

**Table S1.** Monthly average minimum (Min) and maximum (Max) temperatures, growing degree days (GDD), relative humidity (RH), and total rainfall (Rain) in 2020 and 2021 growing seasons as well as 28-yr monthly averages (1994–2021).

Month	Min (° C)	Max (° C)	GDD (° C)	RH (%)	Rain (mm)
First growing season (2020)					
May	15.32	32.47	430.8	58.61	0.00
June	18.77	36.79	533.5	47.50	0.00
July	21.85	40.03	649.1	45.26	0.00
August	22.37	39.99	656.5	47.45	0.00
September	22.18	38.69	613.2	54.47	0.00
Second growing season (2021)					
May	18.17	35.90	509.0	39.53	0.00
June	19.62	37.61	558.5	44.00	0.00
July	22.63	40.23	664.3	43.65	0.00
August	23.35	40.47	679.2	45.96	0.00
September	21.46	36.77	573.4	52.67	0.00
28-years average (1994-2021)					
May	16.72	33.28		41.79	0.49
June	19.44	37.68		39.65	0.27
July	21.95	38.91		41.40	0.16
August	22.56	38.66		44.85	0.01
September	20.61	35.92		49.42	0.04

**Table S2.** Chemical analysis of the Moringa seed extract

Component	Value
<b>Antioxidants and osmoprotectants</b>	
Total free amino acids (g kg <sup>-1</sup> DW)	156
Free proline (g kg <sup>-1</sup> DW)	132
Soluble sugars (g kg <sup>-1</sup> DW)	176
Salicylic acid (mg kg <sup>-1</sup> DW)	38.6
$\alpha$ -Tocopherol (mg kg <sup>-1</sup> DW)	34.4
Glutathione (mg kg <sup>-1</sup> DW)	22.4
Ascorbic acid (mg kg <sup>-1</sup> DW)	34.8
Vitamin A, $\beta$ -carotene (mg kg <sup>-1</sup> DW)	163
Selenium (mg kg <sup>-1</sup> DW)	0.7
DPPH-radical scavenging (%)	82.2
<b>Phytohormones</b>	
Total auxins (mg kg <sup>-1</sup> DW)	3.3
Total gibberellins (mg kg <sup>-1</sup> DW)	2.9
Zeatin-type cytokinin (mg kg <sup>-1</sup> DW)	3.2
<b>Mineral nutrients</b>	
Nitrogen (g kg <sup>-1</sup> DW)	30.8
Phosphorus (g kg <sup>-1</sup> DW)	15.8
Potassium (g kg <sup>-1</sup> DW)	21.7
Calcium (g kg <sup>-1</sup> DW)	9.6
Magnesium (g kg <sup>-1</sup> DW)	4.5
Sulfur (g kg <sup>-1</sup> DW)	2.7
Iron (g kg <sup>-1</sup> DW)	1.5
Manganese (g kg <sup>-1</sup> DW)	0.8