UGANDA PROTECTORATE.

METEOROLOGICAL OBSERVATIONS, 1936.

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Oceanic &
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Dept. of Commerce

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THE WEATHER OF 1936.

All Meteorological Stations have been under the control of the B.E.A. Meteorological Service throughout 1936.

In connection with the Service 107 Rainfall Stations have reported, including one First Order Station, fourteen Second Order Stations, one Third Order Station and seven 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 11% above normal. January, February and June were unusually wet the total rainfall for these months being 162%, 73% and 80% above normal respectively.

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

Station.	Province.	Departure from normal.	Station.	Province.	Departure from normal.
		ins.			ins.
Entebbe	Buganda	+ 13·63	Moroto	Eastern	+ 1·87
Kampala	,, ...	+ 5·47	Bubulu	,, ...	+ 15·83
Masaka	,, ...	+ 9·42	Fort Portal ...	Western	+ 9·37
Bukalasa	,, ...	+ 1·49	Busenyi	,, ...	− 4·26
Mubende	,, ...	+ 2·86	Bunyaruguru ...	,, ...	− 13·22
Kalangala ...	,, ...	+ 60·75	Kabale	,, ...	+ 13·36
Jinja	Eastern	+ 1·96	Butiti	,, ...	− 6·70
Mbale	,, ...	+ 1·24	Kilclooney ...	,, ...	− 5·14
Namasagali ...	,, ...	+ 12·60	Kitgum	Northern	− 3·57
Serere	,, ...	− 0·21	Hoima	,, ...	− 2·25
Bugondo	,, ...	+ 7·90	Gulu	,, ...	− 2·76
Ngetta	,, ...	+ 3·33	Arua	,, ...	− 0·65

The highest fall for the year was 140·23 ins. at Kalangala, and the lowest 28·57 ins. at Butiaba. The greatest fall recorded in 24 hours was 7·35 on 19th April, at Kyanamukaka.

TEMPERATURES.

Twenty-three Stations recorded temperatures during 1936. Of these, seventeen recorded readings of the Dry and Wet Bulb thermometers.

The highest temperature recorded was 97°F. at Serere in January, and the lowest 37°F. at Kabale in August.

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

Station.	Province.	Departure from normal. (°F). Max.	Departure from normal. (°F). Min.	Station.	Province	Departure from normal. (°F). Max.	Departure from normal. (°F). Min
Entebbe ...	Buganda ...	− 1·3	− 0·9	Mbale ...	Eastern ...	− 2·3	− 0·4
Kampala ...	,, ...	− 0·5	− 0·1	Serere ...	,, ...	+ 0·9	− 0·3
Masaka ...	,, ...	− 3·1	− 0·6	Ngetta ...	,, ...	− 2·0	− 0·6
Bukalasa ...	,, ...	− 0·1	+ 0·5	Arua ...	Northern ...	+ 1·4	+ 2·5

