.4	0.0	0.0	0.0	0.0	12.4	2.7	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	7.2	0.0	0.0	0.0
19	0.0	0.0	37.3	0.0	0.0	8.4	0.0	0.0	15.7	0.0	0.0	0.0
20	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	89.3	0.0	0.0
	49.1	10.7	87.4	20.2	3.5	69.0	21.1	46.0	32.8	89.3	0.0	0.0
21	0.0	0.0	0.0	0.0	33.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	40.6	0.0	35.8	5.4	5.4	0.0	0.0	0.0
23	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.3	0.0	0.0	0.0
24	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	7.7	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	8.7	0.0	6.5	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	0.0	0.0	0.0
28	42.5	0.0	0.0	0.0	0.0	8.1	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0.0	0.0	5.6	16.1	0.0	0.0	0.0
31	0.0		24.1		0.0		0.0	19.7		0.0		0.0
Sum	55.0	0.0	24.1	0.0	74.1	14.0	52.2	30.7	59.3	0.0	0.0	0.0
M. Sum	105.3	10.7	111.5	27.3	108.8	83.0	118.0	117.0	103.0	89.3		
Mean												
Htg.	42.5	10.7	37.3	20.2	40.6	38.3	72.9	25.9	19.3	89.3		
Date	28	15	19	11	22	15	2	6	23	20		
Low												
Date												

A.V.A.

TV class

NATIONAL METEOROLOGICAL SERVICES AGENCY

STATION: Hambale ELEMENT: Rain: Fall YEAR: 1980

SMOA

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.7	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	5.9	0.0	0.0	22.7	0.0	12.2	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	8.9	12.0	0.0	7.3	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.7	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	45.1	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0	0.0	0.0
7	0.0	0.0	8.1	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0	0.0
8	0.0	0.0	0.0	19.2	0.0	0.0	20.9	0.0	4.3	0.0	0.0	0.0
9	0.0	0.0	0.0	4.4	0.0	0.0	28.2	0.0	12.9	0.0	0.0	0.0
10	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
11	0.0	3.9	8.1	23.6	5.9	0.0	58.0	108.0	24.8	64.6	0.6	0.0
12	0.0	7.4	0.0	0.0	0.0	0.0	8.9	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	24.2	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0
21	0.0	7.4	0.0	0.5	0.0	3.6	33.7	38.5	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	8.4	15.9	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	8.1	0.0	6.8	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
25	7.6	0.0	0.0	0.0	0.0	0.0	0.9	7.8	9.8	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	2.1	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	7.8	13.8	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	38.4	11.9	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	1.3	14.7	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	15.3	0.0	23.3	15.9	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sum	7.6	0.0	0.0	0.0	16.6	12.1	59.8	43.3	11.9	0.0	0.0	0.0
A. Sum	7.6	11.3	8.1	24.1	22.5	75.7	150.9	189.8	36.7	64.6	0.6	0.0
Highest	7.6	7.4	8.1	19.2	15.3	38.4	28.2	45.7	12.9	45.1	0.6	0.0
Date	24	11	7	8	30	28	9	4	9	5	10	
Lowest												
Date												
Mean												

Copied by Name K. K. K. Sig. [Signature] 3-7-4

11.0.77

14 class

NATIONAL METEOROLOGICAL SERVICES AGENCY

STATION: HOMBOKE..... ELEMENT: Rain - Fall..... YEAR: 1981...

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	8.7	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0
3	0.0	0.0	8.2	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	5.5	0.0	0.0	0.0	2.8	5.1	17.1	0.0	0.0	0.0
5	0.0	0.0	0.0	0.3	0.0	0.0	0.0	34.6	0.0	5.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.9	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	72.4	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	13.8	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	13.7	0.3	0.0	0.0	93.1	53.1	33.6	5.0	0.0	0.0
11	0.0	14.5	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	49.9	0.0	35.0	0.0	0.0	0.0
12	0.0	0.0	4.2	0.9	0.0	0.0	2.9	40.9	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	6.1	41.4	37.8	0.0	0.0	0.0
14	0.0	0.0	0.0	31.9	0.0	0.0	8.6	5.9	0.0	0.0	0.0	0.0
15	0.0	4.3	41.7	0.0	0.0	0.0	40.2	23.4	15.9	0.0	0.0	0.0
16	0.0	0.0	0.0	20.0	26.4	0.0	27.0	0.0	21.5	0.0	0.0	0.0
17	0.0	0.0	4.7	0.0	0.0	0.0	14.5	0.0	15.8	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	8.1	4.5	17.6	0.0	0.0	0.0
19	0.0	0.0	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	18.8	62.1	52.8	26.4	0.0	161.8	116.7	143.6	0.0	0.0	0.0
21	0.0	0.0	0.0	8.6	0.0	0.0	38.7	5.7	25.9	0.0	0.0	0.0
22	0.0	0.0	59.8	2.7	0.0	0.0	17.2	5.4	0.0	0.0	0.0	0.0
23	0.0	0.0	11.3	1.1	0.0	0.0	12.5	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	14.5	6.1	0.0	0.0	24.5	4.5	14.1	0.0	0.0	0.0
25	0.0	0.0	2.0	0.0	0.0	0.0	18.3	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	27.2	0.0	0.0	0.0	0.0	6.2	0.0	0.0	0.0	0.0
27	0.0	0.0	59.0	0.0	0.0	0.0	0.0	12.2	0.0	0.0	0.0	0.0
28	0.0	0.0	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.9	37.5	3.7	0.0	0.0	0.0	0.0
30	0.0		23.0	0.0	2.3	0.0	0.0	44.5	0.0	0.0	0.0	0.0
31	0.0		0.5		0.0		0.0	8.5		0.0		0.0
Sum	0.0	0.0	164.7	18.5	2.3	0.9	148.7	90.7	40.0	6.0	0.0	0.0
N. Sum	0.0	18.8	240.5	71.6	28.7	0.9	403.0	259.7	217.2	5.0	0.0	0.0
Highest		14.5	41.7	31.9	26.4	0.9	49.9	41.5	37.8	5.0	0.0	0.0
Date		11	16	15	17	29	12	30	11	5		
Lowest												
Date												
Mean												

Copied by Name Z. T. A. Zengalesis 3-7-5 and.....

A.L.A. IV Class

NATIONAL METEOROLOGICAL SERVICES AGENCY

STATION: HOMBOLÉ ELEMENT: Rain - 20.11 YEAR: 1952

SHOA.

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.4	8.6	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	9.8	15.2	9.1	6.7	0.0	0.0
3	0.0	0.0	0.0	13.5	0.0	0.0	0.0	21.3	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	26.5	0.0	0.0
5	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	4.5	0.0	2.3	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	10.3	8.1	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0
8	0.0	0.0	0.0	0.0	52.3	0.0	0.0	28.4	0.0	0.0	0.3	0.0
9	0.0	0.0	0.0	0.0	21.2	23.8	0.0	0.0	0.0	0.0	11.4	0.0
10	0.0	0.0	0.0	0.0	17.5	0.0	0.0	11.7	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	18.0	41.0	23.8	9.8	100.2	38.4	45.0	14.0	0.0
12	0.0	0.0	0.0	14.5	0.0	5.3	0.0	46.4	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	3.7	23.9	0.0	0.0	0.0	0.0	0.0	11.3	0.0
14	0.0	8.4	0.0	0.0	23.1	0.0	0.0	0.0	0.0	6.1	0.0	0.0
15	6.8	13.7	0.0	4.6	15.0	0.0	5.3	0.0	0.0	4.8	0.0	0.0
16	0.0	3.6	0.0	0.0	4.8	0.0	10.6	0.0	0.0	0.0	0.0	3.6
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	14.1	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	6.3	0.0	19.2	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0
22	6.8	25.7	0.0	22.8	66.8	25.7	15.9	93.1	0.0	10.9	11.3	3.6
23	0.0	0.0	0.0	0.0	0.0	0.0	3.5	33.1	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	14.5	3.6	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	14.7	0.0	9.4	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.5	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	5.9	28.7	4.1	0.0	0.0	0.0
29	0.0	13.9	14.7	0.0	0.0	0.0	6.3	0.0	0.0	0.0	3.9	0.0
30	0.0	6.7	8.8	0.0	0.0	9.8	3.4	13.8	0.0	0.0	0.0	0.0
31	0.0	0.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	58.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	8.7	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0
Sum	0.0	20.7	96.9	0.0	0.0	9.8	48.3	112.8	13.5	0.0	3.9	0.0
4. Sum	6.8	46.3	96.9	40.8	157.8	59.3	74.0	306.1	57.9	56.9	29.2	3.6
Highest	6.8	13.9	58.5	14.5	52.3	23.8	14.7	33.1	10.3	26.5	11.4	3.6
Date	14	27	30	11	8	9	23	21	6	4	9	15
Lowest												
Date												
Year												

Copied by Name Xitile Meng Sig. [Signature] 3-7-6 Name..... Sig.....

