



## ગ્રામીણ કૃષિ મૌસમ સેવા

હવામાન આગાહી આધારીત કૃષિસલાહ બુલેટીન  
ઉત્તર સૌરાષ્ટ્ર ખેત આબોહવાકીય વિભાગ  
તા.૦૭-૧૨-૨૦૧૯ થી તા.૧૧-૧૨-૨૦૧૯



(ગ્રામીણ કૃષિ મૌસમ સેવા, સૂકી ખેતી સંશોધન કેન્દ્ર, જી.કૃ.યુ., તરઘડિયા અને ભારત મૌસમ વિભાગ દ્વારા સંપન્ન)

કૃષિ હવામાન બુલેટીન નં. ૭૨/૨૦૧૯

પાછલા અઠવાડિયાનું રાજકોટનું હવામાન

હવામાન પરિબલો	
વરસાદ(મી.મી)	0.0
મહત્તમ તાપમાન (સે.ગ્રે)	29.2-32.0
લઘુત્તમ તાપમાન (સે.ગ્રે)	13.8-19.9
ભેજ(%) સવાર	60-76
ભેજ(%) બપોરબાદ	45-50
પવનની ગતિ (કિમી/કલાક)	5.7-6.8

હવામાન આગાહી: પત્રક-ક

ઉત્તરસૌરાષ્ટ્ર ખેત આબોહવાકીય વિભાગ-હવામાન આગાહી

તા.૦૭-૧૨-૨૦૧૯ થી ૧૧-૧૨-૨૦૧૯

કૃષિ સલાહ:

સામાન્ય	<p>➤ ભારત સરકારશ્રીના હવામાન ખાતા તરફથી મળેલ હવામાન માહિતી અનુસાર અત્રેના ગ્રામીણકૃષિ મૌસમ સેવા વિભાગ, જુનાગઢ કૃષિ યુનિવર્સિટી, તરઘડિયા તરફથી જણાવવામાં આવે છે કે, ઉત્તર સૌરાષ્ટ્ર ખેત આબોહવાકીય વિસ્તારના પશ્ચિમ રાજકોટ: જીલ્લામાં આગામી તા.૦૭-૧૨-૨૦૧૯ થી તા.૧૧-૧૨-૨૦૧૯ દરમિયાન હવામાન સૂકું અને મુખત્વે વાદળછાયું રહેશે. પવનની દિશા ઈશાનની રહેવાની અને પવનની ઝડપ ૯ થી ૧૩ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમિયાન ૩૦-૩૧ ડીગ્રી સેલ્શિયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમિયાન ૧૮-૨૦ ડીગ્રી સેલ્શિયસ જેટલું રહેવાની સંભાવના છે.</p>					
તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫	
પેરામીટર	૦૭-૧૨-૧૯	૦૮-૧૨-૧૯	૦૯-૧૨-૧૯	૧૦-૧૨-૧૯	૧૧-૧૨-૧૯	
વરસાદ(મી.મી)	0	0	0	0	0	
મહત્તમતાપમાન (સે.ગ્રે)	30	30	31	31	31	
લઘુત્તમતાપમાન (સે.ગ્રે)	20	18	19	19	19	
વાદળનીસ્થિતિ(ઓકટા)	8	3	2	1	0	
મહત્તમભેજ(%) સવાર	38	33	40	43	42	
લઘુત્તમભેજ (%) બપોરબાદ	27	16	19	23	22	

પવનનીગતિ(કિમી/કલાક)	11	13	12	12	9
પવનનીદિશા(ડીગ્રી)	36	35	38	37	52

**મોરબી :** જીલ્લામાં આગામી તા.૦૭-૧૨-૨૦૧૯ થી તા.૧૧-૧૨-૨૦૧૯ દરમ્યાન હવામાન સુકું અને મુખત્વે વાદળછાયું રહેશે. પવનની દિશા ઈશાન અને પૂર્વની રહેવાની અને પવનની ઝડપ ૮ થી ૧૨ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૩૦-૩૧ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન ૧૮-૨૦ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૦૭-૧૨-૧૯	૦૮-૧૨-૧૯	૦૯-૧૨-૧૯	૧૦-૧૨-૧૯	૧૧-૧૨-૧૯
વરસાદ(મી.મી)	0	0	0	0	0
મહત્તમતાપમાન (સે.ગ્રે)	30	30	31	31	31
લઘુત્તમતાપમાન (સે.ગ્રે)	20	18	19	19	19
વાદળનીસ્થિતિ(ઓકટા)	8	4	2	2	0
મહત્તમભેજ(%) સવાર	36	41	48	50	50
લઘુત્તમભેજ (%) બપોરબાદ	20	20	28	30	29
પવનનીગતિ(કિમી/કલાક)	12	11	9	9	8
પવનનીદિશા(ડીગ્રી)	61	68	72	62	68

**જામનગર:** જીલ્લામાં આગામી તા.૦૭-૧૨-૨૦૧૯ થી તા.૧૧-૧૨-૨૦૧૯ દરમ્યાન હવામાન સુકું અને મુખત્વે વાદળછાયું રહેશે. પવનની દિશા ઈશાનની રહેવાની અને પવનની ઝડપ ૧૧ થી ૨૦ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૩૧-૩૩ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન ૨૦-૨૧ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૦૭-૧૨-૧૯	૦૮-૧૨-૧૯	૦૯-૧૨-૧૯	૧૦-૧૨-૧૯	૧૧-૧૨-૧૯
વરસાદ(મી.મી)	0	0	0	0	0
મહત્તમતાપમાન (સે.ગ્રે)	31	33	33	33	32
લઘુત્તમતાપમાન (સે.ગ્રે)	21	20	20	20	20
વાદળનીસ્થિતિ(ઓકટા)	8	2	2	1	0
મહત્તમભેજ(%) સવાર	50	44	47	48	49
લઘુત્તમભેજ (%) બપોરબાદ	38	28	29	32	33
પવનનીગતિ(કિમી/કલાક)	16	20	17	16	11
પવનનીદિશા(ડીગ્રી)	31	37	36	40	60

**દેવભૂમિ દ્વારકા:** જીલ્લામાં આગામી તા.૦૭-૧૨-૨૦૧૯ થી તા.૧૧-૧૨-૨૦૧૯ દરમ્યાન હવામાન સુકું અને મુખત્વે વાદળછાયું રહેશે. તા. ૦૭ ના રોજ હળવા વરસાદી છાંટા પડવાની શક્યતા છે. પવનની દિશા ઈશાનની રહેવાની અને પવનની ઝડપ ૧૧ થી ૧૯ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૩૦-૩૧ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન ૨૨-૨૩ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૦૭-૧૨-૧૯	૦૮-૧૨-૧૯	૦૯-૧૨-૧૯	૧૦-૧૨-૧૯	૧૧-૧૨-૧૯
વરસાદ(મી.મી)	5	0	0	0	0
મહત્તમતાપમાન (સે.ગ્રે)	30	30	30	30	31
લઘુત્તમતાપમાન (સે.ગ્રે)	23	22	22	22	22
વાદળનીસ્થિતિ(ઓકટા)	8	1	2	1	0
મહત્તમભેજ(%) સવાર	52	47	50	51	51
લઘુત્તમભેજ (%) બપોરબાદ	39	27	26	29	30
પવનનીગતિ(કિમી/કલાક)	15	19	16	15	11
પવનનીદિશા(ડીગ્રી)	37	42	39	45	63


**અમરેલી:** જીલ્લામાં આગામી તા.૦૭-૧૨-૨૦૧૯ થી તા.૧૧-૧૨-૨૦૧૯ દરમિયાન હવામાન સુકું અને આંશિક વાદળછાયું રહેશે. પવનની દિશા ઉત્તર અને ઈશાનની રહેવાની અને પવનની ઝડપ ૧૦ થી ૧૬ કીમી/કલાક રહેની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમિયાન ૩૧-૩૨ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમિયાન ૧૭-૧૯ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.




તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૦૭-૧૨-૧૯	૦૮-૧૨-૧૯	૦૯-૧૨-૧૯	૧૦-૧૨-૧૯	૧૧-૧૨-૧૯
વરસાદ(મી.મી)	0	0	0	0	0
મહત્તમતાપમાન (સે.ગ્રે)	31	31	32	32	32
લઘુત્તમતાપમાન (સે.ગ્રે)	19	17	18	18	18
વાદળનીસ્થિતિ(ઓકટા)	8	4	3	3	0
મહત્તમભેજ(%) સવાર	51	34	44	50	49
લઘુત્તમભેજ(%) બપોરબાદ	31	23	29	33	31
પવનનીગતિ(કિમી/કલાક)	13	16	14	14	10
પવનનીદિશા(ડીગ્રી)	17	23	26	26	28




**સુરેન્દ્રનગર:** જીલ્લામાં આગામી તા.૦૭-૧૨-૨૦૧૯ થી તા.૧૧-૧૨-૨૦૧૯ દરમિયાન હવામાન સુકું અને મુખત્વે વાદળછાયું રહેશે. પવનની દિશા ઈશાનની રહેવાની અને પવનની ઝડપ ૧૦ થી ૧૩ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમિયાન ૩૦-૩૧ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમિયાન ૧૮-૨૦ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૦૭-૧૨-૧૯	૦૮-૧૨-૧૯	૦૯-૧૨-૧૯	૧૦-૧૨-૧૯	૧૧-૧૨-૧૯
વરસાદ(મી.મી)	0	0	0	0	0
મહત્તમતાપમાન (સે.ગ્રે)	30	30	31	31	31
લઘુત્તમતાપમાન (સે.ગ્રે)	20	18	19	19	19
વાદળનીસ્થિતિ(ઓકટા)	8	2	2	1	0

	મહત્તમભેજ(%) સવાર	36	35	40	44	43
	લઘુત્તમભેજ(%) બપોરબાદ	26	19	24	28	27
	પવનનીગતિ(કિમી/કલાક)	13	13	12	11	10
	પવનનીદિશા(ડીગ્રી)	58	45	40	43	51
	<p>➤ ૦૭ થી ૧૧-ડિસેમ્બર ૨૦૧૯ હવામાન સુકું અને મોટાભાગે મુખત્વે વાદળછાયું રહેશે. દેવભૂમિ દ્વારકા જીલ્લામાં તા. ૦૭ ના રોજ હળવા વરસાદી આપટા થવાની શક્યતા છે. પવનની દિશા ઈશાનની મોટાભાગે રહેવાની અને પવનની ઝડપ ૮ થી ૨૦ કીમી/કલાક રહેવાની શક્યતા છે. આ સમયગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૩૦-૩૩ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન ૧૭-૨૩ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.</p> <p>• હાલ ભેજવાળા વાદળ છાયા હવામાનને કારણે શિયાળુ પાકમાં રોગ જીવાતનો ઉપદ્રવ વધવાની શક્યતા હોય પાકનું સતત નિરિક્ષણ કરતા રહેવું આર્થિક ક્ષમ્યમાત્રા કરતા વધુ ઉપદ્રવ જોવા મળે તો ભલામણ મુજબ નિયંત્રણના પગલા લેવા.</p>					
મુખ્ય પાક	પાક અવસ્થા	રોગ/જીવાત/જાત	કૃષિ સલાહ (૧૦ લીટરપાણીમાં મિશ્ર કરી ભલામણ કરેલ દવા છાંટવી )			
લસણ	વૃદ્ધિ	-	જમીનની પરત મુજબ ૧૦-૧૨ દિવસે પિયત આપવું. યુરિઆ ખાતર ૫૪ કી.ગ્રા. પ્રતિ હેક્ટર વાવેતર બાદ ૩૦-૩૫ દિવસે આપવું. ➤ હાલ ભેજવાળા વાદળ છાયા હવામાનને કારણે પાન પીળા પડતા અટકાવવા મેન્કોઝેબ ૨૭ ગ્રામ અથવા હેક્ઝાકોનાઝોલ ૧૫ મિલી પ્રતિ ૧૦ લીટર પાણીમાં નાખીને છંટકાવ કરવો.			
ચણા	વૃદ્ધિ/ફૂલ	લીલી અને લશ્કરી ઈયળ	ચણાના પાકમાં લીલી અને લશ્કરી ઈયળના નિયંત્રણ માટે પક્ષીઓને બેસવા માટે 'T' આકારના બેલાખડા મુકવા. જો વધુ ઉપદ્રવ જણાય તો એમામેકટીન બેન્ઝોએટ ૭ ગ્રામ ૧૦ લીટર પાણીમાં કરીને છંટકાવ કરવો.			
ધાણા	વૃદ્ધિ	ગુજરાત ધાણા-૨	-			
જીરું	વાવેતર/ઊગાવો	ગુજરાત જીરું-૪	પાયામાં ૩૩ કી.ગ્રા. ડીએપી પ્રતિ હેક્ટર મુજબ આપી જીરૂની વાવણી કરવી. વાવેતર વખતે જીરૂના બીજને થાયરમ ૨ ગ્રામ પ્રતિ ૧ કી.ગ્રા. મુજબ પટ આપવો. હાલ ભેજવાળા વાદળ છાયા હવામાનને કારણે જીરૂમાં ચરમીનો ઉપદ્રવ ન થાય તે માટે ડાયથેન એમ ૪૫, ૨૭ ગ્રામ અને હેક્ઝાકોનાઝોલ ૧૫ મિલી દવા વારાફરતી ૧૦ લીટર પાણીમાં મિશ્ર કરીને ૧૫ દિવસના અન્તરે છંટકાવ કરવો.			

ઘઉં	તંતુ મૂળ/ફૂટ	લોક-૧, જી.ડબ્લ્યુ-૪૯૬	મુકુટ/તંતુ મૂળ અવસ્થાએ ૧૩૦ કી.ગ્રા. યુરિઆ અને પિયત આપવું.
રાયડો	દાંડલી	રાય વરુણા, ગુજરાત -૩ અને ૪	-
કપાસ	કપાસની વીણી	બિન પિયત વિસ્તારમાં કપાસની છેલ્લી વીણી સમયસર પૂર્ણ કરવી. છેલ્લી વીણી પછી ઘેટા બકરા ચરાવવા. જેથી ખુલ્લા વગરના ગુલાબી ઇયળના નુકશાન વાળા જીંડવા અને અન્ય કચરો નાશ પામે. ત્યારબાદ કરાંઠી સળગાવવી નહિ પરંતુ રોટાવેટર/મોબાઈલ ચોપરથી નાના ટુકડા કરી જમીનમાં દાંટી દેવા જેથી જમીન સેન્દ્રિય તત્વનો ઉમેરો થવાથી સુંક્ષ્મ જીવોની સંખ્યા વધશે અને જમીનના સ્વાસ્થ્યમાં સુધારો થશે. અથવા કરાંઠી ભેગી કરી શ્રેડરથી નાના ટુકડા કરીને છાણ, યુરિયા, કમ્પોસ્ટ કલ્ચર ઉમેરી દેશી(સેન્દ્રિય) ખાતર બનાવવું.	
દિવેલા	વૃધ્ધિ/ફૂલ/ગડ	લીલી પોપટી, સફેદ માખી  ઘોડિયા અને લશ્કરી	<ul style="list-style-type: none"> <li>➤ સફેદ માખી અને લીલી પોપટીનો વધુ ઉપદ્રવ જોવા મળે છે. જેના નિયંત્રણ માટે એસીટામાપ્રીડ ૨૦ ટકા ૫ ગ્રામ અને ઈમીડાક્લોપ્રીડ ૩૦.૫ % ૩ મિલી સાથે લીંબોળીનું તેલ ૫૦ મીલી અથવા લીંબોળીના મીંજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી/૧૦ લિટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો.</li> <li>➤ ઘોડિયા અને લશ્કરી ઈયળના નિયંત્રણ માટે ક્લોરોપાયરીફોસ ૨૫ મિલી/૧૦ લિટર પાણીમાં મિશ્ર કરી છાંટવી.</li> </ul>
ચોમાસું ડુંગળી	દડાનો વિકાસ	પાનનો સુકારો	<ul style="list-style-type: none"> <li>➤ ચોમાસુ ડુંગળીના પાકમાં પાનનાં સુકારાના નિયંત્રણ માટે મેન્કોઝેબ ૪૦ ગ્રામ અથવા હેક્ઝાકોનાઝોલ ૨૦ મિલી ૧ પમ્પમાં નાખીને ૧૦ દિવસના અંતરે ૩ છંટકાવ કરવા.</li> <li>➤ નાઈટ્રોજન યુક્ત એમોનિયમ સલ્ફેટ ખાતરનો પુરતી ડોઝ ૩૦ કીલો ગ્રામ પ્રતિ હે. આપવો.</li> </ul>
તુવેર	ફૂલ/શીંગ	-	ફૂલ અવસ્થાએ પિયત આપવું.
વટાણા ગાજર	વાવેતર/ઊગાવો	શાકભાજી માટે વટાણાની પુસા પ્રગતિ અને ગાજરની પુસા રુધીરા અને પુસા કેસર જાતો પસંદ કરવી.	
કોબી અને ફલાવર	વૃદ્ધિ/દડા	હિરાફૂદુ	કોબી અને ફલાવરમાં હિરાફૂદાના નિયંત્રણ માટે સ્પીનોસાઈ ૩ મિલી/૧૦ લિટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો.

