

ANNUAL WEATHER REPORT FOR 1948

Rainfall.

The rainfall for the year at the Experiment Station, Mount Edgecombe, was 38.66 inches, which is appreciably above the 23 years' average of 36.53 inches. However, the distribution of the rainfall left much to be desired, the greater part of the normal dry season being subject to the most severe drought on record at this station, or at Natal Estates, for which records go back 62 years.

Thus the total rainfall from May to September inclusive was only 1.52 inches, the 23-year average for this period being 8.61 inches. The average number of rain days over this period is 29, or 0.297 inch per rain day; but this year there were only 17 rain days with an average fall of no more than 0.089 inch per rain day.

The rainfall for the six months of the rainy season, January, February, March, October, November and December, whose total average rainfall is 25.33 inches, was this year 32.16 inches, only December being slightly below its average. April also had a heavy rainfall, 4.98 inches, its average rainfall being 2.59 inches.

Thus the growing months of the year for sugarcane from January to the end of April, and the planting and growing months of the last quarter of the year, had excellent rains. But the intervening drought of

May to September severely hampered the progress of the young cane, and towards the end of the period had a prejudicial effect on the composition and survival of the two-year cane being harvested.

The highest rainfall for any single day was 2.76 inches on October 9th. Other days with over 2 inches of rain were October 8th with 2.25 inches, November 9th with 2.39 inches and March 19th with 2.08 inches. There were seven days with a rainfall of between one and two inches, three in February, and one each in January, March, April and December.

October was the wettest month of the year with a total of 7.48 inches. The total rainfall for the six days ending 11th October was 5.52 inches, the highest for any series of consecutive days since the three days ending 1st April, 1946, when the total rainfall was 6.11 inches.

At the other extreme, no rainfall at all was recorded for June; only once before, in August, 1946, was no measurable rainfall recorded for the whole of a calendar month.

There was no rain between May 15th and July 2nd, when a slight fall was recorded, after which no rain fell except for one or two trifling showers from August 8th onward, the next rain of any consequence being 0.48 inch. on September 18th.

The rainfall at the Experiment Station, tabulated by months and compared with the averages of the past 23 years, is as follows:—

	1948.					Mean 1926-1948 inclusive.					
	Total for month inches.	Aggregate from 1st January	Per cent. of average aggregate.	No. of rain days.	Average rainfall per rain day in ins.	Total for month in ins.	Aggregate from 1st January.	No. of rain days.	Average rainfall per day.	Per cent. of wet days.	Average rainfall per rain day.
January ...	5.12	5.12	134.0	17	0.301	3.82	3.82	14	0.123	45	0.273
February ...	5.89	11.01	128.6	11	0.535	4.74	8.56	12	0.168	42	0.395
March ...	5.26	16.27	118.7	16	0.329	5.15	13.71	12	0.166	39	0.429
April ...	4.98	21.25	130.4	14	0.356	2.59	16.30	8	0.086	27	0.324
May ...	0.21	21.46	115.7	4	0.053	2.25	18.55	5	0.073	16	0.450
June ...	0.00	21.46	104.8	0	0.000	1.90	20.45	4	0.063	13	0.475
July ...	0.30	21.76	100.0	1	0.300	1.32	21.77	4	0.043	13	0.330
August ...	0.26	22.02	95.9	7	0.037	1.19	22.96	5	0.038	16	0.238
September .	0.75	22.77	91.4	5	0.150	1.95	24.91	8	0.065	27	0.244
October ...	7.48	30.25	107.3	17	0.440	3.27	28.18	14	0.105	45	0.234
November .	4.62	34.87	107.6	16	0.289	4.22	32.40	14	0.141	47	0.301
December...	3.79	38.66	105.8	14	0.271	4.13	36.53	15	0.133	48	0.275
Total... ..	38.66	105.8	122	0.317	Mean	36.53	117	0.100	32	0.312	

Table of Rainfall and Mean Temperature.

