

# WEATHER REPORT FOR YEAR 1st JUNE 1954, TO 31st MAY, 1955

By J. L. DU TOIT.

## General

This is the fourth Annual Weather Report dealing with the period 1st June to 31st May the following year and using the monthly rainfall data from fifty-four representative centres within the sugar belt. It is believed that the weather conditions, and particularly the rainfall, of the twelve, eighteen or even twenty-four months preceding and including May will largely determine the crop then to be cut. This report will therefore deal with the weather conditions for the period June 1954 to May 1955, but the rainfall data for the twelve months before June 1954 will also be given as as to get a fairly complete idea of the external influences that affected 1955-56 sugarcane crop which remains a predominantly two-year crop.

## Rainfall Returns from Fifty-Four Centres

As stated in previous reports the fifty-four centres dealt with in this report are so chosen that with the exception of the four most northerly stations, each rainfall recording station is representative of about 2 per cent. of the annual total crop produced. The data are divided into the normal geographic divisions, i.e. South Coast, North Coast and Zululand and further sub-divided into magisterial districts which facilitate a possible correlation later on between rainfall and yield data. The latter is also always divided into the abovementioned categories.

Table I gives the rainfall for the four past years for the fifty-four individual centres and also the total rainfall for the period June 1953 to May 1955.

Table II gives the rainfall by districts and for the three main divisions for each month of the year from June 1954 to May 1955.

Table III gives the mean rainfall distribution for the past thirty-one years, the calculated mean rainfall for the same period and the actual rainfall for the year now under consideration. Evaporation data taken at the Experiment Station, Mount Edgecombe, are also given in the same Table.

Table IV gives the rainfall distribution according to growing periods for the past two years for all magisterial districts and main sub-divisions.

Table V gives the monthly rainfall for the fifty-four centres for the past four years, the evaporation from open water tank at the Experiment Station for the same period and the amount by which the evaporation exceeds the rainfall.