લીંડા	ફૂલ/ફળ	તડતડીયા અને સફેદ માખી  શીગ કોરી ખાનાર ઈયળ  પાન કથીરી	<ul style="list-style-type: none"> <li>➤ લીંડામાં તડતડીયા અને સફેદ માખીના નિયંત્રણ માટે લીંબોળીનું તેલ ૫૦ મિલિ અથવા લીંબોળીના મીંજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી અને ડાયફેન્થાથુરોન ૫૦ ટકા વે.પા. ટકા ૧૬ ગ્રામ અથવા ટ્રાયઝોફોસ ૪૦ ઈસી ૨૫ મિ.લી. દવાને ૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો.</li> <li>➤ તેના ફળ અને ડોકા કોરી ખાનાર ઈયળનો ઉપદ્રવ વધુ હોય તો સ્પીનોસાડ ૩ મિલી /૧૦ લીટર પાણીમાં ઓગાળી છંટકાવ કરવો.</li> <li>➤ જો પાનકથીરીનો ઉપદ્રવ હોય તો ઇથીઓન ૩૦ મિલી પ્રતિ પંપ છંટકાવ કરવો.</li> </ul> <p>લીંડાની વીણી બાદ પ્રતિ એકરે ૫-૭ કી.ગ્રા. યુરિઆ ખાતર આપવું.</p>
રીંગણી અને ટમેટી	ફૂલ/ફળ	તડતડીયા અને સફેદ માખી  ડુંખ અને → ફળ કોરી ખાનાર ઈયળ  પાન કથીરી	<ul style="list-style-type: none"> <li>➤ તડતડીયા અને સફેદ માખીના નિયંત્રણ માટે લીંબોળીનું તેલ ૫૦ મિલિ અથવા લીંબોળીના મીંજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી અને ડાયફેન્થાથુરોન ૫૦ ટકા વે.પા. ૧૬ ગ્રામ અથવા ટ્રાયઝોફોસ ૪૦ ઈસી ૨૫ મિ.લી. દવાને ૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો.</li> <li>➤ ફળ અને ડોકાની ઈયળોનો ઉપદ્રવ હોય તો નુકશાન પામેલ ફળ અને ડોકા તોડીને જમીનમાં દાંટી દેવા અને ક્લોરોનટ્રાનીલીપ્રોલ ૧૮.૫ એસ.સી (રીનાક્ષીપાયર) દવા ૩ મિલી અથવા ડીડીવીપી ૭૬ ઈસી મિલી ૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો.</li> <li>➤ જો પાનકથીરીનો ઉપદ્રવ હોય તો પ્રોપરગાઈટ ૫૭ ઈ.સી. ૧૫ મિલી પ્રતિ પંપ છંટકાવ કરવો.</li> </ul>
મરચી	વૃદ્ધિ/ફૂલ/ફળ	થ્રીપ્સ, સફેદ માખી  કાલવણ → 	<ul style="list-style-type: none"> <li>➤ પ્રોફેનોફોસ ૨૦ મીલી અને લીંબોળીનું તેલ ૫૦ મિલી અથવા લીંબોળીના મીંજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મિલી ૧૦ લી. પાણીમાં મિશ્ર કરી છંટકાવ કરવો. થ્રીપ્સનો વધુ ઉપદ્રવ હોય તો સ્પીનોસાડ અથવા સ્પીનેટોરમ દવા ૫ મિલી. પ્રતિ પંપ છંટવી.</li> <li>➤ કાલવણ રોગના નિયંત્રણ માટે મેન્કોઝેબ ૨૭ ગ્રામ અથવા ક્લોરોથેલોનીલ ૨૭ ગ્રામ અથવા ફોઝેટાઈલ ૨૦ ગ્રામના ૧૫ દિવસના અંતરે ત્રણ છંટકાવ કરવા.</li> </ul>
લીંબુ	ફળનો વિકાસ	પાન કથીરી 	લીંબુના બગીચામાં પાન કથીરીનો ઉપદ્રવ વધુ હોય તો તેના નિયંત્રણ માટે પ્રોપરગાઈટ દવા ૧૦ મિલી ૧૦ લીટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો.

		 <p>સાયલા અને થ્રીપ્સ</p>	<p>તેના નિયંત્રણ માટે ઇમીડાક્લોપ્રીડ ૩૦.૫ ટકા ૫ મીલી અને લીંબોળીનું તેલ ૫૦ મીલી અથવા લીંબોળીના મીંજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી/૧૦ લિટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો. વધુ ઉપદ્રવ હોય તો ટ્રાયઝોફોસ ૪૦ ટકા ૨૦/૧૦ લિટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો.</p> 
		<p>બદામી ટપકાં</p> <p>પાનકોરીયુ</p>	<p>બદામી ટપકાના નિયંત્રણ માટે કોપર ઓક્સીક્લોરાઈડ ૪૦ ગ્રામ અને ૧.૫ ગ્રામ સ્ટ્રેપ્ટોસાયક્લીનના બે છંટકાવ ૧૫ દિવસના ગળે કરવા.</p> <p>પાનકોરીયુના નિયંત્રણ માટે ડીડીવીપી ૧૦ મી.લી. ૧૦ લિટર પાણીમાં મિશ્ર કરીને છાંટવી.</p>
<p>પશુ/ મરઘા</p> 			<p>દુધાળા પશુના આઉને ઝીંક ઓક્સાઈડ અથવા બોરીક પાવડર થી બરાબર સાફ કરવું. તેમજ ઈતરડીના નિયંત્રણ માટે ડેલ્ટામેથ્રીન અથવા એમીટ્રાલ ૨ મી.લી. એક લીટર પાણીમાં નાખીને છાંટવી. પશુઓમાં ખરવા મોવાના રોગનું રસીકરણ કરાવવું. ઉછરતા પશુઓમાં કરમીયાની ગોળી આપવી. પશુને ૬ થી ૮ કી.ગ્રા. સુકો અને ૧૫ થી ૨૦ કી.ગ્રા. લીલો ચારો આપવો. પશુઓના રહેઠાણની જગ્યાની વ્યવસ્થિત સફાઈ રાખવી અને માખીઓના ઉપદ્રવથી બચવા ફિનાઈલ છાંટવું. દુધાળા પશુઓને પ્રતિ લીટર દુધની ઉપજ હોય તેમને નિયમિત ૧ કી.ગ્રા. ફીડ + ૫૦ ગ્રામ ખનીજ તત્ત્વોનું મિશ્રણ આપવું.</p>

જુક્યુ/ટેકનિકલ ઓફિસર.(સુખે)/એગ્રોમેટ/બુલેટીન/ /૨૦૧૯  
તરઘડિયા(રાજકોટ), તારીખ: ૦૬/૧૨/૨૦૧૯.

પ્રતિ,  
તંત્રીશ્રી/ડાયરેક્ટરશ્રી,  
રાજકોટ,

ઉપરોક્ત માહિતી આપના દૈનિક સમાચાર પત્રોમાં, રેડીયોમાં ગામના ચોરાના કાર્યક્રમમાં તથા ટીવીના ગ્રામ્ય કાર્યક્રમમાં વિના મૂલ્યે પ્રસિધ્ધ કરાવવા નમ્ર વિનંતી છે. સહકારની અપેક્ષા સહ આભાર.

ટેકનીકલ ઓફિસર  
સુકી ખેતીસંશોધન કેન્દ્ર  
જુનાગઢ કૃષિ નિવર્સિટી  
તરઘડીયા





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**Agro met Advisory Service bulletin No.72-for the Rajkot district**

(Issued jointly by DFRS, J.A.U., Targhadia (Rajkot) and India Meteorological Department)

(Period 07 to 11-December- 2019)

**Significant past weather for the preceding week of Rajkot**

Rainfall (mm)	0.0
Maximum temperature (°C )	29.2-32.0
Minimum temperature (°C )	13.8-19.9
Relative Humidity (%) I	60-76
Relative Humidity (%) II	45-50
Wind speed (Kmph)	5.7-6.8

**Weather forecast until 08-30 hrs. Of 11/12/2019**


**(1) RAJKOT DISTRICT:**





	07/12/19	08/12/19	09/12/19	10/12/19	11/12/19
Rainfall (mm)	0	0	0	0	0
Max.Temp.(°C)	30	30	31	31	31
Min.Temp.(°C)	20	18	19	19	19
Total CC (octa)	8	3	2	1	0
RH-I (%)	38	33	40	43	42
RH-II (%)	27	16	19	23	22
Wind Speed (kmph)	11	13	12	12	9
Wind Direction(deg.)	36	35	38	37	52


**Agro meteorological Advisories:**

<b>General Advice</b>	<p><b>Rain fall: Dry and Mainly clear to Partly cloudy weather forecasted next five days.</b></p> <ul style="list-style-type: none"> <li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 30-31°C and 18-20°C, respectively.</li> <li>• <b>Relative Humidity:</b> The RH-I and RH-II is likely to be in the range of 33-43% &amp; 16-27, respectively.</li> <li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be NE and 9-13 km/h, respectively.</li> <li>• <b>Due to cloudy weather, pest infestation may increase in rabi crops, so monitor the crops, if infestation is above ETL then take control measures as per advisory given.</b></li> </ul>
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Crops	Stage	Insect/Pest/ Variety	Advisory
<b>Garlic</b>	Growing	-	Apply supplementary dose of nitrogen as urea @ 54 kg/ha at 30-35 days after sowing Do not over irrigate to prevent leaf blight disease. Carry out spraying of Mencozeb 75 % WP 40 gm/10 lit of water to prevent leaf blight disease in garlic crop.
<b>Chick pea</b>	Growth/branching	Monitor the crop regularly for prodenia and heliothes infestation	“T” shaped bird perches in and around crop field to be installed for natural controlling of prodenia and heliothes population.  If infestation cross ETL spray <b>Emamectin Benzoate 5 % SG 7 gm</b> in 10 litres of water.
<b>Cumin</b>	Sowing/germination	Gujarat cumin-4	Carry out sowing of cumin, If kharif crop is harvested. Seed must be treated with fungicides Captan or Thiram or Carbendazim @ 2.0 gm/ kg to prevent wilt. Due to cloudy and humid weather carry out spraying of Mencozeb 75 % WP 40 gm/10 lit of water to prevent blight disease in cumin crop.
<b>Coriander</b>	Growing	Gujarat Coriander-1 , Gujarat Coriander-2	-
<b>Wheat</b>	Sowing/germination/ Crown root	Lok-1, GW-496	Apply 130 kg urea/ha at crown root initiation. Irrigate crop at CRI stage without stress.
<b>Cotton</b>	Picking & pulling of cotton stalk	Carry out picking in time. <b>Animals like goats, sheep among others, should be allowed to graze on unopened bolls and plant debris in the cotton fields after the last picking to prevent infestation in subsequent year. After grazing don't burn cotton stalk but do in situ chopping &amp; burying of cotton stalk in soil by mobile chopper and rotavator to improve soil biomass and health.</b>	

