







CROP WEATHER CALENDAR AMFU KANPUR, U.P.

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Developed by
Chandra Shekhar Azad University of
Agriculture & Technology, Kanpur (U.P.)
Under Gramin Krishi Mausam Sewa (GKMS)







Crop Weather Calendar of AMFU Kanpur, Uttar Pradesh

Agro-climatic Zone

Main Crops

Soil Type

Middle Gangetic Plain Region Paddy, Wheat, Maize, Pulses, Oilseeds (Mustard), Vegetables Alluvial Soil (Sandy Loam to Clayey Loam)













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Crop-weather calendar of Rice (Oryza Sativa L.)

	Cro	op-	R	Rice									Dur	ation	-12 ()- 135	5 (Day	rs)					
	Month		J	lune				Ju	ly			A	ugus				Septe		r		Oct	ober	
Climatic	Std. week	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Normal	Tmax (°c)	42.2	34.7	33.8	33.3	33.9	34.9	35.6	33.0	33.4	33.5	32.2	35.0	33.5	32.9	33.6	34.3	33.7	35.4	31.7	31.4	31.5	30.4
110111111	Tmin (⁰ c)	29.8	27.6	25.9	26.5	26.0	27.2	28.9	26.0	26.6	26.4	25.6	25.9	24.8	25.5	24.6	23.7	22.1	20.5	17.3	14.5	15.2	14.6
	RHm(%)	48	79	89	92	92	80	80	88	81	81	87	80	82	92	87	85	82	77	83	83	93	92
	RHe(%)	29	69	72	68	71	65	57	73	65	70	79	64	67	72	69	56	58	42	42	37	41	45
	SS (hr./day)	9.6	4.3	4.3	3.0	2.2	7.0	7.0	2.1	2.8	3.2	2.6	2.6	5.6	2.2	3.6	7.5	7.3	9.1	7.5	8.8	2.3	0.2
	Rain(mm/week)	0.0	128.6	106.8	40.6	47.4	65.0	8.1	38.0	0.0	16.4	128.0	0.0	25.6	79.2	45.0	0.0	15.7	0.0	3.4	0.0	0.0	0.0
Phenophase wise weather for better			S	owing			Т	ranspl	anting	g		Active	tilleri	ng)	Flowe	ring		Gr	ain fill	ing	Physiol matu	-
yield	Tmax (°c)		30)–35°C				28-	32°C			3	30–34°	°C		7	28–32°C	Ţ.	2	5–30°C	1	22–28	3°C
	Tmin (⁰ c))–25°C					26°C				20–25°				20–25°C			8–22°C		18–20	
	RHm(%)		85	5–95%				85–	95%				80–90	%			80–90%)	7	5-85%		70–8	0%
	RHe(%)		70	0-80%				70–	80%			(65–75	%			65–75%)	6	0-70%		55–6	5%
	SS (hr./day)		6–7	hrs/day	у			4–5 h	rs/day	7		5-	-6 hrs/	day		6-	-7 hrs/d	ay	7–3	8 hrs/da	ay	8–9 hrs	s/day
	Rainfall (mm)		30-	–50 mm	l			40–6	60 mm			40	0–60 n	nm		3	0–50 m	m	20)–30 mi	n	<10 r (dry harve	for
Congenial	Stem borer																•	e initia	ation (T	illering	to Boo	oting stag	ge)
weather for	Gundhi bug	Tn	nax: 25-	-30°C -	RH: 6	0-759	6 - Dr	y, cloud	ly wea	ther w	ith lit	le rain ((Flow	ering t	o doug	h stage	e)						
pest/diseases	Leaf roller	Tn	nax: 30-	-35°C -	High	RH (>	85%)	- Cloud	ly, hur	nid we	eather	Tillerir	ng to e	arly pa	anicle e	merge	nce)						
	Sheath blight (Rhizoctonia solani	Tn	min: 20–	25°C - 1	RH: >	90% -	Conti	nuous c	cloudy	/rainy	days -	Poor ai	ir circu	ılation	(Tiller	ing to	heading)					

Crop-weather calendar of Wheat (Triticum Aestivum)

		Crop-	Whe	at (Tim	ely so	wn)						Dı	ıratio	n –	12:	5-13 0	(Day	(s)		
CII	Month	Nove	ember		Decen	nber			Janu	ary			Febru	ıary			Mai	rch		
Climatic Normal	Std. week	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13
Normal	Tmax (⁰ c)	26.8	25.2	24.2	24.6	22.7	19.9	16.8	16.4	12.5	17.7	23.1	21.5	26.0	26.2	25.5	26.4	30.0	30.8	35.8
	Tmin (⁰ c)	11.4	12.7	13.2	8.4	7.6	8.3	10.0	5.5	5.3	5.1	9.0	9.3	10.1	11.6	13.5	10.8	13.3	14.0	20.0
	RHm(%)	94	94	92	94	90	95	95	96	92	95	92	88	92	87	83	73	78	75	67
	RHe(%)	54	61	65	46	47	69	81	72	77	63	55	54	48	45	51	40	36	37	31
	Rain(mm/week)	0.0	6.6	11.8	0.0	0.0	0.0	11.2	0.0	0.0	0.0	0.0	26.8	0.0	0.6	32.2	0.0	0.0	0.0	0.0
			N.	W		11	À	N.	N.	4			4	1			100			
Phenophase wise weather for better yield	Sowing & emerg	gence	Emo	ergence	to tiller	ing	Till	ering (to head	ding	Н	eading fill	to gra	ain	for	Grain mation naturit	n to		ysiolog Maturi	
Tmax (°c)	24–28°C			20–2:	5°C			20–2	25°C			22-	26°C		,	25–30°C	C		28-32°	С
Tmin (⁰ c)	12–16°C			10–1:	5°C			8–1	4°C			10-	15°C			12–18°C	C		14-20°	С
RHm(%)	80–90%			75–8	5%			70–	80%			65–	75%			60–70%			50-609	
RHe(%)	60–70%			55–6	5%			50-	60%			45–	55%			40–50%	ó		30–409	
Rainfall (mm)	10–15 mm			5–10	mm			<10	mm			<10	mm		<5 m	nm (min	imal)	Nil (dry weat harvest	
Congenial	Yellow Rust (Puccinia striifor		Tmax: 1	0–20°C - 7	Γmin: 7–	10°С - Н	igh RH	>85% -	Prolong	ed dew/	fog, clo	udy wea	ther (E	arly veg	etative t	to bootii	ng stage	(Dec-F	eb))	,
weather for pest/diseases	Brown Rust (Puccinia tritici			0–25°C - I			·	•		•			,							
F	Loose smut (Ustilago tritic		Temp: 1 emerger	8–24°C - I ice	High soil	and air n	noisture	during 1	flowerin	g - Infe	cted see	d is maj	or sourc	e Infecti	ion at fl o	owering	g stage;	sympton	ns appea	r at ea

Crop-weather calendar of Mustard (Brassica spp.)