TABLE I

Magisterial District	Rainfall for year 1st June 1951 to 31st May 1952	Rainfall for year 1st June 1952 to 31st May 1953	Rainfall for year 1st June 1954	Rainfall for year 1st June 1955	Rainfall for period 1st June 1953 to 31st May 1955
<b>Port Shepstone—</b>					
Mehlomnyama .. .. .	35.06	40.02	41.61	54.59	96.20
<b>Umzinto—</b>					
Hibberdene .. .. .	35.05	35.92	38.76	48.11	86.87
Umtwalumi .. .. .	31.76	34.11	35.66	41.66	77.32
Sezela Mill .. .. .	46.01	37.08	40.91	50.35	91.26
Esperanza Mill .. .. .	41.93	33.82	40.80	49.72	90.32
Renishaw Mill .. .. .	46.28	30.66	39.22	54.79	94.07
Dumisa .. .. .	32.09	28.95	35.16	37.63	72.79
<b>Durban, Camperdown, etc.—</b>					
Illovo Mill .. .. .	33.12	28.12	31.80	43.80	75.60
Umbumbulu .. .. .	33.14	30.50	31.61	38.72	70.33
Thornville .. .. .	38.67	25.89	36.07	36.11	72.18
<b>Inanda—</b>					
Mount Edgecombe—					
Milkwood Kraal .. .. .	35.38	39.41	37.24	39.04	76.28
Experiment Station .. .. .	37.85	40.15	33.10	42.83	75.93
Beach .. .. .	35.46	41.40	32.55	46.34	78.89
La Mercy .. .. .	37.47	42.55	35.90	49.04	84.94
Canelands .. .. .	32.25	34.86	31.12	41.42	72.54
Tongaat—					
Frosterly .. .. .	36.26	41.64	35.43	47.28	82.71
Inyanya .. .. .	33.48	40.98	33.77	49.04	82.81
Inanda—Tongaat .. .. .	42.90	45.09	43.59	47.21	90.80
Mwawine .. .. .	40.87	44.85	37.53	49.45	86.98
<b>Lower Tugela—</b>					
Maidstone Mill .. .. .	33.23	39.13	37.65	48.20	85.85
Sinembe .. .. .	41.03	35.27	37.47	47.29	84.76
Upper Tongaat .. .. .	47.44	46.57	43.18	52.35	95.53
Fraser's Estate .. .. .	37.76	38.74	35.15	51.68	86.83
Chaka's Kraal Exp. Farm .. .. .	35.07	41.96	38.37	49.50	87.87
Chaka's Kraal .. .. .	43.08	36.96	42.66	51.92	94.58
Groutville .. .. .	41.42	32.72	34.55	45.28	79.83
Kearney .. .. .	41.96	34.04	46.39	57.46	103.85
Doornkop Mill .. .. .	34.70	31.19	40.10	41.84	81.94
Doornkop, Sprinz .. .. .	46.93	43.57	52.21	55.13	107.34
Gledhow Mill .. .. .	40.27	35.31	35.64	55.22	90.86
Darnall Mill .. .. .	40.41	36.65	35.92	53.18	89.10
Tugela Mouth .. .. .	40.66	30.38	42.61	59.11	101.72
<b>Mtunzini—</b>					
Mandeni .. .. .	38.80	28.50	39.74	53.03	92.77
Amatikulu Mill .. .. .	38.61	33.44	41.14	48.08	89.22
Inyoni .. .. .	39.26	34.02	36.34	47.01	83.35
Mtunzini .. .. .	54.33	34.63	58.56	58.65	117.21
Blackburn .. .. .	39.51	37.22	43.23	52.79	96.20
<b>Eshowe—</b>					
Entumeni Mill .. .. .	38.75	31.56	42.82	50.08	92.90
Eshowe .. .. .	36.29	36.22	46.18	55.79	101.97
Nkwaleni .. .. .	24.29	22.53	26.93	38.91	65.84
<b>Lower Umfolozi—</b>					
Felixton Mill .. .. .	40.92	28.07	59.82	63.82	123.64
Empangeni West .. .. .	32.95	26.88	40.04	43.49	83.53
Empangeni Mill .. .. .	44.44	29.16	54.00	54.69	108.69
Logoza .. .. .	37.40	26.17	49.47	51.77	101.24
Ukulu Properties .. .. .	31.77	24.34	44.39	45.99	90.38
Mposa .. .. .	34.71	26.09	45.89	44.14	90.03
Kwarbonambi .. .. .	36.02	29.11	48.10	44.47	92.57
Eteza .. .. .	29.91	34.59	37.84	45.38	83.22
<b>Hlabisa—</b>					
Mtubatuba Mill .. .. .	21.56	25.09	37.92	33.36	71.28
U.L.O.A. .. .. .	34.98	43.05	45.30	46.43	91.73
Nyalazi River .. .. .	25.19	31.61	29.45	44.43	73.88
Hluhluwe .. .. .	19.80	24.29	21.85	36.00	57.85
<b>Uboombo—Mkuzi..</b> .. .. .	17.78	21.24	22.36	26.63	48.99
<b>Piet Retief—Pongola</b> .. .. .	19.23	23.34	25.19	30.76	55.95
<b>Mean</b> .. .. .	<b>36.40</b>	<b>33.88</b>	<b>39.08</b>	<b>47.24</b>	<b>86.32</b>

