

CROP WEATHER CALENDARS

FOR

ASSAM

PUBLISHED BY

DIRECTOR GENERAL OF METEOROLOGY

MAUSAM BHAVAN

LODI ROAD, NEW DELHI – 110 003

2002

PREFACE

Information on normal weather conditions and water requirement of crops is of vital importance for effective crop planning and management. From this point of view, the India Meteorological Department had compiled Crop Weather Calendars for major cereals, pulses and oilseed crops in the country on a districtwise basis. These calendars provide numerical as well as pictorial information on factors favourable or unfavourable to crops at various stages of their growth.

As and when new strains are introduced by plant breeders and bio-technologists, agricultural practices change accordingly, the crop weather calendars tend to lose some of their relevance. A periodical updating of these calendars thus becomes necessary. This publication which is the fourth in the new series of crop weather calendars is for the state of Assam for Paddy, Rape and Mustard, Jute and Sugarcane crops.

It is hoped that the crop weather calendars would prove useful in a wide range of applications such as plant breeding, crop adaptation, drought proofing and irrigation management, ultimately resulting in maximizing the yield.

The preparation of the calendars would not have been possible without the close co-operation of the Department of Agriculture, Govt. of Assam, which is gratefully acknowledged. These calendars were prepared by the Division of Agricultural Meteorology, Meteorological Office, Pune. I have great pleasure in acknowledging the work done by Shri S. K. Banerjee, DDGM (Agrimet), Dr. H.P. Das, Director; Shri S. Sengupta, Meteorologist Grade I; Shri R. S. Abhyankar, Assistant Meteorologist Grade I; Smt S. H. Bhandari and Smt M. V. Kamble in preparing these calendars.

(R. R. KELKAR)

Director General Of Meteorology

PUNE : 411 005

Dated : 2002

CONTENTS

Crop	Page No	Districts	Crop	Page No	Districts
Paddy (Summer)	1	Dhubri, Goalpara, Kamrup, Darrang	Sugarcane	11	N. C. Hills
	2	Jorhat, Golaghat, Sibsagar			
	3	Cacher	Mustard	12	Kokrajhar, Nalbari
Paddy (Kharif)				13	Karbi, Anglong, Sonitpur
	4	Kokrajhar, Dhubri			
	5	Goalpara, Kamrup, Barpeta, Nalbari, Darrang	Rape and	14	Dibrugarh, Lakhimpur
	6	Nowgong, Karbi, Anglong, Jorhat	Mustard		
	7	N. C. Hills, Cacher, Karimganj			
	8	Golaghat, Sonitpur	Jute	15	Barpeta
	9	Dibrugarh, Lakhimpur			
Paddy (Rabi)	10	Sibsagar			

SOIL : SANDY LOAM

BLS - Bacterial Leaf Streak, BLB - Bacterial Leaf Blight, RTV - Rice Tungro Virus

**SOIL : SANDY LOAM/
CLAY LOAM**

BPH- Brown Plant Hopper, LF - Leaf Folder, GB - Gundhi Bug, GLM - Gall Midge, BLB - Bacterial Leaf Blight, RTV - Rice Tungro Virus

CROP WEATHER CALENDAR

3

STATE : ASSAM
DISTRICTS : CACHER

CROP : PADDY (SUMMER)
NON-IRRIGATED

VARIETY : KRISHNA, IR-50, IR-36, CAUVERY, CULTURE-1
DURATION : 120-150 DAYS

SANDY LOAM, ALLUVIAL
LATERITE

Weather warnings	Rain	> 65 MM / DAY										> 80 MM / DAY										> 100 MM/DAY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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Weather conditions favourable for incidence of pests and diseases	Pests	THRIPS, STEM BORER, RICE HISPA, APHIDS, JASSIDS, BPH HEAVY RAINFALL FOLLOWED BY DRY SPELL, HIGH RH AND TEMP.										CASE WORM, LEAF FOLDER, STEM BORER, HISPA, GRASS HOPPER, BPH, SWARMING CATER PILLAR HEAVY RAINFALL FOLLOWED BY DRY SPELL, HIGH RH AND TEMP.										BPH, RICE BUG, THRIPS, CUT WORM HEAVY RAINFALL FOLLOWED BY DRY SPELL, HIGH RH AND HIGH TEMP.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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	Diseases	BLIGHT, BLAST, HELMINTHOSPORIUM										BLIGHT, BLAST, HELMINTHOSPORIUM										BLIGHT, BLAST, BLB, BROWN SPOT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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Normal phase wise water requirement(mm)		135.0										287.8										141.7					116.0					60.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Weekly normal weather	Rainfall(mm) total									35.8	50.7	33.9	89.9	84.3	81.3	87.4	91.7	97.6	89.9	66.1	92.6	113.3	106.3	132.5	145.8	108.5	123.7	118.3	126.2	108.9	84.2	75.3	103.2	96.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

