

Crop Weather Calendars

The crop-weather calendars are used in agromet-advisory services. With the week as the basic time unit, the compiled information can assist forecasters in framing weather warnings and forecasts directed at farmers. Crop-weather calendars provide information on crop growth stages, normal weather for crop growth, warnings to be issued based on prevailing weather condition, water requirement of crops during their various phenophases and weather conditions favourable for development of crop pests and diseases. These calendars are useful for crop planning, irrigation scheduling and plant protection measures. Information contained in the calendars gives broad indications of the direction of development which may prove useful to the planners, agricultural administrators, plant breeders and the farmers in formulating policy matters regarding plant breeding, crop adoption, drought, supplemental irrigation, maximizing the yield. Crop weather calendars can act as guiding tool while issuing crop weather advisories for the farming community.








Crop Weather Calendar (India)

CROP WEATHER CALENDAR																																											
STATE :	MADHYA PRADESH							CROP :	WHEAT							VARIETY :	WH-147, LOK-1, C-306, HDM-1553, N-4							SOIL :	SANDY LOAM, CLAY LOAM, BLACK COTTON, ALLUVIAL																		
DISTRICTS :	GWALIOR, DATIA, SHIVPURI, GUNA							IRRIGATED/NON-IRRIGATED								DURATION :	110-145 DAYS																										
Weather warnings	Rain	> 50 MM/DAY							> 100 MM/DAY							> 100 MM/DAY																											
	Duration of wet spell	> 50 MM FOR 3-4 DAYS							> 75 MM FOR 3-4 DAYS							> 50 MM FOR 3-4 DAYS																											
	Cloudy weather								CLOUDY WEATHER							CLOUDY WEATHER																											
	Drought	20 DAYS							20 DAYS							20 DAYS																											
	High winds	> 50 KM/HR							> 50 KM/HR							> 50 KM/HR																											
	Temperature	MAX. TEMP. > 30°C, MIN. TEMP. < 15°C							MAX. TEMP. > 30°C, MIN. TEMP. < 15°C							MAX. TEMP. > 32°C, MIN. TEMP. < 15°C																											
Weather conditions favourable for incidence of pests and diseases	Pests	STEM BORER, APHIDS, TERMITES, ARMY WORMS, CUT WORMS							STEM BORER, APHIDS, TERMITES, ARMY WORMS, CUT WORMS							STEM BORER, APHIDS, TERMITES, ARMY WORMS, CUT WORMS																											
	Weather	CLOUDY WEATHER							CLOUDY WEATHER							CLOUDY WEATHER																											
	Diseases	RUST, LEAF SPOTS, LEAF BLIGHT							RUST, LEAF SPOTS, LEAF BLIGHT							RUST, LEAF SPOTS, LEAF BLIGHT																											
	Weather	HIGH HUMIDITY, CLOUDINESS							HIGH HUMIDITY, CLOUDINESS							HIGH HUMIDITY, CLOUDINESS																											
Normal phase wise water requirement(mm)		47							128							77							137							39							TOTAL = 428						
Weekly normal weather	Rainfall(mm) total																																										
	Max. temp. °C	28.6 28.9 28.4 25.8 25.3 24.9 23.8 23.5 23.2 23.0 24.8 24.5 23.3 26.8 27.4 28.6 31.2 32.7 33.8 35.5 36.3																																									
	Min. temp. °C	11.2 11.3 9.8 8.2 7.9 7.5 7.1 6.7 7.4 7.3 7.9 8.1 8.2 10.1 10.9 12.2 13.7 15.1 16.3 17.9 19.0																																									
	Sunshine hours	5.2 5.4 5.1 5.6 5.8 5.4 5.2 5.3 5.4 5.5 5.6 5.5 5.6 5.8 5.1 5.8 5.4 5.4 5.3 5.7 5.8																																									
Life history and mean dates of important epochs of crop growth																																											
	Standard weeks																																										
	Months																																										
	NOVEMBER DECEMBER JANUARY FEBRUARY MARCH APRIL																																										

D.D.G.M.(AGRIMET),I.M.D:PUNE 2005

Crop Weather Calendar (Bangladesh)

Crop Weather Calendar of Potato: Barishal Region (Districts:Jhalakati, Patuakhali, Pirujpur, Barguna, Barishal, Bhola), Bangladesh

Region:Barishal	Potato											Time duration : 105 days				
Months	November				December				January				February			
Std.Week/Normal	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	
Rainfall (mm)	25.3	9.0	6.0	7.0	1.7	4.0	1.3	0.7	1.3	1.0	1.0	1.7	2.7	3.7	5.0	
Max. Temp. (°C)	30.5	29.9	29.3	28.3	27.8	27.0	26.2	25.7	25.1	25.2	25.8	26.2	27.0	27.8	28.9	
Min. Temp. (°C)	21.0	19.6	18.4	16.7	15.6	14.9	14.0	13.1	12.6	12.5	12.7	12.5	14.0	14.6	16.2	
Mean Temp. (°C)	25.7	24.8	23.9	22.5	21.7	21.0	20.1	19.4	18.9	18.9	19.2	19.4	20.5	21.2	22.5	
RHmax (%)	97.7	97.8	97.8	97.8	98.0	97.9	98.2	98.2	98.0	97.8	97.6	97.6	97.3	97.1	97.0	
RHMin (%)	60.7	56.6	53.7	51.8	50.6	50.9	50.7	50.3	50.1	49.3	48.5	45.2	46.2	44.8	46.2	
RHmean (%)	79.2	77.2	75.8	74.8	74.3	74.4	74.4	74.3	74.1	73.6	73.1	71.4	71.7	70.9	71.6	
SShr (hrs)	47.3	49.0	50.0	51.3	48.7	46.3	44.3	43.7	46.7	44.0	47.3	52.7	50.3	52.3	51.7	
WD (deg)	214	232	217	212	225	223	212	212	209	211	204	216	217	211	214	
WS(Km/hr)	3.1	2.7	3.3	3.6	3.1	3.4	3.3	3.9	4.5	4.4	4.5	4.3	5.0	4.6	4.9	
Stages																
	Spouting	Seedling	vegetative growth		Tuber set/ initiation			Tuber bulking/ development		Maturity			Harve sting			

Favorable Weather Conditions				
Temperature	18-21°C	10-18°C	Day temperature 18-20 °C and night temperature <15°C	
SShr (hrs)	At least 6-9	At least 6-9	At least 6-9	
RH(hr)	65-80%	65-80%	65-80%	
Soil temp.(°C)	15-18°C			