

Table S1

High-resolution daily meteorological data recorded during the experimental period (February–May 2025) at the weather yard of the Department of Irrigation and Water Management, Bangladesh Agricultural University, Mymensingh.

Month	Date	Tmax (°C)	Tmin (°C)	Tmean (°C)	RHmax (%)	RHmin (%)	RHmean (%)	Rainfall (mm)
February	1	25.6	18.5	22.1	100	67	92	0.0
	2	25	16.5	20.8	100	77	93	0.0
	3	27.1	16.5	21.8	100	32	77	0.0
	4	27	14.4	20.7	98	45	81	0.0
	5	26.8	15.5	21.2	99	53	84	0.0
	6	28	19.0	23.5	97	50	82	0.0
	7	26.5	12.5	19.5	97	36	70	0.0
	8	26.2	11.5	18.9	94	33	68	0.0
	9	25.1	13.6	19.4	97	50	79	0.0
	10	26.2	13.4	19.8	99	44	78	0.0
	11	26	15.6	20.8	99	65	88	0.0
	12	27.6	18.0	22.8	100	53	86	0.0
	13	28.7	19.2	24.0	97	45	78	0.0
	14	26.6	14.4	20.5	99	33	69	0.0
	15	27	13.5	20.3	98	32	74	0.0
	16	28.5	14.2	21.4	90	38	72	0.0
	17	28.5	16.5	22.5	94	47	73	0.0
	18	29.1	18.8	24.0	99	51	80	0.0
	19	29.3	16.3	22.8	99	39	79	0.0
	20	29.3	16.2	22.8	95	45	74	0.0
	21	30.7	17.6	24.2	99	41	75	0.0
	22	30.3	17.8	24.1	95	60	81	0.0
	23	27.5	18.1	22.8	98	69	83	0.0
	24	29.7	16.0	22.9	95	39	72	0.0
	25	29.5	16.0	22.8	97	39	71	0.0
	26	29.5	15.5	22.5	98	40	69	0.0
	27	29.6	16.0	22.8	95	40	74	0.0
	28	28.7	17.4	23.1	97	43	76	0.0
	1	30.6	19.1	24.9	95	55	78	0.0
	2	32.5	21.0	26.8	99	33	74	0.0
	3	30.7	18.6	24.7	97	29	70	0.0
	4	30.8	16.7	23.8	94	20	62	0.0
	5	28.7	17.2	23.0	96	22	63	0.0
	6	29.5	15.3	22.4	97	32	59	0.0
	7	28.3	15.2	21.8	98	31	71	0.0
	8	30.2	15.5	22.9	95	39	71	0.0
	9	31.0	17.4	24.2	95	48	76	0.0
	10	32.0	18.5	25.3	96	46	76	0.0
	11	30.2	19.4	24.8	98	58	79	0.0
	12	31.3	20.2	25.8	96	46	75	0.0
	13	31.2	21.3	26.3	95	59	82	0.0
	14	31.4	23.8	27.6	95	69	85	0.0