CROP WEATHER CALENDAR

6 copies 4

STATE : ASSAM
DISTRICTS : KOKRAJHAR, DHUBRI

CROP : PADDY (KHARIF)
NON-IRRIGATED

VARIETY : MASURI, IR-36, PANKAJ, PUSA-2, PHULDAKHRI, KALAGORIA, MANOHAR SALI,
JOYA, RANJIT, BAHADUR, LAKHIMI, MANIRAM, PIOLI
DURATION : 125-175 DAYS

SOIL : SANDY LOAM/
CLAY LOAM

Weather warnings	Rain	> 40 MM / DAY										> 50 MM / DAY										ANY RAIN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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	Temperature	MAX. TEMP. > 32°C, MIN. TEMP. < 18°C										MAX. TEMP. > 32°C, MIN. TEMP. < 18°C										MAX. TEMP. > 32°C, MIN. TEMP. < 18°C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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Weather conditions favourable for incidence of pests and diseases	Pests	THRIPS, HISPA, NEMATODE, STEM BORER										STEM BORER, WHORL MAGGOT, LEAF FOLDER, CASEWORM, HISPA										GUNDHI BUG, GALL MIDGE, HISPA, SWARMING CATER PILLAR, STEM BORER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	Weather	HIGH TEMP., HIGH HUMIDITY										CONTINUOUS RAINFALL, CLOUDY WEATHER, HIGH TEMP.										HIGH TEMP.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	Diseases	BLAST, BROWN SPOT, FOOT ROT										BLAST, BLIGHT										SHEATH ROT, BLAST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	Weather	HIGH TEMP. AND HUMIDITY										HIGH TEMP., CLOUDY WEATHER										HIGH HUMIDITY, HIGH TEMP., CLOUDY WEATHER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Normal phase wise water requirement(mm)												145.6				313.8						178.6						79.5				43.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Weekly normal weather	Rainfall(mm) total									76.8	50.9	67.5	66.2	102.8	90.4	113.4	159.0	53.3	55.8	78.9	144.0	85.7	104.8	139.6	92.2	111.7	79.5	65.3	31.5	56.7	48.4	36.8	24.5	68.8	38.2	21.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