			
<b>Castor</b>	Flowering/ capsule formation	Jassids& white fly→  Prodenia	<p><b>Spray Acetamiprid 20 % SP@ 5.0 gmORimidacloprid 30.5 % 3 ml with neem seed extract 500 ml or neem oil 40 mla / 10 lit of water ml/10 lit of water.</b></p> <p>For the control of prodenia spray Chlorpyriphos 25 ml in 10 liters of water.</p>
Pigeon pea	Flowering/ pod formation	-	Apply irrigation through drip system
<b>Kharif Onion</b>	T.P./Bulb development	<b>Alternaria leaf spot/purple blotch</b>	<p><b>For the control of purple blotch blight disease in kharif onion make 3 alternate spray of Mencozeb27 gm and thiophanate methyl 15 gm / 10 liter of water at 10 days interval.</b></p> <p><b>Apply supplementary dose of nitrogen (Urea 40 kg/ha) at 30 DASunder clear sky.</b></p>
<b>Lady finger</b>	Flowering/ fruiting	<b>Jassids&amp;white fly</b>  <b>Shoot and fruit borer</b>  <b>Mites</b>	<ul style="list-style-type: none"> <li>• <b>Monitor the crop for infestation of jassid&amp; white fly, if require spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with diafenthiuron 50 %wp @ 16 gm / 10 lit of water.</b></li> <li>• For control of <b>Shoot and fruit borer</b> Sparyneem seed extract 500 ml or neem seed oil 50 ml in 10 litre of water at 15 days interval(4 spray).If pest population is high, spraying of Spinosad 48 EC @ 1 ml /4 litres of water is advised when sky remains clear.</li> <li>• Constant monitoring of lady finger crop against attack of mite is advised. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water is advised when sky remains clear.</li> <li>• After harvesting of mature okra</li> </ul>

			application of urea @ 5-10 kg/ acre should be done.
<b>Cluster bean</b>	Growing/ fruiting	<b>Jassid/whitefly</b>	<ul style="list-style-type: none"> <li>• <b>Monitor the crop for infestation of jassid &amp; white fly, if require spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with diafenthiuron 50 %wp @ 16 gm / 10 lit of water.</b></li> </ul>
<b>Brinjal &amp; Tomato</b>	Flowering/ fruiting	<p><b>Sucking pest</b> →</p> <p><b>Shoot &amp; Fruit borer</b></p>  <p><b>Mites</b></p>	<p><b>Monitor the crop for infestation of jassid &amp; white fly in brinjal, if require spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with diafenthiuron 50 %wp @ 16 gm / 10 lit of water.</b></p> <p><b>In brinjal and tomato constant monitoring of borers by using pheromone traps 4-6 per acre is advised, If insect population is above ETL than spraying of chlorantraniliprole 18.5 % SC 3.0 ml or DDVP/10 litre of water is advised against fruit borer.</b></p> <p><b>If infestation is found, then make spraying of Propargite 57 % EC @ 10 ml/ 10litre of water for the control of Mites under clear sky.</b></p>
<b>Chili</b>	Flowering & fruiting	<p><b>Thrips</b> →</p>  <p><b>Anthracnose</b> →</p> 	<p><b>Under present weather conditions severe attack of thrips has been reported. Spray Profenofos 20 ml with 500 ml of 5 % neem seed extract or neem seed oil 50 ml in 10 litres of water. In case of heavy attack make spray of spinosad or spinetoram 3 ml per 10 liter of water.</b></p> <p>For the control of Anthracnose spray <b>Mencozeb 27gm</b> OR <b>Chlorothalonil 27 gram</b> OR <b>Fosetyl 20 gm in 10 liters of water at 15 days interval.</b></p>
<b>Lemon</b>	Fruit development	<p><b>Psylla and thrips</b></p>  <p><b>Citrus canker</b></p> <p><b>Leaf minor</b></p> <p><b>Hast Bahar</b></p>	<p>To prevent damage of psylla &amp; thrips spray <b>imidacloprid 30.5 % 5 ml / 10 lit of water ml/10 lit of water.</b></p> <p><b>Spray copper oxychloride 40 gm or streptocyclin 1.5 gm in 10 litre of water.</b></p> <p><b>Spray Dichlorvos 10 ml or Quinalphos 20 ml in 10 litres of water for control of leaf minor.</b></p> <p><b>For getting maximum fruit in summer, after last</b></p>

			rainfall cultivate lemon orchard up to the depth of 10-15 cm for pruning of tiny small root and keep left until wilting & defoliation start, after that apply FYM @ 50 kg, Urea @ 300 gm, Ammonium sulphate @ 500 gm, DAP @ 1.5 kg & murate of potash 300 gm/tree.
<p><b>Livestock &amp; poultry</b></p> 	<p>Spray Deltamethrin or Amitraz 2 ml/litre of water for the control of tick and for prevention of foot &amp; mouth disease in animals do vaccination with FMD vaccine. Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. Spray phenyl in the animal shed to avoid flies and mosquitoes. Keep animal shed hygienic and clean to avoid flies and mosquitoes. For milch animals, regularly follow schedule of 1 kg feed + 50 g mineral mixture per 2 liters of milk yield. Feed animals with a mixture of green grass + hay + minerals + dry feed.</p>		

**Technical Officer, GKMS Unit, DFRS, JAU, Targhadia.**



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**Agro met Advisory Service bulletin No.-72 for the Morbi district**

(Issued jointly by DFERS, J.A.U., Targhadia (Rajkot) and India Meteorological Department)

(Period 07 to 11-December- 2019)


**Weather forecast until 08-30 hrs of 11/12/2019**


**(2) MORBI DISTRICT:**

	07/12/19	08/12/19	09/12/19	10/12/19	11/12/19
Rainfall (mm)	0	0	0	0	0
Max. Temp.(°C)	30	30	31	31	31
Min. Temp.(°C)	20	18	19	19	19
Total CC (octa)	8	4	2	2	0
RH-I (%)	36	41	48	50	50
RH-II (%)	20	20	28	30	29
Wind Speed (kmph)	12	11	9	9	8
Wind Direction(deg.)	61	68	72	62	68





**Agro meteorological Advisories:-**

<b>General Advice</b>	<p><b>Rain fall: Dry and Mainly clear to Partly cloudy weather forecasted next five days.</b></p> <ul style="list-style-type: none"> <li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 30-31°C and 18-20°C, respectively.</li> <li>• <b>Relative Humidity:</b> The RH-I and RH-II is likely to be in the range of 36-50% &amp; 20-30, respectively.</li> <li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be NE, E and 8-12 km/h, respectively.</li> <li>• <b>Due to cloudy weather, pest infestation may increase in rabi crops, so monitor the crops, if infestation is above ETL then take control measures as per advisory given.</b></li> </ul>		
<b>Crops</b>	<b>Stage</b>	<b>Insect/Pest/Variety</b>	<b>Advisory</b>
<b>Garlic</b>	Growing	-	Apply supplementary dose of nitrogen as urea @ 54 kg/ha at 30-35 days after sowing Do not over irrigate to prevent leaf blight disease. Carry out spraying of Mencozeb 75 % WP 40 gm/10 lit of water to prevent leaf blight disease in garlic crop.