1936. 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	65·4	95·0	Feb. 5, Nov. 23	60·0	June, Sept. ..	50·83	146	2·50	Aug. 11
Gulu	2° 45′ N	32° 20′ E	3,642	84·6	62·8	94·0	Jan., Feb. ..	58·0	Jan. 15, Dec. 28	56·76	121	1·84	Feb. 20
Lira	2° 17′ N	32° 56′ E	3,612	85·3	61·6	96·0	February 8 ..	55·1	January 15 ..	58·40	156	2·29	Sept. 2
Butiaba	1° 50′ N	31° 20′ E	2,036	84·1	71·4	89·7	March 21 ..	65·0	December 3 ..	28·57	100	2·27	April 19
Hoima	1° 26′ N	31° 22′ E	3,800	81·7	61·2	90·0	February 2 ..	55·0	July 15 ..	56·29	162	2·02	Feb. 20
Masindi	1° 41′ N	31° 43′ E	3,760	82·8	62·6	92·4	November 22..	54·0	December 5 ..	50·16	151	3·50	Feb. 9
Serere	1° 31′ N	33° 27′ E	3,600	86·9	63·5	97·0	January 21 ..	57·0	June 1, 2 ..	59·19	135	3·79	Feb. 20
Simsa	1° 44′ N	33° 35′ E	3,600	89·0	61·4	96·0	Jan., Feb., Nov.	56·0	Jan., Nov. ..	48·75	110	2·30	April 10
Soroti	1° 43′ N	33° 37′ E	3,655	86·0	65·4	95·0	Feb. 5, 6, Nov. 23	59·0	June 25 ..	45·56	103	2·31	May 30
Mbale	1° 06′ N	34° 11′ E	4,000	83·7	61·2	94·4	November 22	55·0	August 17 ..	47·04	180	2·64	April 2
Fort Portal ..	0° 40′ N	30° 17′ E	5,050	77·3	55·0	84·4	February 2 ..	43·9	July 15 ..	66·37	178	4·30	Sept. 14
Mubende	0° 35′ N	31° 22′ E	5,128	75·4	60·6	83·0	Jan., 31, Feb. 7	55·0	July 31 ..	50·18	129	2·22	Aug. 24
Budo	0° 16′ N	32° 29′ E	4,300	75·4	62·3	82·0	March, May Aug., Nov.	56·0	Dec. 18, 19, 20, 21	55·46	135	2·88	April 25
Bukalasa	0° 43′ N	32° 30′ E	3,700	82·7	61·5	92·0	Feb., March, Nov., Dec.	54·0	July 14 ..	53·36	154	2·09	April 19
Kampala Government Plantation	0° 19′ N	32° 35′ E	3,900	80·8	60·6	88·0	Nov. 22 ..	52·0	July 11 ..	55·51	164	2·22	April 20
Jinja	0° 26′ N	33° 12′ E	3,879	81·3	63·4	90·0	Nov. 22, 23 ..	57·0	August 18 ..	47·14	126	2·80	Jan. 23
Budini	0° 56′ N	33° 31′ E	3,500	86·7	63·5	96·0	Mar. Nov. Dec.	56·0	July 14 ..	51·25	161	2·77	Jan. 7
Tororo	0° 40′ N	34° 10′ E	4,045	82·7	61·5	90·1	Feb. 5, Nov. 20, 21	56·0	August 28 ..	54·25	166	2·51	Mar. 13
Mbarara	0° 37′ S	30° 39′ E	4,721	79·0	57·7	88·0	November 18..	50·0	August 2 ..	35·69	122	1·87	Feb. 13
Masaka	0° 20′ S	31° 44′ E	4,327	77·2	61·0	87·0	February 5 ..	56·1	June 25 ..	52·16	150	3·27	April 19
Kabale	1° 15′ S	29° 59′ E	6,139	..	50·6	..	..	37·0	August 15 ..	48·93	172	2·27	Jan. 4

Summary of Meteorological Observations at Kololo Hill, Kampala, During the Year 1936.

Latitude 0°20′ N. Longitude 32°36′ E. Altitude 4,306 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, 8-30.					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	25·703	25·617	66·7	75·7	63·1	64·0	0·582	0·602	0·079	0·295	88	67	7·5	7·4	1	2	5	11	12	68·1	2·68	0·58	5	17	19
FEBRUARY	25·709	25·617	67·0	76·2	64·6	64·8	0·614	0·617	0·050	0·295	92	68	8·3	7·8	0	1	4	12	12	66·8	2·63	1·03	6	14	13
MARCH	25·703	25·614	69·2	78·6	64·9	64·9	0·620	0·623	0·100	0·363	86	63	6·3	5·7	1	6	9	7	8	181·6	7·15	1·59	31	16	12
APRIL	25·723	25·638	67·0	74·5	64·9	64·9	0·620	0·623	0·044	0·236	93	73	6·9	5·9	0	3	10	11	6	377·7	14·87	2·91	20	21	15
MAY	25·718	25·644	69·9	76·3	65·8	65·3	0·641	0·629	0·097	0·283	87	69	7·0	6·7	0	2	12	12	5	64·5	2·54	0·69	15	11	8
JUNE	25·765	25·703	66·4	72·9	62·6	62·6	0·573	0·573	0·080	0·242	88	70	8·0	7·3	0	0	3	19	8	138·9	5·47	1·98	3	16	15
JULY	25·777	25·721	66·0	74·4	62·1	60·6	0·561	0·534	0·083	0·325	87	62	6·9	7·3	1	4	9	9	8	19·3	0·76	0·40	11	10	8
AUGUST	25·747	25·676	66·2	74·3	61·9	61·9	0·558	0·558	0·091	0·298	86	65	6·2	7·1	3	3	10	7	8	43·2	1·70	0·42	19	13	12
SEPTEMBER	25·744	25·656	67·4	74·6	63·5	63·5	0·590	0·590	0·009	0·275	87	68	6·9	7·2	3	1	7	13	6	89·4	3·52	0·72	14	16	15
OCTOBER	25 726	25·629	70·0	75·3	63·9	64·4	0·599	0·608	0·139	0·278	81	69	5·5	6·9	4	6	6	14	1	87·6	3·45	0·83	26	17	17
NOVEMBER	25·709	25·611	70·8	78·1	62·8	63·1	0·576	0·582	0·186	0·387	76	60	6·8	6·5	1	3	9	14	3	91·7	3·61	1·32	24	14	9
DECEMBER	25·703	25·614	69·0	76·6	61·5	62·4	0·552	0·570	0·165	0·354	77	62	6·8	6·8	4	0	8	14	5	112·8	4·44	2·32	20	15	7
Year ..	25·727	25·645	68·0	75·6	63·5	63·5	0·591	0·592	0·100	0·303	86	66	6·9	6·8	18	31	92	143	82	1341·6	52·82	2·91	April 20th	180	150