Year.	Rainfall in inches.	Per cent. of present mean.	Number of rain days.	Average fall per rain day.	Mean shade temperature.
1926 ...	25.42	69.80	116	0.219	—
1927 ...	42.46	116.58	128	0.332	—
1928 ...	27.56	75.67	114	0.242	67.8
1929 ...	43.83	120.35	129	0.340	67.5
1930 ...	30.03	82.45	123	0.244	67.8
1931 ...	28.01	76.91	112	0.250	68.8
1932 ...	41.36	113.56	126	0.328	69.2
1933 ...	27.14	74.52	109	0.249	68.9
1934 ...	39.42	108.24	127	0.310	68.9
1935 ...	53.25	146.21	111	0.480	66.8
1936 ...	45.36	124.55	110	0.412	67.9
1937 ...	33.21	91.19	101	0.329	68.8
1938 ...	37.97	104.26	117	0.325	68.7
1939 ...	42.87	117.71	134	0.320	68.1
1940 ...	37.31	102.44	108	0.345	69.9
1941 ...	24.35	66.86	107	0.227	69.9
1942 ...	45.41	124.68	116	0.391	69.4
1943 ...	51.32	140.91	124	0.414	68.2
1944 ...	30.32	83.25	105	0.289	69.5
1945 ...	28.50	78.25	105	0.271	68.9
1946 ...	29.55	81.14	110	0.269	69.4
1947 ...	36.74	100.88	131	0.280	68.9
1948 ...	38.66	105.83	122	0.317	69.0
Means	36.53	100.00	117	0.312	68.7

The rainfall this year has established February as the wettest month of the year, having the highest average rainfall per day over the past 23 years; although March still has the highest average total rainfall because of the greater number of days.

The number of rain days at the Experiment Station during the year was 122, slightly higher than the mean of 117; the average fall per rain day was 0.317 inch, which is very close to the 23-year average of 0.312 inch, and contrary to the records of the preceding four years, whose average falls per rain day were considerably less.

Rainfall Returns from other Recording Stations.

The rainfall results by districts contain many unusual results. The total average from the 44 stations contributing rainfall figures is 35.25 inches, or only 86.4 per cent. of the 23-year average of 40.78 inches.

The shortfall was, however, very largely confined to the area north of Mount Edgecombe, and was by far the most severe north of the Tugela.

The figures, based on the usual classification of records in these reports, are:—

	Average rainfall for 1948 in inches.	Average for years 1929-1948 inclusive in inches.	1948 rainfall as per cent. of average.
South Coast: mean of 9 stations south of the Umgeni River	41.18	41.66	98.8
North Coast: mean of 21 stations between the Umgeni and the Tugela	36.58	39.61	92.4
Zululand: mean of 14 stations north of the Tugela River.	30.23	41.98	72.0
Total averages	35.25	40.78	86.4

However, eight out of the nine stations immediately north of the Illovo River actually had rainfalls appreciably above their 23-year average of 39.22 inches, which this year was 41.71 inches. The only one of these to have a rainfall of less than average was Durban (Point), all stations near the sea having marked deficiency of rainfall this year.

The few stations in the small area between Mount Edgecombe and the Umhloti River had mostly a rainfall only slightly below their average, but the next ten stations northwards, between the Umhloti and Tugela Rivers, had an average rainfall of only 32.52 inches compared with their average of 41.03 inches.

Every station in Zululand had a rainfall much below the average, in many cases the lowest rainfall since the extremely dry year of 1941, and in the case of Amatikulu the lowest since 1931.

The stations where the deficiency was most marked were Riverview, Amatikulu, Mandeni, Gingindhlovu and Kulu, where the rainfall was only 58.4, 64.6, 67.0, 68.7 and 69.9 per cent. of their averages respectively.

The only station in Zululand with a rainfall of over 40 inches in 1948 was Felixton with 41.40 inches, while there were ten stations with over 40 inches in the area from Mount Edgecombe to the south.

The highest rainfall recorded at any station for 1948 was 44.29 inches at Westbrook, one of the sections of Natal Estates Ltd.; the average rainfall here is 40.97 inches. The second highest rainfall is 43.95 inches at Umbogintwini, and the third highest 42.89 inches at Effingham, having an average of no more than 32.90 inches, the lowest of any of our stations; hence the 1948 rainfall there was 130.4 per cent. of the average.

The lowest rainfall recorded for 1948 is 19.98 inches at Riverview, the most northerly station, where the average is 34.20 inches.

Other rainfalls of less than 26 inches are 25.20 inches at Empangeni West, where the average is

36.13 inches, and 25.21 inches at Amatikulu, having an average of 39.01 inches.

This is the first time that Westbrook, or any station with an average of less than 42 inches, has recorded the highest rainfall, except Umbogintwini in 1947.

