

# MAURITIUS CANE INDUSTRY AUTHORITY

## MAURITIUS SUGARCANE INDUSTRY RESEARCH INSTITUTE

Ref A 1/2022

3 November 2022

### SUGAR CANE CROP 2022

#### Status: End September 2022

## 1. CLIMATE

### 1.1 Rainfall (Tables 1a, 1b, Figure 1)

The island's average rainfall for September 2022 was 71 mm which represented 77% of the normal (92 mm). Apart from the Centre, all the other sectors received below normal rainfall. The North recorded 17 mm of rainfall, the East 77 mm, the South 100 mm, the West 1 mm and the Centre 151 mm. These amounts represented 38% of the long-term mean (LTM) in the North, 66% in the East, 88% in the South, 4% in the West and 120% in the Centre.

The cumulative rainfall over the period October 2021 to September 2022 reached 2487 mm representing 115% of the LTM for the island. During the same period, 1382 mm were recorded in the North, 2856 mm in the East, 3118 mm in the South, 923 mm in the West and 3297 mm in the Centre; these values represented 110%, 108%, 123%, 100% and 120% of the respective LTM.

**Table 1a. Rainfall (mm) for the month of September for crops 2021, 2022 and the long term mean (LTM).**

	North	East	South	West	Centre	Island
<b>2021</b>	34 (76)	87 (75)	95 (83)	7 (29)	135 (107)	75 (82)
<b>2022</b>	<b>17</b> (38)	<b>77</b> (66)	<b>100</b> (88)	<b>1</b> (4)	<b>151</b> (120)	<b>71</b> (77)
<b>LTM</b>	45	116	114	24	126	92

figures in brackets are % of LTM (1991-2020)

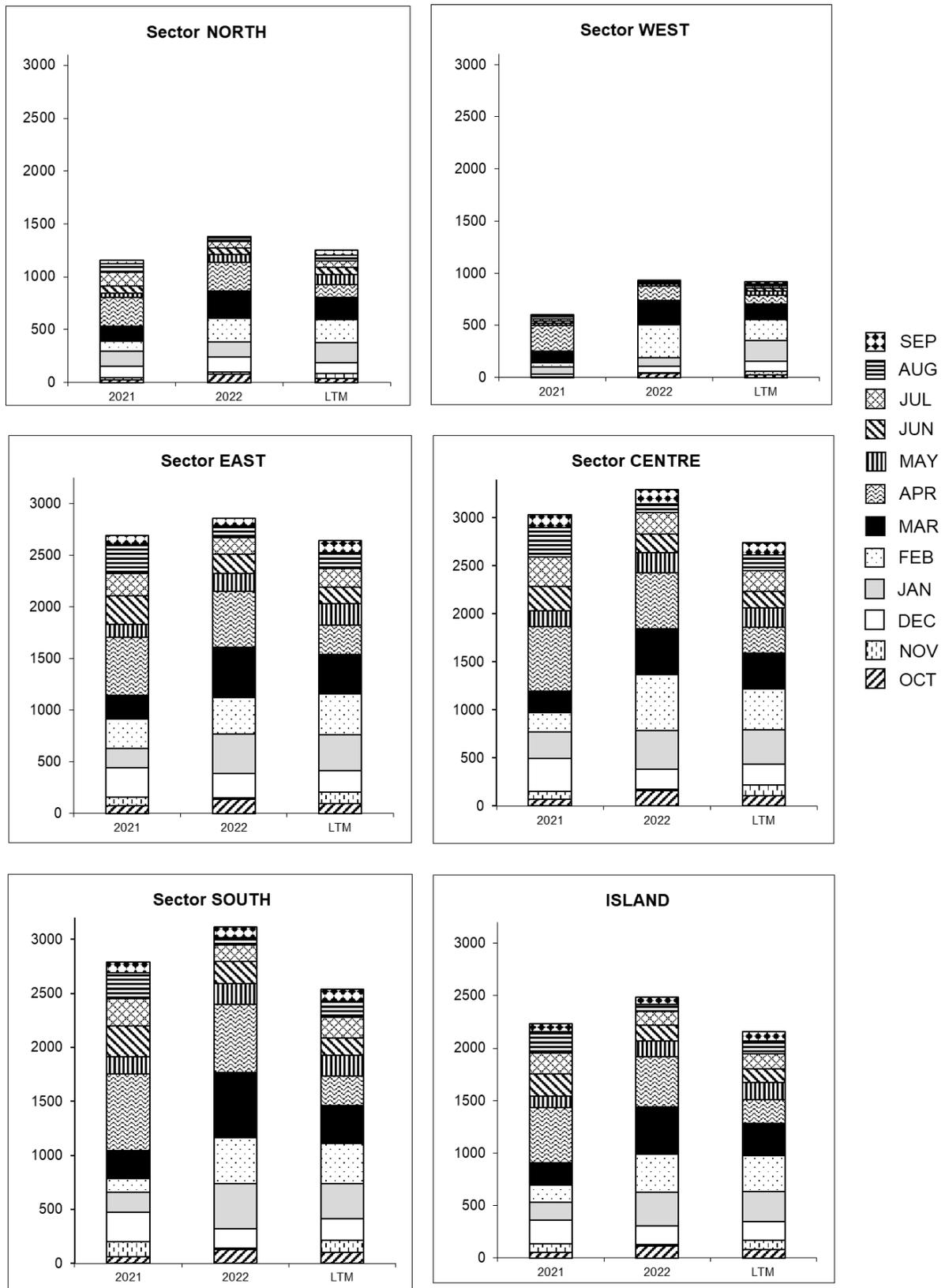
**Table 1b. Cumulative rainfall (mm) from October 2021 to September 2022 for crop 2022 compared to that of crop 2021 and the long term mean (LTM).**