<b>Chick pea</b>	Growth/branching	Monitor the crop regularly for prodenia and heliothes infestation	<p>“T” shaped bird perches in and around crop field to be installed for natural controlling of prodenia and heliothes population.</p> <p>If infestation cross ETL spray <b>Emamectin Benzoate 5 % SG 7 gm</b> in 10 litres of water.</p>
<b>Cumin</b>	Sowing/germination	Gujarat cumin-4	<p>Carry out sowing of cumin, If kharif crop is harvested.</p> <p>Seed must be treated with fungicides Captan or Thiram or Carbendazim @ 2.0 gm/ kg to prevent wilt.</p> <p>Due to cloudy and humid weather carry out spraying of Mencozeb 75 % WP 40 gm/10 lit of water to prevent blight disease in cumin crop.</p>
<b>Coriander</b>	Growing	Gujarat Coriander-1 , Gujarat Coriander-2	-
<b>Wheat</b>	Sowing/germination/ Crown root	Lok-1, GW-496	Apply 130 kg urea/ha at crown root initiation. Irrigate crop at CRI stage without stress.
<b>Cotton</b>	Picking & pulling of cotton stalk	<p>Carry out picking in time.</p> <p><b>Animals like goats, sheep among others, should be allowed to graze on unopened bolls and plant debris in the cotton fields after the last picking to prevent infestation in subsequent year. After grazing don't burn cotton stalk but do in situ chopping &amp; burying of cotton stalk in soil by mobile chopper and rotavator to improve soil biomass and health.</b></p>	
<b>Castor</b>	Flowering/ capsule formation	<p>Jassids&amp; white fly→</p> <p>Prodenia</p>	<p><b>Spray Acetamiprid 20 % SP@ 5.0 gmORimidacloprid 30.5 % 3 ml with neem seed extract 500 ml or neem oil 40 mla / 10 lit of water ml/10 lit of water.</b></p> <p>For the control of prodenia spray Chlorpyriphos 25 ml in 10 liters of water.</p>
Pigeon pea	Flowering/ pod formation	-	Apply irrigation through drip system

<b>Kharif Onion</b>	T.P./Bulb development	<b>Alternaria leaf spot/purple blotch</b>	<p><b>For the control of purple blotch blight disease in kharif onion make 3 alternate spray of Mencozeb 27 gm and thiophanate methyl 15 gm / 10 liter of water at 10 days interval.</b></p> <p><b>Apply supplementary dose of nitrogen (Urea 40 kg/ha) at 30 DAS under clear sky.</b></p>
<b>Lady finger</b>	Flowering/ fruiting	<b>Jassids &amp; white fly</b>  <b>Shoot and fruit borer</b>  <b>Mites</b>	<ul style="list-style-type: none"> <li>• <b>Monitor the crop for infestation of jassid &amp; white fly, if require spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with diafenthiuron 50 %wp @ 16 gm / 10 lit of water.</b></li> <li>• For control of <b>Shoot and fruit borer</b> Spray neem seed extract 500 ml or neem seed oil 50 ml in 10 litre of water at 15 days interval (4 spray). If pest population is high, spraying of Spinosad 48 EC @ 1 ml / 4 litres of water is advised when sky remains clear.</li> <li>• Constant monitoring of lady finger crop against attack of mite is advised. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water is advised when sky remains clear.</li> <li>• After harvesting of mature okra application of urea @ 5-10 kg/ acre should be done.</li> </ul>
<b>Cluster bean</b>	Growing/ fruiting	<b>Jassid/whitefly</b>	<ul style="list-style-type: none"> <li>• <b>Monitor the crop for infestation of jassid &amp; white fly, if require spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with diafenthiuron 50 %wp @ 16 gm / 10 lit of water.</b></li> </ul>
<b>Brinjal &amp; Tomato</b>	Flowering/ fruiting	<b>Sucking pest</b> →  <b>Shoot &amp; Fruit borer</b>  	<p><b>Monitor the crop for infestation of jassid &amp; white fly in brinjal, if require spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with diafenthiuron 50 %wp @ 16 gm / 10 lit of water.</b></p> <p><b>In brinjal and tomato constant monitoring of borers by using pheromone traps 4-6 per acre is advised, If insect population is above ETL than spraying of chlorantraniliprole 18.5 % SC 3.0 ml or DDVP/10 litre of water is advised against fruit borer.</b></p>



		<b>Mites</b>	<b>If infestation is found, then make spraying of Propargite 57 % EC @ 10 ml/ 10litre of water for the control of Mites under clear sky.</b>
<b>Chili</b>	Flowering & fruiting	<b>Thrips</b> →   <b>Anthracnose</b> → 	<b>Under present weather conditions severe attack of thrips has been reported. Spray Profenofos 20 ml with 500 ml of 5 % neem seed extract or neem seed oil 50 ml in 10 litres of water. In case of heavy attack make spray of spinosad or spinetoram 3 ml per 10 liter of water.</b>  For the control of Anthracnose spray <b>Mencozeb 27gm</b> OR Chlorothalonil 27 gram OR Fosetyl 20 gm in 10 liters of water at 15 days interval.
<b>Lemon</b>	Fruit development	<b>Psylla and thrips</b>  <b>Citrus canker</b>  <b>Leaf minor</b>  <b>Hast Bahar</b>	 To prevent damage of psylla & thrips spray <b>imidacloprid 30.5 % 5 ml / 10 lit of water ml/10 lit of water.</b> <b>Spray copper oxychloride 40 gm or streptocyclin 1.5 gm in 10 litre of water.</b> <b>Spray Dichlorvos 10 ml or Quinalphos 20 ml in 10 litres of water for control of leaf minor.</b> <b>For getting maximum fruit in summer, after last rainfall cultivate lemon orchard up to the depth of 10-15 cm for pruning of tiny small root and keep left until wilting &amp; defoliation start, after that apply FYM @ 50 kg, Urea @ 300 gm, Ammonium sulphate @ 500 gm, DAP @ 1.5 kg &amp; murate of potash 300 gm/tree.</b>
<b>Livestock &amp; poultry</b> 	Spray Deltamethrin or Amitraz 2 ml/litre of water for the control of tick and for prevention of foot & mouth disease in animals do vaccination with FMD vaccine. Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. Spray phenyl in the animal shed to avoid flies and mosquitoes. Keep animal shed hygienic and clean to avoid flies and mosquitoes. For milch animals, regularly follow schedule of 1 kg feed + 50 g mineral mixture per 2 liters of milk yield. Feed animals with a mixture of green grass + hay + minerals + dry feed.		

**Technical Officer, GKMS Unit, DFRS, JAU, Targhadia.**



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**Agro met Advisory Service bulletin No.-72 for the Jamnagar district**

(Issued jointly by DFERS, J.A.U., Targhadia (Rajkot) and India Meteorological Department)

(Period 07 to 11-December- 2019)


**Weather forecast until 08-30 hrs of 11/12/2019**


**(3) JAMNAGAR DISTRICT:**





	07/12/19	08/12/19	09/12/19	10/12/19	11/12/19
Rainfall (mm)	0	0	0	0	0
Max. Temp.(°C)	31	33	33	33	32
Min. Temp.(°C)	21	20	20	20	20
Total CC (octa)	8	2	2	1	0
RH-I (%)	50	44	47	48	49
RH-II (%)	38	28	29	32	33
Wind Speed (kmph)	16	20	17	16	11
Wind Direction(deg.)	31	37	36	40	60

**Agro meteorological Advisories:-**

<b>General Advice</b>	<p><b>Rain fall: Dry and Mainly clear weather forecasted next five days.</b></p> <ul style="list-style-type: none"> <li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 31-33°C and 20-21°C, respectively.</li> <li>• <b>Relative Humidity:</b> The RH-I and RH-II is likely to be in the range of 44-50% &amp; 28-38, respectively.</li> <li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be NE and 11-20 km/h, respectively.</li> <li>• <b>Due to cloudy weather, pest infestation may increase in rabi crops, so monitor the crops, if infestation is above ETL then take control measures as per advisory given.</b></li> </ul>		
<b>Crops</b>	<b>Stage</b>	<b>Insect/Pest/Variety</b>	<b>Advisory</b>
<b>Garlic</b>	Growing	-	Apply supplementary dose of nitrogen as urea @ 54 kg/ha at 30-35 days after sowing Do not over irrigate to prevent leaf blight disease. Carry out spraying of Mencozeb 75 % WP 40 gm/10 lit of water to prevent leaf blight disease in garlic crop.

<b>Chick pea</b>	Growth/branching	Monitor the crop regularly for prodenia and heliothes infestation	<p>“T” shaped bird perches in and around crop field to be installed for natural controlling of prodenia and heliothes population.</p> <p>If infestation cross ETL spray <b>Emamectin Benzoate 5 % SG 7 gm</b> in 10 litres of water.</p>
<b>Cumin</b>	Sowing/germination	Gujarat cumin-4	<p>Carry out sowing of cumin, If kharif crop is harvested.</p> <p>Seed must be treated with fungicides Captan or Thiram or Carbendazim @ 2.0 gm/ kg to prevent wilt.</p> <p>Due to cloudy and humid weather carry out spraying of Mencozeb 75 % WP 40 gm/10 lit of water to prevent blight disease in cumin crop.</p>
<b>Coriander</b>	Growing	Gujarat Coriander-1 , Gujarat Coriander-2	-
<b>Wheat</b>	Sowing/germination/ Crown root	Lok-1, GW-496	Apply 130 kg urea/ha at crown root initiation. Irrigate crop at CRI stage without stress.
<b>Cotton</b>	Picking & pulling of cotton stalk	<p>Carry out picking in time.</p> <p><b>Animals like goats, sheep among others, should be allowed to graze on unopened bolls and plant debris in the cotton fields after the last picking to prevent infestation in subsequent year. After grazing don't burn cotton stalk but do in situ chopping &amp; burying of cotton stalk in soil by mobile chopper and rotavator to improve soil biomass and health.</b></p>	
<b>Castor</b>	Flowering/ capsule formation	<p>Jassids&amp; white fly→</p> <p>Prodenia</p>	<p><b>Spray Acetamiprid 20 % SP@ 5.0 gmORimidacloprid 30.5 % 3 ml with neem seed extract 500 ml or neem oil 40 mla / 10 lit of water ml/10 lit of water.</b></p> <p>For the control of prodenia spray Chlorpyriphos 25 ml in 10 liters of water.</p>
Pigeon pea	Flowering/ pod formation	-	Apply irrigation through drip system