In previous years Eshowe and Mtunzini have each gained the highest rainfall on six occasions; these are the only stations to have an average of over 50 inches. The distinction has also been gained twice by Port Shepstone, and one each by Durban, Umhlali, Kulu, Umbogintwini and Felixton.

Temperatures.

The mean screen temperature at the Experiment Station for 1948 was 69.0°, or slightly above the 23-year average of 68.7°. Summer temperatures were unusually low, each of the first four months, as well as that of the preceding December, being below the average; this was no doubt due to the abundant summer rains. Every month from May to October was above the average in temperature, associated with the remarkably low rainfall that prevailed up to the second week in October.

The highest shade temperature was 103° on September 11th; the only other abnormally high temperature was 100° on October 29th. There was one day of 91.5° in July, and another in September, and two successive days of 90.5° in August; but these were the only other shade temperatures of 90° or more during the year.

There were no particularly low temperatures recorded, the lowest screen temperature for the year and the only one under 45° being 44.5° on July 30th.

Following the atmospheric temperatures, the soil temperatures were below the average until June, when they remained for the most part higher than the average until November and December, when they were lowered by the abundant rains of October and November.

These records show that, as usual, it would have been profitable to irrigate sugarcane for increased growth every month excepting July, August and September, and particularly so during any dry spells in January, February, March, April and December.

As usual, February was the warmest month of the year and July the coolest.

Following are the screen temperatures by months in degrees Fahrenheit at the Experiment Station:—

	1948.					1928-1948 inclusive.			
	Maxi-mum.	Mini-mum.	Mean.	Plus or minus average.	Daily range.	Maxi-mum.	Mini-mum.	Mean.	Daily range
January ..	78.4	66.0	72.7	-1.4	12.4	81.2	67.0	74.1	14.2
February .	80.7	67.3	74.0	-0.6	13.4	81.8	67.4	74.6	14.4
March ..	79.5	66.1	72.8	-0.2	13.4	80.2	65.7	73.0	14.5
April . . .	77.2	61.5	69.4	-0.8	15.7	78.3	62.0	70.1	16.3
May	77.8	58.6	68.2	+1.8	19.2	75.9	56.9	66.5	19.0
June	75.5	53.0	64.2	+1.5	22.5	72.7	52.6	62.7	20.1
July	74.0	51.6	63.1	+1.3	23.0	72.1	51.7	61.9	20.4
August ..	75.0	55.0	65.3	+1.8	20.6	73.3	53.9	63.6	19.4
September	76.5	56.1	66.3	+0.5	20.4	74.5	57.0	65.8	17.5
October ..	76.9	61.7	69.3	+0.9	15.2	76.1	60.8	68.4	15.3
November.	76.5	62.7	69.6	-1.1	13.8	78.1	63.3	70.7	14.8
December .	79.9	66.1	73.0	0.0	13.8	80.3	65.6	73.0	14.7
Means ..	77.5	60.5	69.0	+0.3	17.0	77.0	60.3	68.7	16.7

Atmospheric Conditions.

The mean true atmospheric pressure for the year was 29.75 inches, the same as for 1947; July had very slightly the highest average, 29.88 inches, and December the lowest with 29.62 inches. As also in 1947, the maximum barometer reading was 30.31 inches in September, but this year on the 2nd. The lowest reading was 29.20 inches on October 29th.

The mean relative humidity of the atmosphere per cent. of saturation was 75.2 at 8 a.m. and 62.2 at 2 p.m., which vary somewhat from the mean of past years, but the time of recording has been changed somewhat at the desire of the Union Government Meteorological Office.

The total evaporation from a free water surface was 44.81 inches for the year, which is 1.76 inches below the average and the lowest since 1939. The rainfall exceeded the evaporation during the months of January to April inclusive and October. As usual, January and December had the highest rates of evaporation, 4.91 and 4.87 inches respectively, and this year May with 2.49 inches the lowest, instead of June.

The total hours of sunshine during the year were 2,347, or 53.6 per cent. of total hours of daylight, which is slightly below the average. As usual, May had the most sunshine, 222.5 hours this year, but June this year had a slightly higher percentage, 72.1. December had the lowest total sunshine, 163.7 hours or 38.4 per cent. of daylight, the lowest proportion for any month since October, 1943, when it was 31.1 per cent.

The winds generally followed the usual seasonal changes in force and direction, but were unusually strong during September, which may have had some effect in bringing about the sudden change from drought to rainy conditions in early October.

