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UGANDA PROTECTORATE.

METEOROLOGICAL OBSERVATIONS

1935.

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THE WEATHER OF 1935.

All Meteorological Stations have been under the control of the B.E.A. Meteorological Service throughout 1935.

In connection with the Service 104 Rainfall Stations have reported, including one First Order Station, fifteen Second Order Stations, one Third Order Station and five Rainfall Stations which were opened during the year.

The times of observation are the international hours—0600 G.M.T. and 1200 G.M.T. (8-30 a.m. and 2-30 p.m. Local Standard Time).

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 1% above normal. January and July were unusually dry, the total rainfall for these months being 79% and 62% below normal respectively, while the total rainfall for February and June was high, being 86% and 89% above normal for these months.

With only a few exceptions the rainfall in all districts was very nearly normal, although individual stations frequently had fairly large departures. The abnormalities at certain stations are shown in the following table :—

Station.	Province.	Deviation.	Station.	Province.	Deviation.
		ins.			ins.
Entebbe	Buganda	+ 3·41	Moroto	Eastern	...
Kampala	,, ...	+ 6·15	Bubulu	,, ...	+ 1·11
Masaka	,, ...	+ 8·30	Fort Portal ...	Western	+ 1·29
Bukalasa	,, ...	− 2·00	Busenyi	,, ...	− 9·47
Mubende	,, ...	− 5·11	Bunyaruguru ...	,, ...	+ 6·49
Kalangala ...	,, ...	+ 5·71	Kabale	,, ...	+ 6·85
Jinja	Eastern	− 0·84	Butiti	,, ...	− 3·77
Mbale	,, ...	− 5·12	Kilclooney ...	,, ...	− 1·76
Namasagali ...	,, ...	− 1·73	Kitgum	Northern	− 3·81
Serere	,, ...	− 2·75	Hoima	,, ...	− 6·71
Bugondo	,, ...	− 1·26	Gulu	,, ...	+ 0·79
Ngetta	,, ...	+ 3·45	Arua	,, ...	+ 12·45

The highest fall for the year was 97·06 ins. at Nagoje, and the lowest 31·59 ins. at Mwirasundu. The greatest fall recorded in 24 hours was 6·26 on 13th November, at Entebbe.

TEMPERATURES.

Twenty-three Stations recorded temperatures during 1935. Of these, seventeen recorded readings of the Dry and Wet Bulb thermometers.

The highest temperature recorded was 100° F. at Budini in January, and the lowest 41·0° F. at Kabale in July.

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

Station.	Province.	Deviation (o F). Max.	Deviation (o F). Min.	Station.	Province.	Deviation (o F). Max.	Deviation (o F). Min
Entebbe ...	Buganda ...	− 0·6	− 0·9	Mbale ...	Eastern ...	− 0·7	− 0·1
Kampala ...	,, ...	− 0·1	− 0·2	Serere ...	,, ...	+ 1·7	− 0·9
Masaka ...	,, ...	− 2·1	− 1·8	Ngetta ...	,, ...	− 1·3	− 0·7
Bukalasa ...	,, ...	+ 0·5	...	Arua ...	Northern ...	+ 3·8	+ 1·0