			rop-v	<u>veat</u>	ner (care	<u>nual</u>	101	<u> 1V1 U;</u>	<u>star</u>	u (D	rusi	<u>sica</u>	Spp.	<u>.)</u>					
	Crop-	Musta	ırd						Γ	Ourati	ion –	12	25-13	0 (Day	vs)					
CII 41 .	Month	Oct	tober		No	vemb	er		Dece	embe	r			Janua	ary			Feb	ruary	
Climatic Normal	Std. week	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9
Norman	Tmax (°c)	31.4	31.5	30.4	27.5	26.8	25.2	24.2	24.6	22.7	19.9	16.8	16.4	12.5	17.7	23.1	21.5	26.0	26.2	25.5
	Tmin (⁰ c)	14.5	15.2	14.6	12.9	11.4	12.7	13.2	8.4	7.6	8.3	10.0	5.5	5.3	5.1	9.0	9.3	10.1	11.6	13.5
	RHm(%)	83	93	92	93	94	94	92	94	90	95	95	96	92	95	92	88	92	87	83
	RHe(%)	37	41	45	62	54	61	65	46	47	69	81	72	77	63	55	54	48	45	51
	Rain(mm/week)	0.0	0.0	0.0 0.0 0.0			6.6	11.8	0.0	0.0	0.0	11.2	0.0	0.0	0.0	0.0	26.8	0.0	0.6	32.2
	eedling establishmen 15-21 days)			cetative 30 days				vering 0 days)			d devel (25-30 d		,		Matu (15-30			200	B. C.	
Phenophase wise weather for better yield	Sowing & emerg	gence	Vegetat	(25-30 days)			loweri	ing		\$	Siliqua	forma	ation	S	eed dev	velopm	nent	Matu	ırity	
Tmax (°c)	30–35°C			25–30	°C			20–25°	°C			18–24	°C		20	–25°C			25-30°	C
Tmin (°c)	18–22°C			12–16				8–12°				8–10°				–15°C			12–18°	
RHm(%)	80–85%			75–80				70–80				70–75				5–70%			60–659	
RHe(%)	60–70%			55–65	5%			50–60	%			50–55	%		45	5-50%			40–509	%
Dainfall (mm)	5 10 mm			/5 m	m			/5 mr	n			Nil 2 r	nm		2	5 mm			Nii	

wise weather	Sowing & emergence	Vegetative growth	Flowering	Siliqua formation	Seed development	Maturity
for better yield				-	_	v
Tmax (°c)	30–35°C	25–30°C	20–25°C	18–24°C	20–25°C	25–30°C
Tmin (⁰ c)	18–22°C	12–16°C	8–12°C	8–10°C	10–15°C	12–18°C
RHm(%)	80–85%	75–80%	70–80%	70–75%	65–70%	60–65%
RHe(%)	60–70%	55–65%	50–60%	50–55%	45–50%	40–50%
Rainfall (mm)	5–10 mm	<5 mm	<5 mm	Nil–2 mm	2–5 mm	Nil
Congenial	Aphids (Lipaphis erysimi)	Tmax: 20–25°C - RH: 70–80	0% - Cloudy weather with light	nt drizzle (Flowering to seed	formation)	
weather for pest/diseases	White Rust (Albugo candida)	Tmin: 10–15°C - RH: >90%	- Frequent dew/fog, wet leav	es (Flowering to pod formati	ion)	
	Downy Mildew	Cool, moist conditions - RH	>85% - Intermittent light rain	ns (Vegetative to early flower	ring)	
	Alternaria Blight (A. brassicae)	Tmax: 20–28°C - RH >85%	- Prolonged cloudy weather (Pod formation to maturity)		

Crop-weather calendar of Maize (Zea Mays)

	Cro	p- Mai	ze (Kh	arif)							Du	ration	_	110-2	120 (Da	ys)		
Clima e 4i e	Month		Jun	ne e				July				Aug	ust			Se	eptember	
Climatic Normal	Std. week	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Normai	Tmax (⁰ c)	39.9	42.2	34.7	33.8	33.3	33.9	34.9	35.6	33.0	33.4	33.5	32.2	35.0	33.5	32.9	33.6	34.3
	Tmin (°c)	24.8	29.8	27.6	25.9	26.5	26.0	27.2	28.9	26.0	26.6	26.4	25.6	25.9	24.8	25.5	24.6	23.7
	RHm(%)	52	48	79	89	92	92	80	80	88	81	81	87	80	82	92	87	85
	RHe(%)	29	29	69	72	68	71	65	57	73	65	70	79	64	67	72	69	56
					107						A PARTIES	AUG.	V	はなべる				
Phenophase wise weather for better yield	Sowing to 6	emergence	e	Knee	heigh	t		Ta	sselin	g		Silk	forma	ation		Cob fill	ling	Physiological maturity
Tmax (°c)	28–32	2°C		30-	35°C			30)–35°C	1		3	30–34°	C		28–32	°C	25-30°C
Tmin (°c)	20–24				26°C				2–26°C				22–26°			20–24		18–22°C
RHm(%)	85–9	0%		80–	85%			75	5-80%				75–80%	6		70–75	%	65–70%
RHe(%)	70–8	0%		65–	75%			60	0–70%			(50–70%	6		55–65	%	50–60%
Rainfall (mm)	40–60	mm		30–5	0 mm			20-	–40 mr	n		20	0–30 m	ım		15–25 1	mm	<10 mm (dry harvest)
Congenial weather for	Stem E (Chilo po		Tm	nax: 30–	35°C R	H: 70–	80% F1	requent	light ra	ain (Ear	ly veget	ative to	tasselin	ng)				
pest/diseases	Fall Arm (Spodoptera)	frugiperda))	nax: 28–	34°C R	H: 70–	80% Sı	udden s	showers	after d	ry spells	(Emerg	gence to	cob for	rmation)			
	Turcicum L (Exserohilum		1 m	nax: 20–			•					•	uctive)					
	Downy N		Tn	nax: 22–2	28°C R	H >90°	% Clou	dy, wet	t spells	(Seedli	ng stage)						
	Stem E (Chilo pa		Tm	nax: 30–3	35°C R	H: 70–	80% F1	requent	light ra	ain (Ear	ly veget	ative to	tasselin	ng)				

Crop-weather calendar of Maize (Zea Mays)

	Crop- M	aize (Zaid)								Dura	tion –	11	0-120	(Days))				
CII. 41	Month	Feb	ruary]	Marc	h			A	pril			Ma	. y			Ju	ine	
Climatic Normal	Std. week	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Normal	Tmax (⁰ c)	26.2	25.5	26.4	30.0	30.8	35.8	37.4	38.8	39.0	40.1	39.7	36.9	43.0	41.2	44.8	43.0	44.8	40.2	32.7
	Tmin (⁰ c)	11.6	13.5	10.8	13.3	14.0	20.0	18.6	20.6	23.0	22.0	21.2	25.2	26.4	28.5	29.4	27.5	30.9	28.5	25.8
	RHm(%)	87	83	73	78	75	67	50	52	41	42	36	63	48	58	45	42	35	62	81
	RHe(%)	45	51	40	36	37	31	20	28	21	18	16	39	20	33	19	21	17	39	74
		THE SECTION				TOWN		N. SERVICE.	0	J.		The E	101	V						I
Phenophase wise weather for better yield	Sowing to emergence		K	nee h	eight			7	Γasseli	ng		S	ilk forr	nation		C	ob filling		Physiol matu	_
Tmax (°c)	28–32°C			30–35	5°C				30–35°	С			30–34	l°C			28–32°C		25–30	0°C
Tmin (°c)	15–20°C			18-22	2°C				20–24°	С			20-24	ŀ°C			18–22°C		16–20	0°C
RHm(%)	70–80%			65–7:	5%				60–709	%			60–70	0%			55-65%		50–6	0%
RHe(%)	50-60%			45–5	5%				40-509	%			40–50	0%			35–45%		30–4	0%
Rainfall (mm)	20–30 mm			15–25	mm				10–15 m	nm			10–15	mm			5–10 mm		<5 mm (
Congenial weather for	Stem Borer (Chilo partellu		Tmax: 30	0–35°C	- RH:	60–70%	6 - Inte	rmitten	t showe	rs + clo	oudy day	s (Early v	egetative	to tasseli	ng)					
pest/diseases	Fall Armywor (Spodoptera frugip	erda)	Tmax: 28	8–34°C	: - RH:	60–80%	6 - Brig	ght, dry	days fo	llowed	by rain (Emergen	ce to cob	formation	1)					
	Turcicum Leaf B (Exserohilum turci	icum)	Tmax: 20	0–30°C	: - High	n humid	ity >90	% - Fre	equent d	ew/fog	(Vegeta	tive to rep	oroductiv	re)						
	Maydis Leaf Bli (Bipolaris maya	lis)	Warm ar																	
	Downy Milder	W	RH >909	% - Lov	v temp	eratures	$(18-\overline{22})$	2°C) - F	Prolonge	d dew	(Young s	seedling s	stage)					·		