Conclusions.

Like most of the stations to the south, and unlike those to the north, Mount Edgecombe had a rainfall for the year somewhat above the average, largely due to heavy local rains in October. The distribution was in certain respects unsatisfactory, and there was a drought of record length and severity from May to September.

Unlike most years, Zululand and the coastal regions north of the Umhloti recorded rainfalls in 1948 much lower than those of the central and southern districts. The deficiency of rainfall at many

Zululand stations was the most severe for several years.

The mean temperature for the year was slightly above the average; the summer temperatures were below the average, but those of the winter months were considerably above.

Atmospheric conditions did not greatly differ from normal; the relative humidity on the whole was somewhat high and the rate of evaporation rather low.

The outstanding phenomenon of the year was the prolonged and severe winter drought.

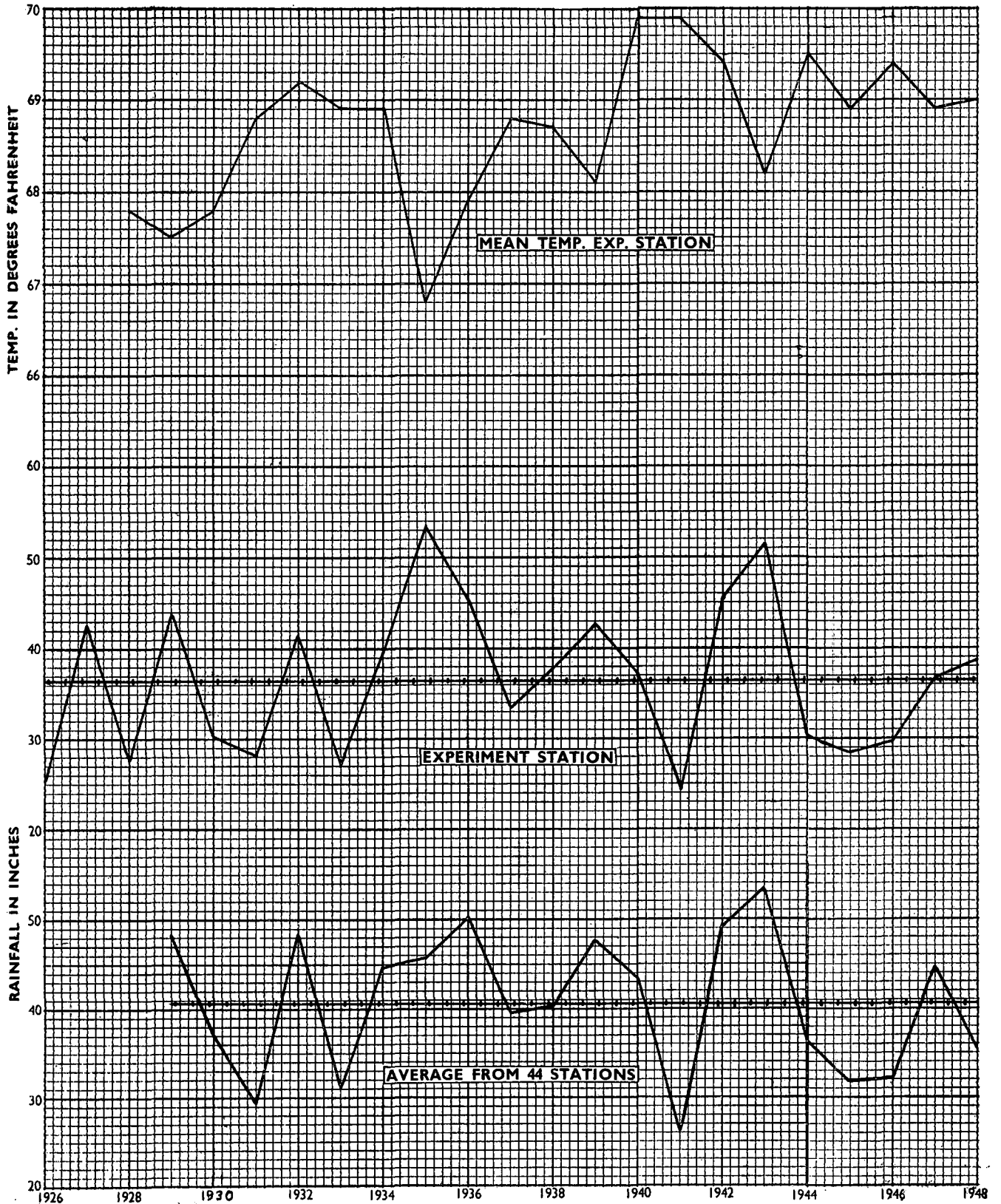
ANNUAL RAINFALL 1929-1948.

