









Crop Weather Calendar of Rabi Onion: **Dhaka Region** (Districts: Dhaka, Tangail, Gazipur, Narsingdi, Narayanganj, Munshiganj, Manikgonj) **Bangladesh**

Dhaka Region	Rabi Onion								Life span: 100-110 days												
Months	November				December				January				February				March				
Std.Week	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13
Rainfall (mm)	10.0	6.0	1.5	4.5	1.5	4.5	1.0	3.5	1.0	0.0	0.0	0.5	3.5	3.5	2.5	12.0	3.5	4.0	9.5	13.5	20.5
Max. Temp. (°C)	30.6	29.8	29.0	28.3	27.6	26.2	25.5	24.8	24.0	23.9	24.5	25.0	26.2	27.2	28.3	28.9	30.0	31.5	32.3	33.4	33.2
Min. Temp. (°C)	20.5	18.7	17.7	16.1	15.5	14.7	13.5	12.9	12.4	12.0	12.0	12.1	13.6	14.3	15.5	16.5	17.5	18.6	19.8	19.8	21.8
Mean Temp. (°C)	25.5	24.3	23.3	22.2	21.5	20.5	19.5	18.8	18.2	17.9	18.3	18.6	19.9	20.7	21.9	22.7	23.7	25.0	26.1	26.1	27.5
RHmax (%)	95.0	94.7	94.6	94.3	94.8	95.3	95.1	95.0	94.6	94.3	93.8	93.4	92.4	92.1	91.7	91.1	90.0	89.9	89.2	89.6	90.3
RHMin (%)	51.5	49.3	47.5	46.3	47.6	49.4	49.8	49.1	50.3	48.8	46.2	43.3	42.3	39.4	39.7	38.9	36.0	35.5	35.9	38.9	44.5
RHmean (%)	73.2	72.0	71.0	70.3	71.2	72.3	72.5	72.1	72.4	71.6	70.0	68.3	67.3	65.7	65.7	65.0	63.0	62.7	62.5	64.3	67.4
SShr (hrs)	51.5	51.5	52.0	51.5	48.5	46.5	44.5	44.5	42.5	42.5	45.0	49.0	49.5	51.5	53.0	54.5	56.0	55.0	58.0	55.5	52.5
WD (deg)	189	199	212	211	219	224	225	233	238	238	232	242	241	236	234	228	234	230	223	206	188
WS(Km/hr)	3.7	3.7	3.7	3.6	3.7	3.7	3.7	3.7	4.1	4.0	4.1	4.3	4.3	4.5	5.0	5.3	5.0	5.4	5.7	6.2	6.5
																					
<b>Stages</b>	Germination and Seedling Planting				Vegetative Growth				Bulb formation				Harvesting								
<b>Favorable environment</b>	Temperature				The optimum temperature for vegetative phase is 13- 24 °C				The optimum temperature for bulb development is 15- 25 °C				Dry and clear weather is more suitable								
Temperature	10 °C to 30 °C				The optimum temperature for vegetative phase is 13- 24 °C				The optimum temperature for bulb development is 15- 25 °C				Dry and clear weather is more suitable								
Relative Humidity	Requires about 70% relative humidity for good growth																				
Soil Temperature	A wide range of soil temperatures from 20 °C to 35 °C, with the optimum at 24 °C																				
Sunshine Hour	9 to 10 hours								10 to 12 hours												
<b>Favorable environmental conditions for insects and diseases</b>																					
Thrips	Hot and dry weather increases Thrips population; Heavy rainfall reduces population; RH:47.6% to 78.62%																				
Common cut worm	Favored by low temperature and high relative humidity; The upper development threshold temperature for all stages is 37 °C; RH: 50% to 90%																				
Purple blotch	Warm temperature (21 °C to 30 °C); High humidity (80% to 90%); Moderate to heavy frequent rainfall and heavy dew during growing stage causes prolonged leaf wetness (12 hours or more) favored disease development.																				
Basal bulb rot	Atmospheric temperature: 25 °C to 32 °C; Soil temperature: 25 °C to 28 °C along with high soil moisture; relative humidity above 70% and Dry atmospheric conditions																				
<b>Weather warning</b>																					
Rainfall (mm)	Heavy-rainfall events in short spells result in surface water stagnation (5 to 10 mm per day)																				
Cloudy weather											Cloudy weather										
Drought											7 to 10 days										
Duration of stay wet (day)	3 to 5 days												2 to 3 days								
Hailstorms	Hailstorms with seasonal rainfall																				
Wind speed (Km/hr.)											≥ 16 km/hr										
Temperature (°C)											Above 35 °C										

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Dhaka Region	Kharif Onion								Life span: 100-110 days												
Months	April				May				June				July				August				
Std.Week	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
Rainfall (mm)	25.0	21.0	31.5	42.5	46.0	55.5	55.0	75.5	70.0	72.5	86.5	81.0	77.5	82.5	73.5	91.0	81.5	67.0	59.5	77.0	62.5
Max. Temp. (°C)	33.9	34.6	34.1	33.8	33.6	33.7	33.7	33.2	33.5	33.4	32.8	32.2	32.2	32.1	32.0	31.7	32.2	32.2	32.2	31.9	32.3
Min. Temp. (°C)	22.9	23.5	23.7	23.6	23.7	24.2	24.6	24.9	25.4	25.8	25.9	26.2	26.2	26.1	26.2	26.0	26.0	26.2	26.7	26.2	26.2
Mean Temp. (°C)	28.4	29.0	28.9	28.7	28.6	28.9	29.2	29.0	29.4	29.6	29.3	29.2	29.2	29.1	29.1	28.9	29.1	29.2	29.4	29.0	29.3
RHmax (%)	91.3	91.4	91.4	91.7	92.3	92.8	92.9	93.5	93.8	94.0	94.5	94.4	94.7	94.7	94.1	94.5	94.3	94.0	94.1	94.4	94.8
RHMin (%)	45.9	47.1	52.0	55.1	56.7	58.6	60.4	63.5	65.0	66.7	69.9	71.5	72.9	73.5	73.1	73.5	71.1	71.0	71.6	72.2	71.2
RHmean (%)	68.6	69.2	71.7	73.4	74.5	75.7	76.7	78.5	79.4	80.3	82.2	83.0	83.8	84.1	83.6	84.0	82.7	82.5	82.8	83.3	83.0
SShr (hrs)	53.5	54.0	55.0	54.5	51.5	48.0	48.0	42.5	42.0	38.5	31.0	26.0	26.0	27.0	27.5	28.5	32.0	33.5	32.5	31.5	31.5
WD (deg)	181	175	167	156	159	164	156	155	157	161	157	157	158	162	157	161	159	156	165	165	165
WS(Km/hr)	6.5	6.6	6.6	6.7	6.8	6.5	6.4	6.1	5.8	5.6	6.3	6.5	6.5	5.8	5.9	6.1	5.9	6.1	5.8	5.6	5.4
																					
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