Crop-weather calendar of Chickpea (*Cicer Arietinum*)

					Crop	o- Cl	hickpe	ea (Ti	mely	sown)	I	Durat	ion -1	130-1	40 (D	ays)				
Climatic	Month		Novemb	oer			ember			Januar				Febru				Mar	ch		
Normal	Std. week	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11
1101	Tmax (°c)	31.5	30.4	27.5	26.8	25.2	24.2	24.6	22.7	19.9	16.8	16.4	12.5	17.7	23.1	21.5	26.0	26.2	25.5	26.4	30.0
'	Tmin (⁰ c)	15.2	14.6	12.9	11.4	12.7	13.2	8.4	7.6	8.3	10.0	5.5	5.3	5.1	9.0	9.3	10.1	11.6	13.5	10.8	13.3
'	RHm(%)	93	92	93	94	94	92	94	90	95	95	96	92	95	92	88	92	87	83	73	78
'	RHe(%)	41	45	62	54	61	65	46	47	69	81	72	77	63	55	54	48	45	51	40	36
'	Rain(mm/week)	0.0	0.0	0.0	0.0	6.6	11.8	0.0	0.0	0.0	11.2	0.0	0.0	0.0	0.0	26.8	0.0	0.6	32.2	0.0	0.0
														e Ca					M.		
Phenophase wise weather for better yield	Sowing & emergence	Veį	getative G				vering				Forma				Pod I	Filling		Phys	siologica	al Mat	urity
Tmax (⁰ c)	25–30°C		22–28°				-25°C				20–25°C					25°C			25–3		
Tmin (°c)	10–15°C		10–15°				-12°C				8–12°C					12°C				15°C	
RHm(%)	80–90%		70–80%				-70%				60–70%					65%			50–6		
RHe(%)	50–60%		45–55%	<u>/o</u>	-10		-50%	11	<10		40–50%			M		45%	1.4	NE1 (4	30–4		1 600
Rainfall (mm)	20–30 mm/week	1.	5–25 mm/	/week	<10		eek (dry eded)	spen	<10		eek (too ses dise	oo much ease)	i fain			(only light if need)	_	INII (d	dry weat harv	itner ide vest)	al for
	Fusarium Wilt	Soil to	emperatu	ıre: 20–25°	C - Dry			moisture	e - Pooi				getative				-				
Congenial weather for pest/diseases	Pod Borer (Helicoverpa armigera)	Tmax	.: 25–30°C	C - Low to r	moderat	e rainfa	ıll - RH:	: 40–60°	% - Bri	ght sun	ıny day	ys (Flov	wering	to pod	develo	pment	stage ((60–110) DAS))	
	Grey Mould (Botrytis cinerea)	Tmin:	: 12–20°C	C - RH: >90	1% - Clo	udy, fo	ggy, dri	zzly we	ather -	Dense	canopy	y (Flow	vering 1	to pod 1	filling	stage)					

Crop-weather calendar of Potato (*Solanum tuberosum L.***)**

	Crop-	Potat	0						D	urati	on –	11	10-12	0 (Day	ys)					
Clima e 4	Month	Oct	ober		No	vemb	er		Dece	mbei	r			Janua	ary			Feb	ruary	
Climatic Normal	Std. week	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9
Normai	Tmax (⁰ c)	31.4	31.5	30.4	27.5	26.8	25.2	24.2	24.6	22.7	19.9	16.8	16.4	12.5	17.7	23.1	21.5	26.0	26.2	25.5
	Tmin (⁰ c)	14.5	15.2	14.6	12.9	11.4	12.7	13.2	8.4	7.6	8.3	10.0	5.5	5.3	5.1	9.0	9.3	10.1	11.6	13.5
	RHm(%)	83	93	92	93	94	94	92	94	90	95	95	96	92	95	92	88	92	87	83
-	RHe(%)	37	41	45	62	54	61	65	46	47	69	81	72	77	63	55	54	48	45	51
	Rain(mm/week)	0.0	0.0	0.0	0.0	0.0	6.6	11.8	0.0	0.0	0.0	11.2	0.0	0.0	0.0	0.0	26.8	0.0	0.6	32.2
Phenophase wise weather	Service 8 mm		V		41-						Citi				Contraction					
for better yield	Sowing & emer	gence	vege		growth		<u> </u>	lower			Siliq	ua for		1 ,	Seed de		шепі		Matur	
$\frac{\operatorname{Tmax} ({}^{0}\mathbf{c})}{\operatorname{Tr} \cdot ({}^{0}\mathbf{c})}$	20–25°C			20–25°				18-22°				18-22				<u>−25°C</u>			20–25	
Tmin (°c) RHm(%)	10–15°C 85–90%			12–16°				10–14°				10–14°				<u>−16°C</u> 5–85%			10–15 85–90	
RHe(%)	60–70%			60–70				65–759				60–70				6-65%			60–70	
Rainfall (mm)	15–25 mm			10–20 r	nm			5–15 m				5–10 m			<5 mm		eriod		15–25 1	
Congenial	Late Bligh (Phytophthora inf		Tmax:	18–22°C	C - RH: >	90% - (Cloudy	, humid	l, and ra	iny we	ather (Γuber ir	nitiation	to bulk	king)					
weather for pest/diseases	Early Bligh (Alternaria sol				C - RH: 7				•		,			• •						
	Aphids		Tmax: 2	20–28°C	C - RH: 7	0-85%	- Dry,	warm v	veather	with te	nder fo	liage (V	/egetati	ve to fl	owering)				
	White Grub Cutworms		Tmax: 2	25–30°C	C - Soil n	noisture	> field	l capaci	ity - Clo	oudy, w	et cond	itions (Sowing	to eme	ergence)					

Crop-weather calendar of Groundnut (Arachis hypogaea L.)