Station.	Recorder.	1929.	1930.	1931.	1932.	1933.	1934.	1935.	1936.	1937.	1938.	1939.	1940.	1941.	1942.	1943.	1944.	1945.	1946.	1947.	1948.	Average
Port Shepstone ..	Lightkeeper, S.A.R. & H. . . .	61.89	42.82	51.06	40.71	40.58	38.55	42.01	49.68	38.25	42.52	44.08	27.66	23.12	54.16	51.65	31.24	33.43	37.14	48.19	38.24	42.29
Umzumbi ..	A. H. G. Blamey*	56.28	34.95	40.31	42.04	36.35	37.50	43.66	51.24	40.63	42.82	42.86	27.74	23.78	51.98	44.86	26.93	31.51	36.61	47.78	39.60	39.97
Esperanza ..	Reynolds Bros., Ltd.**	57.47	42.10	36.13	38.36	32.81	46.13	43.70	44.74	36.14	41.41	47.31	30.48	19.49	44.29	63.04	39.09	35.30	31.16	55.66	42.13	41.38
Renishaw. . . .	Crookes Bros., Ltd.	58.24	37.22	31.86	41.56	34.43	42.17	42.69	46.10	44.40	36.13	46.90	31.83	25.16	43.33	46.74	35.26	24.35	29.63	49.09	38.41	39.27
Park Rynie ..	Ellingham Estate	58.84	39.25	38.94	44.14	37.71	46.53	47.89	52.85	46.10	43.22	56.25	34.46	27.40	47.14	51.25	40.16	31.78	35.30	49.54	42.51	43.56
Illovo ..	Illovo Sugar Estates, Ltd. . . .	49.22	38.12	31.54	36.89	26.94	41.00	39.03	51.65	30.79	43.09	42.22	30.10	26.17	56.12	43.40	30.49	28.85	30.67	53.42	42.14	38.59
Umbogintwini ..	African Explosives & Industries, Ltd.	47.88	42.10	32.42	39.67	36.43	45.59	52.87	53.09	34.78	41.94	48.53	31.26	28.18	51.89	49.16	37.75	31.74	34.91	56.69	43.95	42.04
Durban (Berea) ..	Natal Herbarium	46.87	38.93	31.51	44.74	31.61	42.28	58.08	46.71	36.09	41.23	47.26	38.35	30.06	51.12	52.97	31.30	28.91	32.49	49.68	42.62	41.14
Durban (Point) ..	S.A. Railways & Harbours	59.97	38.92	43.68	49.45	34.42	47.45	60.93	56.85	45.84	41.89	62.57	40.99	34.95	58.91	61.86	34.04	28.63	38.91	52.55	41.03	46.69
Effingham ..	Natal Estates, Ltd.	33.52	26.17	21.33	30.56	19.63	30.57	46.86	42.28	28.25	32.40	35.33	26.75	22.15	42.90	43.83	29.80	29.03	28.85	44.77	42.89	32.90
Westbrook ..	Natal Estates, Ltd.	46.97	33.01	27.03	45.62	31.18	38.49	55.06	52.14	33.56	41.68	45.75	40.05	29.09	52.43	60.15	37.04	33.78	31.18	40.87	44.29	40.97
Milkwood Kraal ..	Natal Estates, Ltd.	35.60	26.90	23.17	33.05	22.15	31.96	43.07	36.45	23.49	34.98	36.24	34.97	23.02	45.03	48.46	27.35	26.70	27.83	40.99	37.99	32.96
Mount Edgecombe ..	Natal Estates, Ltd. (Mill)	48.30	34.52	32.98	40.19	30.94	40.03	57.41	49.60	36.55	43.13	46.06	40.23	28.34	51.66	55.40	32.66	30.31	30.66	40.93	41.59	40.50
Mount Edgecombe ..	S.A.S.A. Experiment Station	43.83	30.03	28.01	41.36	27.14	39.42	53.25	45.36	33.21	37.97	42.87	37.31	24.35	45.41	51.32	30.32	28.50	29.55	36.74	38.66	37.24
Cornubia ..	Natal Estates, Ltd.	46.22	33.45	27.85	42.53	29.98	40.25	59.21	52.27	40.37	44.84	51.66	42.80	30.66	53.17	59.51	35.15	34.78	29.25	43.42	41.90	41.97
