Crop Weather Calendar of *Rabi* season Soybean: Rangpur Region (Districts: Rangpur, Lalmonirhat, Nilphamari, Kurigram, Gaibandha), Bangladesh

Region: Rangpur	Rabi season Soybean								Life span: 110-120 day								
Months	January			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)	1.0	2.5	2.0	1.0	1.0	1.5	3.5	1.5	2.5	1.0	2.5	5.5	18.5	11.0	19.5	28.5	31.5
Max. Temp. (°C)	22.7	22.4	23.2	23.4	24.7	25.9	26.7	27.5	28.5	29.9	30.8	31.6	31.4	32.1	32.5	32.3	32.0
Min. Temp. (°C)	10.9	10.4	10.8	10.8	11.8	12.7	13.7	14.4	15.3	16.1	17.3	18.4	19.5	20.3	21.1	21.9	21.9
Mean Temp. (°C)	16.8	16.4	17.0	17.0	18.3	19.3	20.2	21.0	21.9	23.0	24.0	25.0	25.4	26.2	26.8	27.1	27.0
RH max (%)	96.0	96.0	95.8	95.7	95.5	94.3	93.7	92.9	91.4	89.8	88.7	88.1	87.7	88.5	88.4	89.9	90.9
RH Min (%)	58.5	57.8	56.2	54.2	51.6	48.0	47.1	45.3	42.8	39.6	40.8	42.5	48.8	49.7	50.7	56.7	59.0
RH mean (%)	77.3	76.9	76.0	74.9	73.5	71.2	70.4	69.1	67.1	64.7	64.7	65.3	68.3	69.1	69.5	73.3	75.0
SS hr (hrs)	36.0	36.5	39.5	41.0	44.0	48.5	50.0	51.5	56.5	57.5	57.0	54.0	49.0	51.5	51.0	47.5	47.0
WD (deg)	199	214	199	210	208	192	201	201	201	207	196	179	152	148	141	135	118
WS(Km/hr)	5.7	5.7	5.7	5.6	6.2	6.6	7.5	7.2	7.7	7.8	8.2	8.7	8.7	8.3	8.4	8.3	8.6
Growth stags	Germina	tion and er	mergence			Vegetati	ve stage				Re	eproductive	stage		Matu	urity and Har	vesting
Favourable Environment																	
Temperature	Germinati 13°C and	The optimum temperature is 20°C -30 °C; at 35°C temperatures and above considered inhibitory to production.															
Relative humidity										50% to 7							
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	Six to eight hours of sunlight																
Favorable environmental	conditions	s for inse	cts and d												<u> </u>		
Hairy caterpillar		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				Temp	eratures	betwee	en 25° (and 3	0° C are	favorable	for the su	rvival and	multiplicat	ion of leaf 1	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													

Yellow Mosaic Virus	Viral infection and symptom appe	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								
Cloudy weather		Cloudy condition								
Drought		Too much dry weather creates moisture stress								
Duration of staying wet		Soybeans can tolerate brief water logging but long-term causes weather								
Hailstorm			Early rainfall with hailstorms							
Windspeed		15 Km/hr or more								
Temperature		35.5° C or more								