	Crop-	Gro	undnı	ıt (Kl	narif)						Dur	ation	n —		120-	130 (I	Days))				
	Month		J	une				Ju	ly			A	ugus	st			Septe	mbe	r		Octo	ber	
Climatic	Std. week	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Normal	$Tmax (^{0}c)$	42.2	34.7	33.8	33.3	33.9	34.9	35.6	33.0	33.4	33.5	32.2	35.0	33.5	32.9	33.6	34.3	33.7	35.4	31.7	31.4	31.5	30.4
110111111	Tmin (⁰ c)	29.8	27.6	25.9	26.5	26.0	27.2	28.9	26.0	26.6	26.4	25.6	25.9	24.8	25.5	24.6	23.7	22.1	20.5	17.3	14.5	15.2	14.6
	RHm(%)	48	79	89	92	92	80	80	88	81	81	87	80	82	92	87	85	82	77	83	83	93	92
	RHe(%)	29	69	72	68	71	65	57	73	65	70	79	64	67	72	69	56	58	42	42	37	41	45
	SS (hr./day)	9.6	4.3	4.3	3.0	2.2	7.0	7.0	2.1	2.8	3.2	2.6	2.6	5.6	2.2	3.6	7.5	7.3	9.1	7.5	8.8	2.3	0.2
	Rain(mm/week)	0.0	128.6	106.8	40.6	47.4	65.0	8.1	38.0	0.0	16.4	128.0	0.0	25.6	79.2	45.0	0.0	15.7	0.0	3.4	0.0	0.0	0.0
Phenophase wise weather for													Ala Marie						***		E		
better yield	Weather Parameter	So	wing to	o Eme	rgenc	e	Veg	etativ	e Gro	wth	F	lowerii	ng &	Peggi	ng	De	Pod velopm	ent	See	ed Filli	ng	Matu	ırity
	Tmax (⁰ c)		28	3–32°C				28–3	2°C			2	6–30°C	C			25–30°C	C	2	24–28°C	,	28–3	2°C
	Tmin (⁰ c)		20)–24°C				22–2	5°C			2	2–24°0	C			20–22°C	7	1	8-22°C	,	18–2	2°C
	RHm(%)		85	5-90%				80–8	35%			7	5-80%	ó			70–80%)	(55–75%		60–7	'0%
	RHe(%)		70)–75%				65–7	′0%			6	60–70%	ó			55–65%	1	4	50–60%		45–5	55%
	SS (hr./day)		5-	–6 hrs				6–7	hrs			(5–7 hrs	3			7–8 hrs			8 hrs		8–9	hrs
	Rainfall (mm)		30-	-50 mm				25–40) mm			20)–30 m	m		1	.5–25 mi	m	5	-10 mm	1	<5 mm need	
Congenial	Leaf Miner		Tma	x: 28–3	2°C R	H: 70	-80%	Intermi	ttent s	hower	s (Veg	getative	to flov	wering)								
weather for	White Grub)	Tma	x: 28–3	5°C N	loist s	oils, cl	oudy w	veathe	r (Sow	ing to	early p	egging	g)									
pest/diseases	Tikka Leaf S _I	oot	RH >	>85% T	max:	26–30	°C Clo	oudy, m	oist c	onditio	ons (V	egetativ	e to po	od filli	ng)								
	Collar Rot / Ster	n Rot	Soil	temp: 2	8-32°	C Wa	terlogg	ging or	poorly	drain	ed soil	l (Germ	inatio	n to ea	rly peg	ging)							
	Rust (Puccinia arach	idis)	RH:	- 80–90%	6 Tem	p: 25-	-30°C	Foggy/	cloudy	/ morn	ings (Floweri	ng to s	seed fi	lling)	-							

Crop-weather calendar of Groundnut (Arachis hypogaea L.)

				Crop	o- Gro	undn	ut (Za	id)					Dura	ation –	80-8	5 (Day	s)
Clima - 4i -	Month]	F <mark>ebru</mark> a:	ry		Ma	arch				April				Ma	ay	
Climatic Normal	Std. week	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Normai	Tmax (⁰ c)	26.7	26.2	25.5	26.4	30.0	30.8	35.8	37.4	38.8	39.0	40.1	39.7	36.9	43.0	41.2	44.8
	Tmin (⁰ c)	11.1	11.6	13.5	10.8	13.3	14.0	20.0	18.6	20.6	23.0	22.0	21.2	25.2	26.4	28.5	29.4
	RHm(%)	83	87	83	73	78	75	67	50	52	41	42	36	63	48	58	45
	RHe(%)	50	45	51	40	36	37	31	20	28	21	18	16	39	20	33	19
	SS (hr./day)	8.0	7.1	8.0	7.1	5.8	5.9	7.3	8.8	8.3	7.6	7.0	6.9	10.7	9.8	9.9	9.5
	Rain(mm/week)	0.0	0.0	0.0	0.0	6.4	11.6	39.2	0.0	0.0	0.0	14.6	75.8	0.0	0.0	9.0	0.8
	<u>/</u>													3. X.	Victoria		
Phenophase wise weather for better yield	Sowing to Emergence		Vegeta	tive Gr	owth	F	lowerir	ng & Peg	ging	Poo	d Develop	ment		Seed Fi	lling	Mat	turity
Tmax (°c)	32–36°C		3	4–38°C			30	–35°C			30–34°C			28–32	L°C	32-	-36°C
Tmin (°c)	20–24°C		2	2–26°C			22	2–25°C			20–24°C	C		18–22	L°C	20-	-24°C
RHm(%)	60–70%			5-65%)–70%			55–65%			50–60			-55%
RHe(%)	40–50%			5–45%)–50%			35–45%)		30–40			-35%
SS (hr./day)	8–9			9–10				8–9			8–9			9–1	0	10	-11
Rainfall (mm)	10–15 mm		5-	–10 mm			5—	10 mm			2–5 mm	ı		<5 m	m	1	Vil
Congenial weather for	Leaf Miner	r	Tmax: 30)–38°C I	RH: 55-	-70% E	Bright su	ınny day	s with o	ccasiona	l humidity	(Vegeta	tive to f	lowering	g)		
pest/diseases	White Grub Cutworm								•	`	ing to earl						
	Tikka Leaf S	pot	Tmax: $\overline{28}$	3–32°C I	RH: > 70)% Inte	rmitten	t irrigati	on or sur	nmer sh	owers (Ve	getative	to pod c	levelopn	nent)		
	Rust (Puccinia)		RH >75%	6 Warm	humid	conditi	ons dur	ing late f	lowering	g and see	ed filling (Flowerin	g to see	d filling)		

Crop-weather calendar of Black Gram (Vigna mungo)

