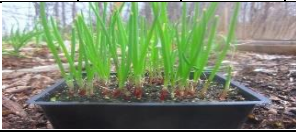





Crop Weather Calendar of Rabi Onion: **Dinajpur Region** (Districts:Dinajpur, Thakurgaon, Panchagaor) **Bangladesh**

Dinajpur 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)	3.0	0.0	0.0	0.0	0.0	3.0	0.0	4.0	2.0	2.0	3.0	2.0	1.0	2.0	3.0	1.0	1.0	1.0	4.0	2.0	7.0
Max. Temp. (°C)	29.7	29.0	28.7	28.0	27.0	25.4	24.9	23.9	22.6	22.4	23.0	23.7	25.0	25.9	26.7	27.7	28.6	30.1	31.1	32.0	32.1
Min. Temp. (°C)	18.3	16.9	15.6	14.0	13.3	12.9	12.0	10.9	10.7	10.3	10.0	10.6	11.1	12.1	13.6	14.1	15.0	16.1	17.1	18.6	19.7
Mean Temp. (°C)	24.0	23.0	22.2	21.0	20.2	19.2	18.5	17.4	16.7	16.4	16.5	17.2	18.1	19.0	20.2	20.9	21.8	23.1	24.1	25.3	25.9
RHmax (%)	95.9	95.9	95.3	95.6	96.1	96.4	96.3	96.6	96.7	96.3	96.4	95.9	94.7	94.0	93.4	92.0	90.6	88.9	87.6	86.0	87.1
RHMin (%)	53.0	51.6	48.1	47.6	49.0	52.9	52.7	54.0	55.1	53.7	52.4	50.4	47.7	43.1	42.4	40.9	38.4	35.3	35.1	36.4	43.3
RHmean (%)	74.5	73.7	71.7	71.6	72.5	74.6	74.5	75.3	75.9	75.0	74.4	73.1	71.2	68.5	67.9	66.4	64.5	62.1	61.4	61.2	65.2
SShr (hrs)	56	52.0	54.0	53.0	48.0	42.0	41.0	37.0	34.0	34.0	37.0	41.0	44.0	46.0	52.0	54.0	57.0	59.0	59.0	55.0	49.0
WD (deg)	144	154	164	177	183	193	200	213	225	238	243	227	241	225	230	225	228	230	212	192	170
WS(Km/hr)	3.7	3.7	3.7	3.5	2.6	3.7	2.9	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.8	4.2	5.4	5.6	5.0
																					
<b>Stages</b>	Germination and Seedling Planting				Vegetative Growth				Bulb formation				Harvesting								
<b>Favorable environment</b>	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 Trips 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																				

Crop Weather Calendar of Kharif Onion: **Dinajpur Region** (Districts:Dinajpur, Thakurgaon, Panchagaor) **Bangladesh**

Dinajpur Region	Kharif Onion								Life span: 100-110 days												
	April				May				June				July				August				
Months	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
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)	8.0	8.0	25.0	23.0	31.0	36.0	57.0	55.0	73.0	57.0	77.0	111.0	96.0	109.0	105.0	81.0	84.0	70.0	60.0	93.0	103.0
Max. Temp. (°C)	33.0	33.4	33.0	32.4	32.3	32.9	33.0	33.0	33.4	33.3	33.0	32.3	32.4	32.0	32.1	32.1	32.3	32.9	32.6	32.4	32.1
Min. Temp. (°C)	20.4	21.1	22.0	22.0	22.3	22.9	23.6	24.0	24.4	25.0	25.1	25.6	26.0	26.0	26.0	26.0	26.0	26.3	26.7	26.1	26.0
Mean Temp. (°C)	26.7	17.3	27.5	27.2	27.3	27.9	28.3	28.5	28.9	29.2	29.1	29.0	29.2	29.0	29.1	29.1	29.2	29.6	29.7	29.3	29.1
RHmax (%)	86.6	87.4	89.4	91.1	92.3	92.0	92.1	92.4	92.7	93.4	93.9	94.7	94.4	95.1	94.6	94.4	94.7	94.1	94.0	95.0	95.7
RHMin (%)	40.9	43.4	50.9	53.7	57.6	57.3	59.3	62.4	62.3	65.4	67.7	71.4	71.6	73.3	72.7	71.9	71.6	70.1	70.9	72.6	73.1
RHmean (%)	63.8	65.4	70.2	72.4	75.0	74.7	75.7	77.4	77.5	79.4	80.8	83.1	83.0	84.2	83.7	83.2	83.2	82.1	82.5	83.8	84.4
SShr (hrs)	52.0	55.0	49.0	50.0	49.0	51.0	48.0	44.0	42.0	40.0	35.0	27.0	31.0	27.0	29.0	31.0	36.0	36.0	37.0	34.0	34.0
WD (deg)	171	150	142	123	118	115	119	108	117	111	118	120	121	127	121	126	134	132	132	134	139
WS(Km/hr)	5.6	4.8	4.8	5.4	3.9	3.7	4.3	3.7	3.9	3.7	3.7	3.7	3.7	3.7	3.7	3.9	3.7	3.9	3.7	3.7	3.7
																					
<b>Stages</b>	Germination and Seedling Planting				Vegetative Growth				Bulb formation				Harvesting								
<b>Favorable environment</b>	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>	Hot and dry weather increases Trips population; Heavy rainfall reduces population; RH:47.6% to 78.62%																				
Thrips	Hot and dry weather increases Trips 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																				