Crop Weather Calendar of Rabi season Soybean: Barisal Region (Districts: Barisal, Patuakhali, Jhalakathi, Barguna & Bhola), Bangladesh

Region: Barisal	Rabi season Soybean								Life span: 110-120 day								
Months		Jan	uary	February				March				April					
Std. Week/Normal	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Rainfall (mm)	1.3	1.0	1.0	1.7	2.7	3.7	5.0	8.0	5.7	5.3	6.0	14.3	18.0	18.0	21.7	25.0	34.7
Max. Temp. (°C)	25.1	25.2	25.8	26.2	27.0	27.8	28.9	29.7	30.7	31.7	32.7	33.0	32.9	33.3	33.7	33.5	33.5
Min. Temp. (°C)	12.6	12.5	12.7	12.5	14.0	14.6	16.2	16.9	18.3	19.5	20.5	22.1	22.8	23.7	24.0	24.6	24.4
Mean Temp. (°C)	18.9	18.9	19.2	19.4	20.5	21.2	22.5	23.3	24.5	25.6	26.6	27.6	27.9	28.5	28.8	29.1	29.0
RH max (%)	98.0	97.8	97.6	97.6	97.3	97.1	97.0	97.0	96.7	97.1	96.7	96.5	96.5	96.6	96.4	96.0	96.0
RH Min (%)	50.1	49.3	48.5	45.2	46.2	44.8	46.2	45.1	44.9	45.2	45.3	50.7	54.4	58.0	59.8	61.9	62.5
RH mean (%)	74.1	73.6	73.1	71.4	71.7	70.9	71.6	71.0	70.8	71.2	71.0	73.6	75.4	77.3	78.1	78.9	79.3
SS hr (hrs)	46.7	44.0	47.3	52.7	50.3	52.3	51.7	52.0	53.7	54.0	54.3	52.3	50.7	53.0	51.3	54.7	51.7
WD (deg)	209	211	204	216	217	211	214	211	214	226	218	210	198	200	198	197	191
WS(Km/hr)	4.5	4.4	4.5	4.3	5.0	4.6	4.9	4.9	5.1	5.2	5.4	6.3	6.7	6.9	7.0	7.5	7.2
Growth stages	Germina	ation and en	mergence			Vegetativ	ve stage				Repr	roductive	stage			laturity Harvesti	
Favourable Environment																	
Temperature	Germination rate lower below 13°C and maximum at 25°C			The optimum temperature is 20°C -50°C; at 55°C temperatures and above considered inhibitory to production.													
Relative humidity								50% to 70%									
Soil temperature	At least 10°C required for germination and root nodulation; Root zone temperature for adequate nodulation and nitrogen fixation is needed at least 15°C to 17°C whereas 25°C is optimal.																
Sunshine hour	1:4: 6	-411					Six to eig	ght hours of s	sunlight								
Favorable environmental of Hairy caterpillar	onditions for inse	ects and disea	Egg, larva and pupa gradually increased with increase in temperature, while total developmental period and adult survival period decreased. The maximum and minimum temperatures for larva development are 39 ± 1°C and 12 ± 1°C.respectively.														
Common Cut warm				Lowest fecundity and fertility of eggs occur at 34.90 °C; the upper development threshold temperature for all stages is 37 °C; The highest fecundity and fertility of eggs occur at 19.55 °C; RH-65% to 85%.													
Leaf roller				Temperatures between 25° C and 30° C are favorable for the survival and multiplication of leaf roller.													
Pod borer				Maximum temperature: 27.48°C -31.44°C, Minimum temperature: 19.73°C -23.91°C; Average relative humidity ranging from 86.18% - 93.61%; The weekly average of total rainfall ranging from 11.07-94.33 mm with low or medium rainfall in previous weeks followed by high in current weeks.													
Anthracnose		For disease development maximum temperature ranged from 28 °C to 32 °C and minimum temperature 22 °C to 25 °C, Frequent rainy and warm weather along with prolonged leaf wetness (exceed 12 hrs/day) favored disease development									ong with						
Yellow Mosaic Virus	Viral infection and symptom appearance are found most severe at 18 °C to 20 °C but may not be apparent at the temperature higher than 30 °C; Disease development favored by rainfall.																

Weather Warning							
Rainfall	Occurrence of rainfall delayed sowing (5 to 10 mm)	Less than 20 mm					
Cloudy weather	Cloudy condition						
Drought	Too much dry weather creates soil moisture stress						
Duration of staying wet			Soybeans can tolerate brief water logging but long-term causes weathering of see				
Hailstorm			Early rainfall with hailstorms				
Windspeed	15 Km/hr or more						
Temperature	35.5° C or more						