CROP WEATHER CALENDAR

5

STATE : ASSAM
DISTRICTS : GOALPARA, KAMRUP, BARPETA,
NALBARI, DARRANG

CROP : PADDY (KHARIF)
NON-IRRIGATED

VARIETY : MASURI, PUSA, JAYA, PANKAJ, BORO, IR-36,
MANOHAR SALLIETT-6, CULTURE-1
DURATION : 125 - 175 DAYS

SOIL : SANDY LOAM

Weather warnings	Rain	> 40 MM / DAY										> 50 MM / DAY										ANY RAIN																															
	Duration of wet spell	> 35 MM FOR 7 DAYS										> 40 MM FOR 15 DAYS										ANY RAIN																															
	Cloudy weather																																																				
	Drought	20 DAYS										20 DAYS										25 DAYS																															
	High winds																																																				
	Temperature	MAX. TEMP. > 34°C, MIN. TEMP. < 18°C										MAX. TEMP. > 34°C, MIN. TEMP. < 18°C										MAX. TEMP. > 34°C, MIN. TEMP. < 18°C																															
	Hail Storm	HAIL STORM																																																			
Weather conditions favourable for incidence of pests and diseases	Pests	NEMATODE, STEM BORER, HISPA, GALL MIDGE, THRIPS, CASEWORM										HISPA, STEM BORER, CASEWORM, LEAF FOLDER, SWARMING CATER PILLAR, THRIPS										GUNDHI BUG, STEM BORER, LEAF FOLDER, HISPA, SWARMING CATER PILLAR																															
	Weather	HIGH RH AND HIGH TEMP., CLOUDY WEATHER										CLOUDY WEATHER, HIGH TEMP., HIGH RH										HIGH TEMP., CLOUDY WEATHER, CONTINUOUS RAIN																															
	Diseases	BLAST, FOOT ROT, BROWN SPOT, BACTERIAL LEAF BLIGHT, SHEATH BLIGHT										BLAST, BLS, RTV, BLB										BLAST, SHEATH ROT																															
	Weather	HIGH RH, HIGH TEMP., CLOUDY WEATHER, HIGH RAINFALL										HIGH RH, HIGH TEMP., CLOUDY WEATHER, HIGH RAINFALL										HIGH RH, CLOUDY WEATHER, CONTINUOUS RAIN																															
Normal phase wise water requirement(mm)							133.3					301.3					185.8					88.6					49.7																										
Weekly normal weather	Rainfall(mm) total						71.7	75.4	83.9	98.8	75.7	115.1	106.4	74.4	71.9	61.1	36.4	55.5	68.6	59.9	59.5	90.2	46.2	47.5	36.3	37.5	19.9	14.0	1.8	4.6	4.7	3.5	5.5																				
	Max. temp. °C						31.5	31.5	31.7	31.4	31.7	31.4	31.6	31.5	31.5	31.9	32.7	32.9	32.4	32.5	32.2	31.4	31.5	31.1	31.0	31.0	31.1	30.5	30.2	29.2	28.9	28.0	27.1																				
	Min. temp. °C						22.9	23.3	23.9	24.0	24.1	24.0	24.0	24.1	24.2	24.3	24.5	24.4	24.3	24.2	24.0	23.5	23.1	22.0	22.2	21.2	19.9	18.7	17.7	16.5	15.2	14.1	13.5																				
	Sunshine hours						6.3	5.3	4.3	3.6	3.9	2.9	3.8	4.7	3.9	4.0	5.9	4.9	4.1	4.9	4.8	4.3	5.3	4.3	5.2	6.1	7.4	8.3	7.6	7.5	7.8	8.1	7.7																				
Life history and mean dates of important epochs of crop growth																																																					
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CROP WEATHER CALENDAR

6

STATE : ASSAM
DISTRICTS : NOWGONG, KARBI, ANGLONG, JORHAT

CROP : PADDY (KHARIF)
NON-IRRIGATED

VARIETY : PANKAJ, MASURI, JAYÄ, IR-50, PUSA-2-2, MANOHAR SALI,
PIOLI, MANIRAM, LAKHIMI
DURATION : 125-175 DAYS

SOIL : SANDY LOAM/
CLAY LOAM

Weather warnings	Rain	> 40 MM / DAY										> 100 MM / DAY										> 10 MM / DAY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	Duration of wet spell	> 25 MM FOR 3 DAYS										> 50 MM FOR 3 DAYS										> 25 MM FOR 3 DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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	Drought	15 DAYS										20 DAYS										20 DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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	Hail Storm	HAIL STORM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Weather conditions favourable for incidence of pests and diseases	Pests	STEM BORER, THRIPS, LEAF FOLDER, CASEWORM, GB, GLM										HISPA, RICE BUG, SWARMING CATERPILLAR, SB, GB, LF, GLM										RICE BUG, STEM BORER, THRIPS, GLM, BPH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	Weather	FLUCTUATING TEMP., SCANTY RAIN, HIGH RH										EXCESS WATER WITH HIGH HUMIDITY										EXCESS WATER WITH HIGH HUMIDITY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	Diseases	BLAST										BLAST, SHEATH BLIGHT, BLB										BLB, NECK BLAST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	Weather	HIGH HUMIDITY AND HIGH TEMP.										HIGH RH WITH HIGH TEMP.										HIGH RH WITH HIGH TEMP.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Normal phase wise water requirement(mm)							141.2					315.8					190.4					89.9					52.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Weekly normal weather	Rainfall(mm) total					35.3	62.9	59.2	79.3	90.0	69.0	83.7	102.2	92.7	107.6	93.6	61.2	67.4	90.3	67.5	71.5	80.3	55.1	45.2	40.4	31.2	24.4	25.2	5.3	10.4	3.9	3.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