A.V.A. 10 Class

NATIONAL METEOROLOGICAL SERVICES AGENCY

STATION: ... HOMBOLE ... ELEMENT: ... RAIN FALL ... YEAR: 1953

SHOA

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	0.0	0.0	4.3	0.0	0.0	8.3	6.5	18.6	0.0	0.0	0.0
2	0.0	0.0	0.0	20.5	0.0	0.0	0.0	8.4	54.3	0.0	0.0	0.0
3	0.0	0.0	0.0	11.9	0.0	4.3	53.1	7.3	26.1	0.0	0.0	0.0
4	0.0	0.0	0.0	2.7	0.0	0.0	6.7	26.1	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	11.9	50.9	8.4	0.0	0.0	0.0
6	0.0	0.0	0.0	56.8	0.0	8.1	0.0	7.0	3.9	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	11.5	0.0	18.2	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	24.5	0.0	0.0	0.0	3.7	0.0	0.0	11.9	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	24.5	0.0	96.2	0.0	34.5	20.0	12.9	125.5	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	20.1	41.6	2.4	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	15.5	28.3	6.6	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	6.4	9.9	57.9	0.0	0.0	0.0	0.0
15	0.0	0.0	11.4	0.0	0.0	9.2	0.0	17.4	0.0	0.0	0.0	0.0
16	0.0	0.0	3.7	7.3	0.0	11.8	0.0	10.0	0.0	0.0	0.0	0.0
17	0.0	7.3	0.0	9.4	51.7	10.9	0.0	32.8	0.0	0.0	0.0	0.0
18	0.0	9.4	0.0	10.2	39.3	1.8	0.0	16.5	9.8	7.8	0.0	0.0
19	0.0	3.7	0.0	0.0	0.0	8.9	6.8	0.0	3.7	21.6	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	25.3	18.0	16.7	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	6.7	36.7	19.8	0.0	0.0	0.0	0.0
22	0.0	20.4	15.1	26.9	91.0	81.0	107.0	291.0	32.5	29.4		
23	0.0	0.0	0.0	40.9	0.0	21.1	32.4	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	8.3	11.8	11.8	8.5	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	8.3	37.6	0.0	21.4	0.0	0.0	0.0	0.0
26	5.3	0.0	0.0	0.0	0.0	52.3	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	18.6	0.0	0.0	9.6	0.0	16.3	6.4	0.0	0.0	0.0
28	0.0	0.0	0.0	6.1	0.0	27.8	0.0	TR	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	25.8	4.5	11.9	26.1	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	31.1	14.8	4.2	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sum	5.3	0.0	39.9	55.3	83.7	184.1	47.0	13.8	6.4	0.0	0.0	0.0
1. Sum	5.3	44.9	55.0	128.4	174.7	300.0	234.0	429.2	152.0	29.4	0.0	0.0
Highest	5.3	24.5	18.6	56.8	51.7	52.3	53.1	57.9	54.3	21.6	0.0	0.0
Date	24	9	25	6	16	24	3	13	2	18		
Lowest												
Date												
Mean												

Copied by Name K. P. Mengesha 3-7-7



ETHIOPIAN METEOROLOGICAL SERVICE.

STATION: *Harar*

(S.H.O.A.)
YEAR: 1984

ELEMENT: Rainfall 24 hourly

Day	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	
1	0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	21.4	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	2.5	26.6	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.7	35.6	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	51.7	0.0	0.0	17.3	0.0	0.0		
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.9	25.7	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.3	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	22.6	27.4	0.0	8.6	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	38.3	16.9	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	14.9	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	14.8	26.3	23.5	0.0	2.7	0.0	0.0		
12	0.0	0.0	0.0	0.0	23.6	0.0	3.2	0.0	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	9.1	0.0	12.7	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	8.6	15.3	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	11.5	0.0	6.6	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	20.9	20.8	10.1	7.4	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	15.3	17.1	0.0	6.7	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.0	35.6	13.4	39.8	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.0	6.2	10.3	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	11.8	6.5	0.0	13.9	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	8.8	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	11.5	0.0	18.5	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	15.7	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	14.9	38.6	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	28.3	15.9	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	21.6	18.6	3.6	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	29.6	0.0	3.1	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.0	18.6	0.0	9.4	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	28.2	14.1	22.7	0.0	0.0	0.0		
32	0.0	0.0	0.0	0.0	0.0	13.0	11.1	3.3					
33	0.0	0.0	0.0	0.0	13.7	32.2	26.2	148.0	12.3	0.0	0.0		Total
34													Mean
35					22.9	51.2	39.8	33.9	35.6				Highest
36					0.0	0.0	0.0	0.0	0.0				Lowest
37													Date
38													Date
39													Number of



ETHIOPIAN METEOROLOGICAL SERVICE.

(S.H.O.A.)
1984

ELEMENT: Rainfall 24 hourly

DATE	VI	VII	VIII	IX	X	XI	XII	
01.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
02.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
03.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
04.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
05.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
06.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
07.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
08.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
09.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
32.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
36.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
38.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
39.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
41.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
42.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
43.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
46.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
47.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
48.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
49.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
51.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
52.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
53.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
54.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
56.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
57.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
58.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
59.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
61.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
62.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
64.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
65.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
66.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
67.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
68.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
69.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
71.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
72.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
73.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
74.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
75.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
76.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
78.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
79.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
81.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
82.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
83.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
84.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
85.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
86.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
87.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
88.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
89.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
91.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
92.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
93.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
94.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
96.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
97.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
98.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
99.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
								Total
								Mean
								Highest
								Date
								Lowest
								Date
								Number of

A.V.A



NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: HUMBOLE Wereda Awraja Region AA
 Alt. Long. Lat. Element Monthly Rainfall year 1985

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1						0.0	0.0	33.3		0.0	0.0	0.0
2						0.0	0.0	39.1		0.0	0.0	0.0
3						0.0	8.8	56.9		0.0	0.0	0.0
4						0.0	14.4	0.0		0.0	0.0	0.0
5						0.0	11.9	0.0		0.0	0.0	0.0
6						0.0	0.0	11.5		0.0	0.0	0.0
7						0.0	0.0	28.4		0.0	0.0	0.0
8						0.0	28.8	49.0		0.0	0.0	0.0
9						0.0	51.3	17.7		0.0	0.0	0.0
10						0.0	66.9	3.2		0.0	0.0	0.0
						0.0	187.1	239.1		0.0	0.0	0.0
11						0.0	9.1	0.0		0.0	0.0	0.0
12						0.0	16.8	0.0		0.0	0.0	0.0
13						0.0	0.0	0.0		0.0	0.0	0.0
14						9.6	0.0	0.0		0.0	0.0	0.0
15						1.7	0.0	12.6		0.0	0.0	0.0
16						0.0	3.5	19.1		0.0	0.0	0.0
17						0.0	18.2	11.9		0.0	0.0	0.0
18						11.3	72.9	3.8		0.0	0.0	0.0
19						5.8	61.6	2.0		0.0	0.0	0.0
20						20.3	48.4	0.0		0.0	0.0	0.0
						48.7	230.5	49.4		0.0	0.0	0.0
21						6.2	42.0	0.0		0.0	0.0	0.0
22						0.0	63.1	41.0		0.0	0.0	0.0
23						0.0	0.0	20.2		0.0	0.0	0.0
24						6.9	0.0	7.5		0.0	0.0	0.0
25						10.7	0.0	0.0		0.0	0.0	0.0
26						7.1	97.6	0.0		0.0	0.0	0.0
27						2.9	84.8	78.3		0.0	0.0	0.0
28						0.0	53.2	64.0		0.0	0.0	0.0
29						0.0	68.8	19.8		0.0	0.0	0.0
30						0.0	21.9	58.6		0.0	0.0	0.0
31							0.0	23.1		0.0		0.0
Sum						33.8	361.4	312.5		0.0	0.0	0.0
M. Sum						82.5	779.0	601.0				
Mean												
Hig.						20.3	84.8	78.3		0.0	0.0	0.0
Date						20	27	27		1	1	1
Low												
Date												



NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: HOMBOLE Wereda: Awraja: Region: SHOA
 Alt. Long: Lat. Element: Daily Rain fall Year: 1986

REF: ST. C. P. 11/1988 10/76

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	
1	0.0		6.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
2	0.0		0.0	0.0	0.0	2.2		0.0	2.5	0.3	0.0	0.0	
3	0.6		3.4	0.0	0.0	2.3		0.0	0.0	0.0	0.0	0.0	
4	5.5		0.0	1.5	0.0	0.0		6.6	0.0	0.0	0.0	0.0	
5	0.0		0.0	0.0	0.0	0.0		0.0	5.6	0.0	0.0	0.0	
6	0.0		0.0	0.9	0.0	0.0		0.0	1.0	0.0	0.0	0.0	
7	0.0		0.0	0.1	0.0	0.0		0.0	18.0	0.0	0.0	0.0	
8	0.0		0.0	0.6	0.0	0.0		44.0	2.0	0.0	0.0	0.0	
9	0.0		0.0	0.0	0.0	0.0		20.0	20.5	0.0	0.0	0.0	
10	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
	6.1		9.4	3.1	0.0	4.5		10.6	49.6	0.3	0.0	0.0	
11	0.0		0.0	10.3	0.0	0.3		7.7	0.0	0.0	0.0	0.0	
12	0.0		0.0	0.0	0.0	0.5		0.0	3.0	0.0	0.0	0.0	
13	0.0		0.0	0.0	0.0	9.0		0.0	5.0	0.0	0.0	0.0	
14	0.0		0.0	0.0	0.4	10.3		6.6	21.4	0.0	0.0	0.0	
15	0.0		0.0	0.0	0.2	0.0		0.0	0.0	0.0	0.0	0.0	
16	0.0		0.0	0.0	0.0	0.0		0.0	5.3	0.0	0.0	0.0	
17	0.0		0.0	0.0	20.6	0.0		4.5	0.0	0.0	0.0	0.0	
18	0.0		24.3	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
19	0.2		0.0	11.8	19.7	24.3		2.4	0.0	0.0	0.0	0.0	
20	0.0		5.5	0.3	0.2	5.5		0.0	0.0	0.0	0.0	0.0	
	0.2		29.8	82.4	41.1	49.9		20.2	34.7	0.0	0.0	0.0	
21	0.0		0.0	0.0	0.0	3.3		1.4	0.0	0.0	0.0	0.0	
22	0.0		0.0	9.5	0.0	0.0		4.5	0.0	0.0	0.0	0.0	
23	0.6		0.0	0.0	0.0	4.6		0.0	0.0	0.0	0.0	0.0	
24	0.0		0.0	0.0	0.0	0.0		2.3	0.0	0.0	0.0	0.0	
25	1.3		0.0	28.3	0.0	6.3		0.0	0.0	0.0	0.0	0.0	
26	25.5		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
27	20.5		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
28	1.8		0.0	0.0	0.0	56.5		4.3	0.0	0.0	0.0	0.0	
29	0.0		0.0	0.0	0.0	0.0		4.2	0.0	0.0	0.0	0.0	
30	0.0		0.0	0.0	0.0	16.6		6.2	0.0	0.0	0.0	0.0	
31	3.4		0.0		0.0			0.0		0.0		0.0	
Sum	53.1		0.0	37.8	0.0	87.3		22.9	0.0	0.0	0.0	0.0	
M. Sura	59.4		39.2	63.3	41.1	44.7		113.7	84.3	0.3	6.0	0.0	
Mean													
Hlg.	25.5		24.3	28.3	20.6	56.5		44.0	21.4	0.3			
Date	26		18	25	17	28		8	14	2.			
Low													
Date													