TABLE II

## Rainfall in Inches by Districts for the Months June, 1954 to May, 1955 inclusive

District	No. of Centres	June	July	1954					1955				Total June 54 to May 55	
				Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.		May
Port Shepstone .. ..	1	1.02	0.28	1.04	5.53	16.11	2.38	1.39	11.41	4.56	8.92	1.48	0.47	54.59
Umqinto .. .. .	6	0.87	0.53	1.24	4.10	13.25	2.27	1.11	9.95	3.46	8.19	1.71	0.38	47.06
Durban, Pinetown, etc.	3	0.55	0.45	0.94	3.21	8.60	2.78	1.82	9.20	4.61	4.80	2.18	0.40	39.54
<b>Mean South Coast ..</b>	<b>10</b>	<b>0.79</b>	<b>0.48</b>	<b>1.13</b>	<b>3.97</b>	<b>12.14</b>	<b>2.43</b>	<b>1.35</b>	<b>9.87</b>	<b>3.92</b>	<b>7.24</b>	<b>1.83</b>	<b>0.40</b>	<b>45.55</b>
Inanda .. .. .	9	0.74	0.45	1.14	4.94	11.04	4.60	1.37	7.92	2.07	7.50	3.48	0.64	45.89
Lower Tugela .. ..	13	1.00	0.40	0.99	4.98	12.80	5.09	2.56	7.84	3.01	7.91	3.47	1.23	51.28
<b>Mean North Coast ..</b>	<b>22</b>	<b>0.89</b>	<b>0.42</b>	<b>1.05</b>	<b>4.97</b>	<b>12.06</b>	<b>4.89</b>	<b>2.07</b>	<b>7.88</b>	<b>2.63</b>	<b>7.74</b>	<b>3.47</b>	<b>0.99</b>	<b>49.06</b>
<b>Mean south of Tugela</b>	<b>32</b>	<b>0.86</b>	<b>0.44</b>	<b>1.08</b>	<b>4.66</b>	<b>12.09</b>	<b>4.12</b>	<b>1.84</b>	<b>8.50</b>	<b>3.03</b>	<b>7.58</b>	<b>2.96</b>	<b>0.81</b>	<b>47.97</b>
Mtunzini .. .. .	5	1.53	0.36	1.07	5.88	10.88	3.68	3.02	8.14	3.30	8.79	3.45	1.92	52.02
Eshowe .. .. .	3	0.64	0.30	0.86	5.35	10.44	3.07	1.99	7.55	4.49	9.12	3.77	0.66	48.24
Lower Umfolozi .. .	8	2.18	0.83	1.01	5.72	10.22	2.00	1.82	6.84	3.30	9.90	3.48	1.92	49.22
Hlabisa .. .. .	4	1.02	0.45	0.84	3.27	7.81	3.11	1.45	7.37	3.90	8.57	1.22	1.05	40.06
Ubombo .. .. .	1	0.03	0.00	0.81	4.32	3.26	2.84	0.59	3.56	3.63	4.82	1.40	1.37	26.63
Piet Retief .. .. .	1	0.00	0.00	0.53	4.45	2.85	3.07	2.11	5.51	1.88	6.39	0.10	3.87	30.76
<b>Mean Zululand and Piet Retief .. .. .</b>	<b>22</b>	<b>1.41</b>	<b>0.50</b>	<b>0.94</b>	<b>5.14</b>	<b>9.31</b>	<b>2.82</b>	<b>2.01</b>	<b>7.12</b>	<b>3.52</b>	<b>8.91</b>	<b>2.85</b>	<b>1.65</b>	<b>46.18</b>
<b>General Mean .. ..</b>	<b>54</b>	<b>1.08</b>	<b>0.46</b>	<b>1.02</b>	<b>4.86</b>	<b>10.96</b>	<b>3.59</b>	<b>1.91</b>	<b>7.94</b>	<b>3.23</b>	<b>8.13</b>	<b>2.91</b>	<b>1.15</b>	<b>47.24</b>

TABLE III

	Mean percentage rainfall distribution 1924-1954	Computed Mean rainfall for 54 centres 1924-1954	Actual rainfall for 54 centres June, 1954 to May, 1955	Evaporation at Experiment Station	
				Mean 1936-54	June, 1954 May, 1955
June, 1954 .. .. .	4.21	1.59	1.08	2.37	2.44
July, 1954 .. .. .	3.05	1.15	0.46	2.57	3.22
August, 1954 .. ..	3.73	1.41	1.02	2.89	3.31
September, 1954 ..	6.27	2.37	4.86	3.61	3.80
October, 1954 .. ..	9.08	3.43	10.96	4.13	3.86
November, 1954 ..	11.14	4.21	3.59	4.81	4.04
December, 1954 ..	11.99	4.53	1.91	5.40	5.98
January, 1955 .. ..	11.49	4.34	7.94	5.63	5.03
February, 1955 .. .	12.20	4.61	3.23	4.75	4.30
March, 1955 .. ..	14.45	5.46	8.13	4.42	4.59
April, 1955 .. .. .	6.78	2.56	2.91	3.34	3.41
May, 1955 .. .. .	5.61	2.12	1.15	2.83	2.72
	100.00	37.78	47.24	46.75	46.70