CROP WEATHER CALENDAR

7

STATE : ASSAM
DISTRICTS : N. C. HILLS, CACHER,
KARIMGANJ

CROP : PADDY (KHARIF)
NON-IRRIGATED

VARIETY : PANKAJ, MASURI, IET-6666, IET-7590,
MANOHAR SALI, MANIRAM
DURATION : 125-175 DAYS

SOIL : ALLUVIAL RED LATERITE
SANDY LOAM/CLAY LOAM

Weather warnings	Rain	> 60 MM / DAY										> 80 MM / DAY										ANY RAIN																
	Duration of wet spell	> 40 MM FOR 6 DAYS										> 60 MM FOR 7 DAYS																										
	Cloudy weather											CLOUDY WEATHER																										
	Drought	15 DAYS										20 DAYS										15 DAYS																
	High winds																																					
	Temperature	MAX. TEMP. > 32°C, MIN. TEMP. < 23°C										MAX. TEMP. > 32°C, MIN. TEMP. < 23°C										MAX. TEMP. > 32°C, MIN. TEMP. < 23°C																
	Hail Storm																					HAIL STORM																
Weather conditions favourable for incidence of pests and diseases	Pests	THRIPS, HISPA, SWARMING CATER PILLAR, STEM BORER, RICE HISPA, APHIDS, JASSIDS,										STEM BORER, CASE WORM, HISPA, LEAF FOLDER, CUT WORMS, GRASS HOPPER, BPH, HEAVY RAINFALL, HIGH TEMP., HIGH HUMIDITY										RICE BUG, BPH, THRIPS, CUT WORM																
	Weather	HIGH TEMP., HIGH HUMIDITY										HIGH TEMP., HIGH RH										CLOUDY WEATHER, HIGH TEMP., HIGH HUMIDITY																
	Diseases	BLIGHT, BLAST, HELMINTHOSPORIUM										BLE, BLAST, BROWN SPOT, SHOOT ROT, STEM ROT										BLAST, BLIGHT, NECK BLAST, BLB																
	Weather	CLOUDY WEATHER WITH LOW TEMP., AT NIGHT LIGHT RAINFALL AND DEW										HIGH TEMP., HIGH RH										HIGH TEMP., HIGH RH																
Normal phase wise water requirement(mm)							130.6					290.0					179.8					77.8					45.6											
Weekly normal weather	Rainfall(mm) total						99.6	129.5	122.1	96.5	108.2	99.5	112.0	86.2	70.4	66.0	82.0	80.6	94.3	94.4	44.9	61.2	75.2	47.7	38.3	17.5	8.6	24.7	9.9	1.2	12.4	10.0						
	Max. temp. °C						30.0	29.9	29.9	30.1	30.4	29.8	28.9	29.3	30.5	30.9	30.3	30.0	30.0	29.3	30.3	29.9	29.4	29.1	29.4	28.6	28.6	27.5	27.2	26.7	25.8	25.1						
	Min. temp. °C						22.9	23.0	23.3	23.3	23.5	23.3	23.2	23.1	23.4	23.5	23.5	23.2	22.9	22.6	22.7	22.1	22.6	21.7	21.4	20.6	19.0	18.5	17.4	16.5	15.7	14.5						
	Sunshine hours						3.4	3.6	4.4	4.7	4.4	3.6	3.9	4.2	4.5	4.9	4.8	4.6	5.8	5.0	5.5	6.1	5.9	6.0	7.9	7.5	7.6	8.1	7.9	8.2	7.8	8.4						
Life history and mean dates of important epochs of crop growth																																						

CROP WEATHER CALENDAR

STATE : ASSAM
DISTRICTS : GOLAGHAT,
SONITPUR

CROP : PADDY (KHARIF)
NON-IRRIGATED

VARIETY : MASURI, PUSA 2-21, IR-36, RANJIT, BAHADUR, MANOHAR SALI
DURATION : 135-175 DAYS

**SOIL : MEDIUM TEXTURED
SANDY LOAM**

[illegible]

CROP WEATHER CALENDAR

9

STATE : ASSAM CROP : PADDY (KHARIF) VARIETY : MASURI-LOCAL, RANJIT, BAHADUR, PANKAJ, JAYA SOIL : SANDY LOAM / CLAY LOAM
DISTRICTS : DIBRUGARH, NON-IRRIGATED DURATION : 135-175 DAYS
LAKHIMPUR