Month	Date	Tmax (°C)	Tmin (°C)	Tmean (°C)	RHmax (%)	RHmin (%)	RHmean (%)	Rainfall (mm)
March	15	32.7	25.0	28.9	95	64	81	0.0
	16	34.0	25.2	29.6	86	52	68	0.0
	17	31.0	22.0	26.5	93	43	69	17.0
	18	31.7	21.0	26.4	97	29	68	0.0
	19	32.4	18.7	25.6	91	41	67	0.0
	20	30.8	20.6	25.7	95	66	82	0.0
	21	24.7	20.8	22.8	96	85	92	1.2
	22	25.5	19.3	22.4	99	73	87	0.0
	23	29.7	17.4	23.6	95	48	76	0.0
	24	31.5	18.0	24.8	86	38	62	0.0
	25	32.5	19.4	26.0	97	40	68	0.0
	26	33.5	18.5	26.0	92	34	68	0.0
	27	32.5	22.0	27.3	91	58	73	0.0
	28	33.7	24.0	28.9	95	53	80	0.0
	29	35.6	23.0	29.3	96	42	72	0.0
	30	34.5	21.0	27.8	92	46	73	0.0
	31	33.6	24.0	28.8	94	58	80	0.0
April	1	31.6	25.3	28.5	96	70	85	0.0
	2	31.2	24.5	27.9	96	73	88	0.0
	3	33.9	24.5	29.2	95	60	80	0.0
	4	31.7	24.0	27.9	99	44	75	0.0
	5	34.6	22.0	28.3	87	58	76	0.0
	6	32.7	22.7	27.7	87	65	75	0.0
	7	31.4	21.0	26.2	93	50	72	0.0
	8	34.4	22.2	28.3	95	59	77	0.0
	9	33.2	24.2	28.7	92	53	76	0.0
	10	33.4	24.0	28.7	96	59	82	7.8
	11	31.5	22.5	27.0	95	60	82	2.6
	12	31.5	23.6	27.6	95	63	80	0.0
	13	32.2	20.4	26.3	96	54	75	4.4
	14	35.3	23.0	29.2	88	44	69	3.0
	15	33.0	22.3	27.7	95	54	74	0.0
	16	32.0	23.0	27.5	94	72	84	1.7
	17	27.4	22.0	24.7	95	71	85	7.0
	18	30.4	21.2	25.8	93	63	78	0.0
	19	33.2	22.6	27.9	95	59	77	0.0
	20	32.7	24.0	28.4	96	61	80	35.0
	21	30.0	23.9	27.0	95	71	86	1.0
	22	33.5	25.0	29.3	92	66	83	22.0
	23	33.8	23.6	28.7	92	68	84	0.0
	24	34.7	27.2	31.0	91	62	79	0.0
	25	34.5	24.5	29.5	91	62	78	0.0
	26	34.0	24.2	29.1	91	65	78	2.8
	27	32.4	21.8	27.1	83	67	67	0.0
	28	28.5	20.6	24.6	96	64	84	5.6
	29	30.8	21.2	26.0	94	56	78	1.0
	30	33.2	23.0	28.1	98	50	80	51.6
	1	29.0	21	25.0	97	54	78	0.0
	2	32.2	21.3	26.8	94	52	78	0.0

Month	Date	Tmax (°C)	Tmin (°C)	Tmean (°C)	RHmax (%)	RHmin (%)	RHmean (%)	Rainfall (mm)
May	3	34.0	22.5	28.3	93	44	74	0.0
	4	32.9	24.0	28.5	95	61	81	0.5
	5	34.2	24.0	29.1	91	48	72	0.0
	6	31.0	24.3	27.7	97	73	85	4.4
	7	34.1	23.5	28.8	92	54	75	0.0
	8	36.8	26.3	31.6	94	43	70	0.0
	9	37.8	26.6	32.2	93	51	72	0.0
	10	38.2	27.3	32.8	90	40	67	0.0
	11	37.4	27.2	32.3	95	60	85	41.0
	12	26.5	22.5	24.5	94	82	89	3.0
	13	31.6	23.5	27.6	96	76	85	0.0
	14	31.3	26.0	25.0	89	69	82	1.6
	15	29.6	23	26.3	91	67	83	2.6
	16	35	23	29.0	93	58	80	14.6
	17	30.5	22.6	26.6	95	69	84	39.4
	18	31.5	22.5	27.0	98	74	87	11.2
	19	29.1	22.8	26.0	98	81	91	27.2
	20	30.1	23	26.6	96	80	93	38.2
	21	29.5	24.3	26.9	95	80	89	3.6
	22	31.5	24.9	28.2	92	69	85	0.0
	23	32	25.8	28.9	93	65	81	0.3
	24	34.2	27.4	30.8	96	55	82	31.2
	25	34.8	25.5	30.2	96	58	82	12.4
	26	33.2	25.8	29.5	93	67	83	11
	27	35.2	25.5	30.4	92	61	80	0.0
	28	34.7	27.7	31.2	96	58	83	4.4
	29	29.8	27	28.4	93	79	90	95
	30	27.8	26	26.9	97	92	95	6.4
	31	33.3	25.6	29.5	99	74	94	94

Note: Tmax = daily maximum air temperature (°C); Tmin = daily minimum air temperature (°C); Tmean = daily mean air temperature (°C); RHmax = daily maximum relative humidity (%); RHmin = daily minimum relative humidity (%); RHmean = daily mean relative humidity (%).

Rainfall values represent daily totals (mm); all other parameters represent daily averages.

Meteorological observations were recorded from 06:01 BST to 06:00 BST of the following day.