Burnside ..	Natal Estates, Ltd.	46.01	31.78	27.01	38.79	27.55	39.61	53.26	47.48	34.01	39.76	48.67	44.91	29.54	50.68	56.39	33.71	32.29	31.81	42.45	39.95	39.78
Blackburn ..	Natal Estates, Ltd.	48.97	34.09	23.78	37.52	24.94	33.94	48.78	43.67	34.70	35.45	49.84	36.99	22.68	43.48	51.96	29.73	28.49	27.98	35.50	35.00	36.38
Beach ..	Natal Estates, Ltd.	56.49	39.25	30.15	51.64	31.53	43.18	59.09	49.19	38.62	44.24	54.88	40.81	28.76	48.74	49.53	33.07	37.26	32.79	48.20	36.81	42.46
Saccharine ..	Natal Estates, Ltd.	48.73	32.82	29.76	38.37	29.22	42.38	51.95	55.98	32.07	36.91	42.05	38.41	23.73	46.57	51.70	34.14	32.04	28.83	40.84	36.05	38.62
Ottawa ..	Natal Estates, Ltd.	40.38	29.21	24.49	34.72	28.72	39.08	47.55	44.66	47.32	37.83	41.95	39.18	22.16	52.57	55.35	32.65	27.16	31.69	40.03	36.81	37.67
La Mercy ..	Gersigny Bros.	53.37	36.40	29.26	56.65	31.16	37.64	56.27	45.65	35.17	45.36	49.41	42.63	25.26	53.89	50.86	32.34	31.39	34.87	39.50	34.21	41.06
Tongaat ..	Tongaat Sugar Co., Ltd.	50.55	34.28	29.88	48.79	26.59	38.44	47.54	50.87	35.61	40.85	44.67	40.87	22.72	55.67	53.08	31.37	30.75	33.90	39.84	31.14	39.37
Sinembe ..	H. C. Heenan	49.78	37.02	30.36	52.71	38.64	49.99	41.84	56.80	35.17	42.07	45.80	43.53	25.25	51.64	50.42	34.15	30.86	33.48	47.21	32.58	41.46
Umhlali ..	G. P. Ladlau	50.38	40.07	20.09	49.85	35.13	41.20	53.61	56.57	40.29	56.88	58.14	39.72	29.49	54.71	52.60	37.16	34.25	37.12	43.93	34.67	43.74
Chaka's Kraal ..	Waldene Sugar Estate	42.78	33.06	22.52	43.09	30.14	35.09	43.38	46.74	32.87	38.40	42.27	30.81	21.78	47.42	44.33	31.01	32.15	30.67	39.01	31.31	35.94
Tinley Manor ..	Sir J. L. Hulett & Sons, Ltd. . . .	51.36	33.22	30.97	47.44	35.44	41.20	50.97	56.83	38.38	46.35	48.93	41.16	24.37	47.73	47.78	32.49	27.46	32.59	45.08	33.38	40.66
Riet Valley ..	H. E. Essery	50.07	35.65	25.38	54.64	37.98	47.70	44.33	65.99	35.28	41.96	51.39	45.90	27.37	54.75	61.35	39.17	36.31	33.68	45.75	31.98	43.33
Kearney ..	Sir J. L. Hulett & Sons, Ltd. . . .	49.20	43.36	26.31	55.49	37.45	53.57	38.42	64.34	39.73	44.30	47.46	50.80	31.91	49.74	58.02	37.05	32.67	39.18	47.95	34.22	44.06
Darnall ..	Mrs. Mann	40.75	37.36	23.03	44.14	25.45	49.91	44.04	56.32	40.68	45.56	44.65	48.48	25.49	48.19	54.84	43.26	34.88	32.28	46.62	31.17	40.85
Darnall ..	Sir J. L. Hulett & Sons, Ltd. . . .	42.38	40.63	24.31	52.27	29.22	48.24	40.23	52.09	39.75	43.74	43.80	47.10	25.27	46.02	52.45	38.59	28.46	30.58	41.27	30.54	39.85
Mandini ..	St. Andrews Estate	42.05	40.41	24.40	50.98	27.41	55.34	45.88	51.25	35.34	40.86	38.34	41.01	26.70	48.91	56.67	41.28	30.24	30.41	47.18	26.84	40.07