† 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.		
	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	Range. Max.	Range. Min.	Range. Mean.	Fog.	Mist.	Good Vis.
													mph.	mph.	F.		F.		F.	F.	F.	F.	F.	F.			
JANUARY	2	4	3	6	4	8	1	0	3	25	3	0	6	10	82·8	31	58·8	24	78·8	63·3	71·1	19·1	10·2	15·5	1	2	28
FEBRUARY	4	2	1	3	5	2	5	5	2	25	2	0	6	11	85·1	4	59·0	6	78·3	63·7	71·0	24·5	6·0	14·6	3	0	26
MARCH	0	2	1	2	14	2	5	3	2	26	3	0	9	14	85·1	10	58·6	3	80·6	63·9	72·3	22·5	12·1	16·7	0	1	30
APRIL	2	2	3	4	6	9	4	0	0	20	10	0	11	12	81·0	24	59·7	27	77·5	63·3	70·4	18·2	9·7	14·2	1	0	29
MAY	2	0	2	3	15	7	1	1	0	24	7	0	8	15	81·9	27	61·7	15	78·6	64·9	71·7	18·7	7·7	13·7	0	0	31
JUNE	3	0	3	3	11	6	3	0	1	21	8	0	10	17	80·2	2	58·1	4	75·4	62·2	68·8	19·9	7·9	13·2	0	0	30
JULY	5	2	3	1	7	5	2	6	0	28	3	0	8	16	84·0	28	58·3	31	76·6	62·1	69·3	22·1	6·6	14·5	2	14	15
AUGUST	16	5	1	1	2	1	1	4	0	23	8	0	9	13	84·2	7	58·3	17	78·3	61·5	69·9	24·1	10·8	16·8	1	10	20
SEPTEMBER	8	6	4	2	0	3	1	6	0	26	4	0	8	10	85·3	27	58·3	26	78·8	62·1	70·5	23·4	6·6	16·7	1	1	28
OCTOBER	8	6	4	1	2	1	3	6	0	30	1	0	6	11	84·2	10	60·8	25	80·6	63·3	71·9	21·8	12·6	17·3	0	0	31
NOVEMBER	2	7	6	2	6	3	2	1	1	29	0	0	4	10	86·4	23	60·8	11	81·3	64·0	72·7	22·0	9·2	17·3	0	0	30
DECEMBER	4	2	3	3	7	5	4	2	1	26	4	0	7	13	85·8	11	59·0	21	79·7	63·7	71·7	22·8	10·1	16·0	0	4	27
Year ..	56	38	34	31	79	52	32	34	10	303	53	0	7·7	12·7	86·4	Nov. 23rd	58·1	June 4th	78·7	63·2	70·9	24·5	6·0	15·5	9	32	325

Summary of Meteorological Observations at Entebbe During the Year 1936.

Latitude 0° 04′ N. Longitude 32° 29′ E. Altitude 3,878 ft. Standard time 2h. 30m. East. Reference Number 89·3202.

