Crop Weather Calendar of Rabi Onion: CumillaRegion (Districts: Cumilla, Chandpur, B.Baria) Bangladesh

Cumilla Region			Life span: 100-110 days															
Months	February	March					April		1		May							
Std.Week	5 6 7 8		8	8 9 10		11 12 13		13	14 15		16	17	18	19	20	21		
Rainfall (mm)	3.0	3.0	6.0	7.5	4.5	7.0	9.0	19.0	27.0	25.5	23.0	33.0	42.0	54.5	63.5	66.0	71.0	
Max. Temp. (°C)	16.2	27.3	28.1	29.1	29.8	30.9	32.0	32.2	32.5	32.5	33.0	33.2	33.1	32.9	33.2	33.2	32.9	
Min. Temp. (°C)	14.2	14.5	16.2	16.7	18.1	19.2	19.9	21.5	22.0	23.1	23.5	23.7	23.5	23.7	24.3	24.7	25.2	
Mean Temp. (°C)	20.2	20.9	22.1	22.9	23.9	25.0	25.9	26.8	27.3	27.8	28.2	28.4	28.3	28.3	28.7	28.9	29.0	
RHmax (%)	94.6	94.4	93.9	94.1	93.9	93.9	93.5	93.7	94.0	94.1	93.8	93.9	94.1	94.2	94.0	94.5	94.3	
RHMin (%)	47.7	45.2	46.8	46.1	46.8	47.4	47.7	52.6	55.9	58.7	59.6	60.9	61.7	63.0	63.5	64.8	66.7	
RHmean (%)	71.1	69.8	70.3	70.1	70.3	70.6	70.6	73.1	74.9	76.4	76.7	77.4	77.9	78.6	78.7	79.6	80.5	
SShr (hrs)	47.0	50.0	49.5	50.5	52.5	52.5	52.5	51.0	48.5	51.0	52.0	52.5	51.0	47.5	47.5	46.5	41.0	
WD (deg)	203	214	206	214	215	216	211	199	191	194	187	185	179	180	192	183	192	
WS(Km/hr)	4.6	4.6	4.6	4.6	4.6	4.8	5.5	5.6	6.8	7.1	7.9	7.7	7.5	7.4	7.7	7.5	6.8	
																	S	
Stages	Germination and			Veg	Vegetative Growth			Bulb formation					Harvesting					
	Seedling Planting																	
Favorable environment	_																	
Temperature	10°C to 30°C The op					mperature for e is 13- 24°C			e optimum ter 5-25°C	mperature for bulb development Dry and clear weather						is more su	itable	
Relative Humidity	Requires about 70% relative humidity for good growth																	
Soil Temperature						de range of s	oil tempera	tures fro	m 20°C to 35			at 24°C						
Sunshine Hour		9 to 10 hours			9 t	o 10 hours				10 to 12	hours							
Favorable environmental conditi	ions for insec	ts and disea	ises															
Thrips		Hot and	dry weather ir	rcreases T	rips popula	tion; Heavy r	ainfall redu	ces popu	ulation; RH:4	7.6% 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		rature (21°C t	ess (12 hours	or more) f	avored dise	ease develop	ment.			-								
Basal bulb rot		Atmospheric	temperature:	25°C to 3	2°C; Soil te	emperature: 2	25°C to 28	°C along	with high so	il moisture;	relative hun	nidity abov	e 70% and	Dry atmos	pheric cond	ditions		
Weather warning																		
Rainfall (mm)					Heavy-rain	fall events in	short spel	s result i	n surface wa	ter stagnati	on (5 to 10 r	mm per day	y)					
Cloudy weather												Cloud	y weather					
Drought	7 to 10 days																	
Duration of stay wet (day)	1	3 to 5 days										2 to	3 days					
Hailstorms	Hailstorms w	ith seasonal ra	infall															
Wind speed (Km/hr.)									6 km/hr									
Temperature (°C)								Abo	ove 35°C									

