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METEOROLOGICAL OBSERVATIONS, 1937.

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BRITISH EAST AFRICAN METEOROLOGICAL SERVICE.

All Meteorological Stations have been under the control of the B.E.A. Meteorological Service throughout 1937.

In connection with the Service 123 Rainfall Stations have reported, including one First Order Station, fourteen Second Order Stations, one Third Order Station and eighteen Rainfall Stations which were opened during the year.

The times of observations are :—

8·30 a.m. and 2·30 p.m. Local Standard Time. This corresponds to 0545 G.M.T. and 1145 G.M.T. When the standard time was changed at the beginning of 1937, it was considered inadvisable to alter the local times of observation so that, in reality, the observations are now made 15 minutes earlier than the International Times of 0600 G.M.T. and 1200 G.M.T.

Only a summary of the observations at selected stations is given in this volume. Further information may be obtained on application to the B.E.A. Meteorological Service.

Rainfall.

The total rainfall for the year was 8% above normal. November was unusually wet, the total rainfall being 94% above average.

The abnormalities at certain stations are shown in the following table :—

Station.	Province.	Departure from normal.	Station.	Province.	Departure from normal.
Entebbe	Buganda	+ 7·80	Bubulu	Eastern	+ 6·79
Kampala	,,	+ 5·15	Fort Portal	Western	+ 7·29
Masaka	,,	+ 2·48	Busenyi	,,	+ 3·33
Bukalasa	,,	− 1·00	Bunyaruguru	,,	+ 7·63
Mubende	,,	+ 3·01	Kabale	,,	+ 18·01
Kalangala	,,	+ 44·86	Butiti	,,	+ 17·12
Jinja	Eastern	− 2·14	Kilelooney	,,	+ 4·37
Mbale	,,	+ 14·78	Hoima	Northern	− 1·68
Namasagali	,,	− 2·34	Gulu	,,	+ 20·76
Serere	,,	+ 6·12	Arua	,,	+ 10·05
Bugondo	,,	− 5·92	Ngetta	Eastern	− 3·45

The highest fall for the year was 129·02 inches at Kalangala, and the lowest 29·33 inches at Mwirasandu The greatest fall recorded in 24 hours was 4·09 inches on the 3rd April at Mutai.

Temperatures.

Thirty-two Stations recorded temperatures during 1937. Of these twenty-four recorded readings of the Dry and Wet Bulb thermometers.

The highest temperature recorded was 99·0°F. at Katakwi in January and February and at Buwalasi in January, and the lowest 41·5°F. at Kabale in June.

The departures from normals for the various stations are shown below :—

Station.	Province.	Departure from normal. (°F) Max.	Min.	Station.	Province.	Departure from normal. (°F) Max.	Min.
Entebbe	Buganda	− 0·5	0·0	Jinja	Eastern	0·0	0·0
Kampala	,,	− 0·3	+ 0·1	Serere	,,	+ 0·4	+ 0·7
Masaka	,,	− 1·4	− 0·3	Ngetta	,,	− 0·3	− 0·3
Bukalasa	,,	+ 0·3	− 0·3	Arua	Northern	− 1·0	+ 0·2