Weather warnings	Rain	> 20 MM / DAY										> 25 MM / DAY										ANY RAIN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	Duration of wet spell	> 40 MM FOR 7 DAYS										> 50 MM FOR 7 DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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	Drought	20 DAYS										25 DAYS										25 DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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	Temperature	MAX. TEMP. > 39°C. MIN. TEMP. < 17°C										MAX. TEMP. > 32°C. MIN. TEMP. < 17°C										MAX. TEMP. > 32°C. MIN. TEMP. < 17°C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	Hail Storm	HAIL STORM										HAIL STORM										HAIL STORM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Weather conditions	Pests	STEM BORER, HISPA										STEM BORER, HISPA, CASEWORM										GUNDHI BUG																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
favourable for incidence of pests and diseases	Weather	CLOUDY WEATHER, CONTINUOUS RAIN										CONTINUOUS RAINFALL										CONTINUOUS RAINFALL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	Diseases	BLAST, HELMINTHOSPORIUM										BLAST, SHEATH BLIGHT, BLB, HELMINTHOSPORIUM										SHEATH BLIGHT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	Weather	WET HUMID CONDITION										WET HUMID CONDITION										WET HUMID CONDITION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Normal phase wise water requirement(mm)							139.4					314.5					189.7					88.1					51.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Weekly normal weather	Rainfall(mm) total						53.0	77.2	74.9	97.0	116.8	86.5	135.5	123.0	120.6	123.9	91.4	96.1	114.3	113.5	90.7	91.9	101.3	72.1	79.7	50.1	41.8	43.8	14.9	2.5	7.6	1.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

CROP WEATHER CALENDAR

10

STATE : ASSAM
DISTRICTS : SIBSAGAR

CROP : PADDY (RABI)
IRRIGATED

VARIETY : PUSA 2-21, IR-36, BISHNU PRASAD, JYOTHI PRASAD, MASURI
DURATION : 135-175 DAYS

SOIL : SANDY LOAM

Weather warnings	Rain	> 120 MM / DAY										> 150 MM / DAY										ANY RAIN																	
	Duration of wet spell	> 80 MM FOR 5 DAYS										> 150 MM FOR 5 DAYS										> 100 MM FOR 5 DAYS																	
	Cloudy weather	CLOUDY WEATHER																																					
	Drought																																						
	High winds	> 40 KM/HR																																					
	Temperature																																						
	Hail Storm	HAIL STORM																																					
Weather conditions favourable for incidence of pests and diseases	Pests	STEM BORER, RICE HISPA										STEM BORER, RICE HISPA										STEM BORER, RICE HISPA																	
	Weather	HIGH RELATIVE HUMIDITY										HIGH RELATIVE HUMIDITY										HIGH RELATIVE HUMIDITY																	
	Diseases	BLAST, FOOT ROT										BLAST, BLS. BLB. RTV										BLAST																	
	Weather	HIGH RELATIVE HUMIDITY										HIGH RELATIVE HUMIDITY										HIGH RELATIVE HUMIDITY																	
Normal phase wise water requirement(mm)							86.6					164.2										130.6					82.6			58.6									
Weekly normal weather	Rainfall(mm) total						6.7	7.1	4.2	2.5	2.0	7.6	2.8	0.5	2.2	4.0	3.1	3.6	3.9	5.2	11.9	3.0	6.7	4.2	6.9	16.6	14.2	16.1	27.5	39.3	46.0	28.2	36.7						
	Max. temp. °C						30.1	29.0	28.7	27.8	26.8	26.9	26.2	25.8	22.3	23.3	22.8	23.8	23.4	23.4	23.4	25.7	26.4	27.3	28.4	28.5	29.2	30.0	29.7	29.4	30.0	30.8	30.9						
	Min. temp. °C						18.8	18.5	17.8	17.3	14.7	14.0	13.1	12.7	10.3	8.4	9.1	9.4	9.2	10.0	10.6	12.5	13.1	13.9	14.8	15.3	15.8	17.4	21.0	19.6	19.0	20.3	21.4						
	Sunshine hours						6.3	6.6	6.6	6.6	6.5	6.7	6.4	6.4	5.6	6.3	6.2	6.6	6.6	6.4	6.0	6.7	6.7	6.8	7.0	6.6	6.4	6.3	6.3	5.7	5.8	6.5	4.8						
Life history and mean dates of important epochs of crop growth																																							
Standard weeks							44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18						
		NOVEMBER						DECEMBER						JANUARY					FEBRUARY					MARCH				APRIL				MAY							
Months																																							