10/11



NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: ¹⁹⁹ H.O.M.BELE Wereda BORA Awraja H/BUTAGERA Region SHOA
 Alt. Long. Lat. Element DAILY RAINFALL Year 1987

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0
2	0.0	0.0	4.3	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0
3	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	32.5	0.0	0.0	0.0
5	0.0	0.0	0.0	3.2	0.0	0.0	0.0	35.5	0.0	0.0	0.0	0.0
6	0.0	0.0	45.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	22.8	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	15.9	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	10.0	0.0	0.0	12.4	2.3	0.0	0.0	0.0	0.0
10	0.0	0.0	16.3	0.0	0.0	0.0	22.4	3.2	0.0	0.0	0.0	0.0
	0.0	0.0	109.9	13.2	0.0	0.0	42.3	102.7	32.3	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	4.3	0.0	0.0	0.0	0.0	16.0	0.0	0.0	0.0	0.0
15	0.0	0.0	12.4	0.0	0.0	0.0	6.2	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	11.9	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	23.8	16.7	0.0	6.5	0.0	10.6	16.0	0.0	0.0	0.0	0.0
21	0.0	5.6	3.4	0.0	3.6	0.0	8.0	3.3	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	4.3	0.0	7.7	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	19.2	0.0	3.4	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	8.7	0.0	0.0	2.7	14.4	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	25.0	0.0	0.0	0.0	10.3	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	15.0	0.0	0.0	19.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	27.2	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		8.9		0.0	0.0		0.0		0.0
Sum	0.0	20.6	30.6	0.0	108.5	0.0	17.1	15.2	21.2	0.0	0.0	0.0
M. Sum		44.4	157.2	13.2	115.0		73.3	131.4	57.2			
Mean												
Hig.		15.0	45.6	10.0	25.0		22.4	35.5	32.5			
Date		27	6	9	25		10	5	4			
Low												
Dato												

4th class



NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: HOMBOLE Wereda BORA Awraja HYAKKI & BURU Region SINA
 Alt. 1720M Long. _____ Lat. _____ Element DAILY RAINFALL Year 1988

METRIC NUMBER 2025

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.3	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	9.5	0.0	1.7	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	4.4	7.2	13.7	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	12.5	15.2	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	7.6	0.0	15.9	7.6	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	6.5	0.0	0.0	0.0	0.0	0.0	
	00	00	00	00	00	12.0	43.1	91.8	18.0	00	00	00	
11	0.0	0.0	0.0	0.0	0.0	0.0	24.7	0.0	21.8	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	1.8	6.2	13.2	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	3.3	5.0	0.0	12.1	0.0	0.0	0.0	
14	0.0	12.0	0.0	0.0	0.0	0.0	3.8	36.5	0.0	0.0	0.0	0.0	
15	0.0	3.6	0.0	0.0	0.0	0.0	5.4	0.0	17.3	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	2.6	4.2	0.0	8.4	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	2.9	0.0	3.0	7.3	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	1.3	34.0	5.5	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	2.9	2.8	0.0	0.0	0.0	0.0	0.0	
	00	15.6	00	00	00	15.0	84.9	51.2	80.1	00	00	00	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	9.7	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	6.5	13.4	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	12.4	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	17.0	0.0	0.0	0.0	0.0	0.0	
Sum	00	00	00	00	00	11.4	54.6	65.3	56.4	00	00	00	
M. Sum	00	15.6	00	00	00	38.4	183.1	211.5	155.9	00	00	00	
Mean													
Hig.		12.0				7.6	34.0	53.0	45.0				
Date		4				9	19	27	21				
Low													
Date													

4th class.



NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: HOMBOLE Wereda BORA Awraja HAKOCHI ¹ BORANA Region SIOA
 Alt. 1820M Long. _____ Lat. _____ Element DAILY RAIN FALL Year 1989

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0-0				0-0		0-0	0-0	0-0	0-0	0-0	0-0
2	0-0				0-0		0-0	0-0	0-0	0-0	0-0	0-0
3	0-0				0-0		0-0	4-3	0-0	0-0	0-0	0-0
4	0-0				0-0		0-0	0-0	0-0	0-0	0-0	0-0
5	0-0				0-0		23-4	0-0	9-3	0-0	0-0	0-0
6	0-0				0-0		0-0	0-0	0-0	0-0	0-0	0-0
7	0-0				0-0		4-2	0-0	0-0	0-0	0-0	0-0
8	0-0				0-0		0-0	0-0	0-0	0-0	0-0	0-0
9	0-0				0-0		39-5	2-4	16-6	0-0	0-0	3-4
10	0-0				0-0		0-0	6-0	3-4	0-0	0-0	0-0
	0-0				0-0		67-1	12-2	29-3	0-0	0-0	3-4
11	0-0				0-0		5-8	0-0	0-0	0-0	0-0	0-0
12	0-0				0-0		12-7	0-0	0-0	0-0	0-0	0-0
13	0-0				0-0		0-0	15-6	0-0	0-0	0-0	0-0
14	0-0				0-0		16-6	20-6	12-4	0-0	0-0	0-0
15	0-0				0-0		20-2	0-0	19-6	0-0	0-0	0-0
16	0-0				0-0		0-0	0-0	0-0	0-0	0-0	0-0
17	0-0				0-0		0-0	3-4	0-0	0-0	0-0	0-0
18	0-0				0-0		0-0	20-5	1-5	0-0	0-0	0-0
19	0-0				0-0		2-5	40-0	0-0	12-4	0-0	0-0
20	0-0				0-0		21-3	0-0	0-0	0-0	0-0	0-0
	0-0				0-0		79-1	10-1	33-5	12-4	0-0	0-0
21	0-0				0-0		0-0	4-3	0-0	0-0	0-0	0-0
22	0-0				0-0		0-0	9-0	0-0	0-0	0-0	1-0
23	0-0				0-0		0-0	30-4	0-0	0-0	0-0	0-0
24	0-0				0-0		0-0	2-4	0-0	0-0	0-0	0-0
25	0-0				0-0		3-2	0-0	2-0	0-0	0-0	0-0
26	0-0				0-0		0-0	0-0	0-0	0-0	0-0	0-0
27	0-0				0-0		0-0	10-4	14-0	0-0	0-0	0-0
28	0-0				0-0		15-5	0-0	9-0	0-0	0-0	0-0
29	0-0				0-0		0-0	18-5	2-0	0-0	0-0	0-0
30	0-0				0-0		0-0	20-4	0-0	0-0	0-0	0-0
31	0-0				0-0		0-0	6-2		0-0		0-0
Sum	0-0				0-0		18-7	10-6	27-0	0-0	0-0	1-0
M. Sum	0-0				0-0		164-9	214-4	89-8	12-4	0-0	1-0
Mean												
Hig.							39-5	40-0	19-6	12-4		3-4
Date							9	19	15	9		9
Low												
Date												



435

NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: Hombole Wereda: _____ Awraja: Cama Region: Alaa
 Alt: 1620 Long: 39.46 Lat: 8.22 Element: Daily Rainfall Year: 1990

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	0.0	0.0	0.0					2.0	0.0		
2	0.0	0.0	0.0	0.0					6.3	0.0		
3	0.0	0.0	0.0	22.0					0.0	0.0		
4	0.0	4.2	31.0	6.0					0.0	0.0		
5	0.0	0.0	0.0	12.2					3.0	0.0		
6	0.0	15.2	0.0	6.1					3.4	0.0		
7	0.0	4.4	4.0	16.2					2.0	0.0		
8	0.0	4.5	0.0	0.0					14.5	0.0		
9	0.0	0.0	0.0	0.0					0.0	0.0		
10	0.0	39.2	0.0	0.0					0.0	0.0		
	0.0	67.5	35.0	62.5					39.0	6.0		
11	0.0	0.0	0.0	0.0					5.2	0.0		
12	0.0	0.0	0.0	0.0					0.0	0.0		
13	0.0	0.0	0.0	0.0					0.0	0.0		
14	0.0	18.4	0.0	0.0					0.0	0.0		
15	0.0	1.7	0.0	2.0					2.0	0.0		
16	0.0	6.8	0.0	0.0					2.5	0.0		
17	0.0	0.0	0.0	0.0					20.6	0.0		
18	0.0	0.0	0.0	0.0					0.0	0.0		
19	0.0	0.0	0.0	0.0					6.7	12.4		
20	0.0	0.0	0.0	0.0					2.0	0.0		
	0.0	26.6	0.0	0.0					31.0	12.4		
21	0.0	0.0	0.0	0.0					0.0	0.0		
22	0.0	0.0	0.0	0.0					0.0	0.0		
23	0.0	11.5	0.0	4.2					0.0	0.0		
24	0.0	32.8	0.0	0.0					0.0	0.0		
25	0.0	31.5	0.0	0.0					0.0	0.0		
26	0.0	0.0	0.0	1.2					13.0	0.0		
27	0.0	3.4	0.0	0.0					0.0	0.0		
28	0.0	30.2	0.0	12.4					5.5	0.0		
29	0.0		0.0	0.0					3.5	0.0		
30	0.0		34.2	2.0					0.0	0.0		
31	0.0		0.0							0.0		
Sum	0.0	109.4	34.6	17.8					22.6	6.0		
M. Sum	0.0	203.5	69.2	80.3					58.2	12.4		
Mean												
Hig.		39.2	34.2	22.0					20.6	12.4		
Low		10	30	3					17	12		
Date												