1935. 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	86·5	63·9	95 0	Jan., Feb., Mar., Apr. ..	59·0	Sept. 6 ..	62·95	94	2·71	Sept. 3
Gulu	2° 45′ N	32° 20′ E	3,700	85·2	62·9	97·0	Jan. 26, Mar. 31	56·0	Feb. 5 ..	60·27	122	2·58	June 28
Lira	2° 17′ N	32° 56′ E	3,710	86·0	61·5	96·5	Jan. 27 ..	49·1	Jan. 11 ..	57·75	151	3·34	Aug. 28
Butiaba	1° 50′ N	31° 20′ E	2,020	84·5	71·4	91·0	Jan. 31 ..	62·4	July 30 ..	34·13	110	3·71	Nov. 30
Hoima	1° 26′ N	31° 20′ E	3,800	83·3	60·9	94·0	Jan. 27, Feb. 1	53·0	Aug. 22 ..	52·22	170	1·80	Aug. 28
Masindi	1° 41′ N	31° 43′ E	3,760	83·4	62·0	94·6	Jan. 26 ..	53·3	July 30 ..	53·23	138	2·65	June 14
Serere	1° 31′ N	33° 27′ E	3,600	87·7	62·9	98·0	Feb. 1 & 11 ..	54·0	Feb. 23, 25 ..	50·77	137	2·26	Sept 11
Simsa	1° 44′ N	33° 35′ E	3,600	89·3	63·0	99·0	Jan., Feb., Mar.	56·0	Dec. 23 ..	46·94	108	3·30	June 19
Soroti	1° 43′ N	33° 37′ E	3,700	87·6	64·0	98·0	Jan., Feb. ..	59·0	Apr., May ..	40·87	130	2·66	Mar. 9
Mbale	1° 06′ N	34° 11′ E	4,000	85·3	61·5	97·9	Jan. 30 ..	53·9	Jan. 26 ..	40·85	158	1·93	April 13
Fort Portal	0° 40′ N	30° 17′ E	5,300	77·1	54·8	86·4	Jan. 27 ..	45·6	Jan. 17, Aug. 21	58·21	185	3·40	Feb. 4
Mubende	0° 35′ N	31° 22′ E	5,120	76·0	60·5	87·0	Jan. 26 ..	53·5	July 10 ..	45·28	130	3·27	June 8
Budo	0° 16′ N	32° 29′ E	4,300	75·8	62·7	87·0	Nov. 14 to 16	58·0	Feb. 11 ..	52·58	94	2·17	Sept. 26
Bukalasa	0° 43′ N	32° 30′ E	3,700	83·3	61·0	94·0	Feb. 2 ..	52·0	Dec. 21 ..	50·00	145	2·85	Dec. 29
Kampala Government Plantation ..	0° 19′ N	32° 35′ E	3,900	81·3	60·5	91·0	Jan. 26 ..	53·0	June 1 ..	57·82	149	3·11	Aug. 27
Jinja	0° 26′ N	33° 12′ E	3,880	81·8	63·6	94·0	Jan. 19 ..	58·0	Aug. 3, Sept. 11	44·33	108	2·24	Dec. 5
Budini	0° 56′ N	33° 31′ E	3,500	87·6	65·3	100·0	Jan. 19 ..	59·0	Dec. 8—13 ..	46·43	108	2·53	May 9
Tororo	0° 40′ N	34° 10′ E	3,861	83·3	61·3	94·0	Feb. 1 & 2 ..	53·9	Jan. 10 ..	63·99	152	2·67	May 9
Mbarara	0° 37′ S	30° 39′ E	4,800	79·7	57·9	88·5	Jan. 30 ..	50·9	July 17 ..	33·72	109	2·43	Aug. 15
Masaka	0° 20′ S	31° 44′ E	4,200	78·2	59·8	85·9	Jan. 20 ..	51·4	Nov. 29 ..	50·84	136	2·05	May 22
Kabale	1° 15′ S	29° 59′ E	6,000	71·8	49·7	82·2	Jan. 28 ..	41·0	July 15 ..	41·84	168	2·02	June 11

SUMMARY OF METEOROLOGICAL OBSERVATIONS AT ENTEBBE DURING THE YEAR 1935.

Latitude 0°40′ N. Longitude 32°29′ E. Altitude 3,878 ft. Standard time 2 h. 30 m. East. Reference Number 89·3202