TABLE IV

## Rainfall in inches by Districts for the Two year Period June 1953 to May, 1955 inclusive

	No. of Centres	1953 Winter Growth June- August	1953 Early Growth Sept.- October	1953-54 Optimum Growth Nov.- March	1954 Late Growth April- May	1954 Winter Growth June- August	1954 Early Growth Sept.- August	1954-55 Optimum Growth Nov.- March	1955 Late Growth April- May	Total for Two years June, 1953 to May, 1955
Port Shepstone .. ..	1	3.86	8.17	25.81	3.77	2.34	21.64	28.66	1.95	96.20
Umzinto .. .. .	6	4.06	7.82	23.25	3.29	2.64	17.35	24.98	2.09	85.48
Durban, Pinetown, etc.	3	4.20	5.93	19.35	3.68	1.94	11.81	23.21	2.58	72.70
<b>Mean South Coast ..</b>	<b>10</b>	<b>4.08</b>	<b>7.29</b>	<b>22.33</b>	<b>3.46</b>	<b>2.40</b>	<b>16.11</b>	<b>24.81</b>	<b>2.23</b>	<b>82.71</b>
Inanda .. .. .	9	2.97	5.92	22.81	3.84	2.33	15.98	23.46	4.12	81.43
Lower Tugela .. ..	13	2.08	6.01	25.61	6.45	2.39	17.78	26.41	4.70	91.43
<b>Mean North Coast ..</b>	<b>22</b>	<b>2.44</b>	<b>5.97</b>	<b>24.46</b>	<b>5.38</b>	<b>2.36</b>	<b>17.03</b>	<b>25.21</b>	<b>4.46</b>	<b>87.31</b>
<b>Mean south of Tugela</b>	<b>32</b>	<b>2.96</b>	<b>6.38</b>	<b>23.80</b>	<b>4.78</b>	<b>2.38</b>	<b>16.75</b>	<b>25.07</b>	<b>3.77</b>	<b>85.89</b>
Mtunzini .. .. .	5	1.78	6.70	27.22	8.14	2.96	16.76	26.93	5.37	95.86
Eshowe .. .. .	3	1.28	4.83	25.17	7.35	1.80	15.79	26.22	4.43	86.87
Lower Umfolozi .. ..	8	2.42	8.56	27.87	8.61	4.02	15.94	23.86	5.40	96.68
Hlabisa .. .. .	4	2.18	6.34	17.10	8.03	2.31	11.08	24.40	2.27	73.71
Ubombo .. .. .	1	0.43	2.55	13.99	5.39	0.84	7.58	15.44	2.77	48.99
Piet Retief .. .. .	1	0.22	3.46	17.29	4.22	0.53	7.30	18.96	3.97	55.95
<b>Mean Zululand and Piet Retief .. .. .</b>	<b>22</b>	<b>1.89</b>	<b>6.72</b>	<b>24.29</b>	<b>7.88</b>	<b>2.85</b>	<b>14.45</b>	<b>24.38</b>	<b>4.50</b>	<b>86.96</b>
<b>General Average ..</b>	<b>54</b>	<b>2.52</b>	<b>6.52</b>	<b>24.00</b>	<b>6.04</b>	<b>2.56</b>	<b>15.82</b>	<b>24.80</b>	<b>4.06</b>	<b>86.32</b>
Computed mean for 31 Years .. .. .	54	4.15	5.80	23.15	4.68	4.15	5.80	23.15	4.68	75.56

TABLE V

## Rainfall and Evaporation in Inches for the past 4 Years

	1951-52			1952-53			1953-54			1954-55		
	Evapor- ation	Rain- fall	Rainfall Deficiency	Evapor- ation	Rainfall	Rainfall Deficiency	Evapor- ation	Rainfall	Rainfall Deficiency	Evapor- ation	Rainfall	Rainfall Deficiency
June .. ..	2.88	1.03	1.85	2.42	0.64	1.78	2.59	0.23	2.36	2.44	1.08	1.36
July .. ..	2.97	0.35	2.62	2.40	1.63	0.77	2.99	0.39	2.60	3.22	0.46	2.76
August ..	2.56	5.28	0.00	2.56	0.66	1.90	2.68	1.20	0.78	3.31	1.02	2.29
September	2.98	2.57	0.41	4.29	0.88	3.41	3.38	3.23	0.15	3.80	4.86	0.00
October ..	3.42	3.82	0.00	4.89	1.74	3.15	3.63	3.29	0.34	3.86	10.96	0.00
November	6.02	0.85	5.17	4.55	4.39	0.16	4.50	5.20	0.00	4.04	3.59	0.45
December	4.42	6.20	0.00	5.11	5.32	0.00	5.90	5.11	0.79	5.98	1.91	4.07
January ..	5.09	4.67	0.42	6.42	8.82	0.00	5.12	3.66	1.46	5.03	7.94	0.00
February ..	4.63	2.49	2.14	4.08	5.90	0.00	4.57	6.20	0.00	4.30	3.23	1.07
March ..	4.16	3.17	0.99	5.27	2.62	2.65	4.75	3.83	0.92	4.59	8.13	0.00
April ..	2.84	2.73	0.11	3.17	1.11	2.06	3.06	2.70	0.36	3.41	2.91	0.50
May ..	2.65	3.17	0.00	3.63	0.71	2.92	3.24	3.34	0.00	2.72	1.15	1.57
<b>Total ..</b>	<b>44.62</b>	<b>36.34</b>	<b>13.71</b>	<b>48.76</b>	<b>33.88</b>	<b>18.80</b>	<b>46.41</b>	<b>39.08</b>	<b>9.76</b>	<b>46.70</b>	<b>47.24</b>	<b>14.07</b>