NATIONAL METEOROLOGICAL SERVICES AGENCY

4th

Station: Hombole Wereda Awraja Limu Bora Region SHOA
 Alt. 1220m Long. Lat. Element Daily Rainfall Year 1991

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	0.0	0.0	14.7	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	34.6	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	22.4	5.3	8.5	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	45.3	0.0	0.0	0.0	7.5	0.0	3.6	4.5	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.6	14.5	4.4	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	3.3	13.4	0.0	0.0	0.0	41.8	22.6	0.0	0.0	0.0	0.0
9	0.0	7.4	20.7	0.0	0.0	0.0	15.8	0.0	14.4	0.0	0.0	0.0
10	0.0	0.0	66.4	0.0	0.0	0.0	0.0	51.0	0.0	0.0	0.0	0.0
	0.0	10.7	145.8	14.7	0.0	0.0	129.9	98.5	11.3	8.9	0.0	0.0
11	0.0	26.3	0.0	0.0	0.0	0.0	0.0	55.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	15.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	11.5	0.0	0.0	9.2	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.5	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	25.8	0.4	0.0	0.0	0.0	0.0
17	0.0	3.8	0.0	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	8.4	0.0	1.8	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	0.0	0.0	0.0	16.2
	0.0	30.1	0.0	0.0	0.0	14.0	44.5	91.7	22.6	0.0	0.0	36.2
21	0.0	0.0	0.0	0.0	2.0	4.3	4.3	29.5	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	20.5	30.0	0.0	0.0	0.0	0.0
23	0.0	5.0	0.0	0.0	2.4	0.0	0.0	14.1	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	28.3	36.1	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	23.0	9.9	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	8.4	4.3	41.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.0	50.1		0.0		0.0
Suro	0.0	5.0	0.0	0.0	4.4	66.9	75.3	166.2	0.0	0.0	0.0	0.0
M. Sum	0.0	45.8	145.8	14.7	4.4	80.9	249.5	358.4	68.4	8.9	0.0	16.2
Mean												
Hig.		26.3	66.4	14.7	2.4	28.3	41.8	55.0	15.0	4.5		16.2
Date		11	10	1	23	26	8	11	12	5		20
Low												
Date												

Final class



NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: HOMBOLE Wereda: Awraja Region: S110A
 Alt. 1820 M. Long. Lat. Element DAILY RAINFALL Year 1992

ATLANTIC POWER 21079

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	00	12.0	00	00	00	00	00	10.2		00	00	00
2	00	00	00	20.0	4.5	00	00	00		00	00	00
3	00	00	00	00	00	00	00	15.5		00	00	00
4	00	00	00	00	00	00	00	43.5		00	00	00
5	00	00	00	00	00	00	26.3	2.5		00	00	00
6	00	00	00	00	00	2.0	4.5	0.0		00	00	00
7	00	00	00	00	00	4.3	00	25.4		35.2	00	00
8	00	12.0	00	00	00	00	6.5	35.9		00	00	00
9	00	43.0	00	00	00	00	00	14.3		00	00	00
10	00	14.5	00	00	00	00	3.5	0.0		19.0	00	00
	0.0	81.5	00	20.0	4.5	6.3	40.8	177.3		52.2	00	00
11	00	00	00	00	00	00	4.5	00		00	00	00
12	00	00	00	00	00	00	11.5	00		00	00	00
13	00	00	00	00	00	8.0	9.0	5.0		00	00	00
14	00	00	00	00	00	00	8.3	26.0		00	00	00
15	00	00	00	00	00	00	00	00		00	00	00
16	00	00	00	00	00	00	24.5	00		00	00	00
17	00	00	00	00	00	00	00	26.0		00	00	00
18	00	00	00	00	00	00	00	43.6		00	00	00
19	00	00	00	2.0	00	00	00	00		00	00	00
20	00	00	00	00	00	00	22.3	4.1		00	00	00
	0.0	0.0	00	2.0	00	6.0	60.1	109.7		00	00	00
21	00	00	00	21.4	00	00	00	17.0		00	00	00
22	00	00	00	00	00	14.3	45.8	00		00	00	00
23	00	00	00	00	00	00	30.0	00		00	00	00
24	00	14.5	00	15.8	00	00	18.3	5.8		00	00	00
25	00	00	00	00	34.0	00	00	00		00	00	00
26	00	00	00	00	00	8.3	5.3	00		00	00	00
27	5.0	00	00	00	00	00	5.3	4.3		00	00	00
28	00	00	00	00	00	45.5	00	3.3		00	00	00
29	12.8	00	3.5	00	00	9.3	5.2	00		00	00	00
30	00		00	00	00	00	00	00		00	00	00
31	00		00		00		00	00		00		00
Sum	17.8	145	3.5	43.2	34.0	77.4	109.9	30.4		00	00	00
M. Sum	17.8	96.0	3.5	65.2	38.5	91.7	230.8	32.4		54.2	00	00
Mean												
Hig.	12.8	13.0	3.5	27.4	34.0	45.5	45.8	14.3		35.2		
Date	29	9	29	21	25	28	22	9		7		
Low												
Date												

Copied by: Name Kesede dulla sig. [Signature] 3-7-16 Sig.

4th class



NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: HOMBOLÉ Wereda Awraja Region S.H.O.A
 Alt. Long. Lat. Element DAILY KARENPAAL Year 1993

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	00	00	00	00								
2	00	00	00	00								
3	00	00	00	00								
4	00	00	00	5.3								
5	00	6.1	00	00								
6	00	00	00	00								
7	00	00	00	00								
8	00	12.6	00	00								
9	00	00	00	00								
10	00	32.2	00	00								
	00	50.9	00	5.3								
11	00	21.4	00	00								
12	00	00	00	00								
13	00	00	00	00								
14	00	00	00	00								
15	00	00	00	00								
16	00	00	00	00								
17	00	00	00	00								
18	00	00	00	00								
19	00	00	00	00								
20	00	00	00	X								
	00	21.4	00	(0.0)								
21	00	00	00	X								
22	00	00	00	00								
23	00	00	00	00								
24	0.9	00	00	00								
25	1.7	00	00	00								
26	00	00	00	X								
27	00	00	00	00								
28	00	00	00	X								
29	00		00	00								
30	00		00	X								
31	X		00									
Sum	2.6	00	00	(00)								
M. Sum	2.6	72.3	00	(5.3)								
Mean												
Hig.	1.7	32.2		(5.3)								
Date	25	10		4								
Low												
Date												



NATIONAL METEOROLOGICAL SERVICES AGENCY 1/16

Station: HOMBOLE Wereda Awraja Region SHOA

Alt. Long. Lat. Element DAISY R. FALL Year 1997

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1							11.3	0.0				
2							0.3	1.9				
3							0.0	15.3				
4							1.0	0.4				
5							21.6	1.3				
6							0.0	0.0				
7							0.0	0.0				
8							16.8	0.0				
9							0.4	0.2				
10							0.0	0.0				
11							51.1	19.1				
12							11.5	0.0				
13							13.1	0.0				
14							0.0	0.5				
15							0.4	1.5				
16							1.3	0.0				
17							9.9	8.0				
18							0.0	0.0				
19							7.8	0.0				
20							1.8	0.0				
21							5.4	0.0				
22							51.2	10.0				
23							0.0	0.0				
24							0.0	0.0				
25							14.6	8.2				
26							1.0	1.7				
27							3.0	0.6				
28							0.5	0.3				
29							7.9	0.4				
30							0.0	0.0				
31							0.0	0.0				
Sum							27.0	25.0	15.8			
M. Sum								127.6	47.9			
Mean												
Hig.							14.6	21.6	15.3			
Date							23	5	3			
Low												
Date												

A.V.A

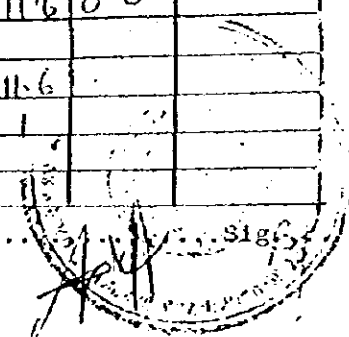
NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: Kolla Dam (Shad) Element: D.A.F.Y. R.A.F.V. P.A.A.H Year: 1977.

Date,	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	0.0	0.0	0.0	0.0	0.0	6.0	5.9	0.0	0.9	11.6	0.0
2	0.0	0.0	0.0	0.0	9.5	0.0	0.0	4.2	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	15.3	6.4	0.0	5.9	7.2	0.0	3.8	0.0	0.0
4	0.0	0.0	0.0	0.2	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	5.4	11.3	0.0	0.0	4.1	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	20.7	28.1	7.2	15.4	23.8	0.0	4.7	11.6	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	2.7	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0
14	4.8	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	3.2	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.7	0.0	0.0	0.0	0.0
	2.1	0.0	0.0	0.0	0.0	0.0	6.0	12.4	9.0	2.7	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	0.0	0.0
24	0.0	0.0	0.0	0.0	4.6	0.0	19.7	3.0	0.0	13.5	0.0	0.0
25	3.8	0.0	0.0	0.0	0.0	0.9	0.0	0.0	4.0	0.0	0.0	0.0
26	0.0	0.0	0.0	12.7	0.0	0.0	4.0	0.0	0.0	3.5	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	15.6	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	1.8	0.0	0.0	21.5	0.0	0.0
30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		10.1		0.0		0.0	9.1		10.0		0.0
Sum	3.8	0.0	10.1	12.7	9.2	16.5	25.5	21.1	4.0	55.1	0.0	0.0
M.Sum	15.9	0.0	10.1	33.4	37.3	23.7	46.9	57.3	13.0	62.5	11.6	0.0
Mean												
Hig.	6.5		10.1	15.3	11.3	15.6	19.7	10.7	5.8	21.5	11.6	
Date	18		31	3	6	27	24	20	18	29	1	
Low.												
Date												

Copied by: Name Shitaye T.M. Sig: [Signature] 3-8-1 Name .. [Signature] Sig: [Signature]

/tw.