Month.	Atmospheric Pressure. †		Temperature.				Vapour Pressure.		Saturation Deficit.		Relative Humidity.		Total Cloud Amt.		Number of Occasions of Cloud Amounts, 8-30.					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	26·084	25·995	67·4	75·7	64·4	66·0	0·608	0·647	0·071	0·251	90	72	8·1	6·2	1	3	3	7	17	117·1	4·61	1·39	3	19	7
FEBRUARY	26·090	25·995	68·0	75·1	65·1	66·9	0·626	0·664	0·065	0·213	91	76	9·1	7·4	0	0	3	8	18	112·8	4·44	1·61	16	17	4
MARCH	26·078	25·989	69·8	77·7	66·0	66·9	0·643	0·664	0·092	0·292	88	69	6·8	5·6	1	4	9	7	10	214·1	8·43	1·28	2	16	2
APRIL	26·102	26·016	68·3	74·0	64·8	65·7	0·617	0·638	0·083	0·207	88	76	8·7	6·6	0	2	2	8	18	417·1	16·42	4·20	18	24	2
MAY	26·093	26·022	71·2	76·3	66·0	66·6	0·646	0·658	0·125	0·254	84	72	7·5	5·5	0	1	8	17	5	154·7	6·09	1·48	1	17	2
JUNE	26·140	26·078	68·2	73·9	63·1	64·4	0·584	0·608	0·109	0·236	84	72	8·5	6·6	0	1	3	12	14	336·0	13·23	2·34	4	22	0
JULY	26·152	26·099	67·9	73·6	62·1	63·5	0·561	0·591	0·124	0·245	82	71	6·8	6·1	0	4	10	7	10	90·9	3·58	1·07	5	11	0
AUGUST	26·119	26·051	67·3	75·1	62·2	63·3	0·564	0·587	0·109	0·290	84	67	6·7	5·4	0	6	10	3	12	37·6	1·48	1·10	2	5	0
SEPTEMBER	26·119	26·037	68·2	74·8	63·0	63·9	0·579	0·599	0·115	0·272	83	69	6·6	6·0	0	7	7	7	9	46·2	1·82	0·54	13	10	6
OCTOBER	26·104	26·007	70·2	77·7	63·9	64·6	0·599	0·614	0·145	0·343	81	64	6·8	6·1	0	6	7	8	10	93·2	3·67	2·14	27	10	3
NOVEMBER	26·087	25·995	69·6	77·8	63·9	64·9	0·599	0·620	0·130	0·337	82	65	7·1	4·9	0	5	6	8	11	135·4	5·33	1·80	6	12	0
DECEMBER	26·080	25·992	68·4	76·3	64·2	63·9	0·596	0·599	0·104	0·313	86	66	7·2	5·6	4	2	4	7	14	95·0	3·74	1·08	20	16	1
Year ..	26·104	26·023	68·7	75·7	64·1	65·1	0·602	0·624	0·106	0·271	85	70	7·5	6·0	6	41	72	99	148	1850·1	72·84	4·20	April 18th	179	27

† 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	5	2	1	2	4	2	8	5	2	26	3	0	5	12	82·0	5	57·2	12	77·8	63·0	70·4	21·0	8·0	14·7	1	3	27
FEBRUARY	5	1	1	5	2	0	5	10	0	25	4	0	7	10	81·2	6	61·3	11	77·0	64·2	70·6	17·6	5·1	12·8	1	2	26
MARCH	6	1	1	5	3	3	7	5	0	31	0	0	6	11	82·4	23	60·7	31	79·2	64·1	71·7	19·0	9·1	15·1	0	4	27
APRIL	4	1	1	4	5	3	6	6	0	29	1	0	6	9	80·7	24	60·4	19	77·0	63·8	70·4	16·8	7·0	13·2	0	4	26
MAY	2	3	0	9	4	6	5	2	0	30	1	0	5	10	80·3	29	62·2	15	78·1	65·0	71·5	16·5	9·4	13·1	0	2	29
JUNE	1	0	1	6	7	5	6	0	4	24	2	0	5	7	79·8	1	59·7	28	75·9	62·9	69·4	16·2	8·0	13·0	0	4	26
JULY	7	4	2	2	5	2	7	2	0	31	0	0	3	5	81·1	28	59·0	31	75·8	61·8	68·8	18·1	6·2	14·0	0	2	29
AUGUST	16	3	1	3	1	0	1	6	0	31	0	0	3	5	84·0	18	58·0	15	77·6	61·7	69·7	24·0	10·0	15·9	0	0	31
SEPTEMBER	15	3	1	2	2	0	6	1	0	30	0	0	3	5	81·4	25	59·0	26	77·6	62·4	70·0	20·9	4·7	15·2	0	0	30
OCTOBER	13	3	1	2	2	2	3	5	0	31	0	0	3	6	83·2	11	60·0	2	80·1	63·7	71·9	21·6	12·0	16·3	0	1	30
NOVEMBER	14	1	1	0	5	1	4	4	0	30	0	0	3	6	83·0	22, 24	60·0	19	79·9	63·7	71·8	22·0	9·0	16·2	0	1	29
DECEMBER	7	3	1	0	2	4	6	8	0	31	0	0	4	8	82·0	10	60·0	22	77·8	63·0	70·4	20·8	7·8	14·8	0	2	29
Year ..	95	25	12	40	42	28	64	54	6	349	11	0	4·4	7·8	84·0	Aug. 18th	57·2	Jan. 12th	77·8	63·3	70·5	24·0	4·7	14·5	2	25	339