### Comments on Rainfall

The mean computed annual rainfall over the last thirty-one years for the fifty-four rainfall reporting centres is 37.87 inches. The rainfall for these centres for the year ending 31st May 1954 was 39.08 inches and the average rainfall for the year ending 31st May 1955 was 47.24 inches. The sugarcane crop has therefore gone through two successive years with rainfalls above the average and this is the first time that this has happened in the last ten years. In fact the total rainfall recorded for the year ending May 1955 is one of the best ever recorded and was last exceeded for the year ending 31st May 1943 when the computed total was 48.94 inches and before that for the year 1935-36 with 49.97 inches and abnormally high rainfall in June, or again as early as 1924-25 with abnormal rains in March 1925.

On the whole the rainfall for the past year was well distributed although there were individual months when insufficient rain fell and the accumulated deficiency over the twelve months of monthly periods when the average rainfall was less than evaporation from an open water surface at the Experiment Station amounted to 14.07 inches. This is in contrast to the fact that the total rainfall for the year, 47.27 inches, was slightly in excess of the total evaporation of 46.70 inches, but in the above calculated total deficiency a rainfall above evaporation is in no way credited to any other month but simply recorded as no deficiency for that month. This may not be absolutely correct for a rainfall in excess of evaporation in one month is certain to benefit the crop the following month if the latter is deficient in rainfall, but it does give an idea of distribution of rainfall and it is better than comparing the totals of rainfall and evaporation for the whole year where excessive late rains may appear to make up for deficiencies suffered earlier on.

Although the rainfall for the winter months of June, July and August 1954 was fairly low with a total of 2.56 inches, the cane benefited considerably from the good May rains and the crop stood up fairly well to the deficient winter rains, but particularly the South Coast and the southern portion of the North Coast were getting dry. Towards the end of September excellent rains fell nearly everywhere in the sugar belt and broke the dry spell and provided good planting conditions. Exceptionally heavy rains fell during October averaging 10.96 inches for the whole industry and were by far the heaviest fall recorded for October in the last thirty-one years. There were a large number of wet days and in many cases heavy falls of over two inches in a single day were reported. There was surprisingly little soil erosion but a considerable number of working days were lost as a result of the wet conditions. The November rainfall

was a little below normal but well distributed, and the crop made excellent progress. The rainfall during December was disappointingly low and averaged only 1.91 inches, which is the third lowest rainfall recorded for December during the past thirty-one years. The excellent spring rains, however, did much to minimise the adverse effects of this deficient rainfall. Excellent rains in January retrieved the effects of the dry spell during December and the crop was again making excellent progress. This rain also helped the crop on during February when the rainfall was below normal. Again excellent rains totalling 8.13 inches fell during March, to be followed by normal rains during April and a deficient fall during May when conditions on the South Coast were getting rather dry.

The crop is therefore somewhat vulnerable to a possible winter drought, but excellent conditions prevailed throughout the year and although a number of months with deficient rain were recorded, no serious droughts developed because these deficient falls were either preceded or immediately followed by excellent rains. The year before also was a good year although it started with a severe winter drought which was broken in August. Thereafter alternating dry and wet months were experienced but the condition never became serious again. The crop now to be harvested went through two excellent early growth periods, September and October 1953 and 1954, two good summers and reasonably good late growth periods during April and May 1954 and 1955. It can therefore be stated that since August 1953 the cane crop never went through a really critical stage as a whole, and although minor rainfall deficiencies were experienced since, on the whole the rainfall that affected this year's crop was very good indeed and an excellent crop can be expected.

### Temperatures

The mean screen temperature at the Experiment Station for the year ending 31st May 1955 was 68.3°F or 0.4° lower than the 1928-54 average of 68.70°. With the exception of September and December 1954 every month had a temperature below normal and during March the mean temperature was 1.0° below normal. The highest temperature recorded was 95.5° on 15th December and the lowest screen temperature 42.1° on 18th July 1954. The lowest grass temperature recorded was 34.7° on 28th July. This is now the second successive year with an average mean screen temperature below normal.