				Crop-	Black	Gram (Kharif)			Du	ıration -	- 95-1	00 (Day	ys)
Cli	Month		July			Aı	ugust			Septen	nber		0	ctober	
Climatic Normal	Std. week	29	30	31	32	33	34	35	36	37	38	39	40	41	42
Norman	Tmax (⁰ c)	26.7	26.2	25.5	26.4	30.0	30.8	35.8	37.4	38.8	39.0	40.1	39.7	35.4	31.7
	Tmin (⁰ c)	11.1	11.6	13.5	10.8	13.3	14.0	20.0	18.6	20.6	23.0	22.0	21.2	20.5	17.3
	RHm(%)	83	87	83	73	78	75	67	50	52	41	42	36	77	83
	RHe(%)	50	45	51	40	36	37	31	20	28	21	18	16	42	42
	SS (hr./day)	8.0	7.1	8.0	7.1	5.8	5.9	7.3	8.8	8.3	7.6	7.0	6.9	9.1	7.5
	Rain(mm/week)	0.0	0.0	0.0	0.0	6.4	11.6	39.2	0.0	0.0	0.0	14.6	75.8	0.0	3.4
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and a second	THE RESERVE OF THE PERSON NAMED IN COLUMN 1	100000000000000000000000000000000000000	AND ADDRESS OF THE PARTY OF THE	THE RESERVE OF THE PERSON NAMED IN											
Phenophase				Vegetati	ive										
Phenophase wise weather for better yield	Sowing to En	nergence	•	Vegetati Growt			Floweri	ng	Pod F	ormation	1	Seed Dev	velopment	Mat	turity
wise weather				0	h		Floweri			ormation –30°C	1		velopment 30°C		turity -32°C
wise weather for better yield Tmax (°c) Tmin (°c)	28–32° 22–25°	C C		Growt 30–34° 22–26°	h C C		28–32° 22–24°	C C	26-	−30°C −22°C		25–3 20–2	30°C 22°C	28- 22-	-32°C -24°C
wise weather for better yield Tmax (°c) Tmin (°c) RHm(%)	28–32° 22–25° 85–909	C C C W		Growt 30–34° 22–26° 80–859	h C C %		28–32° 22–24° 85–90°	C C %	26 20 80	–30°C –22°C –85%		25–2 20–2 75–	30°C 22°C 80%	28- 22- 70-	-32°C -24°C -75%
wise weather for better yield Tmax (°c) Tmin (°c) RHm(%) RHe(%)	28–32° 22–25° 85–909 70–809	C C C W		30–34° 22–26° 80–859 65–759	h C C %		28–32° 22–24° 85–90° 70–80°	C C %	26 20 80 65	-30°C -22°C -85% 5-75%		25–2 20–2 75– 60–	30°C 22°C 80% 70%	28- 22- 70- 55-	-32°C -24°C -75% -65%
wise weather for better yield Tmax (°c) Tmin (°c) RHm(%) RHe(%) SS (hr./day)	28–32° 22–25° 85–909	C C C W		Growt 30–34° 22–26° 80–859	h C C %		28–32° 22–24° 85–90°	C C %	26 20 80 65	–30°C –22°C –85%		25–2 20–2 75– 60–	30°C 22°C 80%	28- 22- 70- 55-	-32°C -24°C -75%
wise weather for better yield Tmax (°c) Tmin (°c) RHm(%) RHe(%)	28–32° 22–25° 85–909 70–809	CC CC %		30–34° 22–26° 80–859 65–759	h C C %		28–32° 22–24° 85–90° 70–80°	C C C W C C W C C C C C C C C C C C C C	26 20 80 65	-30°C -22°C -85% 5-75%		25-3 20-2 75- 60-	30°C 22°C 80% 70%	28- 22- 70- 55-	-32°C -24°C -75% -65%
wise weather for better yield Tmax (°c) Tmin (°c) RHm(%) RHe(%) SS (hr./day) Rainfall (mm) Congenial	28–32° 22–25° 85–909 70–809 4–5 40–60 n	PC P		30–34° 22–26° 80–859 65–759 3–5	h C C % %	· 60–70%	28–32° 22–24° 85–90° 70–80° 4–5	CC % %	26 20 80 65	-30°C -22°C -85% 5-75% 5-6		25-3 20-2 75- 60-	30°C 22°C 80% 70%	28- 22- 70- 55-	-32°C -24°C -75% -65%
wise weather for better yield Tmax (°c) Tmin (°c) RHm(%) RHe(%) SS (hr./day) Rainfall (mm) Congenial weather for	28–32° 22–25° 85–909 70–809 4–5 40–60 n Whitef	CC CC % %	Tma	Growt 30–34° 22–26° 80–859 65–759 3–5 30–50 m	h C C % %		28–32° 22–24° 85–90° 70–80° 4–5 20–30 n	C % % nm ls during rain	26 20 80 65 15– ny season (A	-30°C -22°C -85% -75% 5-6 -25 mm ny stage)		25-3 20-2 75- 60-	30°C 22°C 80% 70%	28- 22- 70- 55-	-32°C -24°C -75% -65%
wise weather for better yield Tmax (°c) Tmin (°c) RHm(%) RHe(%) SS (hr./day) Rainfall (mm) Congenial	28–32° 22–25° 85–909 70–809 4–5 40–60 n Whitef (YMV vec	CC CC % % mm Cly ctor) Aphids	Tma	Growt 30–34° 22–26° 80–859 65–759 3–5 30–50 m ax: 28–33	h C C % % mm 5°C RH 2°C RH	: 65–80%	28–32° 22–24° 85–90° 70–80° 4–5 20–30 n Dry spel	C % % nm ls during rainent rains (Ve	26 20 80 65 15– ny season (A	-30°C -22°C -85% 6-75% 5-6 -25 mm ny stage)		25-3 20-2 75- 60-	30°C 22°C 80% 70%	28- 22- 70- 55-	-32°C -24°C -75% -65%
wise weather for better yield Tmax (°c) Tmin (°c) RHm(%) RHe(%) SS (hr./day) Rainfall (mm) Congenial weather for	28–32° 22–25° 85–909 70–809 4–5 40–60 n Whitef (YMV vec Thrips & A	CC CC % % mm Cly ctor) Aphids Leaf Spot	Tma Tma t RH:	Growt 30–34° 22–26° 80–859 65–759 3–5 30–50 m ax: 28–35 ax: 28–35	h C C % % 5°C RH 2°C RH	: 65–80% ness >10 h	28–32° 22–24° 85–90° 70–80° 4–5 20–30 n Dry spel Intermitters Tmax:	CC % % mm ds during rain ent rains (Vector 26–30°C (Vector Vector Vecto	26 20 80 65 15– ny season (A egetative to feegtative to	-30°C -22°C -85% 6-75% 5-6 -25 mm ny stage) lowering) pod fillin		25-3 20-2 75- 60-	30°C 22°C 80% 70%	28- 22- 70- 55-	-32°C -24°C -75% -65%
wise weather for better yield Tmax (°c) Tmin (°c) RHm(%) RHe(%) SS (hr./day) Rainfall (mm) Congenial weather for	28–32° 22–25° 85–909 70–809 4–5 40–60 n Whitef (YMV vec	CC CC % % mm Cly ctor) Aphids Leaf Spot	Tma Tma Tma War	Growt 30–34° 22–26° 80–859 65–759 3–5 30–50 m ax: 28–33 >85% La m days -	h C C % % 5°C RH 2°C RH eaf wetr + humid	: 65–80% ness >10 h	28–32° 22–24° 85–90° 70–80° 4–5 20–30 n Dry spel Intermitt rs Tmax: nax: 28–3	CC % % mm ds during rain ent rains (Vector 100 to	26 20 80 65 15– ny season (A	-30°C -22°C -85% 5-75% 5-6 -25 mm ny stage) lowering) pod filling rity)		25-3 20-2 75- 60-	30°C 22°C 80% 70%	28- 22- 70- 55-	-32°C -24°C -75% -65%

Crop-weather calendar of Black Gram (Vigna mungo)

				Crop	- Bla	ck Gram	(Zaid)		Duratio	n - 75-80	(Days)		
Climatia	Month	Fe	bruar	:y		M	arch				Apri	l	
Climatic Normal	Std. week	7	8	9	10	11	12	13	14	15	16	17	18
TOTHE	Tmax (°c)	26.7	26.2	25.5	26.4	30.0	30.8	35.8	37.4	38.8	39.0	40.1	39.7
	Tmin (⁰ c)	11.1	11.6	13.5	10.8	13.3	14.0	20.0	18.6	20.6	23.0	22.0	21.2
	RHm(%)	83	87	83	73	78	75	67	50	52	41	42	36
	RHe(%)	50	45	51	40	36	37	31	20	28	21	18	16
	SS (hr./day)	8.0	7.1	8.0	7.1	5.8	5.9	7.3	8.8	8.3	7.6	7.0	6.9
	Rain(mm/week)	0.0	0.0	0.0	0.0	6.4	11.6	39.2	0.0	0.0	0.0	14.6	75.8
	THE WAY	-	-					1	1000			A MARK	
是代表的			東連		95			上的政	Art Volk				
100	14.4					4-3		11				13.51	
	is white	通常		639	10	SE A	(4) L			10	-7/6		
THE RESERVE TO A PARTY OF THE P		ALC: U	*	The last		STATE OF	***	TO THE					
Phenophase wise weather for better yield	Sowing to Em	ergence	1	Vegetati Growt			Floweri	ng	Pod Fo	ormation	Seed I	Development	Maturity
Tmax (°c)	32–36°	С		34–38°	С		32–36°	С	30-	-34°C	3	0–34°C	34–38°C
Tmin (°c)	20–24°	С		22–26°	С		22–25°	С	20-	-24°C	2	0–22°C	22–26°C
RHm(%)	60–70%			55–65%			60–709			-65%		50–60%	45–55%
RHe(%)	40–509	6		35–45%	6		40–509	%	35-	-45 %	3	30–40%	25–35%
SS (hr./day)	8–9			9–10			8–9		8	8–9		9–10	10–11
Rainfall (mm)	10–20 m	ım		5–10 m	m		5–10 m	m	5–1	0 mm		<5 mm	Nil
Congenial	Whitef	ly	Tma	x: 32–38	3°C RH	: 50–60%	Dry weat	her (Vegeta	tive to flower	ring)			
weather for pest/diseases	Thrips & A	phids	Tma	x: 30–35	5°C RH	: 60–70%	Moist bu	t not rainy c	onditions (Ve	egetative to	od formation	n)	
pesituiseases	YMV (Yellow Mosai		Spre	ad by wl	hitefly;	hot and dr	y conditi	ons High du	ring 30–38°C	C Tmax & lo	w RH (Any s	stage)	
	(10110 11 1110000	ic viii cib)											
	Powdery M			x: 28–32	2°C RH	>70% Dry	y days fo	llowed by li	ght showers (Pod develop	ment to matu	urity)	