	North	East	South	West	Centre	Island
<b>2021</b>	1159 (92)	2691 (102)	2788 (110)	603 (65)	3035 (111)	2233 (103)
<b>2022</b>	<b>1382</b> (110)	<b>2856</b> (108)	<b>3118</b> (123)	<b>923</b> (100)	<b>3297</b> (120)	<b>2487</b> (115)
<b>LTM</b>	1253	2640	2540	921	2740	2159

figures in brackets are % of LTM

[Source: Provisional data from Meteorological Services]

**Figure 1. Monthly rainfall (mm) for the period October 2021 to September 2022 for the 2022 crop compared to the same period of the 2021 crop and to the long-term mean (LTM).**



### 1.2 Air Temperature (Table 2)

The recorded air temperature data during the month of September 2022 on four MSIRI agro-meteorological stations are given below.

**Table 2. Air temperature recorded on four MSIRI stations in September 2022.**

Stations	Maximum (°C)		Minimum (°C)		Amplitude (°C)	
	Sep 2022	+ / -	Sep 2022	+ / -	Sep 2022	+ / -
<b>Ferret</b>	25.9	-0.8	17.1	+0.1	8.8	-0.9
<b>Réduit</b>	23.6	+0.1	16.1	+0.3	7.5	+0.4
<b>Union Park</b>	23.3	+0.5	16.4	+0.4	6.9	+0.1
<b>Belle Rive</b>	22.0	-1.0	15.2	+0.4	6.8	-1.4

+ / - Deviation from the Normal (1991-2020)

Mean maximum temperature during September 2022 was close to normal at Réduit, above normal at Union Park, and lagging behind the normal at the other two stations. The mean minimum temperature was comparable to the normal at Ferret but above normal at the other stations. The resulting mean amplitude lagged behind the normal at Ferret by 0.9°C and Belle Rive by 1.4°C, but was close to the normal at Union Park and above normal at Réduit.

### 1.3 Sunshine (Table 3)

Data from the four MSIRI agro-meteorological stations showed that sunshine hours were above normal at all stations except at Belle Rive where it was comparable to the normal. Recorded bright sunshine compared to the normal amounted to 115% at Ferret, 109% at Réduit, 114% at Union Park and 99% at Belle Rive.

**Table 3. Sunshine duration (h) recorded on four MSIRI agro-meteorological stations in September 2022.**

Station	Sep 2022	Normal	% of Normal
<b>Ferret</b>	267	232	115
<b>Réduit</b>	241	222	109
<b>Union Park</b>	169	148	114
<b>Belle Rive</b>	192	194	99

## 2. CROP PRODUCTIVITY 2022

As at 1 October 2022, some 16,455 ha representing about 61% of corporate planters were harvested compared to 13,864 ha (49%) at the same period last year. Sector-wise and for corporate planters only, the harvested area reached 56% in the North, 65% in the East, 63% in the South, 62% in the West and 56 % in the Centre. An analysis of crop productivity based on the harvest statistics for corporate planters follows.

### 2.1 Cane productivity (Table 4a)

At end-September 2022 the cane productivity for the island was 66.9 TCH and was lower than that of September 2021 (70.7 TCH) by 3.8 TCH and that of September 2020 (70.0) by 3.1 TCH. Sector-wise, cane productivity recorded was 73.5 TCH in the North, 67.6 TCH in the East, 64.1 TCH in the South, 71.4 TCH in the West and 43.8 TCH in the Centre. Compared to the same period last year, cane productivity recorded to-date was higher by 1.7 TCH in the North and 5.4 TCH in the West but lagged behind by 5.8 TCH in the East, 9.4 TCH in the South and 11.1 TCH in the Centre. When compared to September 2020, the present cane productivity was inferior in all sectors except in the West.