Soil temperatures, like last year, were again well below normal, averaging 70.4°, 70.9° and 71.1° at 1 foot, 2 feet and 4 feet, compared with the 1935-54 averages at the same depths of 71.8°, 72.9° and 73.0°. Soil temperatures at 2 feet depth are also given in

Table VII for Umzimkulu Sugar Co. Ltd. and Entumeni Wattle Co.

was ended during August 1953 and since then good and on the whole well distributed rains fell with exceptionally heavy rains during October 1954.

### Summary and Conclusions

The industry experienced two successive years with rainfalls above normal for the first time in ten years. The average rainfall over the past two years was 86.32 inches and for the year ending 31st May 1955 it was 47.24 inches compared with a mean rainfall of 37.78 inches. There were alternating dry and wet spells but the last serious drought experienced

During the past two years screen temperatures and particularly soil temperatures were below normal and somewhat higher temperatures would have benefited the crop.

On the whole, however, the weather conditions that affected this year's crop were most favourable and an excellent crop can consequently be expected.

TABLE VI

The following are the Screen Temperatures by Months in Degrees Fahrenheit at the Experiment Station for the Period June, 1954 to May, 1955 Compared with the means for the period :

	This Period				Average 1928 to 1954 inclusive				
	Maximum	Minimum	Mean	Plus or minus Average	Daily Range	Maximum	Minimum	Mean	Daily Range
June .. ..	72.3	52.7	62.5	-0.3	19.6	72.9	52.7	62.8	20.2
July .. ..	73.2	49.6	61.4	-0.5	23.6	72.3	51.6	61.9	20.7
August ..	73.6	52.7	63.1	-0.4	20.9	73.2	53.9	63.5	19.3
September	73.2	59.4	66.3	+0.5	13.8	74.4	57.2	65.8	17.2
October ..	73.6	61.9	67.7	-0.7	11.7	75.9	60.9	68.4	15.0
November	76.5	63.3	69.9	-0.8	13.2	78.0	63.3	70.7	14.7
December	80.2	66.2	73.2	+0.3	14.0	80.1	65.7	72.9	14.4
January ..	79.3	66.9	73.1	-0.9	12.4	81.0	67.1	74.0	13.9
February ..	80.2	67.8	74.0	-0.6	12.4	81.6	67.5	74.6	14.1
March ..	79.5	64.8	72.1	-1.0	14.7	80.3	65.9	73.1	14.4
April ..	77.2	62.1	69.6	-0.6	15.1	78.4	62.1	70.2	16.3
May ..	74.7	57.7	66.2	-0.3	17.0	76.0	56.9	66.5	19.1
<b>Means ..</b>	<b>76.1</b>	<b>60.4</b>	<b>68.3</b>	<b>-0.4</b>	<b>15.7</b>	<b>77.0</b>	<b>60.4</b>	<b>68.7</b>	<b>16.6</b>

TABLE VII

The following table gives the Mean Monthly Earth Temperatures :

	Experiment Station Means 1935-54			Experiment Station June 1954 to May 1955			Umzimkulu Sugar Co., June 1954 to May 1952		Entumeni Wattle Co. June 1954 to May 1955	
	1 ft.	2 ft.	4 ft.	1 ft.	2 ft.	4 ft.	2 ft.	2 ft.		
June .. ..	64.3	67.1	69.8	62.1	64.2	67.8	62.7	62.2		
July .. ..	62.8	65.0	67.2	59.9	61.5	65.1	61.7	62.5		
August ..	64.8	66.0	66.9	62.1	63.0	64.2	62.1	64.6		
September	68.0	68.5	68.5	67.5	67.5	66.7	66.7	66.2		
October ..	71.0	71.2	70.6	69.8	69.8	68.9	67.4	66.7		
November	73.6	73.6	73.1	73.0	72.5	72.1	71.0	69.0		
December	76.5	76.4	74.9	77.2	76.5	74.1	76.1	73.0		
January ..	78.7	79.2	77.1	77.4	77.0	75.2	77.7	73.0		
February ..	79.6	79.8	78.4	77.9	77.4	75.7	75.9	73.5		
March ..	78.3	79.1	78.5	75.9	76.8	76.3	76.3	74.0		
April ..	74.9	76.5	77.0	73.8	74.7	75.0	74.8	73.5		
May ..	69.5	72.0	73.8	68.7	70.3	72.3	69.5	68.0		
<b>Mean ..</b>	<b>71.8</b>	<b>72.9</b>	<b>73.0</b>	<b>70.4</b>	<b>70.9</b>	<b>71.1</b>	<b>70.2</b>	<b>68.8</b>		

Experiment Station,  
South African Sugar Association,  
Mount Edgcombe.  
March, 1955.