1937. Station.	Lat.	Long.	Alt. ft.	Air Temperature. Mean. Max. °F	Mean. Min. °F	Absolute Max. °F	Absolute Max. Date.	Absolute Min. °F	Absolute Min. Date.	Rainfall. Total ins.	No. of days	Max. in 24 hours. Amt. ins.	Max. in 24 hours. Date.
Arua	3°01′N	30°55′E	4,200	84·1	64·8	95·0	February 13	60·0	January 7	61·92	123	2·83	Sept. 5
Gulu	2°45′N	32°20′E	3,701	83·8	..	94·0	Jan. 23, Feb. 16	..	..	80·12	146	3·28	Feb. 25
Lira	2°17′N	32°56′E	3,592	85·4	61·6	97·2	February 22	53·0	December 8	51·68	145	3·77	May 15
Butiaba	1°50′N	31°20′E	2,036	83·9	71·8	95·6	June 23	62·1	September 30	32·10	108	2·37	Nov. 22
Hoima	1°26′N	31°22′E	3,800	82·7	62·1	91·0	Feb.17, Mar.6, 8	55·0	January 4	56·90	166	2·70	March 9
Masindi	1°41′N	31°43′E	3,760	82·8	62·8	92·0	Jan. 18, 23	57·8	December 20	60·78	156	2·72	May 11
Serere	1°31′N	33°27′E	3,600	86·9	64·5	96·0	May 9	51·0	February 7	59·80	151	2·14	Aug. 1
Soroti	1°43′N	33°37′E	3,655	85·8	64·2	96·0	February 22	57·0	February 24	52·31	137	3·07	April 19
Mbale	1°06′N	34°11′E	4,003	83·9	61·2	92·2	Jan. 18, 22	54·5	September 28	60·53	193	3·13	June 24
Fort Portal	0°40′N	30°17′E	5,049	76·9	55·6	86·0	February 14	48·1	September 6	64·53	198	3·62	Feb. 23
Mubende	0°35′N	31°22′E	5,095	76·0	60·7	84·0	March 7	56·0	May 18, Dec. 19	50·43	135	2·78	April 13
Budo	0°16′N	32°29′E	4,300	75·4	62·0	83·0	March 11	58·0	Feb., July, Aug, Nov.	52·43	106	3·28	Feb. 5
Bukalasa	0°43′N	32°30′E	3,700	83·3	61·4	93·0	March 6	53·0	December 20	50·96	168	2·75	Feb. 7
Kampala Government Plantation	0°19′N	32°35′E	3,900	81·2	60·9	87·0	Jan., Feb., Mar., Sept.	53·0	January 8	50·74	148	3·28	Feb. 6
Jinja	0°26′N	33°12′E	3,879	81·9	63·5	88·0	Sept. 20, 21	57·5	August 18	43·08	131	2·45	April 27
Budini	0°56′N	33°31′E	3,500	87·4	63·3	96·0	Feb. 15, 16	55·0	December 20	59·61	145	2·85	April 8
Tororo	0°40′N	34°10′E	4,045	83·0	61·4	91·0	February 22	55·0	December 10	51·80	188	2·55	April 8
Mbarara	0°37′S	30°39′E	4,734	78·9	59·3	86·1	January 22	53·5	June 12	40·59	141	2·32	Sept. 25
Masaka	0°20′S	31°44′E	4,307	77·2	60·9	85·0	January 9, 10	57·0	November 12	45·53	152	2·07	Oct. 8
Kabale	1°15′S	29°59′E	6,139	73·2	50·8	79·5	September 3	41·5	June 11	54·42	157	2·98	March 21
Bulindi	1°28′N	31°28′E	3,400	84·5	60·0	93·0	Feb. 14, 15, 16	52·0	Jan 4, Dec 20, 22	53·21	144	2·38	April 17
Dabani C.M.S.	0°28′N	34°05′E	4,000	86·2	61·8	97·0	January 28	55·0	December 22	66·68	190	2·02	March 31
Koja	0°07′N	34°42′E	3,750	76·9	68·8	84·0	January 8	..	July, Aug, Nov.	61·57	144	2·41	May 12
Makimuga	0°45′N	30°06′E	3,000	84·4	63·6	94·0	Feb. 12, May 7	60·0	Often	56·86	186	2·97	July 19
Katakwi	1°54′N	33°38′E	3,900	89·9	69·2	99·0	Jan., Feb.	60·0	Often	42·31	131	3·31	March 13
Buwalasi College	1°11′N	34°17′E	5,000	80·7	63·3	99·0	Jan. 24	58·0	Jan. 20, Nov. 26	62·04	136	3·23	Aug. 12

Summary of Meteorological Observations at Kololo Hill, Kampala, 1937.

Latitude 0°20′ N. Longitude 32°36′ E. Altitude 4,306 ft. Standard time 2h. 45m. East. Reference Number 89·3210.