Crop-weather calendar of Green Gram (Vigna radiata L.)

				Crop-	Green	ı Gram ((Kharif)			Dura	ation –	70	-75 (D	ays)
	Month	Ju	ly		Au	igust			Septen	nber			Oct	tober	
Climatic Normal	Std. week	30	31	32	33	34	35	36	37	38	39	40	41	42	43
Normai	Tmax (⁰ c)	35.6	33.0	33.4	33.5	32.2	35.0	33.5	32.9	33.6	34.3	33.7	35.4	31.7	31.4
	Tmin (⁰ c)	28.9	26.0	26.6	26.4	25.6	25.9	24.8	25.5	24.6	23.7	22.1	20.5	17.3	14.5
	RHm(%)	80	88	81	81	87	80	82	92	87	85	82	77	83	83
	RHe(%)	57	73	65	70	79	64	67	72	69	56	58	42	42	37
	SS (hr./day)	7.0	2.1	2.8	3.2	2.6	2.6	5.6	2.2	3.6	7.5	7.3	9.1	7.5	8.8
	Rain(mm/week)	8.1	38.0	0.0	16.4	128.0	0.0	25.6	79.2	45.0	0.0	15.7	0.0	3.4	0.0
					2										
Phenophase wise weather for better yield	Sowing to En	nergence		Vegetati Growt			Floweri	ng	Pod F	ormation		Seed Fil	ling	N	I aturity
Tmax (°c)	28–32°	°C		30–34°	С		28–32°	C	26	−30°C		26–30°	°C	3	0–34°C
Tmin (°c)	22–25°	°C		22–26°	С		22–24°	C	20	−22°C		20–22°	°C	2	2–24°C
RHm(%)	85–909	%		80–85%			85–90		80	-85%		75–80		7	70–75%
RHe(%)	70–809	%		65–75%	6		70–80	%	65	5–75%		60–70	%	-	55–65%
SS (hr./day)	4–5			3–5			4–5			5–6		6–7			7–8
Rainfall (mm)	40–60 n	nm		30–50 m	ım		20–30 n	nm	15-	-25 mm		10–20 r	nm	<	<10 mm
Congenial weather for	Whitefly (vector								onsoon (Any						
pest/diseases									ner (Vegetati						
	Powdery M								ty (Pod deve		• /				
	Cercospora L								getative to po						
	Root R	ot	Poor	ly draine	ed soils	High rains	fall + hig	h temp (28–	32°C) (Sowi	ng to early	y growth)				

Crop-weather calendar of Green Gram (Vigna radiata L.)

	Crop- Greem	Gram (Z	Zaid)				Durat	ion – 65-	70 (Days)		
Climatia	Month	I	Tebruar	y		M	arch			April	
Climatic Normal	Std. week	11	12	13	14	15	16	17	18	19	20
Normai	Tmax (⁰ c)	30.0	30.8	35.8	37.4	38.8	39.0	40.1	39.7	36.9	43.0
	Tmin (⁰ c)	13.3	14.0	20.0	18.6	20.6	23.0	22.0	21.2	25.2	26.4
	RHm(%)	78	75	67	50	52	41	42	36	63	48
	RHe(%)	36	37	31	20	28	21	18	16	39	20
	SS (hr./day)	8.1	7.6	6.8	6.5	6.9	7.7	8.2	9.0	7.5	8.4
	Rain(mm/week)	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
		SOTO									
Phenophase wise weather for better yield	Sowing to Em	ergence	Veg	getative G	rowth	Flowe	ring	Pod Formation	Seed 1	Filling	Maturity
Tmax (°c)	32–36°										
Tmin (⁰ c)		C		34–38°C		32–3	6°C	30–34°C	28–3	32°C	34–38°C
	20–24°	С		22–26°C	7	22–2	4°C	20–22°C	18–2	22°C	22–26°C
RHm(%)	55–65%	C 6		22–26°C 50–60%		22-2- 55-6	4°C 5%	20–22°C 50–60%	18-7 45-	22°C 55%	22–26°C 40–50%
RHe(%)	55–65% 35–45%	C 6		22–26°C 50–60% 30–40%		22-2- 55-6 35-4	4°C 5% 5%	20–22°C 50–60% 30–40%	18–2 45– 25–	22°C 55% 35%	22–26°C 40–50% 20–30%
` '	55–659 35–459 8–9	C 6 6		22–26°C 50–60%		22-2- 55-6	4°C 5% 5%	20–22°C 50–60%	18–2 45– 25–	22°C 55%	22–26°C 40–50%
RHe(%)	55–65% 35–45%	C 6 6		22–26°C 50–60% 30–40%		22-2- 55-6 35-4	4°C 5% 5%	20–22°C 50–60% 30–40%	18-2 45- 25- 9-	22°C 55% 35%	22–26°C 40–50% 20–30%
RHe(%) SS (hr./day) Rainfall (mm) Congenial	55–659 35–459 8–9 5–15 mm (mostl	C 6 6 y irrigated		22–26°C 50–60% 30–40% 9–10 5–10 mm	n	22-2- 55-6 35-4 8- 5-10	4°C 5% 5% 9 mm	20–22°C 50–60% 30–40% 9–10	18-2 45- 25- 9- <5	22°C 55% 35% -10	22–26°C 40–50% 20–30% 10–11
RHe(%) SS (hr./day) Rainfall (mm) Congenial weather for	55–659 35–459 8–9 5–15 mm (mostl crop)	C 6 6 y irrigated V vector)	Tmax	22–26°C 50–60% 30–40% 9–10 5–10 mm	n RH: 40–	22-2- 55-6 35-4 8- 5-10 60% Dry, wa	4°C 5% 5% 9 mm	20–22°C 50–60% 30–40% 9–10 <5 mm	18-2 45- 25- 9- <5	22°C 55% 35% -10 mm	22–26°C 40–50% 20–30% 10–11 Nil
RHe(%) SS (hr./day) Rainfall (mm) Congenial	55–659 35–459 8–9 5–15 mm (mostl crop) Whitefly (YM)	C 6 7 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Tmax Tmax	22–26°C 50–60% 30–40% 9–10 5–10 mr : 32–38°C : 30–35°C	n RH: 40– RH: 55–	22-2- 55-6 35-4 8- 5-10 60% Dry, wa	4°C 5% 5% 9 mm rm conditi + humid w	20–22°C 50–60% 30–40% 9–10 <5 mm ons (Any stage	18-2 45- 25- 9- <5	22°C 55% 35% -10 mm	22–26°C 40–50% 20–30% 10–11 Nil
RHe(%) SS (hr./day) Rainfall (mm) Congenial weather for	55–659 35–459 8–9 5–15 mm (mostl crop) Whitefly (YM) Thrips & A	y irrigated V vector) phids lildew eaf Spot	Tmax Tmax Tmax	22–26°C 50–60% 30–40% 9–10 5–10 mm : 32–38°C : 30–35°C : 28–32°C	RH: 40– RH: 55– High day	22–2 55–6 35–4 8– 5–10 60% Dry, wa 65% Cloudy temp + cool	4°C 5% 5% 9 mm rm conditi + humid w nights + le	20–22°C 50–60% 30–40% 9–10 <5 mm ons (Any stage yeather after irri	18-2 45- 25- 9- <5 gation (Vegetat	22°C 55% 35% -10 mm ive to flowering	22–26°C 40–50% 20–30% 10–11 Nil

Crop-weather calendar of Sesame (Sesamum indicum L.)