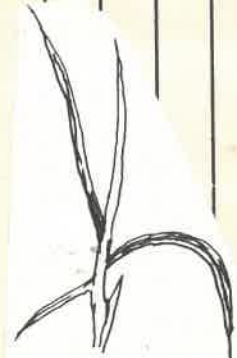
4

STATE : ASSAM
DISTRICTS : N. C. HILLS

CROP : SUGARCANE
NON-IRRIGATED

VARIETY : CO-740, CO BLN-9103, 9104
DURATION : 300 DAYS

SOIL : RED LATERITE

Weather warnings	Rain	> 30 MM/DAY										> 120 MM/DAY										> 40 MM FOR 5 DAYS																															
	Duration of wet spell	> 20 MM FOR 3 DAYS										> 64 MM FOR 7 DAYS										CLOUDY WEATHER																															
	Cloudy weather																																																				
	Drought																																																				
	High winds																																																				
	Temperature																																																				
	Hail Storm																																																				
Weather conditions favourable for incidence of pests and diseases	Pests	RODENT, TERMITES										STEM BORER, WOOLY APHIDS										TERMITES																															
	Weather	HEAVY RAINFALL										HEAVY RAINFALL										HEAVY RAINFALL																															
	Diseases	RED ROT																																																			
	Weather	MOIST/HUMID WEATHER																																																			
Normal phase wise water requirement(mm)							61.5					215.1					331.1					146.3					50.7																										
Weekly normal weather	Rainfall(mm) total	6.0	8.4	41.5	24.0	10.8	66.6	25.9	42.3	63.1	54.9	53.7	99.8	66.3	57.1	75.0	84.5	86.0	123.2	74.6	72.5	77.2	61.8	83.6	40.8	42.8	47.5	39.6	47.9	31.6	47.7	20.4	31.8	48.8	27.3	7.9	29.8	14.5	33.1	16.4	0.6	13.3	0.0	0.0	0.0	2.6	0.0						
	Max. temp. °C	22.5	23.2	23.8	25.2	26.3	26.2	25.8	25.0	25.5	26.0	25.9	25.2	25.9	26.3	26.3	26.6	26.2	25.9	26.4	27.4	27.7	26.2	25.8	26.5	27.1	27.7	27.1	26.6	26.9	26.5	27.5	27.7	25.9	26.2	26.4	24.6	24.2	23.6	22.8	22.4	21.4	20.9	20.5	19.8	17.2	19.3						
	Min. temp. °C	13.5	13.7	14.9	15.5	16.9	16.7	17.1	16.8	17.3	18.5	18.5	18.3	19.3	19.4	20.0	20.3	20.1	20.2	20.6	20.9	21.1	20.6	20.7	20.5	20.7	21.1	20.8	20.4	20.3	20.0	20.2	19.8	19.8	19.8	19.3	17.3	17.1	15.9	15.5	14.7	14.2	12.2	11.3	11.0	9.2	9.6						
	Sunshine hours	8.4	7.5	7.8	7.2	8.1	7.5	6.4	7.2	7.6	7.6	6.8	6.3	6.9	6.3	5.3	4.3	3.9	3.4	4.1	4.5	4.2	3.4	3.7	4.0	4.4	4.8	4.5	4.4	5.7	4.8	5.3	5.8	6.0	6.5	7.6	7.6	7.8	8.2	8.0	8.2	7.8	8.1	7.2	7.4	7.1	8.2						
Life history and mean dates of important epochs of crop growth		← HARVESTING → ← FLOWERING & MATURITY → ← ELONGATION → ← TILLERING → ← GERMINATION → ← PLANTING →      																																																			
Standard weeks		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	1						
Months		MARCH					APRIL					MAY					JUNE					JULY					AUGUST					SEPTEMBER					OCTOBER					NOVEMBER					DECEMBER					J	