A.U.A

NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: Koko Dam (Shoa) Element: DAILY..RAIN..FAH.. Year: 1978..

Date,	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	11.4	4.9	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	4.0	0.0	0.0	0.0	4.5	5.2	2.2	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	1.2	4.8	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	5.0	2.1	0.0	9.4	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	8.8	0.0	11.0	2.1	17.1	24.9	15.6	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	4.4	30.2	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.6	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	7.6	0.0	1.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.6	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	7.6	9.9	56.8	6.6	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	11.3	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	6.3	0.0	1.3	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	15.4	18.5	0.0	0.0	0.0	0.0	0.0
28	0.0	12.5	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.0	6.0		0.0		0.0
Sum	0.0	35.0	0.0	0.0	0.0	32.2	24.7	41.7	6.3	0.0	0.0	0.0
M.Sum	0.0	35.0	0.0	0.0	11.0	41.9	54.7	86.4	28.5	0.0	0.0	0.0
Mean												
Hig.		12.5	4.8		6.0	15.4	18.5	30.2	8.2			
Date		28	4		3	27	27	14	5			
Low.												
Date												

Copied by: Name Shitoye, T.H. Sig: ... 3-8-2 Name Sig: 3/

/tw.

NATIONAL METEOROLOGICAL SERVICES AGENCY

Station *Koka Dam. (SK00)* Element: *Daily. Rain. fall...* Year: *1979.*

Date,	I,	II,	III,	IV,	V,	VI,	VII,	VIII,	IX,	X,	XI,	XII
1	0.0	0.0	0.0	0.0	0.0	0.0	13.0	1.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	3.4	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	0.0	0.0
7	0.0	0.0	0.0	1.5	14.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	2.5	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	1.5	16.6	0.6	16.4	1.0	21.3	0.0	0.0	0.0
11	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	5.2	0.0	0.0	0.0	0.0	0.0	17.4	8.5	0.0	0.0	0.0
14	2.6	0.0	0.0	0.0	0.0	7.8	10.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	3.1	0.0	0.0	18.0	0.0	1.1	0.0	0.0	0.0	0.0
16	0.0	0.0	0.4	0.0	0.0	0.0	0.0	7.5	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	2.3	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	15.0	0.0	1.1	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	14.0	0.0	0.0	0.0	1.0	0.0	10.3
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.1	0.0	0.0
	2.6	5.2	20.9	0.0	0.0	54.8	10.0	27.1	13.7	4.4	0.0	10.3
21	0.0	0.0	0.0	0.0	0.0	3.0	4.2	1.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	11.5	0.0	0.0	2.1	4.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
24	12.8	0.0	0.0	0.0	0.0	0.0	5.2	7.0	2.0	0.0	0.0	0.0
25	0.1	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.9	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0
29	14.2		11.3	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0
30	1.3		0.0	0.0	1.5	0.0	6.0	6.5	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		5.0	0.0		0.0		0.0
Sum	29.3	0.0	1.3	0.0	13.0	3.0	27.4	17.7	7.1	0.0	0.0	0.0
M. Sum	31.9	5.2	22.2	1.5	29.6	56.4	53.8	45.8	42.1	4.4	0.0	10.3
Mean												
Hig.	14.2	5.2	11.9	1.5	14.6	18.0	13.2	17.4	9.2	2.3		10.3
Date	29	13	12	7	7	15	1	13	5	17		19
Low.												
Date												

Copied by: Name *Yeshiwork Kallsig: Yefi.* 3-8-3 Name Sig *Yefi*
 /tw.

A. V. H

NATIONAL METEOROLOGICAL SERVICES AGENCY

Station KAKA DAM (SMA) Element: Daily Rainfall.... Year: 1980.

Date,	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	1.0	0.0	0.0	12.2	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	10.0	0.0	2.4	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	0.0	5.8	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	3.8	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0
7	0.0	0.0	1.5	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	8.5	0.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	1.8	0.0	0.0	19.8	3.2	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	1.5	10.9	1.0	15.5	25.3	15.7	0.0	9.6	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.3	0.0	5.8	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	2.8	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	2.4	0.0	0.0	0.0	15.0	0.0	3.4	0.0	0.0
15	0.0	0.0	0.0	6.2	0.0	0.0	0.0	9.6	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	6.4	3.9	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	3.6	0.0	0.0	8.7	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	4.6	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	16.8	0.0	2.0	19.4	30.8	0.0	9.2	2.8	0.0
21	0.0	0.0	0.0	0.0	0.0	1.2	6.2	12.8	2.8	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	2.2	0.0	6.5	0.0	0.0	0.0	0.0
24	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.3	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	7.9	5.6	0.0	0.0	0.0	0.0
27	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	3.6	0.0	0.4	6.0	0.0	11.8	3.5	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.6	0.2	0.0	1.4	0.0	0.0	0.0	0.0
30	0.0		0.0	2.8	8.5	8.5	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		2.4	2.5	0.0	0.0		0.0		0.0
Sum	25.9	0.0	0.4	2.8	8.7	23.9	20.8	26.3	2.8	0.0	0.0	0.0
M. Sum	25.9	0.0	1.9	30.5	9.7	41.4	65.5	102.8	2.8	18.8	2.8	0.0
Mean												
Hig.	22.0		1.5	8.5	6.3	11.8	19.8	18.0	2.8	5.8	2.8	
Date	24		7	8	30	28	9	4	21	4	12	
Low.												
Date												

Copied by: Name Yeshiwo T. Kassa Sig: Y.T. 3-8-4 Name Sig:

/tw:

N.V.A



NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: KOKADAM Wereda: Awraja: Region: SHOA
 Alt.: Long: Lat.: Element: Monthly Rainfall Year: 1981

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	0.0	0.0	2.3	0.0	0.0		0.0	2.7	0.0	0.0	0.0
2	0.0	0.0	0.0	4.8	0.0	0.0		0.0	0.4	0.0	0.0	0.0
3	0.0	0.0	0.1	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.2	0.0	0.0	0.0		0.0	0.1	0.0	0.0	0.0
5	0.0	0.0	0.0	4.3	0.0	0.0		0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	J	0.0	0.0	2.9	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0		0.0	15.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.1	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	L	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.3	11.4	0.0	0.0		0.0	13.3	2.9	0.0	0.0
11	0.0	12.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	J	0.0	2.7	0.0	0.0	0.0
13	0.0	0.0	6.4	9.7	0.0	0.0	J	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0		0.0	15.0	0.0	0.0	0.0
15	0.0	0.0	1.0	0.0	0.0	0.0		0.0	5.8	0.0	0.0	0.0
16	0.0	18.0	0.0	3.5	0.0	0.0	J	0.0	21.7	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	J	0.0	6.6	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	J	0.0	5.6	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	L	3.8	3.7	0.0	0.0	0.0
20	0.0	0.0	0.1	2.5	0.0	0.0		0.0	0.0	0.0	0.0	0.0
	0.0	30.0	7.5	15.7	0.0	0.0		3.8	51.1	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	J	11.2	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	J	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.5	0.0	0.0	0.0	J	0.0	2.5	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	J	11.6	0.0	0.0	0.0	0.0
25	0.0	0.0	4.0	0.0	0.0	0.0	J	3.6	9.2	0.0	0.0	0.0
26	0.0	0.0	1.3	0.0	0.0	0.0		1.3	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0		4.3	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	J	0.3	0.0	0.0	0.0	0.0
29	0.0		0.8	0.0	0.0	0.0	J	2.1	0.0	0.0	0.0	0.0
30	0.0		2.8	0.0	0.0	0.0	J	10.8	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0	0.0	J	8.5		0.0		
Sum	0.0	0.0	9.4	0.0	0.0	0.0		45.7	11.7	0.0	0.0	0.0
M. Sum		30.0	17.2	32.1				50.5	40.1	2.1		
Mean												
Hig.		18.0	6.4	9.7				11.2	15.0	2.9		
Date		16	13	13				21	7	6		
Low												
Date												

A.V.N



NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: KOKADAM Wereda: _____ Awraja: _____ Region: SHSA
 Alt: _____ Long: _____ Lat: _____ Element: Wet. Fall Year 1982