		Cr	<u>op-1</u>	<u>weat</u>	ner (<u>carer</u>	<u>luar</u>	<u>01 Ses</u>	ame (<u>Sesu</u>	<u>ımul</u>	<u>m ınaı</u>	<u>cum</u>	<u>L.)</u>		
		Cro	p- Ses	same (Till)			Du	ıration -	- 9	00-100	(Days)				
	Month			July				Aug	ust			Septe	ember		O	ctober
Climatic	Std. week	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
Normal	Tmax (⁰ c)	33.3	33.9	26.7	26.2	25.5	26.4	30.0	30.8	35.8	37.4	38.8	39.0	40.1	39.7	35.4
	Tmin (⁰ c)	26.5	26.0	11.1	11.6	13.5	10.8	13.3	14.0	20.0	18.6	20.6	23.0	22.0	21.2	20.5
	RHm(%)	92	92	83	87	83	73	78	75	67	50	52	41	42	36	77
	RHe(%)	68	71	50	45	51	40	36	37	31	20	28	21	18	16	42
	SS (hr./day)	3.0	2.2	8.0	7.1	8.0	7.1	5.8	5.9	7.3	8.8	8.3	7.6	7.0	6.9	9.1
	Rain(mm/week)	40.6	47.4	0.0	0.0	0.0	0.0	6.4	11.6	39.2	0.0	0.0	0.0	14.6	75.8	0.0
Phenophase weather for better yiel	Emer	ng to gence		Veg	etative	Growt	h		owering			Capsule F	ormatio	n	Seed M	faturity
Tmax (°c		35°C			32–38				0–34°C			28–3				32°C
Tmin (⁰ c	<i>'</i>	26°C			24–28				4–26°C			22–2				24°C
RHm(%	·				65–75				70-80%			65–7				70%
RHe(%)					55–65			(50–70%			55–6				60%
SS (hr./da	(y) 6-	5–7 7–9)			6–7			7–	-8		8	_9
Rainfall (m	m) 30–40	0–40 mm 25–35 mm				mm	<10	mm								
Congenial weather fo		f Roller & Capsule Borer						ntermitten	`			•	ge)			
pest/diseas			7	Tmax: 28–32°C RH >75% Moist conditions (Vegetative to flowering)												
	Phyl (Mycor	S	Spread by leafhopper under warm and dry conditions (Any stage (appears at flowering))													

RH >80% Prolonged leaf wetness Temp: 25–30°C (Vegetative to flowering)

Tmax: 30–35°C RH: 60–70% Intermittent rainfall (Flowering to capsule stage)

RH >85% Rain splashes + wounds (Pod development)

Alternaria Leaf Spot

Bacterial Blight
Leaf Roller & Capsule

Borer







Crop Weather Calendar of Auraiya District, Uttar Pradesh

Agro-climatic Zone

Main Crops

Soil Type

Middle Gangetic Plain Region

Paddy, Wheat, Maize, Pulses, Oilseeds (Mustard), Vegetables Alluvial Soil (Sandy Loam to Clayey Loam)









Developed by

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Under Gramin Krishi Mausam Sewa (GKMS), AMFU Kanpur

Crop-weather calendar of Rice (Oryza Sativa L.)

	Cr	op-	ŀ	Rice									Dura	tion	-120	- 135	(Days	s)						
	Month			June				Jul	ly				ugus				Septe		r		Oct	ober		
Climatic	Std. week	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	
Normal	Tmax (⁰ c)	32.4	31.6	31.1	30.9	30.8	30.7	31.0	31.2	31.4	30.8	30.9	31.2	31.0	30.8	30.7	30.2	30.7	30.2	30.1	29.2	28.8	28.5	
1,01,111	Tmin (⁰ c)	23.7	23.8	23.9	23.9	24.0	24.0	24.1	24.2	24.2	24.0	23.9	24.0	23.6	23.4	23.2	22.6	22.3	21.5	20.3	18.7	17.7	16.5	
	Rain(mm/week)	55.5	85.2	88.3	105.6	129.3	101.1	73.9	72.8	70.0	98.5	73.0	74.1	66.0	63.3	67.4	79.8	39.0	29.2	14.1	4.7	1.6	2.4	
	RH(%)	74.4	76.9	78.0	78.9	79.7	79.3	78.4	78.0	77.5	79.0	78.1	77.7	77.5	77.5	77.5	77.8	75.4	75.1	73.2	72.3	71.4	70.3	
Phenophase wise							4	, ,	¢!					No.		-			Variation of the same of the s			Physiol	ogical	
weather for	SA SAIN		S	owing			Transplanting					Active	tilleri	ng		Flowering			Grain filling			maturity		
better yield	Tmax (°c)			32–36				30-	-34		28–32						26–30		25–30			24–28		
	Tmin (⁰ c)		,	24–26				23-	-25				22–24	4			20–22			18–21		16-	-20	
	RHm(%)			80–90				85-	-95				85–9:	5			90–95			80–90		70-	-80	
	RHe(%)			70–80				75-					75–83				75–85			65–75		60-		
	Rainfall (mm)		4	40–60				60-	-80				60–90	0			50–70			30–50		<'2	20	
Commist	Seed rot,	Damp	ing off	Î	So	il temp	o: 30–3	5°C H	igh so	oil mo	isture	Poor d	Irainag	ge										
Congenial weather for		spot	Í		RI	H > 859	% Tma	x: 30–	34°C	Stagn	ant w	ater												
pest/diseases	Sheath blight folder,			Leaf	RI	H > 859	% Clou	ıdy ski	es Tn	nax: 28	8–32°	C												
	Neck blast, Fal	se smu	<mark>t, Shea</mark>	ath ro	t RI	I > 909	% Freq	uent li	ght ra	in Tm	ax: 20	5–30°C	7											
	Ear head bug, Ste	Grain (m bore		ration	RI	H: 80–9	90% In	termitt	tent ra	in Tm	ax: 2:	5–30°C												
	Dirty panicle, A	e Ri	H > 809	% Dela	iyed ha	ırvest	Fogg	y/clou	dy day	'S														