CROP WEATHER CALENDAR

12

STATE : ASSAM
DISTRICTS : KOKRAJHAR,
NALBARI

CROP : MUSTARD
NON-IRRIGATED

VARIETY : M - 27, TS - 38, TS - 36
DURATION : 110-125 DAYS

SOIL : SANDY LOAM

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	Temperature	MAX. TEMP. > 26°C, MIN. TEMP. < 12°C																MAX. TEMP. > 26°C, MIN. TEMP. < 10°C								MAX. TEMP. > 26°C, MIN. TEMP. < 12°C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Weekly normal weather	Rainfall(mm) total											86.3	68.1	84.0	66.4	62.2	83.5	69.9	52.4	31.1	55.3	49.2	40.2	27.9	68.7	40.2	21.1	36.8	18.8	9.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

CROP WEATHER CALENDAR

13

STATE : ASSAM
DISTRICTS : KARBI, ANGLONG, SONITPUR

CROP : MUSTARD
NON-IRRIGATED

VARIETY : M - 27, TS - 38, TS - 36
DURATION : 110 - 120 DAYS

SOIL : SANDY LOAM
MEDIUM TEXTURE

Weather warnings	Rain	> 100 MM / DAY					> 200 MM / DAY					> 150 MM / DAY				
	Duration of wet spell	> 25 MM FOR 3 DAYS					> 50 MM FOR 3 DAYS					> 50 MM FOR 3 DAYS				
	Cloudy weather						CLOUDY WEATHER					CLOUDY WEATHER				
	Drought	14 DAYS					27 DAYS					27 DAYS				
	High winds															
	Temperature	MAX. TEMP. > 35°C, MIN. TEMP. < 20°C					MAX. TEMP. > 35°C, MIN. TEMP. < 15°C					MAX. TEMP. > 30°C, MIN. TEMP. < 8°C				
	Hail Storm											HAIL STORM				
Weather conditions favourable for incidence of pests and diseases	Pests	SAW FLY					APHIDS, SAW FLY					APHIDS, SAW FLY				
	Weather	LOW TEMP., OVERCAST AND HIGH HUMIDITY					LOW TEMP., OVERCAST AND HIGH HUMIDITY					LOW TEMP., OVERCAST AND HIGH HUMIDITY				
	Diseases	ALTERNARIA BLIGHT					ALTERNARIA BLIGHT					ALTERNARIA BLIGHT				
	Weather	OVERCAST SKY AND HIGH HUMIDITY					OVERCAST SKY AND HIGH HUMIDITY					OVERCAST SKY AND HIGH HUMIDITY				
Normal phase wise water requirement(mm)		31.5					42.1					45.9				
Weekly normal weather	Rainfall(mm) total	31.2	24.4	25.2	5.3	10.4	3.9	3.1	6.4	2.8	8.2	1.8	6.3	1.2	1.6	4.8
	Max. temp. °C	30.8	30.6	29.8	29.7	28.6	27.7	27.2	26.1	25.0	24.2	23.8	20.0	21.6	22.0	23.0
	Min. temp. °C	21.5	20.7	19.6	18.1	16.8	15.3	14.5	13.1	11.8	10.7	9.4	8.1	8.3	8.2	9.5
	Sunshine hours	6.2	7.7	8.0	7.7	7.8	7.8	8.0	7.7	7.9	7.0	7.4	6.5	7.5	6.8	6.7
Life history and mean dates of important epochs of crop growth																
Standard weeks		41	42	43	44	45	46	47	48	49	50	51	52	1	2	3
Months		OCTOBER				NOVEMBER				DECEMBER				JANUARY		
																FEBRUARY
																MARCH

14

SOIL : LOAMY, CLAY, SANDY

D.D.G.M.(AGRIMET), I.M.D., PUNE, 2002.

CROP WEATHER CALENDAR

STATE : ASSAM

DISTRICTS : BARPETA

CROP : JUTE

NON-IRRIGATED

VARIETY : T.R.C. 321, T.R.O. 632, T.R.O. 524

DURATION : 125 - 130 DAYS

SOIL : SANDY LOAM

Weather warnings	Rain	> 15 MM/DAY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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Weekly normal weather	Rainfall(mm) total						110.2	102.0	76.3	81.8	99.5	121.3	167.4	80.0	83.7	128.3	98.6	94.4	102.7	38.8	58.3	73.3	156.5	28.5	114.0	79.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												