**Table 4a. Cane productivity (TCH) as at end August and September for the 2020, 2021 and 2022 crops**

Sector	End August			End September		
	2020	2021	2022	2020	2021	2022
North	74.3	72.2	73.6	75.2	71.8	73.5
East	72.2	73.0	71.7	70.9	73.4	67.6
South	73.9	70.8	65.3	70.8	73.5	64.1
West	66.8	65.1	73.5	67.9	66.0	71.4
Centre	57.0	55.8	48.0	53.9	54.9	43.8
<b>Island</b>	<b>71.3</b>	<b>69.7</b>	<b>69.2</b>	<b>70.0</b>	<b>70.7</b>	<b>66.9</b>

### 2.2 Extraction (Table 4b, Figure 2)

The recorded island extraction rate of 10.08% was higher than that at the corresponding period in 2021 (9.34%) but lower than that in 2020 (10.31%). Sector-wise, the extraction rate recorded was 10.36% in the North, 9.51% in in the East, 10.30% in the South, 10.67% in the West and 8.93% in the Centre. The extraction rate to-date compared to the corresponding period last year was higher by 0.82° in the North, 0.42° in the East, 1.01° in the South, 0.64° in the West and 0.17° in the Centre. When compared to September 2020, extraction rate to-date was inferior in all sectors, except for the South.

**Table 4b. Extraction rate (%) as at end August and end September for the 2020, 2021 and 2022 crops**

Sectors	End August			End September		
	2020	2021	2022	2020	2021	2022
North	10.93	9.24	9.82	11.17	9.54	10.36
East	9.70	8.95	9.38	9.96	9.09	9.51
South	10.05	9.28	9.98	10.12	9.29	10.30
West	10.70	9.78	10.16	10.81	10.03	10.67
Centre	9.24	8.63	8.84	9.46	8.76	8.93
<b>Island</b>	<b>10.11</b>	<b>9.17</b>	<b>9.73</b>	<b>10.31</b>	<b>9.34</b>	<b>10.08</b>

### 2.3 Sugar productivity (Table 4c)

The recorded sugar productivity over the island amounted to 6.74 TSH and exceeded that of the corresponding period in 2021 (6.60 TSH) by 0.14 tonne (2.1%).

**Table 4c. Sugar productivity (TSH) as at end August and September for the 2020, 2021 and 2022 crops**

Sectors	End August			End September		
	2020	2021	2022	2020	2021	2022
North	8.12	6.67	7.23	8.40	6.85	7.61
East	7.00	6.53	6.73	7.06	6.67	6.43
South	7.43	6.57	6.52	7.16	6.83	6.60
West	7.15	6.37	7.47	7.34	6.62	7.62
Centre	5.27	4.82	4.24	5.10	4.81	3.91
<b>Island</b>	<b>7.21</b>	<b>6.39</b>	<b>6.73</b>	<b>7.22</b>	<b>6.60</b>	<b>6.74</b>

Sector-wise, sugar productivity was 7.61 TSH in the North, 6.43 TSH in the East, 6.60 TSH in the South, 7.62 TSH in the West and 3.91 TSH in the Centre. These figures when compared to those of September 2021 were higher by 0.76 TSH in the North and 1.00 TSH in the West but lagged behind in sector East by 0.24 TSH, South by 0.23 TSH and Centre by 0.90 TSH. Sugar productivity recorded in September 2022 was inferior to that of 2020 in all sectors except in the West.

### **3. CROP 2022**

The month of September 2022 was characterised by below normal rainfall in all sectors, except for the Centre sector, coupled with above normal solar radiation at most stations and below normal temperature amplitude at Ferret and Belle Rive (close to normal at Union Park and above normal at Réduit). These conditions favoured sucrose accumulation though not at the optimal level. Sucrose content in terms of richesse for September 2022 was higher than that of the corresponding period last year. So far with 61% of the crop on corporate planters' land harvested and based milling data at island level indicate a lower cane productivity when compared to the past two years. Compared to last year, the shortfall in cane productivity at the end of September 2022 over the island stood at 3.8 TCH. Extraction rate throughout the island in September 2022 was better than in 2021 by 0.74°, which resulted in a slightly higher sugar productivity than that obtained at the same date last year.

**Figure 2. Extraction rate for the 2020, 2021 and 2022 crops.**