Crop-weather calendar of Wheat (*Triticum Aestivum***)**

		Crop-	Whea	at (Tim	ely so	wn)		Duration – 125-130 (Days) January February March												
	Month	Nove	mber		Decen	nber			Janu	ary]	Febru	ıary			Mar	ch		
Climatic Normal	Std. week	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13
Normai	Tmax (°c)	26.6	25.9	24.9	23.5	22.6	22.1	21.3	20.8	21.0	21.4	22.6	23.7	24.7	25.9	26.7	28.1	29.1	30.6	30.8
	Tmin (⁰ c)	13.9	12.7	11.9	10.9	10.1	9.2	9.0	8.4	8.7	9.1	9.8	10.9	11.8	12.7	13.7	14.4	15.4	16.8	17.9
	Rain(mm/week)	0.6	0.6	0.6	1.3	0.4	1.5	1.4	1.3	3.2	2.0	2.3	1.8	2.9	2.0	2.0	1.5	1.6	2.6	5.8
	RH(%)	70.4	69.9	70.6	72.1	72.8	72.5	73.8	74.0	73.9	73.7	72.4	71.6	71.1	70.0	69.7	67.9	67.4	66.3	67.8
				W		À	À		W				1	į	j		N/A	The second second	1	
Phenophase wise weather for better yield	Sowing & emerg	gence	Eme	ergence	to tiller	ring	Till	ering t	ering to heading			eading fill	to gra	iin	Grain formation to maturity				ysiolog Maturi	
Tmax (°c)	24–28			22-	26			20-	-25			22-	-26			26–30			28–32	
Tmin (⁰ c)	12–16			10–				8–					-14		12–16			14–18		}
RHm(%)	75–85			70–				65-					-80		60–70			50-6		
RHe(%)	60–70			60-				55-					-70		50–60			40–50		
Rainfall (mm)	10–20			<1				<.				10-	-20			<10			Nil or <	(5
Congenial	Seed rot, Dampi	ng off	Soil ten	np: 24–2	28°C Hi	gh soil	moistu	re Poo	r draina	age										
weather for	Aphids, Early b	light	Tmax:	22–26°C	CRH: 70	0–80%	Cool, r	noist n	norning	gs										
pest/diseases	Leaf rust, Stripe Aphids	rust,	Tmax:	20–25°C	0–25°C RH: 65–75% Intermittent dew or light showers															
	Powdery mildew smut, Rusts	S	Tmax:	22–26°C	C RH > '	75% Lig	ght raiı	n & clo	oudy w	eather										
	Root rot, Lodgin rain), Foliar bl	ight	Tmax:	26–30°C	CRH: 60	0–70% Dry weather preferable														
	Grain discolora Ear head infec	/	Tmax:	28–32°C	CRH: 50	0–60%	Fog or	dew d	uring n	naturit	У									
	Seed rot, Dampi	ng off	Soil ten	np: 24–2	8°C Hi	gh soil	moistu	re Poo	r drain	age										

Crop-weather calendar of Mustard (Brassica spp.)

		<u>C</u> 1	rop-v	<u>veat</u>	her (calei	<u>ndai</u>	c of	<u>Mu</u>	<u>star</u>	<u>d (<i>E</i></u>	<u>sras</u> ,	<u>sica</u>	spp.	<u>.)</u>					
	Crop-	Musta	rd						Γ	Ourati	ion –	1	25-13	0 (Day	vs)					
	Month		ober		No	vemb	er			ember				Janua				Feb	ruary	
Climatic Jormal	Std. week	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9
ormai	Tmax (⁰ c)	29.2	28.8	28.5	27.3	26.6	25.9	24.9	23.5	22.6	22.1	21.3	20.8	21.0	21.4	22.6	23.7	24.7	25.9	26.
	Tmin (⁰ c)	18.7	17.7	16.5	15.4	13.9	12.7	11.9	10.9	10.1	9.2	9.0	8.4	8.7	9.1	9.8	10.9	11.8	12.7	13.
	Rain(mm/week)	4.7	1.6	2.4	1.0	0.6	0.6	0.6	1.3	0.4	1.5	1.4	1.3	3.2	2.0	2.3	1.8	2.9	2.0	2.
	RH(%)	72.3	71.4	70.3	71.0	70.4	69.9	70.6	72.1	72.8	72.5	73.8	74.0	73.9	73.7	72.4	71.6	71.1	70.0	69.
	Sowing & emerg	1	Vegetat	days		F	(15-2) loweri	0 days) ng	All .		(25-30	days)	- 1	S	eed dev		nent	Matu	rity	
Tmax (°c)	24–28			22–2	6			20–24	1			20–2	5		2	4–28			28–30)
Tmin (°c)	12–16			10–1	4			8–12				10–1	4		1	2–16			14–18	
RHm(%)	70–80			65–7:	5			60–70)			60–7	0		5	5–65			50-60	1
RHe(%)	60–70			55–6	5			50–60)			50–6	0		4	5–55			40–50	
Rainfall (mm)	5–10			<10				<5				<10			Ni	l or <5			Nil	
congenial veather for	Seed rot, Dam Aphids, Altern spot	aria le	af Tı	Soil temperature > 25°C High soil moisture Poor drainage Tmax: 22–26°C RH: 65–75% Moist, cloudy weather																
est/diseases	White rust, P	•	Tı	nax: 20)–24°C l	RH: 60	– 70% (Cloudy	with	dew fo	rmatio	n								

Crop-weather calendar of Potato (*Solanum tuberosum L.***)**

	Crop-	Potat	0						D	uratio	on –	11	0-120	(Days	s)					
GI .	Month	Oct	ober		No	vemb	er		Dece	mber	r			Janua	ary			Feb	ruary	
Climatic Normal	Std. week	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9
Tional	Tmax (⁰ c)	29.2	28.8	28.5	27.3	26.6	25.9	24.9	23.5	22.6	22.1	21.3	20.8	21.0	21.4	22.6	23.7	24.7	25.9	26.7
	Tmin (⁰ c)	18.7	17.7	16.5	15.4	13.9	12.7	11.9	10.9	10.1	9.2	9.0	8.4	8.7	9.1	9.8	10.9	11.8	12.7	13.7
	Rain(mm/week)	4.7	1.6	2.4	1.0	0.6	0.6	0.6	1.3	0.4	1.5	1.4	1.3	3.2	2.0	2.3	1.8	2.9	2.0	2.0
	RH(%)	72.3	71.4	70.3	71.0	70.4	69.9	70.6	72.1	72.8	72.5	73.8	74.0	73.9	73.7	72.4	71.6	71.1	70.0	69.7
			The state of the s	3	A CONTRACTOR OF THE PARTY OF TH	To the second	A. A.	THE STATE OF THE S			The same of the sa		N. Company		1			Y		
Phenophase wise weather for better yield	Sowing & emerg	gence	Vege	etative	growth		F	ing		Tuk	oer Ini	tiation	l	Tuber	· Bulki	ing	N	Iaturi t	y	
Tmax (⁰ c)	24–28			20–2			20–25					18–2			2				24–28 12–16	
Tmin (°c)	12–16			10–1			10–12					10–1				0–14				
RHm(%)	75–85			80–9				80–83				85–90				0–85				
RHe(%) Rainfall (mm)	65–75 5–10			70 <u>-8</u> 0				65–75 <5	5			70 <u>-8</u> <10				5–70 <10			55–65 Vil or <	
Kaiman (mm)	Seed rot, Dampi	ing off	Soil ter		-28°C H	igh so	il mois		or dra	inage		<10				<10		Γ	N11 OF <.	3
Congenial weather for	Early bligh Cutworms, Ap	t,		-	°C RH >															
pest/diseases	Late blight, Whi	iteflies	Tmax:	20–25°	°C RH: 8	30–85%	% Dew	or ligh	nt drizz	le										
	Late blight, Roo nematodes	S	Tmax:	18–22°	°C RH >	90% (Overca	st + dr	izzles											
	Rhizoctonia (b scurf), Aphi		Tmax:	20–24°	°C RH: 8	80–85%	% Inter	mitten	t irriga	tion										
	Soft rot, Dry (storage fun		Tmax:	24–28°	°C RH: 6	65–75%	% Dry,	warm	days	_	_	_	_	_	_	_	_	_	_	_