
























Crop Insect Weather Calendar of *Rabi* season Pointed gourd (*Epilachna* beetle insect): Cumilla region (Districts: Cumilla, Chandpur, Brahmanbaria), Bangladesh

Region: Cumilla		<i>Rabi</i> season Pointed Gourd: <i>Epilachna</i> beetle insect										Duration: 100-120 days							
Weather warning	Month	October					November					December			January				
	Max. Temp. (°C)	High temperature (35 °C); 25°C temperature favored both fecundity and food consumption of the <i>Epilachna</i> beetle as well as larval development																	
	Min. Temp. (°C)	Population decreased with the temperature fall below 23 °C																	
	RH Max (%)	High relative humidity favored <i>Epilachna</i> beetle (70% or above)																	
	RH Min (%)	30%																	
	Rainfall (mm)	Rainfall is favorable for the activity of <i>Epilachna</i> beetle population																	
Weekly normal weather	Std. Week/Normal	40	41	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4	
	Rainfall (mm)	51.0	46.5	30.5	16.0	11.5	18.0	8.5	4.0	2.5	0.00	4.5	1.0	1.5	0.0	0.0	0.0	1.5	
	Max. Temp. (°C)	32.3	31.9	31.8	31.2	31.0	30.5	29.8	29.0	28.2	27.7	26.5	25.8	25.4	24.7	24.5	25.0	25.4	
	Min. Temp. (°C)	25.4	24.7	24.3	22.8	21.8	21.0	19.3	18.1	16.9	15.8	15.0	14.2	13.4	13.0	12.7	12.7	12.6	
	RH max (%)	95.6	95.7	95.5	95.2	95.3	95.6	95.3	95.4	95.8	95.8	96.2	96.0	96.0	96.0	95.5	95.3	94.4	
	RH Min (%)	70.2	68.1	65.8	61.9	60.6	58.2	54.8	52.6	52.2	50.6	51.9	52.1	51.3	51.8	51.2	49.1	46.4	
	SS hr (hrs)	39.0	43.0	44.5	50.5	47.0	49.5	50.0	50.5	48.5	47.5	42.5	40.5	40.0	40.0	37.0	43.5	47.0	
Growth stage																			
insect Life cycle																			
				Eggs (2 to 5 days)			Grub (4 to 9 days)		Pupa (9 to 15 days)		Adults (3 to 10 days)		Eggs (2 to 5 days)		Grub (4 to 9 days)		Pupa (9 to 15 days)		

Crop Insect Weather Calendar of *Kharif* season Pointed gourd (*Epilachna* beetle insect): Cumilla region (Districts: Cumilla, Chandpur, Brahmanbaria), Bangladesh

Region: Cumilla		Kharif season Pointed Gourd: <i>Epilachna</i> beetle insect										Duration: 100-120 days									
Weather	Month	February					March					April			May						
	Max. Temp. (°C)	High temperature (35 °C); 25°C temperature favored both fecundity and food consumption of the <i>Epilachna</i> beetle as well as larval development																			
	Min. Temp. (°C)	Population decreased with the temperature fall below 23 °C																			
	RH Max (%)	High relative humidity favored <i>Epilachna</i> beetle (70% or above)																			
	RH Min (%)	30%																			
	Rainfall (mm)	Rainfall is favorable for the activity of <i>Epilachna</i> beetle population																			
Weekly normal	Std. Week/Normal	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		
	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	80.0		
	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	33.1		
	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	25.6		
	RH max (%)	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	94.6		
	RH Min (%)	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	69.0		
	SS hr (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	38.0		
Growth stage																					
	Spouting & Seedling		vegetative growth					Flowering & fruiting						Harvesting							
Insect Life cycle																					
	Eggs (2 to 5 days)		Grub (4 to 9 days)		Pupa (9 to 15 days)		Adults (3 to 10 days)		Eggs (2 to 5 days)		Grub (4 to 9 days)		Pupa (9 to 15 days)		Adults (3 to 10 days)						