<b>Kharif Onion</b>	T.P./Bulb development	<b>Alternaria leaf spot/purple blotch</b>	<p><b>For the control of purple blotch blight disease in kharif onion make 3 alternate spray of Mencozeb 27 gm and thiophanate methyl 15 gm / 10 liter of water at 10 days interval.</b></p> <p><b>Apply supplementary dose of nitrogen (Urea 40 kg/ha) at 30 DAS under clear sky.</b></p>
<b>Lady finger</b>	Flowering/ fruiting	<b>Jassids &amp; white fly</b>  <b>Shoot and fruit borer</b>  <b>Mites</b>	<ul style="list-style-type: none"> <li>• <b>Monitor the crop for infestation of jassid &amp; white fly, if require spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with diafenthiuron 50 %wp @ 16 gm / 10 lit of water.</b></li> <li>• For control of <b>Shoot and fruit borer</b> Spray neem seed extract 500 ml or neem seed oil 50 ml in 10 litre of water at 15 days interval (4 spray). If pest population is high, spraying of Spinosad 48 EC @ 1 ml / 4 litres of water is advised when sky remains clear.</li> <li>• Constant monitoring of lady finger crop against attack of mite is advised. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water is advised when sky remains clear.</li> <li>• After harvesting of mature okra application of urea @ 5-10 kg/ acre should be done.</li> </ul>
<b>Cluster bean</b>	Growing/ fruiting	<b>Jassid/whitefly</b>	<ul style="list-style-type: none"> <li>• <b>Monitor the crop for infestation of jassid &amp; white fly, if require spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with diafenthiuron 50 %wp @ 16 gm / 10 lit of water.</b></li> </ul>
<b>Brinjal &amp; Tomato</b>	Flowering/ fruiting	<b>Sucking pest</b> →  <b>Shoot &amp; Fruit borer</b>  	<p><b>Monitor the crop for infestation of jassid &amp; white fly in brinjal, if require spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with diafenthiuron 50 %wp @ 16 gm / 10 lit of water.</b></p> <p><b>In brinjal and tomato constant monitoring of borers by using pheromone traps 4-6 per acre is advised, If insect population is above ETL than spraying of chlorantraniliprole 18.5 % SC 3.0 ml or DDVP/10 litre of water is advised against fruit borer.</b></p>

		<b>Mites</b>	<b>If infestation is found, then make spraying of Propargite 57 % EC @ 10 ml/ 10litre of water for the control of Mites under clear sky.</b>
<b>Chili</b>	Flowering & fruiting	<b>Thrips</b> →   <b>Anthracnose</b> → 	<b>Under present weather conditions severe attack of thrips has been reported. Spray Profenofos 20 ml with 500 ml of 5 % neem seed extract or neem seed oil 50 ml in 10 litres of water. In case of heavy attack make spray of spinosad or spinetoram 3 ml per 10 liter of water.</b>  For the control of Anthracnose spray <b>Mencozeb 27gm</b> OR Chlorothalonil 27 gram OR Fosetyl 20 gm in 10 liters of water at 15 days interval.
<b>Lemon</b>	Fruit development	<b>Psylla and thrips</b>  <b>Citrus canker</b>  <b>Leaf minor</b>  <b>Hast Bahar</b>	  To prevent damage of psylla & thrips spray <b>imidacloprid 30.5 % 5 ml / 10 lit of water ml/10 lit of water.</b> <b>Spray copper oxychloride 40 gm or streptocyclin 1.5 gm in 10 litre of water.</b> <b>Spray Dichlorvos 10 ml or Quinalphos 20 ml in 10 litres of water for control of leaf minor.</b> <b>For getting maximum fruit in summer, after last rainfall cultivate lemon orchard up to the depth of 10-15 cm for pruning of tiny small root and keep left until wilting &amp; defoliation start, after that apply FYM @ 50 kg, Urea @ 300 gm, Ammonium sulphate @ 500 gm, DAP @ 1.5 kg &amp; murate of potash 300 gm/tree.</b>
<b>Livestock &amp; poultry</b> 	Spray Deltamethrin or Amitraz 2 ml/litre of water for the control of tick and for prevention of foot & mouth disease in animals do vaccination with FMD vaccine. Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. Spray phenyl in the animal shed to avoid flies and mosquitoes. Keep animal shed hygienic and clean to avoid flies and mosquitoes. For milch animals, regularly follow schedule of 1 kg feed + 50 g mineral mixture per 2 liters of milk yield. Feed animals with a mixture of green grass + hay + minerals + dry feed.		

**Technical Officer, GKMS Unit, DFRS, JAU, Targhadia.**



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**Agro met Advisory Service bulletin No.-72 for the Devbhumi Dwarka district**

(Issued jointly by DFERS, J.A.U., Targhadia (Rajkot) and India Meteorological Department)

(Period 07 to 11-December- 2019)


**Weather forecast until 08-30 hrs of 11/12/2019**

**(4) DEVBHUMI DWARKA DISTRICT:**

	07/12/19	08/12/19	09/12/19	10/12/19	11/12/19
Rainfall (mm)	5	0	0	0	0
Max. Temp.(°C)	30	30	30	30	31
Min. Temp.(°C)	23	22	22	22	22
Total CC (octa)	8	1	2	1	0
RH-I (%)	52	47	50	51	51
RH-II (%)	39	27	26	29	30
Wind Speed (kmph)	15	19	16	15	11
Wind Direction(deg.)	37	42	39	45	63






**Agro meteorological Advisories:-**

<b>General Advice</b>	<p><b>Rain fall: Dry and Mainly clear weather &amp; Light rainfall during 07-December forecasted next five days.</b></p> <ul style="list-style-type: none"> <li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 30-31°C and 22-23°C, respectively.</li> <li>• <b>Relative Humidity:</b> The RH-I and RH-II is likely to be in the range of 47-52% &amp; 26-39, respectively.</li> <li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be NE and 11-19 km/h, respectively.</li> <li>• <b>Due to cloudy weather, pest infestation may increase in rabi crops, so monitor the crops, if infestation is above ETL then take control measures as per advisory given.</b></li> </ul>		
<b>Crops</b>	<b>Stage</b>	<b>Insect/Pest/Variety</b>	<b>Advisory</b>
<b>Garlic</b>	Growing	-	Apply supplementary dose of nitrogen as urea @ 54 kg/ha at 30-35 days after sowing Do not over irrigate to prevent leaf blight disease. Carry out spraying of Mencozeb 75 % WP 40 gm/10 lit of water to prevent leaf blight disease in

			garlic crop.
<b>Chick pea</b>	Growth/branching	Monitor the crop regularly for prodenia and heliothes infestation	<p>“T” shaped bird perches in and around crop field to be installed for natural controlling of prodenia and heliothes population.</p> <p>If infestation cross ETL spray <b>Emamectin Benzoate 5 % SG 7 gm</b> in 10 litres of water.</p>
<b>Cumin</b>	Sowing/germination	Gujarat cumin-4	<p>Carry out sowing of cumin, If kharif crop is harvested.</p> <p>Seed must be treated with fungicides Captan or Thiram or Carbendazim @ 2.0 gm/ kg to prevent wilt.</p> <p>Due to cloudy and humid weather carry out spraying of Mencozeb 75 % WP 40 gm/10 lit of water to prevent blight disease in cumin crop.</p>
<b>Coriander</b>	Growing	Gujarat Coriander-1 , Gujarat Coriander-2	-
<b>Wheat</b>	Sowing/germination/ Crown root	Lok-1, GW-496	Apply 130 kg urea/ha at crown root initiation. Irrigate crop at CRI stage without stress.
<b>Cotton</b>	Picking & pulling of cotton stalk	<p>Carry out picking in time.</p> <p><b>Animals like goats, sheep among others, should be allowed to graze on unopened bolls and plant debris in the cotton fields after the last picking to prevent infestation in subsequent year. After grazing don't burn cotton stalk but do in situ chopping &amp; burying of cotton stalk in soil by mobile chopper and rotavator to improve soil biomass and health.</b></p>	
<b>Castor</b>	Flowering/ capsule formation	<p>Jassids&amp; white fly→</p> <p>Prodenia</p>	<p><b>Spray Acetamiprid 20 % SP@ 5.0 gmORimidacloprid 30.5 % 3 ml with neem seed extract 500 ml or neem oil 40 mla / 10 lit of water ml/10 lit of water.</b></p> <p>For the control of prodenia spray Chlorpyriphos 25 ml in 10 liters of water.</p>
Pigeon pea	Flowering/	-	Apply irrigation through drip system