Month.	Atmospheric Pressure. †		Temperature.				Vapour Pressure.		Saturation Deficit.		Relative Humidty.		Total Cloud Amt.		Number of Occasions of Cloud Amounts.					Rainfall.				Number of days of	
			Dry Bulb.		Dew Point.															Total.		Max. fall in. 24 hrs.	Date.	Rain	Thunder.
	8-30	14-30	8-30	14-30	8-30	14-30	8-30	14-30	8-30	14-30	8-30	14-30	8-30	14-30	0	1-3	4-6	7-9	10	mm.	ins.				
	ins.	ins.	F.	F.	F.	F.	ins.	ins.	ins.	ins.	%	%										ins.			
JANUARY	26·069	25·989	70·1	80·6	64·8	65·3	0·617	0·628	0·126	0·425	83	60	5·3	3·2	4	7	5	11	4	17·5	0·69	0·44	5	4	—
FEBRUARY	26·090	26·004	67·6	75·2	63·1	63·9	0·584	0·599	0·097	0·280	86	68	8·3	6·3	0	0	4	16	8	135·1	5·32	1·21	21	16	6
MARCH	26·066	25·986	71·4	77·8	65·8	66·4	0·640	0·652	0·136	0·304	82	68	7·1	5·0	0	3	8	13	7	114·3	4·50	1·18	26	19	4
APRIL	26·090	26·001	70·1	75·7	65·5	65·5	0·634	0·634	0·109	0·263	86	71	7·4	6·2	0	6	3	13	8	248·2	9·77	1·44	9	21	5
MAY	26·122	26·031	68·2	73·7	64·8	65·3	0·616	0·628	0·077	0·210	89	75	7·5	6·2	0	6	2	10	13	259·6	10·22	2·30	9	20	5
JUNE	—	—	67·5	73·5	64·0	64·9	0·602	0·619	0·076	0·216	89	74	7·8	6·7	0	2	7	9	12	118·6	4·67	1·09	2	15	3
JULY	—	—	67·3	75·1	62·1	63·9	0·560	0·599	0·113	0·277	83	68	5·4	3·5	1	8	13	3	6	32·5	1·28	0·62	6	6	1
AUGUST	26·104	26·034	68·2	75·4	62·6	63·9	0·572	0·596	0·121	0·289	83	67	4·9	5·5	3	10	7	6	5	45·0	1·77	0·92	4	5	4
SEPTEMBER	26·102	26·013	69·2	75·1	63·9	64·8	0·597	0·617	0·124	0·260	83	70	6·2	6·2	1	6	7	11	5	119·4	4·70	2·47	27	9	4
OCTOBER	26·090	26·001	70·0	76·5	63·9	64·4	0·599	0·608	0·139	0·310	81	66	6·5	6·3	0	6	7	12	6	100·3	3·95	2·23	25	8	4
NOVEMBER	26·081	25·987	70·1	77·5	63·7	65·0	0·594	0·623	0·151	0·331	80	65	7·1	5·7	0	4	6	14	6	230·9	9·09	6·26	13	15	3
DECEMBER	26·090	25·995	68·7	76·6	64·0	65·1	0·602	0·626	0·106	0·298	85	68	7·0	6·2	2	3	5	9	12	167·1	6·58	1·76	22	14	2
Year ..	26·090	26·004	69·0	76·1	64·0	64·9	0·601	0·619	0·115	0·289	84	68	6·7	5·6	11	61	74	127	92	1588·5	62·54	6·26	Nov. 13th	152	41

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

Month.	Frequency of Wind Directions at 8-30.								Calm.	Frequency of Wind Force at 8-30.			Mean Velocity of Wind.		Extremes of Temperature of the Air.									Frequency of Visibility at 8-30.		
																						Range.				
	N	NE	E	SE	S	SW	W	NW		1-3	4-7	>7	8-30	14.30	Max.	Date.	Min.	Date.	Mean Max.	Mean Min.	Max. + Min. ÷ 2	Max.	Min.	Mean.	Fog.	Mist.	Good Vis.
													mph.	mph.	F.		F.		F.	F.	F.	F.	F.	F.			
JANUARY	2	0	1	3	0	5	7	13	0	27	4	0	6	19	84·8	19	59·5	2	82·1	62·8	72·5	23·5	14·1	19·3	0	0	31
FEBRUARY	1	0	1	3	2	6	7	7	1	22	5	0	7	17	83·1	1	59·7	22	78·3	63·9	71·1	22·7	6·8	14·4	0	0	28
MARCH	0	1	1	7	4	7	8	2	1	25	5	0	7	21	82·2	19	62·4	15	79·6	66·0	72·8	16·9	9·4	13·6	0	0	31
APRIL	4	2	5	2	4	3	5	3	2	24	4	0	6	17	80·7	24	62·7	23	78·3	64·7	71·5	17·3	7·6	13·6	0	1	29
MAY	2	4	3	4	3	5	4	6	0	23	8	0	9	13	78·9	30	58·8	29	76·3	63·0	69·7	18·3	7·4	13·3	0	3	28
JUNE	3	0	3	3	0	5	4	11	1	25	4	0	7	11	78·8	11	59·6	26	75·8	62·7	69·3	16·8	8·2	13·1	0	1	29
JULY	5	0	1	5	0	1	10	9	0	21	10	0	11	16	79·7	27	58·6	30	76·8	61·3	69·1	19·4	12·3	15·5	1	1	29
AUGUST	7	3	3	1	1	3	6	7	0	22	9	0	11	17	80·0	25	58·1	17	77·3	61·5	69·4	20·4	6·7	15·8	0	0	31
SEPTEMBER	12	5	3	1	0	0	1	8	0	18	12	0	12	16	84·7	23	58·1	11	79·1	62·0	70·5	22·1	7·9	17·1	0	1	29
OCTOBER	11	4	4	3	2	0	1	5	1	18	12	0	11	15	83·6	24	60·8	13	79·3	63·5	71·4	19·6	11·3	15·8	0	0	31
NOVEMBER	10	4	0	1	0	2	3	10	0	23	7	0	9	6	82·6	9	61·3	15	79·9	64·3	72·1	20·3	11·6	15·6	0	0	30
DECEMBER	4	1	0	1	3	6	8	8	0	28	3	0	7	12	82·8	20	60·2	15	78·7	63·3	71·0	19·2	11·2	15·4	1	0	30
Year ..	61	24	25	34	19	43	64	89	6	276	83	0	9	15	84·8	Jan. 19th	58·1	Aug. Sept.	78·5	63·3	70·9	23·5	6·7	15·2	2	7	356