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0-0	0-0	0-0	4.4	0.0	2.3	0.0	X	4.2	0.0	0.0	0.0
2	0-0	0-0	0-0	0-0	0-0	0-0	0-0	X	2.0	0-0	0-0	0-0
3	0-0	0-0	0-0	0-0	0-0	0-0	0-0	X	4.6	0-0	0-0	0-0
4	0-0	0-0	0-0	0-0	0-0	0-0	0-0	X	4.0	4.3	0-0	6.3
5	0-0	0-0	0-0	0-0	0-0	0-0	6.4	Y	5.3	5.3	0-0	10.0
6	0-0	0-0	0-0	4.5	0-0	0-0	1.5	X	2.3	10.4	10.3	3.4
7	0-0	0-0	0-0	0-0	0-0	0-0	0-0	Y	3.2	4.2	0-0	4.4
8	0-0	0-0	0-0	0-0	19.5	0-0	0-0	X	4.0	0-0	0-0	3.0
9	0-0	0-0	0-0	0-0	4.6	0-0	0-0	X	2.3	7.3	0-0	4.3
10	0-0	0-0	0-0	0-0	4.6	0-0	0-0	X	0-0	6.0	0-0	3.0
	0-0	0-0	0-0	8.9	28.7	2.3	1.7		21.0	21.5	10.0	24.0
11	0-0	0-0	0-0	0-0	1.6	0-0	2.1	Y	0-0	0-0	0-0	2.0
12	0-0	4.3	0-0	0-0	5.8	0-0	0-0	Y	0-0	3.3	0-0	2.0
13	0-0	0-0	0-0	1.5	15.0	0-0	0-0	Y	2.0	0-0	0-0	4.0
14	1.4	0-0	0-0	0-0	1.6	0-0	0-0	Y	3.0	0-0	0-0	0-0
15	7.0	0-0	0-0	0-0	3.6	3.1	0-0	Y	2.0	0-0	0-0	0-0
16	0-0	1.2	0-0	0-0	2.3	0-0	0-0	Y	2.3	5.3	0-0	0-0
17	3.2	2.2	0-0	0-0	2.0	0-0	2.3	Y	0-0	0-0	3.3	2.0
18	0-0	0-0	0-0	2.4	4.0	2.3	0-0	Y	0-0	0-0	2.0	2.0
19	4.0	0-0	0-0	0-0	3.2	0-0	0-0	Y	0-0	0-0	0-0	2.0
20	0-0	0-0	0-0	0-0	2.3	0-0	0-0	X	0-0	0-0	0-0	0-0
	15.6	7.7	0-0	3.9	41.4	4.4	4.4		4.3	5.5	2.3	7.0
21	0-0	0-0	0-0	1.4	0-0	0-0	0-0	X	0-0	0-0	0-0	0-0
22	0-0	0-0	0-0	0-0	0-0	0-0	0-0	X	0-0	0-0	0-0	0-0
23	0-0	0-0	0-0	0-0	0-0	0-0	6.3	X	0-0	0-0	0-0	0-0
24	0-0	0-0	0-0	0-0	0-0	0-0	8.3	X	0-0	0-0	0-0	0-0
25	0-0	0-0	0-0	0-0	0-0	0-0	X	4.3	0-0	0-0	0-0	0-0
26	0-0	0-0	0-0	0-0	0-0	0-0	X	0-0	0-0	0-0	0-0	0-0
27	0-0	2.2	4.3	0-0	0-0	0-0	X	0-0	0-0	0-0	0-0	0-0
28	0-0	0-0	0-0	0-0	0-0	0-0	X	4.0	0-0	0-0	0-0	0-0
29	0-0		6.0	0-0	0-0	3.3	X	2.3	0-0	0-0	0-0	0-0
30	0-0		0-0	0-0	0-0	4.3	X	0-0	0-0	0-0	0-0	0-0
31	0-0		0-0	0-0	0-0	0-0	X	0-0	0-0	0-0	0-0	0-0
Sum	0-0	2.2	10.3	4.4	0-0	7.2	14.6	10.6	6.0	0-0	0-0	0-0
M. Sum	15.6	9.9	10.3	17.2	70.1	13.9	26.9	16.1	41.1	46.0	12.6	44.0
Mean												
Hfg.	7.0	4.3	6.0	4.5	14.5	4.1	8.3	4.3	5.3	10.4	10.3	10.0
Date	15	12	29	6	8	30	24	25	5	6	6	5
Low												
Date												



A.V.A

NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: KOKA DAM Wereda: _____ Awraja: _____ Region: W.A.B.
 Alt.: _____ Long.: _____ Lat.: _____ Element: Evaporation Pan Year: 1983

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	0.0	0.0	0.0		0.0	7.6	3.0	6.0	0.0	0.0	
2	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	14.3	J	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	14.2	0.0	2.3		0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	f	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0		0.0	0.0	0.0	3.1	4.0	0.0	
9	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0		0.0	0.0	3.6	0.0	0.0	0.0	
	0.0	14.2	0.0	16.6		0.0	7.6	13.2	17.0	4.0	0.0	0.0
11	0.0	0.0	0.0	1.3	J	0.0	0.0	3.5	0.0	0.0	0.0	0.0
12	0.0	15.4	2.2	15.0	J	0.0	0.0	23.4	15.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	J	0.0	0.0	4.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	J	0.0	0.0	0.0	0.0	3.0	0.0	0.0
19	0.0	0.0	0.0	1.4		0.0	0.0	0.0	2.3	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0		0.0	0.0	10.0	0.0	0.0	0.0	0.0
	0.0	15.4	2.2	17.2		0.0	0.0	41.2	13.3	13.1	0.0	0.0
21	0.0	0.0	0.0	8.3		0.0	0.0	5.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	6.0		0.0	0.0	7.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	4.4	J	0.0	2.3	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	J	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0		0.0	3.0	34.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	J	0.0	2.0	12.0	0.0	0.0	0.0	1.0
29	0.0		0.0	0.0	J	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0		0.0	10.0	22.0	0.0	0.0	0.0	0.0
31	0.0		0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sum	0.0	0.0	0.0	18.7		0.0	17.5	20.0	0.0	0.0	0.0	4.0
M. Sum		29.6	2.2	53.0			25.1	134.4	90.3	12.1		1.0
Mean												
Hig.		15.4	2.2	15.0			10.3	34.0	23.0	2.3		3.0
Date		12	12	12			30	26	26	15		24
Low												
Date												



NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: koka-dam Wereda Awraja Region Sh. O.R.
 Alt. 1592 mts Long. 39° 07' Lat. 08° 23' Element Daily Rain for Year 1987

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TR	3.2	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	12.2	2.7	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	TR	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	TR	13.6	2.7	13.6	4.5	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	1.6	0.0	4.6	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	TR	0.0	2.3	0.0	0.0	0.0	2.0	0.0	0.0	0.0
17	0.0	0.0	TR	0.0	0.0	TR	TR	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	TR	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	2.0	0.0	12.1	5.2	9.6	8.0	6.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	15.0	8.4	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	2.2	TR	14.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		14.0		3.2	0.0		0.0		0.0
Sum	0.0	0.0	0.0	0.0	24.5	2.4	18.4	8.4	0.0	0.0	0.0	0.0
M. Sum			2.0		36.6	21.2	61.2	34.4	13.5			
Mean												
High			2.0		14.0	13.2	15.0	18.0	4.3			
Date			15		31	5	21	3	16			
Low												
Date												



NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: KOKA DAM Wereda Awraja Region SICR
 Alt. 1592m Long. 39°07' Lat. 08°23' Element PAIV R.F Year 1985

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.2	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	13.9	9.4	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	9.6	4.1	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	9.2	0.0	0.0	9.3	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	35.4	0.0	4.3	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	29.2	0.0	2.7	11.2	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	TR	11.3	0.0	1.5	10.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	TR	0.0	0.0	4.6	4.5	3.2	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	15.4	87.1	0.0	36.1	68.5	37	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	6.1	7.4	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	11.6	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	14.3	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	1.4	2.4	0.0	3.2	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	23.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TR	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	0.0	0.0	0.0	0.0
		0.0	0.0	3.7	2.4	0.0	43.9	35.9	21.5	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	6.4	15.0	2.3	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	11.3	2.4	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0.0	14.3	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0	0.0	0.0	0.0		0.0		0.0
Sum		0.0	0.0	0.0	0.0	0.0	47.0	24.8	2.3	0.0	0.0	0.0
M. Sum				19.1	89.5		127.0	129.2	26.0			
Mcon												
Hig.			15.4	15.4	35.4		23.0	15.2	14.3			
Date			5	5	6		16	7	13			
Low												
Date												



NATIONAL METEOROLOGICAL SERVICES AGENCY

250

Station: KOKA DAM Wereda AAAMA Awraja Region SNDA
 Alt. Long. Lat. Element RAIN FALL Year 1986

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	8.5	4.3	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	TR	0.0	0.0	0.0	2.3	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	15.0	4.2	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	8.5	7.5	3.2	TR	4.2	20.5	1.2	1.5	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TR	6.4	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0
18	0.0	2.3	0.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	4.2	0.0	0.0	0.0	4.6	4.2	0.0	0.0	0.0	0.0
	0.0	2.3	4.2	0.0	6.5	4.6	4.6	16.1	6.4	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	20.0	22.4	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0
Sum	0.0	0.0	0.0	0.0	0.0	20.0	17.1	4.3	11.0	0.0	0.0	0.0
M. Sum	0.0	10.8	11.7	3.2	6.5	26.8	72.8	24.0	12.9	0.0	0.0	0.0
Mean												
Hig.		9.3	4.3	3.2	4.3	20.0	22.4	4.3	6.4			
Date		18	2	3	18	27	27	29	15			
Low												
Date												



NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: KOKA DAM Wereda ADAMA Awraja YERER & KEREYU Region SINOA
 Alt. _____ Long. _____ Lat. _____ Element DAILY RAIN Fall Year 1987

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	14.3	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	0.0	0.0	0.0
5	0.0	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	6.4	14.2	0.0	14.2	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	4.3	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	7.3	0.0	0.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	13.6	16.6	14.2	14.3	24.2	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.5	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	12.1	7.5	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	14.2	0.0	0.0	6.4	0.0	0.0	0.0	0.0
	0.0	0.0	4.3	0.0	14.2	0.0	13.1	70.4	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.2	0.0	22.4	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sum	0.0	0.0	0.0	13.0	25.4	0.0	23.4	6.5	6.4	0.0	0.0	0.0
M. Sum			17.9	16.6	103.8	14.3	70.1	76.7	6.4			
Mean												
Hig.			6.3	6.4	20.5	14.3	22.4	24.5	6.4			
Date			5	8	28	2	25	15	4			
Low												
Date												



NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: KOKA-DAM Wereda: _____ Awraja: _____ Region: SHOA
 Alt.: _____ Long.: _____ Lat.: _____ Element: Daily Rain-fall Year: 1988
 (mm.)