	pod formation		
<b>Kharif Onion</b>	T.P./Bulb development	<b>Alternaria leaf spot/purple blotch</b>	<p><b>For the control of purple blotch blight disease in kharif onion make 3 alternate spray of Mencozeb 27 gm and thiophanate methyl 15 gm / 10 liter of water at 10 days interval.</b></p> <p><b>Apply supplementary dose of nitrogen (Urea 40 kg/ha) at 30 DAS under clear sky.</b></p>
<b>Lady finger</b>	Flowering/ fruiting	<b>Jassids &amp; white fly</b>  <b>Shoot and fruit borer</b>  <b>Mites</b>	<ul style="list-style-type: none"> <li>• <b>Monitor the crop for infestation of jassid &amp; white fly, if require spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with diafenthiuron 50 %wp @ 16 gm / 10 lit of water.</b></li> <li>• For control of <b>Shoot and fruit borer</b> Spray neem seed extract 500 ml or neem seed oil 50 ml in 10 litre of water at 15 days interval (4 spray). If pest population is high, spraying of Spinosad 48 EC @ 1 ml / 4 litres of water is advised when sky remains clear.</li> <li>• Constant monitoring of lady finger crop against attack of mite is advised. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water is advised when sky remains clear.</li> <li>• After harvesting of mature okra application of urea @ 5-10 kg/ acre should be done.</li> </ul>
<b>Cluster bean</b>	Growing/ fruiting	<b>Jassid/whitefly</b>	<ul style="list-style-type: none"> <li>• <b>Monitor the crop for infestation of jassid &amp; white fly, if require spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with diafenthiuron 50 %wp @ 16 gm / 10 lit of water.</b></li> </ul>
<b>Brinjal &amp; Tomato</b>	Flowering/ fruiting	<b>Sucking pest</b> →  <b>Shoot &amp; Fruit borer</b>	<p><b>Monitor the crop for infestation of jassid &amp; white fly in brinjal, if require spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with diafenthiuron 50 %wp @ 16 gm / 10 lit of water.</b></p> <p><b>In brinjal and tomato constant monitoring of borers by using pheromone traps 4-6 per acre is advised, If insect population is above ETL than spraying of chlorantraniliprole 18.5 % SC 3.0 ml or DDVP/10 litre of water is advised against fruit borer.</b></p>



		 <p>Mites</p>	<p>If infestation is found, then make spraying of Propargite 57 % EC @ 10 ml/ 10litre of water for the control of Mites under clear sky.</p>
<b>Chili</b>	Flowering & fruiting	<p><b>Thrips</b> →</p>  <p><b>Anthracnose</b> →</p> 	<p>Under present weather conditions severe attack of thrips has been reported. Spray Profenofos 20 ml with 500 ml of 5 % neem seed extract or neem seed oil 50 ml in 10 litres of water. In case of heavy attack make spray of spinosad or spinetoram 3 ml per 10 liter of water.</p> <p>For the control of Anthracnose spray <b>Mencozeb 27gm</b> OR Chlorothalonil 27 gram OR Fosetyl 20 gm in 10 liters of water at 15 days interval.</p>
<b>Lemon</b>	Fruit development	<p><b>Psylla and thrips</b></p>  <p><b>Citrus canker</b></p> <p><b>Leaf minor</b></p> <p><b>Hast Bahar</b></p>	<p>To prevent damage of psylla &amp; thrips spray <b>imidacloprid 30.5 % 5 ml</b> / 10 lit of water ml/10 lit of water.</p> <p><b>Spray copper oxychloride 40 gm or streptocyclin 1.5 gm in 10 litre of water.</b></p> <p><b>Spray Dichlorvos 10 ml or Quinalphos 20 ml in 10 litres of water for control of leaf minor.</b></p> <p>For getting maximum fruit in summer, after last rainfall cultivate lemon orchard up to the depth of 10-15 cm for pruning of tiny small root and keep left until wilting &amp; defoliation start, after that apply FYM @ 50 kg, Urea @ 300 gm, Ammonium sulphate @ 500 gm, DAP @ 1.5 kg &amp; murate of potash 300 gm/tree.</p>
<b>Livestock &amp; poultry</b>	 <p>Spray Deltamethrin or Amitraz 2 ml/litre of water for the control of tick and for prevention of foot &amp; mouth disease in animals do vaccination with FMD vaccine. Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. Spray phenyl in the animal shed to avoid flies and mosquitoes. Keep animal shed hygienic and clean to avoid flies and mosquitoes. For milch animals, regularly follow schedule of 1 kg feed + 50 g mineral mixture per 2 liters of milk yield. Feed animals with a mixture of green grass + hay + minerals + dry feed.</p>		

**Technical Officer, GKMS Unit, DFRS, JAU, Targhadia.**



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**Agro met Advisory Service bulletin No.-72 for the Amreli district**

(Issued jointly by DFRS, J.A.U., Targhadia (Rajkot) and India Meteorological Department)

(Period 07 to 11-December- 2019)


**Weather forecast until 08-30 hrs of 11/12/2019**


**(5) AMRELI DISTRICT:**





	07/12/19	08/12/19	09/12/19	10/12/19	11/12/19
Rainfall (mm)	0	0	0	0	0
Max.Temp.(°C)	31	31	32	32	32
Min.Temp.(°C)	19	17	18	18	18
Total CC (octa)	8	4	3	3	0
RH-I (%)	51	34	44	50	49
RH-II (%)	31	23	29	33	31
Wind Speed (kmph)	13	16	14	14	10
Wind Direction(deg.)	17	23	26	26	28

**Agro meteorological Advisories:**

<b>General Advice</b>	<p><b>Rain fall: Dry and Partly cloudy to cloudy weather forecasted next five days.</b></p> <ul style="list-style-type: none"> <li><b>Temperature:</b> Maximum and minimum temperature likely to be in range of 31-32°C and 17-19°C, respectively.</li> <li><b>Relative Humidity:</b> The RH-I and RH-II is likely to be in the range of 34-51% &amp; 23-33, respectively.</li> <li><b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be N, NE and 10-16 km/h, respectively.</li> <li><b>Due to cloudy weather, pest infestation may increase in rabi crops, so monitor the crops, if infestation is above ETL then take control measures as per advisory given.</b></li> </ul>		
<b>Crops</b>	<b>Stage</b>	<b>Insect/Pest/Variety</b>	<b>Advisory</b>
<b>Garlic</b>	Growing	-	Apply supplementary dose of nitrogen as urea @ 54 kg/ha at 30-35 days after sowing Do not over irrigate to prevent leaf blight disease. Carry out spraying of Mencozeb 75 % WP 40 gm/10 lit of water to prevent leaf blight disease in garlic crop.

<b>Chick pea</b>	Growth/branching	Monitor the crop regularly for prodenia and heliothes infestation	<p>“T” shaped bird perches in and around crop field to be installed for natural controlling of prodenia and heliothes population.</p> <p>If infestation cross ETL spray <b>Emamectin Benzoate 5 % SG 7 gm</b> in 10 litres of water.</p>
<b>Cumin</b>	Sowing/germination	Gujarat cumin-4	<p>Carry out sowing of cumin, If kharif crop is harvested.</p> <p>Seed must be treated with fungicides Captan or Thiram or Carbendazim @ 2.0 gm/ kg to prevent wilt.</p> <p>Due to cloudy and humid weather carry out spraying of Mencozeb 75 % WP 40 gm/10 lit of water to prevent blight disease in cumin crop.</p>
<b>Coriander</b>	Growing	Gujarat Coriander-1 , Gujarat Coriander-2	-
<b>Wheat</b>	Sowing/germination/ Crown root	Lok-1, GW-496	Apply 130 kg urea/ha at crown root initiation. Irrigate crop at CRI stage without stress.
<b>Cotton</b>	Picking & pulling of cotton stalk	<p>Carry out picking in time.</p> <p><b>Animals like goats, sheep among others, should be allowed to graze on unopened bolls and plant debris in the cotton fields after the last picking to prevent infestation in subsequent year. After grazing don't burn cotton stalk but do in situ chopping &amp; burying of cotton stalk in soil by mobile chopper and rotavator to improve soil biomass and health.</b></p>	
			
<b>Castor</b>	Flowering/ capsule formation	Jassids& white fly→  Prodenia	<p><b>Spray Acetamiprid 20 % SP@ 5.0 gmORimidacloprid 30.5 % 3 ml with neem seed extract 500 ml or neem oil 40 mla / 10 lit of water ml/10 lit of water.</b></p> <p>For the control of prodenia spray Chlorpyriphos 25 ml in 10 liters of water.</p>
Pigeon pea	Flowering/ pod formation	-	Apply irrigation through drip system