Amatikulu ..	Sir J. L. Hulett & Sons, Ltd. . . .	42.23	40.80	21.09	47.16	29.86	47.66	43.41	47.86	35.38	37.24	47.53	50.40	27.80	48.87	55.37	39.08	28.45	26.34	38.61	25.21	39.01
Gingindhlovu ..	P. C. Lilburn	42.42	47.72	24.60	53.85	33.08	50.91	53.16	52.68	39.62	40.10	54.12	53.75	30.35	56.40	62.73	47.02	36.28	29.98	42.55	30.28	44.08
Mtunzini ..	R. D. Shaw	42.57	48.99	32.92	61.97	40.03	59.28	53.02	55.62	43.57	44.23	65.11	62.16	39.08	60.31	66.31	53.71	50.98	39.63	50.17	39.95	50.48
Eshowe ..	District Forest Officer	49.97	44.26	30.36	65.05	47.31	71.85	46.18	66.61	47.56	46.40	52.55	70.67	36.57	47.44	68.80	50.17	46.40	41.57	52.04	37.37	50.91
Felixton ..	Sir J. L. Hulett & Sons, Ltd. . . .	59.39	44.57	38.03	69.08	31.43	58.72	50.16	58.71	51.96	38.62	54.99	61.15	30.08	53.45	52.48	48.62	37.62	39.40	56.43	41.40	48.82
Empangeni West..	W. H. Simpson	51.61	36.82	20.56	48.32	22.92	41.08	36.40	36.62	39.10	32.93	47.01	41.24	24.50	40.74	48.47	38.05	28.64	25.00	37.62	25.20	36.13
Empangeni ..	Morris Bros.	46.05	33.56	30.35	49.58	27.72	45.60	37.28	47.54	45.31	35.99	52.02	53.46	26.79	48.11	54.13	44.67	33.98	33.13	50.85	31.78	41.39
Empangeni ..	Zululand Sugar Millers & Plant- ers.	48.95	33.80	31.98	55.34	29.55	48.72	38.18	49.48	47.87	33.49	51.79	53.11	24.54	45.06	50.05	39.56	30.78	33.21	50.88	31.85	41.41
Kulu Halt ..	S. B. Forrest	51.94	37.44	25.96	66.55	30.15	48.26	35.03	48.39	56.80	36.95	52.91	57.61	23.97	52.28	55.73	43.02	32.45	31.75	50.74	30.35	43.41
Mposa ..	W. Springorum	45.80	37.83	24.29	59.33	25.43	46.45	29.59	46.81	51.80	33.08	47.63	51.62	20.58	43.56	44.64	34.04	29.49	28.05	42.86	27.79	38.53
Kwambonambi ..	S. Larsen	55.97	42.99	28.14	64.34	29.35	64.21	34.27	41.64	49.37	33.42	42.91	53.82	20.81	47.01	50.75	36.50	28.38	27.44	39.43	28.04	40.94
Eteza ..	Haworth Bros.	41.27	36.86	31.27	59.48	29.85	44.05	25.73	42.21	49.95	35.98	41.26	61.81	22.04	41.15	54.36	33.55	26.90	24.47	36.29	27.12	38.28
Riverview ..	Umfolozo Co-op. Sugar Planters, Ltd.	34.65	38.45	22.38	51.29	25.05	37.36	21.44	35.08	39.45	36.33	39.93	54.95	16.45	38.92	50.42	36.11	33.97	22.83	28.06	19.98	34.20
		48.34	37.30	29.33	48.37	31.15	44.74	45.83	50.13	39.57	40.33	47.68	43.48	26.18	49.40	53.31	36.45	31.99	32.02	44.83	35.25	40.78

* Previous to 1947 rainfall records obtained from the late Mrs. M. G. Lomas.

** Same station but records now kept by Reynolds Bros., Ltd.

ANNUAL RAINFALL AND MEAN TEMPERATURE



RAINFALL AND MEAN TEMPERATURES 1948 —————
 RAINFALL AVERAGES 1926-1948 AND 1929-1948 - - - - -

RAINFALL AND TEMPERATURE AT THE EXPERIMENT STATION BY MONTHS