SUMMARY OF METEOROLOGICAL OBSERVATIONS AT KOLOLO HILL, KAMPALA, DURING THE YEAR 1935.

Latitude 0°20′ N. Longitude 32°36′ E. Altitude 4,290 ft. Standard time 2h. 30m. East. Reference Number 89·3210

Month.	Atmospheric Pressure. †		Temperature.				Vapour Pressure.		Saturation Deficit.		Relative Humidity.		Total Cloud Amt.		Number of Occasions of Cloud Amounts.					Rainfall.				Number of days of	
			Dry. Bulb.		Dew Point.															Total.		Max. fall in 24 hrs.	Date.	Rain.	Thunder.
	8-30	14-30	8-30	14 30	8-30	14-30	8-30	14-30	8-30	14-30	8 30	14-30	8-30	14-30	0	1-3	4-6	7-9	10	mm.	ins.				
	ins.	ins.	F.	F.	F.	F.	ins.	ins.	ins.	ins.	%	%										ins.			
JANUARY	25·685	25·597	71·6	81·2	63·1	60·6	0·584	0·534	0·195	0·537	75	50	5·1	4·7	1	9	9	11	1	23·9	0·94	0·39	9	5	9
FEBRUARY	25·697	25·611	67·5	74·7	62·4	63·0	0·569	0·578	0·109	0·286	84	67	7·7	7·4	0	0	6	18	4	152·7	6·01	1·06	23	15	18
MARCH	25·676	25·594	69·6	77·4	64·9	65·1	0·619	0·622	0·110	0·325	85	66	7·3	6·8	0	1	12	16	2	95·8	3·77	1·02	27	17	20
APRIL	25·697	25·611	68·9	75·9	63·9	64·0	0·599	0·602	0·112	0·301	84	67	7·5	6·9	0	2	6	19	3	68·6	2·70	0·74	9	17	19
MAY	25·732	25·653	67·1	73·5	63·9	64·6	0·599	0·614	0·071	0·215	89	74	8·0	7·4	0	1	8	10	12	207·0	8·15	1·39	21	18	13
JUNE	25·741	25·670	66·4	72·0	63·1	63·7	0·584	0·593	0·071	0·198	89	75	7·9	7·6	0	1	7	17	5	141·2	5·56	2·04	8	14	12
JULY	25·753	25·697	66·7	75·2	60·4	60·4	0·531	0·528	0·130	0·351	80	60	6·2	6·1	3	5	6	12	5	3·6	0·14	0·11	6	3	15
AUGUST	25·723	25·656	67·5	75·6	61·3	61·0	0·546	0·540	0·132	0·351	80	61	5·8	7·2	2	8	5	13	3	101·3	3·99	2·19	27	5	22
SEPTEMBER	25·723	25·632	68·9	75·2	63·7	62·4	0·593	0·566	0·118	0·313	83	64	6·2	7·5	0	7	7	12	4	127·0	5·00	1·78	9	12	28
OCTOBER	25 712	25·623	69·1	74·8	63·1	63·1	0·582	0·582	0·156	0·289	79	67	7·0	7·7	0	2	8	17	4	132·1	5·20	1·54	14	12	28
NOVEMBER	25·706	25·609	70·3	78·6	62·8	63·7	0·576	0·594	0·171	0·392	77	60	7·0	7·2	0	1	13	10	6	107·2	4·22	1·88	13	13	24
DECEMBER	25·709	25·617	68·9	75·6	63·1	64·4	0·582	0·611	0·130	0·281	82	69	7·1	7·3	0	6	7	9	9	167·1	6·58	1·67	29	19	26
Year ..	25·713	25·631	68·5	75·8	63·0	63·0	0·583	0·580	0·125	0·320	82	65	6·9	7·0	6	43	94	164	53	1327·5	52·26	2·19	Aug. 27th	150	234