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	0.0	0.0	0.0	3.0	0.0	0.0	11.6	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	10.7	0.0	0.0	1.0
3	7.2	0.0	15.0	0.0	0.0	1.0	8.7	6.7	3.8	0.0	0.0	0.0
4	9.2	0.0	0.0	0.0	0.0	3.5	2.6	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	55.5	13.8	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	2.2	4.7	6.2	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	5.2	0.0	0.0	6.8	51.8	22.5	0.0	0.0	0.0
10	0.0	6.5	0.0	0.0	0.0	0.0	1.3	0.0	10.9	0.0	0.0	0.0
	16.0	6.5	15.0	5.2	5.0	12.2	34.1	71.1	41.3	0.0	0.0	1.0
11	0.0	0.0	0.0	5.3	0.0	0.0	29.5	4.8	15.9	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	5.2	10.5	19.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	1.0	17.7	0.0	0.0	0.0	0.0	0.0
14	0.0	7.4	0.0	19.3	5.5	2.2	1.2	3.5	8.7	0.0	0.0	0.0
15	0.0	0.0	0.0	5.0	0.0	0.0	58.8	26.4	3.7	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	0.0	3.9	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	11.2	21.0	2.5	0.0	1.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	4.5	5.7	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.5	0.0	0.0	0.0	0.0
	0.0	7.4	0.0	24.6	5.5	20.1	100.0	31.3	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	5.0	0.0	3.8	0.0	0.0	6.8	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.5	0.0	34.4	10.0	0.0	0.0	0.0
23	0.0	0.3	0.0	5.0	0.0	6.3	0.0	0.6	7.7	0.0	0.0	0.0
24	0.0	0.4	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	6.6	0.0	0.0	0.0	0.0	12.5	1.8	3.6	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	19.2	0.0	0.0	0.0	26.4	3.8	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.8	5.3	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0.0	1.6	27.3	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0
Sum	0.0	7.3	0.0	29.1	1.0	10.4	14.1	72.2	31.2	5.0	0.0	1.0
M. Sum	0.0	21.2	15.0	64.0	5.5	48.7	137.0	249.8	136.4	25.0	0.0	1.0
Mean												
Hig.												
Date												
Low												
Date												



NATIONAL METEOROLOGICAL SERVICES AGENCY

1st class

Station: KOKA DAM Wereda: ADAMA Awraja: YERER S. KERRIA Region: SH.O.A.
 Alt. _____ Long. _____ Lat. _____ Element: DAILY RAINFALL 1989

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	0.0	0.0	3.8	0.0	0.0	1.2	0.0	4.4	0.0	0.0	0.0
2	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	3.2	25.9	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.8	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	0.0	0.0	0.0	0.0
7	0.0	2.8	0.0	0.0	0.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	51.5	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	22.2	0.0	4.4	0.0	12.0	16.5	0.0	0.0	0.0
10	0.0	0.0	0.0	14.8	0.0	0.0	0.0	23.0	0.0	0.0	0.0	0.5
11	0.0	0.0	0.0	0.0	0.0	9.8	22.2	0.0	10.0	0.0	0.0	0.0
12	0.0	20.0	0.0	0.0	0.0	6.3	16.4	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	27.9	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.5	0.0	0.0	24.6	0.0	19.3	0.0	0.0	0.0
16	0.0	0.0	28.8	0.0	1.4	0.0	0.0	29.5	0.0	0.0	0.0	0.0
17	0.0	0.0	24.5	0.0	0.0	0.0	13.3	4.2	0.0	0.0	0.0	0.0
18	0.0	0.0	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	6.8	0.0	0.0	0.0	0.0	31.4	0.0	2.0	0.0	0.0
20	0.0	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0
21	0.5	0.0	0.0	13.0	0.0	0.0	0.0	0.0	0.0	6.5	0.0	0.0
22	0.0	0.0	0.0	31.4	1.3	0.0	0.0	1.7	0.0	2.0	0.0	0.0
23	0.0	0.0	0.0	13.0	0.0	0.0	11.2	0.0	0.0	2.3	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0
25	0.0	0.0	0.0	10.0	0.0	0.0	0.0	30.6	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	9.5	0.0	3.4	0.0	18.8	11.3	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		4.3	0.0	0.0	0.0	15.0	14.8	2.6	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0.0	0.0	48.8	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.0	10.3		0.0		0.0
Sum	0.5	0.0	4.3	11.5	1.4	3.4	50.2	10.2	10.2	31.2		
M. Sum	0.5	22.8	64.9	185.5	2.7	55.2	300.1	232.0	204.1	6.5		
Mean												
Hfg.	0.5	20.0	28.8	51.5	1.4	27.9	24.6	48.8	33.8	6.5		0.5
Date	21	12	16	8	16	13	15	30	4	21		10
Low												
Date												



NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: Koka-DAM Wereda Awraja Region SHOA
 Alt. Long. Lat. Element Daily Rainfall year 1990

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	60.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.0	0.0	0.0	0.0
4	0.0	38.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	10.4	0.0	40.0	0.0	0.0	0.0
6	0.0	23.8	0.0	0.0	0.0	0.0	10.0	9.3	0.0	0.0	0.0	0.0
7	0.0	0.0	90.8	0.0	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	15.1	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	10.0	20.6	38.1	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	12.3	151.6	0.0	0.0	0.0	0.0	40.2	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	20.0	15.2	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	10.2	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.4	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	30.3	0.0	0.0	0.0	0.0	0.0
17	0.0	25.7	0.0	0.0	0.0	0.0	0.0	30.3	30.0	0.0	0.0	0.0
18	0.0	0.0	40.4	0.0	0.0	0.0	0.0	0.0	25.3	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	10.2	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	25.7	40.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	30.2	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.7	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	100.8	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	45.0	20.8	0.0	0.0	0.0	0.0
25	0.0	39.5	0.0	50.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	13.4	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	11.9	0.0	0.0	0.0	0.0	0.0	28.6	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	5.0	15.4	0.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0.0	0.0	18.6	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0	0.0	8.3	0.0		0.0		0.0
Sum	0.0	64.8	100.0	151.2	0.5	0.0	117.1	21.1	0.0	0.0	0.0	0.0
M. Sum	0.0	159.8	292.0	151.7	0.5	0.0	337.1	112.2	102.9	0.0	0.0	0.0
Mean							6					
Hig.		39.5	100.0	100.8	0.5	5.0	45.0	30.3	40.0			
Date		25	27	23	26	29	24	17	5			
Low												
Date												



NATIONAL METEOROLOGICAL SERVICES AGENCY

JSF class

Station: KOKA DAM Woreda

Amofa

SNCA

Alt. Long. Lat.

Element WINDS KMH/PAU Year 1942

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1				8	00	00	00	36.3	23.1			
2				X	00	00	00	00	16.4			
3				V	00	00	00	00	00			
4				5	00	00	66.3	00	00			
5				V	00	00	00	64.1	00			
6				X	00	00	00	66.3	38.3			
7				A	00	00	00	44.4	00			
8				A	00	00	68.1	00	00			
9				00	00	00	00	36.1	86.1			
10				00	00	00	00	00	00			
				00	00	00	13.1	26.1	14.9			
11				00	00	00	00	00	38.1			
12				00	00	00	00	00	00			
13				00	00	00	00	69.3	96.3			
14				00	00	00	00	47.1	00			
15				00	00	00	00	00	00			
16				00	00	00	00	00	00			
17				00	00	00	67.3	00	00			
18				00	00	00	46.4	38.1	00			
19				00	00	00	38.2	64.2	36.1			
20				00	00	00	00	32.1	00			
				00	00	00	15.1	25.1	12.1			
21				00	00	00	00	00	00			
22				00	00	00	30.1	40.4	16.2			
23				00	00	00	00	00	00			
24				40.1	00	00	86.4	00	00			
25				10.3	00	30.4	00	00	00			
26				0.5	00	63.3	00	00	00			
27				0.0	60.0	67.1	47.5	00	00			
28				40.1	00	88.3	00	00	00			
29				60.3	00	00	00	68.1	00			
30				00	30.4	00	49.4	40.3	00			
31					00		00	00				
Sum				151.5	40.4	219.1	219.4	76.8	46.3			
M. Sum				151.5	72.4	219.1	47.7	66.0	11.1			
Mean												
Hig.				60.3	60.0	88.3	86.4	84.1	96.3			
Date				29	27	28	24	5	13			
Low												
Date												

1st class



NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: KOKA DAM Wereda Awraja Region SHOA

Alt. Long. Lat. Element DAILY RAIN FALL Year 1993

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	00	00	00	00	00	00	00	00	00	00	0.0	0.0
2	00	17.0	00	00	00	00	00	19.5	00	16.0	0.0	0.0
3	00	23.0	00	00	00	00	00	00	28.4	6.5	0.0	0.0
4	00	00	00	00	00	00	14.6	22.6	00	00	0.0	0.0
5	00	16.0	00	00	00	13.0	00	48.3	19.5	00	0.0	0.0
6	00	12.0	00	00	00	00	00	00	00	00	0.0	0.0
7	00	00	00	00	00	00	13.4	18.5	00	00	0.0	0.0
8	00	10.0	00	00	00	00	00	22.4	00	00	0.0	0.0
9	00	19.0	00	00	00	12.0	22.4	18.7	8.6	00	0.0	0.0
10	00	25.0	00	00	00	00	00	00	00	00	0.0	0.0
	00	122.0	00	00	00	25.0	50.4	210.0	50.5	50.5	0.0	0.0
11	00	11.0	00	13.0	68.0	00	00	00	00	00	0.0	0.0
12	00	00	00	00	24.0	00	10.2	32.0	66.5	00	x	0.0
13	00	00	00	00	16.0	00	13.5	00	00	00	x	0.0
14	00	00	00	00	12.0	00	00	20.4	5.3	00	x	0.0
15	00	00	00	00	00	00	00	46.6	00	00	x	0.0
16	00	00	00	22.0	00	00	00	00	00	00	x	0.0
17	00	00	00	19.0	00	00	28.6	28.3	00	00	x	0.0
18	00	00	00	16.0	00	00	16.4	42.4	14.3	00	x	0.0
19	00	00	24.0	0.0	00	10.0	00	39.7	00	00	x	0.0
20	00	00	00	00	00	00	26.3	48.5	00	00	x	0.0
	00	11.0	24.0	70.0	120.0	10.0	95.0	251.9	86.1	00		0.0
21	00	00	10.0	00	00	00	32.6	86.4	00	00	0.0	0.0
22	00	00	00	00	00	00	16.7	18.7	12.0	00	0.0	0.0
23	00	00	34.0	00	00	00	00	00	00	00	0.0	0.0
24	15.0	00	00	00	00	8.0	00	00	00	00	0.0	6.2
25	00	00	00	00	10.0	00	00	42.3	11.3	8.3	0.0	0.0
26	10.0	00	x	00	00	00	00	00	00	00	0.0	0.0
27	12.0	00	x	87.0	13.0	20.0	17.5	00	00	4.0	0.0	0.0
28	00	00	x	74.0	00	00	26.2	00	00	2.0	0.0	0.0
29	10.0		00	62.0	00	12.0	31.4	26.6	16.5	00	0.0	0.0
30	00		00	00	00	00	14.6	56.5	00	00	0.0	0.0
31	00		00	00	00	00	00	00	00	00	0.0	0.0
Sum	47.0	00	44.0	223.0	23.0	40.0	102.0	230.5	34.6	14.3	0.0	6.2
M. Sum	47.0	133.0	68.0	293.0	123.0	75.0	289.4	698.4	182.4	36.8		6.2
Mean												
Hlg.	15.0	25.0	34.0	87.0	68.0	20.0	32.6	86.4	66.5	16.0		6.2
Date	24	10	23	27	11	27	21	21	12	2		24
Low												
Date												



NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: Koka dam Wereda: _____ Awraja: _____ Region: SHOA
 Alt. _____ Long. _____ Lat. _____ Element: Quality Rainfall year: 1994

COMMERCIAL P. E. 1305/135

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	0.0	0.0			0.0	0.0	2.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0			0.0	0.0	2.5	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0			0.0	0.0	6.5	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0			0.0	10.2	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0			0.0	0.0	10.0	20.9	0.0	0.0	0.0
8	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0			0.0	0.0	10.8	0.0	0.0	0.0	0.0
	0.0	0.0	0.0			0.0	10.2	31.8	26.9	0.0	0.0	0.0
11	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0			0.0	10.2	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0			0.0	30.6	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0			10.2	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0			0.0	0.0	1.5	10.0	0.0	0.0	0.0
20	0.0	0.0	0.0			0.0	0.0	2.2	0.0	0.0	0.0	0.0
	0.0	0.0	0.0			10.2	16.8	4.4	10.0	0.0	0.0	0.0
21	0.0	0.0	0.0			0.0	20.1	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0			0.0	20.8	30.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0			10.2	10.8	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0			0.0	0.0	2.9	20.8	0.0	0.0	0.0
28	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0			0.0	10.9	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	4.0			0.0	0.0	30.0	0.0	0.0	0.0	0.0
31	0.0	0.0	10.0			0.0	0.0	10.3	0.0	0.0	0.0	0.0
Sum	0.0	0.0	19.0			10.2	62.6	73.9	20.8	0.0	0.0	0.0
M. Sum			14.0			10.2	113.6	109.4	56.7	0.0	0.0	0.0
Mean												
Hig.			12.0			10.2	30.6	30.0	20.9			
Date			31			18	16	22	7			
Low												
Date												

Copied by: Name _____ Sig. _____ 3 - 8 - 1 7 _____ Sig. _____
 /tm.



NATIONAL METEOROLOGICAL SERVICES AGENCY

57

Station: Koka Dam Wereda _____ Awraja _____ Region S.H.O.A
 Alt. _____ Long. _____ Lat. _____ Element Daily Rain Fall Year 1975

COMMERCIAL P. E. 43005/56

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1		0.0				0.0	20.4	0.0	0.0	0.0	0.0	
2		0.0				0.0	15.9	0.0	0.0	0.0	0.0	
3		0.0				0.0	9.2	4.2	0.0	0.0	0.0	
4		0.0				0.0	0.0	4.2	0.0	0.0	0.0	
5		0.0				0.0	0.0	0.0	0.0	0.0	0.0	
6		0.0				0.0	75.2	0.0	0.0	0.0	0.0	
7		0.0				0.0	14.5	0.0	0.0	0.0	0.0	
8		0.0				0.0	20.6	20.2	0.0	0.0	0.0	
9		0.0				0.0	30.5	7.5	0.0	0.0	0.0	
10		0.0				0.0	6.3	11.1	0.0	0.0	0.0	
		0.0				0.0	42.6	50.2	0.0	0.0	0.0	
11		0.0				0.0	9.2	0.0	0.0	0.0	0.0	
12		29.2				0.0	7.1	0.0	0.0	0.0	0.0	
13		0.0				0.0	0.0	0.0	0.0	0.0	0.0	
14		0.0				0.0	0.0	0.0	0.0	0.0	0.0	
15		0.0				0.0	6.0	0.0	0.0	0.0	0.0	
16		0.0				0.0	16.7	0.0	0.0	0.0	0.0	
17		0.0				0.0	70.6	0.0	0.0	0.0	0.0	
18	0	0.0				0.0	19.2	11.4	0.0	0.0	0.0	
19		0.0				9.2	15.4	1.2	0.0	0.0	0.0	
20	2	0.0			0	0.0	21.3	6.0	0.0	0.0	0.0	
		29.2			0	9.2	16.5	12.6	0.0	0.0	0.0	
21		0.0				0.0	12.1	0.0	9.5	0.0	0.0	
22		0.0				0.0	5.0	0.0	0.0	0.0	0.0	
23		0.0				0.0	13.2	0.0	0.0	0.0	0.0	
24		0.0				0.0	17.1	20.2	0.0	0.0	0.0	
25		0.0				0.0	0.0	0.0	0.0	0.0	0.0	
26		0.0				0.0	0.0	0.0	0.0	0.0	0.0	
27		0.0				0.0	0.0	6.0	0.0	0.0	0.0	
28		0.0				0.0	20.2	5.2	0.0	0.0	0.0	
29							15.5	0.0	0.0	0.0	0.0	
30						0.0	0.0	0.0	0.0	0.0	0.0	
31							0.0	0.0		0.0		
Sum		0.0				0.0	83.1	25.1	4.5	0.0	0.0	
M. Sum		29.2				9.8	111.2	88.2	9.5	0.0	0.0	
Mean												
Hig.		29.2				9.2	75.2	20.2	9.5			
Date		18				19	6	8	21			
Low												
Date												



NATIONAL METEOROLOGICAL SERVICES AGENCY

Station: Koka dam Wereda Awraja Region STOA
 Alt. Long. Lat. Element Daily rain Year 1996
full

Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0			0.0	0.0	0.3	0.0	30.0	0.7	0.0	0.0	0.0
2	1.0			0.0	0.2	0.5	0.0	27.0	0.7	0.0	0.0	0.0
3	1.0			0.0	0.1	0.7	0.0	0.7	0.0	0.0	0.0	0.0
4	11.5			0.0	0.0	10.0	11.8	14.0	0.0	0.0	0.0	0.0
5	0.0			0.0	0.0	23.0	3.0	2.0	0.0	0.0	0.0	0.0
6	0.0			0.0	0.0	0.8	0.0	35.7	17.5	0.0	0.0	0.0
7	0.0			0.0	0.0	0.3	2.0	0.8	0.0	0.0	0.0	0.0
8	0.0			2.5	0.0	0.1	0.0	0.5	0.0	0.0	0.0	0.0
9	0.0			0.0	0.2	0.5	0.0	0.7	15.5	0.0	0.0	0.0
10	0.0			8.0	0.4	0.6	1.8	0.9	14.6	0.0	0.0	0.0
	3.5			10.3	0.8	36.3	10.6	10.5	18.2	0.0	0.0	0.0
11	0.0			0.0	0.0	0.9	0.0	23.8	0.0	0.0	0.0	0.0
12	0.0			4.2	0.3	0.0	7.0	13.8	0.0	0.0	0.0	0.0
13	0.0			1.3	0.0	0.2	0.0	27.5	0.0	0.0	0.0	0.0
14	0.0			0.0	0.0	0.0	4.0	0.2	0.0	0.0	0.0	0.0
15	0.0			1.0	0.5	0.6	0.0	5.0	0.0	0.0	0.0	0.0
16	0.0			2.3	0.4	0.4	0.0	7.5	0.0	0.0	0.0	0.0
17	0.0			0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0
18	0.0			0.0	0.0	0.0	20.2	0.0	0.0	0.0	0.0	0.0
19	0.0			0.0	0.0	0.0	6.3	0.0	0.2	0.0	0.0	0.0
20	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0			8.8	1.2	2.1	10.5	11.5	0.2	0.0	0.0	0.0
21	0.0			0.0	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0			4.2	2.2	0.0	19.0	30.8	0.0	0.0	0.0	0.0
23	0.0			0.0	2.3	0.0	9.1	0.3	0.0	0.0	0.0	0.0
24	0.0			0.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0	0.0
25	0.0			0.0	0.0	0.0	0.0	14.0	0.0	0.0	0.0	0.0
26	0.0			2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0			0.0	0.8	0.0	29.0	0.0	0.0	0.0	0.0	0.0
28	0.0			1.0	0.5	0.0	0.0	8.5	0.1	0.0	0.0	0.0
29	0.0			1.3	1.4	0.0	0.0	0.0	0.8	0.0	0.0	0.0
30	0.0			12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0				0.0		0.0	0.0	0.0	0.0	0.0	0.0
Sum	0.0			20.8	8.1	0.1	58.1	61.6	0.9	0.0	0.0	0.0
M. Sum	3.5			40.1	10.2							
Mean												
Hig.				8.0	2.3	0.3	0.0	31.0	14.5			
Date				10	23	5	21	2	6			
Low												
Date												