Month.	Atmospheric Pressure. † 8-30	Atmospheric Pressure. † 14-30	Temperature. Dry Bulb. 8-30	Temperature. Dry Bulb. 14-30	Temperature. Dew Point. 8-30	Temperature. Dew Point. 14-30	Vapour Pressure. 8-30	Vapour Pressure. 14-30	Saturation Deficit. 8-30	Saturation Deficit. 14-30	Relative Humidity. 8-30	Relative Humidity. 14-30	Total Cloud Amt. 8-30	Total Cloud Amt. 14-30	Number of Occasions of Cloud Amounts. 0	1-3	4-6	7-9	10	Rainfall. Total. mm.	Rainfall. Total. ins.	Rainfall. Max. fall in 24 hrs.	Rainfall. Date.	Number of days of Rain.	Number of days of Thun-
	ins.	ins.	F.	F.	F.	F.	ins.	ins.	ins.	ins.	%	%										ins.			
JANUARY	25·700	25·603	69·5	79·6	61·7	59·9	0·555	0·520	0·171	0·496	76	51	6·5	6·0	5	4	3	11	8	12·7	0·50	0·24	26	7	8
FEBRUARY	25·709	25·617	68·2	78·4	63·5	63·1	0·591	0·585	0·103	0·395	85	60	8·0	7·1	0	4	1	11	12	111·0	4·37	3·45	6	11	11
MARCH	25·679	25·600	68·5	77·8	64·9	64·0	0·620	0·602	0·083	0·358	88	63	7·9	7·3	0	3	4	13	11	82·3	3·24	1·22	8	16	16
APRIL	25·712	25·638	68·3	73·9	65·3	65·7	0·629	0·638	0·071	0·207	90	76	7·7	7·6	0	3	3	18	6	248·2	9·77	1·86	29	22	19
MAY	25·741	25·676	66·8	73·7	64·9	65·3	0·620	0·629	0·041	0·213	94	75	8·1	7·3	0	0	6	15	10	196·3	7·73	1·68	10	23	10
JUNE	25·756	25·703	65·8	73·7	64·0	63·9	0·602	0·599	0·039	0·240	94	71	7·9	7·7	1	2	4	11	12	63·8	2·51	1·02	20	15	14
JULY	25·750	25·703	65·5	72·8	63·7	64·0	0·594	0·602	0·038	0·213	94	74	8·3	8·1	0	0	8	10	13	97·8	3·85	1·57	15	10	9
AUGUST	25·741	25·679	67·0	76·3	64·4	65·1	0·608	0·623	0·056	0·290	92	68	6·6	6·6	1	4	11	7	8	16·3	0·64	0·32	9	6	12
SEPTEMBER	25·735	25·647	68·9	79·0	63·3	64·0	0·588	0·602	0·124	0·396	83	60	6·2	6·4	1	3	13	11	2	73·2	2·88	1·06	25	12	20
OCTOBER	25·727	25·635	68·1	76·7	64·4	64·9	0·611	0·620	0·083	0·304	88	67	7·5	7·2	0	2	6	17	6	88·6	3·49	0·67	22	15	18
NOVEMBER	25·720	25·632	65·9	75·0	63·9	64·4	0·597	0·611	0·044	0·266	93	70	8·0	7·3	0	1	7	9	13	256·8	10·11	2·42	7	23	10
DECEMBER	25·691	25·611	68·0	78·0	63·1	64·2	0·585	0·605	0·106	0·364	85	63	7·0	6·9	1	4	6	16	4	56·6	2·23	1·09	14	10	11
Year ..	25·722	25·645	67·5	76·2	63·9	64·0	0·600	0·603	0·080	0·312	89	67	7·5	7·1	9	30	72	149	105	1303·6	51·32	3·45	Feb. 6	170	158

† At Station level: corrected for Temperature and to standard gravity.

