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
Stages			ation and g Planting			Vegetativ	e Growth		Bulb formation						Harvesting						
Favorable environment	t														II.						
Temperature		10°C	to 30°C		The opti	The optimum temperature for vegetative phase is 13- 24°C The optimum temperature for bulb development is 15-25°C							Dry	Dry and clear weather is more suitable							
Relative Humidity											ut 70% relative l			1010							
Soil Temperature Sunshine Hour				0 to 1	0 hours				A wide range	e of soil tempe	ratures from 20	C to 35 °C,	with the opting		to 12 hours						
Favorable environme	ental conc	litions for	insects ar											10	to 12 Hours						
Thrips	Thui conc	101101101	illocoto al	ia aiscasc		Hot and dr	v weather in	ncreases Tr	ips population	n; Heavy rainfa	II reduces popu	lation; RH:4	7.6% to 78.62	%							
Common cut worm	Hot and dry weather increases Trips population; Heavy rainfall reduces population; RH:47.6% to 78.62% 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					Atmos	pheric temp	erature: 25°	C to 32°C;	Soil temperat	ure: 25°C to 2	8 °C along with	high soil mo	oisture; relativ	e humidity abo	ve 70% and D	ry atmospher	ric conditions	l			-
Weather warning																					
Rainfall (mm)	Heavy-rainfall events in short spells result in surface water stagnation (5 to 10 mm per day)																				
Cloudy weather																Cloud	dy weather				
Drought Duration of stay wet						3 to	5 days				7 to 10 d	ays				2 to	o 3 days				
(day) Hailstorms	Hailstorm	ns with seas	onal rainfall																		
Wind speed (Km/hr.)	i idilotoffi	15 11111 3003	Jonai Taimaii								≥ 16 km	ı/hr									
Temperature (°C)											Above 3										

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

Dinajpur 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)	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				
Stages		Germina	tion and		Vegetative Growth				Dulk formation							Harvesting									
	Germination and Vegetative Growth Seedling Planting									Bulb formation									า เฉางธรแท่ง						
Favorable environment	1000 1 0000							•	TI C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																
Temperature	10°C to 30°C						emperature se is 13- 24		The optimum temperature for bulb development is15-25°C Dry and clear weather is more suitable																
Relative Humidity				<u> </u>	vogo	tativo pria	00 10 10 2	10	<u> </u>	Requ	uires about 70)% relative hu	midity for goo	d growth											
Soil Temperature									A wi	de range of s	oil temperatu	res from 20°C	to 35 °C, with	n the optimum a											
Sunshine Hour				9 to 10					10 to 12 hours																
Favorable environmenta	l conditior	ns for ins					- · .					7. 70.000/													
Thrips	F	11. 1. (.							avy rainfall red	luces populat	tion; RH:47.6	% to 78.62%			_										
Common cut worm	developi 90%	ment thre	shold tem	perature	h relative for all sta	ges is 37	°C; RH: 50	1% to																	
Purple blotch	Warm ter wetness	mperature (12 hours o	(21°C to 3 or more) fa	0 °C); Hig vored dise	ease develo	opment.								prolonged leaf											
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																								
Weather warning																									
Rainfall (mm) Cloudy weather									Heavy-rain	ifall events in	short spells i	esult in surfa	ce water stagr	nation (5 to 10 r	nm per day) Cloudv weather										
Drought	1	7 to 10 days																							
Duration of stay wet (day)	+			3 to 5	davs							r to ro day	yo		2 to 3 days										
Hailstorms	Hailstorm	ns with sea	sonal rainf						<u>l</u>						100000										
Wind speed (Km/hr.)												≥ 16 km/l	nr		1										
Temperature (°C)		Above 35°C																							