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

Month.	Frequency of Wind Directions at 8-30.								Calm.	Frequency of Wind Force at 8-30.			Mean Velocity of Wind.		Extremes of Temperature of the Air.							Range.			Frequency of Visibility at 8-30.		
	N	NE	E	SE	S	SW	W	NW		1-3	4-7	>7	8-30	14-30	Max.	Date.	Min.	Date.	Mean Max.	Mean Min.	Max.+Min. ÷ 2	Max.	Min.	Mean.	Fog.	Mist.	Good Vis.
													mph.	mph.	F.		F.		F.	F.	F.	F.	F.	F.			
JANUARY	1	1	4	14	4	3	1	0	3	26	2	0	6	15	90·1	26	59·9	17	83·7	64·9	74·3	25·9	11·2	18·8	0	2	29
FEBRUARY	1	1	1	3	6	10	5	1	0	22	6	0	8	14	88·7	1	59·7	24	79·2	63·7	71·5	20·7	10·1	15·5	1	2	25
MARCH	0	0	2	4	10	9	5	1	0	25	6	0	9	14	84·0	18	60·1	24	80·2	65·3	72·7	20·5	11·3	14·9	0	0	31
APRIL	3	0	4	4	10	4	4	1	0	25	5	0	8	15	81·5	9	62·1	10,18	78·6	63·7	71·1	18·5	9·6	14·9	0	0	30
MAY	2	4	4	4	6	7	4	0	0	25	6	0	9	13	80·4	1	59·4	21	76·6	62·9	69·7	20·1	8·2	13·7	3	1	27
JUNE	8	2	3	1	5	3	2	6	0	28	2	0	8	10	80·8	11	58·8	26	75·6	62·6	69·1	16·9	8·7	13·0	1	1	28
JULY	10	4	0	2	5	4	3	3	0	29	2	0	6	3	84·6	27	58·8	1	77·2	62·1	69·7	22·5	9·0	15·1	0	5	26
AUGUST	14	6	1	2	3	2	3	0	0	28	3	0	7	12	84·0	1	57·0	27	79·0	61·3	70·1	24·8	6·7	17·7	0	1	30
SEPTEMBER	15	5	4	1	1	0	1	3	0	24	6	0	9	12	84·6	25	58·1	27	80·1	61·9	71·0	22·1	10·6	18·2	0	1	29
OCTOBER	8	8	1	5	1	1	3	4	0	29	2	0	7	10	84·7	24	60·1	2	79·3	62·6	70·9	21·2	11·7	16·7	0	0	31
NOVEMBER	7	3	2	2	1	6	5	1	3	26	1	0	6	9	86·5	10	60·6	14	81·7	63·7	72·7	22·0	14·4	18·0	0	0	30
DECEMBER	1	0	5	3	8	3	3	5	3	26	2	0	5	10	82·8	19	57·6	25	78·6	63·1	70·9	19·8	10·3	15·5	0	0	31
Year ..	70	34	31	45	60	52	39	25	9	313	43	0	7	11	90·1	Jan. 26th	57·6	Dec. 25th	79·1	63·1	71·1	25·9	6·7	16·0	5	13	347