Month.	Frequency of Wind Directions at 8-30. N	NE	E	SE	S	SW	W	NW	Calm.	Frequency of Wind Force at 8-30. 1-3	4-7	> 7	Mean Velocity of Wind. 8-30	14-30	Extremes of Temperature of the Air. Max.	Date.	Min.	Date.	Mean Max.	Mean Min.	Max. + Min. ÷ 2	Range. Max.	Range. Min.	Range. Mean.	Frequency of Visibility at 8-30. Fog.	Mist.	Good Vis.
													mph.	mph.	F.		F.		F.	F.	F.	F.	F.	F.			
JANUARY	1	1	0	5	5	6	3	8	2	26	3	0	5	9	86·5	14	63·0	30	82·6	65·8	74·2	21·4	11·0	16·8	0	17	14
FEBRUARY	1	0	1	3	9	2	8	1	3	21	4	0	6	10	85·8	21	59·2	7	80·8	64·0	72·4	23·6	8·6	16·8	1	0	27
MARCH	1	1	1	3	12	7	3	2	1	29	1	0	6	10	86·0	4	60·3	8	80·2	64·6	72·4	21·6	3·8	15·6	0	1	30
APRIL	3	1	1	3	12	5	2	1	2	22	6	0	8	11	80·6	11	59·9	28	77·5	64·0	70·7	16·7	7·2	13·5	0	1	29
MAY	2	0	0	4	12	5	3	0	5	23	3	0	5	11	79·2	9	61·0	9	76·3	63·5	69·9	18·2	7·8	12·8	2	1	28
JUNE	6	5	2	2	4	7	3	1	0	29	1	0	6	12	78·8	2,14,16	59·7	10	76·3	63·3	69·8	17·1	7·6	13·0	3	3	24
JULY	10	3	4	1	3	4	2	4	0	25	6	0	7	12	81·0	25	59·2	17	75·6	62·8	69·2	18·8	9·2	12·8	3	8	20
AUGUST	6	9	2	4	5	2	1	2	0	29	2	0	6	12	83·7	28	59·0	13	78·4	62·6	70·5	20·9	9·0	15·8	2	8	21
SEPTEMBER	13	7	2	0	2	0	0	5	1	24	5	0	8	12	86·2	1	59·0	24	82·0	62·6	72·3	25·0	12·6	19·4	0	1	29
OCTOBER	9	3	3	0	2	4	2	2	6	24	1	0	4	10	83·7	21	60·3	5	79·7	63·3	71·5	19·8	12·1	16·4	0	0	31
NOVEMBER	7	4	1	2	3	1	9	3	0	26	4	0	7	9	82·4	15	59·9	27	78·1	62·6	70·3	20·7	10·6	15·5	3	4	23
DECEMBER	3	3	3	1	8	4	2	7	0	27	4	0	7	11	83·8	19	60·8	15	79·9	63.9	71.9	21·2	11·0	21·8	0	1	30
Year ..	62	37	20	28	77	47	38	36	20	305	40	0	6·3	10·7	86·5	Jan. 14	59·0	Aug. 13 Sep. 24	78·9	63·6	71·3	25·0	3·8	15·8	14	45	306

Summary of Meteorological Observations at Entebbe, 1937.

Latitude 0° 04′ N. Longitude 32° 29′ E. Altitude 3,878 ft. Standard time 2h. 45m. East. Reference Number 89·3202.

Month.	Atmospheric Pressure. † 8-30	Atmospheric Pressure. † 14-30	Temperature. Dry Bulb. 8-30	Temperature. Dry Bulb. 14-30	Temperature. Dew Point. 8-30	Temperature. Dew Point. 14-30	Vapour Pressure. 8-30	Vapour Pressure. 14-30	Saturation Deficit. 8-30	Saturation Deficit. 14-30	Relative Humidity. 8-30	Relative Humidity. 14-30	Total Cloud Amt. 8-30	Total Cloud Amt. 14-30	Number of Occasions of Cloud Amounts, 8-30. 0	1-3	4-6	7-9	10	Rainfall. Total. mm.	Rainfall. Total. ins.	Rainfall. Max. fall in 24 hrs.	Number of days of Date.	Rain	Thunder.
	ins.	ins.	F.	F.	F.	F.	ins.	ins.	ins.	ins.	%	%										ins.			
JANUARY	26·072	25·978	69·0	78·9	64·6	64·4	0·614	0·608	0·104	0·390	86	61	7·0	4·8	3	4	3	8	13	18·3	0·72	0·31	16	8	4
FEBRUARY	26·084	25·995	68·7	76·9	64·4	66·7	0·608	0·661	0·101	0·269	86	71	8·9	6·1	0	1	2	9	16	108·5	4·27	1·18	1	13	8
MARCH	26·045	25·980	70·5	76·1	65·8	66·6	0·641	0·656	0·112	0·251	85	72	8·3	6·8	1	1	4	10	15	196·3	7·73	1·97	21	14	9
APRIL	26·081	26·016	70·8	75·2	66·0	66·6	0·644	0·659	0·118	0·221	84	75	8·2	6·8	0	2	4	11	13	221·2	8·71	1·79	27	23	9
MAY	26·113	26·051	69·0	74·0	65·1	66·4	0·626	0·653	0·092	0·192	87	77	8·5	6·7	0	2	3	9	17	328·4	12·93	2·18	1	25	7
JUNE	26·128	26·072	67·4	74·4	64·0	64·4	0·602	0·611	0·077	0·248	89	71	8·4	7·3	1	1	2	11	15	147·3	5·80	1·08	1	15	14
JULY	26·122	26·075	67·7	73·7	63·9	64·8	0·597	0·617	0·085	0·225	87	73	7·6	7·1	0	3	6	12	10	105·7	4·16	1·07	28	11	9
AUGUST	26·110	26·057	68·4	75·2	63·7	64·6	0·594	0·614	0·106	0·266	85	70	6·5	5·9	0	7	8	7	9	52·6	2·07	1·18	17	10	9
SEPTEMBER	26·102	26·028	69·4	77·6	63·9	65·5	0·599	0·635	0·127	0·319	83	67	7·4	5·4	0	3	5	17	5	112·3	4·42	1·89	26	12	12
OCTOBER	26·096	26·010	70·0	76·8	64·4	65·5	0·611	0·635	0·127	0·295	83	68	7·6	6·1	0	2	7	13	9	102·1	4·02	1·05	30	13	10
NOVEMBER	26·096	26·004	67·7	75·6	63·9	65·3	0·599	0·629	0·083	0·263	88	71	7·9	6·4	0	1	7	11	11	215·9	8·50	1·35	19	22	7
DECEMBER	26·066	25·983	69·1	76·3	64·2	65·3	0·605	0·629	0·113	0·284	84	69	7·9	5·7	0	1	6	15	9	103·6	4·08	1·26	30	18	11
Year ..	26·093	26·021	69·0	75·9	64·5	65·5	0·612	0·634	0·104	0·268	86	70	7·9	6·3	5	28	57	133	142	1712·2	67·41	2·18	May 1	184	109