Crop Weather Calendar of Kharif Onion: Cumilla Region (Districts: Cumilla, Chandpur, B.Baria) Bangladesh

Cumilla Region		Kharif Onion							Life span: 100-110 days											
Months	July	July August							September							October				
Std.Week	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43			
Rainfall (mm)	96.0	88.0	107.0	95.0	84.0	66.5	82.5	73.0	66.0	53.0	66.5	68.0	53.0	51.0	46.5	30.5	16.0			
Max. Temp. (°C)	31.2	31.5	31.3	31.5	32.0	32.0	31.9	32.0	32.0	31.8	32.0	32.0	32.0	32.3	31.9	31.8	31.2			
Min. Temp. (°C)	26.0	26.0	25.7	26.0	25.9	26.0	26.0	26.0	25.9	25.7	25.6	25.6	25.6	25.4	24.7	24.3	22.8			
Mean Temp. (°C)	28.6	28.7	28.5	28.7	28.9	29.0	28.9	29.0	28.9	28.8	28.8	28.8	28.8	28.8	28.3	28.0	27.0			
RHmax (%)	95.4	95.0	95.5	95.3	94.9	94.8	94.9	95.3	95.0	95.2	95.5	95.4	95.6	95.6	95.7	95.5	95.2			
RHMin (%)	76.8	75.9	76.6	75.2	74.2	73.9	74.8	74.0	73.4	73.5	73.1	72.2	71.1	70.2	68.1	65.8	61.9			
RHmean (%)	86.1	85.4	86.0	85.2	84.5	84.3	84.9	84.6	84.2	84.3	84.3	83.8	83.3	82.9	81.9	80.6	78.5			
SShr (hrs)	23.5	30.0	26.5	31.0	30.0	31.5	32.0	30.5	34.5	32.0	33.0	33.5	35.0	39.0	43.0	44.5	50.5			
WD (deg)	179	174	174	179	178	182	177	182	179	186	191	197	201	203	214	201	187			
WS(Km/hr)	7.3	7.0	7.5	6.7	6.7	6.2	6.6	5.8	5.6	5.3	5.7	4.7	4.7	4.6	4.3	4.3	4.0			
Stages	Germina	Germination and Seedling Planting			getative G	rowth			Bulb formati	ion		Harvesting				T				
Favorable environment		5 5 Togottato Cionali												· · · · · · · · · · · · · · · · · ·						
Temperature		10°C to 30°C			The optimum temperature for vegetative phase is 13- 24°C					•	for bulb de	/elopment]	Dry and clear weather is more suitable						
Relative Humidity		Requires about 70% relative humidity for good growth																		
Soil Temperature							soil temper	atures fro	om 20°C to 3			at 24°C								
Sunshine Hour		9 to 10 hours 9 to 10 hours 10 to 12 hours																		
Favorable environmental conditions for insects and diseases Thrips Hot and dry weather increases Trips population; Heavy rainfall reduces population; RH:47.6% to 78.62%																				
Thrips	Favorand b							luces pop	oulation; RH:4	17.0% to 78	.62%									
Common cut worm		y low temper																		
Purple blotch	Warm temp	development threshold temperature for all stages is 37 °C; RH: 50% to 90% 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	23.3000 pro		ric temperatur					3 °C along	g with high so	oil moisture	; relative hu	midity abov	e 70% and	Dry atmos	pheric con	ditions				
Weather warning		•				•								-						
Rainfall (mm)					Heavy-rair	nfall events	in short spe	lls result	in surface wa	ater stagnat	ion (5 to 10	mm per da	ıy)							
Cloudy weather		Cloudy weather																		
Drought		7 to 10 days																		
Duration of stay wet (day)	11.71	3 to 5 days 2 to 3 days Hailstorms with seasonal rainfall																		
Hailstorms	Hailstorms	with seasonal	raintall						401 "											
Wind speed (Km/hr.)		≥ 16 km/hr																		
Temperature (°C)		Above 35°C																		