† At Station level: corrected for Temperature and to standard gravity.

Month.	Frequency of Wind Directions at 8-30. N	NE	E	SE	S	SW	W	NW	Calm.	Frequency of Wind Force at 8-30. 1-3	4-7	>7	Mean Velocity of Wind. 8-30	14-30	Extremes of Temperature of the Air. Max.	Date.	Min.	Date.	Mean Max.	Mean Min.	Max. + Min. ÷ 2	Range. Max.	Range. Min.	Range. Mean.	Frequency of Visibility at 8-30. Fog.	Mist.	Good Vis.
													mph.	mph.	F.		F.		F.	F.	F.	F.	F.	F.			
JANUARY	5	1	2	0	4	3	7	9	0	31	0	0	3	7	84·4	8	58·6	9	80·4	64·1	72·3	25·4	9·0	16·3	0	3	28
FEBRUARY	1	1	2	5	2	5	7	4	1	26	1	0	4	9	83·3	19	60·9	13	79·1	63·8	71·5	20·7	11·0	15·4	1	0	27
MARCH	1	0	5	5	9	5	3	3	0	30	1	0	5	10	81·2	6	59·2	5	78·5	64·7	71·6	21·3	9·0	13·9	1	0	30
APRIL	1	1	4	11	5	6	1	1	0	29	1	0	7	11	81·0	22	61·5	10	77·6	64·7	71·1	15·9	7·9	12·9	0	4	26
MAY	0	2	6	9	4	6	4	0	0	29	2	0	6	10	78·8	31	63·0	3,12,13,17	76·2	64·3	70·3	14·2	8·6	12·0	0	4	27
JUNE	1	0	1	3	1	9	7	8	0	28	2	0	7	11	79·0	17	60·0	12	76·0	63·1	69·5	17·6	7·0	12·8	0	1	29
JULY	2	2	2	1	2	6	3	13	0	27	4	0	7	11	79·4	25	60·0	8,11	76·0	62·2	69·1	18·4	7·6	13·8	0	13	18
AUGUST	10	1	1	1	5	4	3	6	0	29	2	0	7	12	80·0	25	59·2	12	76·9	61·3	69·1	20·0	10·6	15·5	0	31	0
SEPTEMBER	11	2	1	0	2	2	4	8	0	27	3	0	8	11	84·2	24	58·6	5	79·7	62·6	71·1	25·2	7·0	17·1	0	16	14
OCTOBER	7	2	2	0	3	1	6	10	0	29	2	0	8	12	81·8	11	61·1	1	78·8	63·5	71·1	19·6	10·4	15·3	0	1	30
NOVEMBER	9	1	1	0	2	4	7	6	0	29	1	0	7	10	82·3	15	60·0	22,27	77·9	62·6	70·3	19·3	10·6	15·3	0	3	27
DECEMBER	2	1	3	4	5	1	5	10	0	29	2	0	7	11	80·8	10	59·9	20	78·3	62·9	70·6	20·6	10·6	15·4	0	2	29
Year ..	50	14	30	39	44	52	57	78	1	343	21	0	6·3	10·4	84·4	Jan. 8	58·6	Jan. 9 Sept. 5	77·9	63·3	70·6	25·4	7·0	14·6	2	78	285