<b>Kharif Onion</b>	T.P./Bulb development	<b>Alternaria leaf spot/purple blotch</b>	<p><b>For the control of purple blotch blight disease in kharif onion make 3 alternate spray of Mencozeb 27 gm and thiophanate methyl 15 gm / 10 liter of water at 10 days interval.</b></p> <p><b>Apply supplementary dose of nitrogen (Urea 40 kg/ha) at 30 DAS under clear sky.</b></p>
<b>Lady finger</b>	Flowering/ fruiting	<b>Jassids &amp; white fly</b>  <b>Shoot and fruit borer</b>  <b>Mites</b>	<ul style="list-style-type: none"> <li>• <b>Monitor the crop for infestation of jassid &amp; white fly, if require spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with diafenthiuron 50 %wp @ 16 gm / 10 lit of water.</b></li> <li>• For control of <b>Shoot and fruit borer</b> Spray neem seed extract 500 ml or neem seed oil 50 ml in 10 litre of water at 15 days interval (4 spray). If pest population is high, spraying of Spinosad 48 EC @ 1 ml / 4 litres of water is advised when sky remains clear.</li> <li>• Constant monitoring of lady finger crop against attack of mite is advised. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water is advised when sky remains clear.</li> <li>• After harvesting of mature okra application of urea @ 5-10 kg/ acre should be done.</li> </ul>
<b>Cluster bean</b>	Growing/ fruiting	<b>Jassid/whitefly</b>	<ul style="list-style-type: none"> <li>• <b>Monitor the crop for infestation of jassid &amp; white fly, if require spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with diafenthiuron 50 %wp @ 16 gm / 10 lit of water.</b></li> </ul>
<b>Brinjal &amp; Tomato</b>	Flowering/ fruiting	<b>Sucking pest</b> →  <b>Shoot &amp; Fruit borer</b>  	<p><b>Monitor the crop for infestation of jassid &amp; white fly in brinjal, if require spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with diafenthiuron 50 %wp @ 16 gm / 10 lit of water.</b></p> <p><b>In brinjal and tomato constant monitoring of borers by using pheromone traps 4-6 per acre is advised, If insect population is above ETL than spraying of chlorantraniliprole 18.5 % SC 3.0 ml or DDVP/10 litre of water is advised against fruit borer.</b></p>

		<b>Mites</b>	<b>If infestation is found, then make spraying of Propargite 57 % EC @ 10 ml/ 10litre of water for the control of Mites under clear sky.</b>
<b>Chili</b>	Flowering & fruiting	<b>Thrips</b> →   <b>Anthracnose</b> → 	<b>Under present weather conditions severe attack of thrips has been reported. Spray Profenofos 20 ml with 500 ml of 5 % neem seed extract or neem seed oil 50 ml in 10 litres of water. In case of heavy attack make spray of spinosad or spinetoram 3 ml per 10 liter of water.</b>  For the control of Anthracnose spray <b>Mencozeb 27gm</b> OR Chlorothalonil 27 gram OR Fosetyl 20 gm in 10 liters of water at 15 days interval.
<b>Lemon</b>	Fruit development	<b>Psylla and thrips</b>  <b>Citrus canker</b>  <b>Leaf minor</b>  <b>Hast Bahar</b>	  To prevent damage of psylla & thrips spray <b>imidacloprid 30.5 % 5 ml / 10 lit of water ml/10 lit of water.</b> <b>Spray copper oxychloride 40 gm or streptocyclin 1.5 gm in 10 litre of water.</b> <b>Spray Dichlorvos 10 ml or Quinalphos 20 ml in 10 litres of water for control of leaf minor.</b> <b>For getting maximum fruit in summer, after last rainfall cultivate lemon orchard up to the depth of 10-15 cm for pruning of tiny small root and keep left until wilting &amp; defoliation start, after that apply FYM @ 50 kg, Urea @ 300 gm, Ammonium sulphate @ 500 gm, DAP @ 1.5 kg &amp; murate of potash 300 gm/tree.</b>
<b>Livestock &amp; poultry</b> 	Spray Deltamethrin or Amitraz 2 ml/litre of water for the control of tick and for prevention of foot & mouth disease in animals do vaccination with FMD vaccine. Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. Spray phenyl in the animal shed to avoid flies and mosquitoes. Keep animal shed hygienic and clean to avoid flies and mosquitoes. For milch animals, regularly follow schedule of 1 kg feed + 50 g mineral mixture per 2 liters of milk yield. Feed animals with a mixture of green grass + hay + minerals + dry feed.		

**Technical Officer, GKMS Unit, DFRS, JAU, Targhadia.**



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**Agro met Advisory Service bulletin No.-72 for the Surendranagar district**

(Issued jointly by DFRS, J.A.U., Targhadia (Rajkot) and India Meteorological Department)

(Period 07 to 11-December- 2019)


**Weather forecast until 08-30 hrs of 11/12/2019**


**(6) SURENDRANAGAR DISTRICT:**

	07/12/19	08/12/19	09/12/19	10/12/19	11/12/19
Rainfall (mm)	0	0	0	0	0
Max.Temp.(°C)	30	30	31	31	31
Min.Temp.(°C)	20	18	19	19	19
Total CC (octa)	8	2	2	1	0
RH-I (%)	36	35	40	44	43
RH-II (%)	26	19	24	28	27
Wind Speed (kmph)	13	13	12	11	10
Wind Direction(deg.)	58	45	40	43	51





**Agro meteorological advisories:**

<b>General Advice</b>	<p><b>Rain fall: Dry and Mainly clear weather forecasted next five days.</b></p> <ul style="list-style-type: none"> <li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 30-31°C and 18-20°C, respectively.</li> <li>• <b>Relative Humidity:</b> The RH-I and RH-II is likely to be in the range of 35-44% &amp; 19-28, respectively.</li> <li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be NE and 10-13 km/h, respectively.</li> <li>• <b>Due to cloudy weather, pest infestation may increase in rabi crops, so monitor the crops, if infestation is above ETL then take control measures as per advisory given.</b></li> </ul>		
<b>Crops</b>	<b>Stage</b>	<b>Insect/Pest/Variety</b>	<b>Advisory</b>
<b>Garlic</b>	Growing	-	Apply supplementary dose of nitrogen as urea @ 54 kg/ha at 30-35 days after sowing Do not over irrigate to prevent leaf blight disease. Carry out spraying of Mencozeb 75 % WP 40 gm/10 lit of water to prevent leaf blight disease in garlic crop.

<b>Chick pea</b>	Growth/branching	Monitor the crop regularly for prodenia and heliothes infestation	<p>“T” shaped bird perches in and around crop field to be installed for natural controlling of prodenia and heliothes population.</p> <p>If infestation cross ETL spray <b>Emamectin Benzoate 5 % SG 7 gm</b> in 10 litres of water.</p>
<b>Cumin</b>	Sowing/germination	Gujarat cumin-4	<p>Carry out sowing of cumin, If kharif crop is harvested.</p> <p>Seed must be treated with fungicides Captan or Thiram or Carbendazim @ 2.0 gm/ kg to prevent wilt.</p> <p>Due to cloudy and humid weather carry out spraying of Mencozeb 75 % WP 40 gm/10 lit of water to prevent blight disease in cumin crop.</p>
<b>Coriander</b>	Growing	Gujarat Coriander-1 , Gujarat Coriander-2	-
<b>Wheat</b>	Sowing/germination/ Crown root	Lok-1, GW-496	Apply 130 kg urea/ha at crown root initiation. Irrigate crop at CRI stage without stress.
<b>Cotton</b>	Picking & pulling of cotton stalk	<p>Carry out picking in time.</p> <p><b>Animals like goats, sheep among others, should be allowed to graze on unopened bolls and plant debris in the cotton fields after the last picking to prevent infestation in subsequent year. After grazing don't burn cotton stalk but do in situ chopping &amp; burying of cotton stalk in soil by mobile chopper and rotavator to improve soil biomass and health.</b></p>	
<b>Castor</b>	Flowering/ capsule formation	<p>Jassids&amp; white fly→</p> <p>Prodenia</p>	<p><b>Spray Acetamiprid 20 % SP@ 5.0 gmORimidacloprid 30.5 % 3 ml with neem seed extract 500 ml or neem oil 40 mla / 10 lit of water ml/10 lit of water.</b></p> <p>For the control of prodenia spray Chlorpyrifos 25 ml in 10 liters of water.</p>
Pigeon pea	Flowering/ pod formation	-	Apply irrigation through drip system

<b>Kharif Onion</b>	T.P./Bulb development	<b>Alternaria leaf spot/purple blotch</b>	<p><b>For the control of purple blotch blight disease in kharif onion make 3 alternate spray of Mencozeb 27 gm and thiophanate methyl 15 gm / 10 liter of water at 10 days interval.</b></p> <p><b>Apply supplementary dose of nitrogen (Urea 40 kg/ha) at 30 DAS under clear sky.</b></p>
<b>Lady finger</b>	Flowering/ fruiting	<b>Jassids &amp; white fly</b>  <b>Shoot and fruit borer</b>  <b>Mites</b>	<ul style="list-style-type: none"> <li>• <b>Monitor the crop for infestation of jassid &amp; white fly, if require spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with diafenthiuron 50 %wp @ 16 gm / 10 lit of water.</b></li> <li>• For control of <b>Shoot and fruit borer</b> Spray neem seed extract 500 ml or neem seed oil 50 ml in 10 litre of water at 15 days interval (4 spray). If pest population is high, spraying of Spinosad 48 EC @ 1 ml / 4 litres of water is advised when sky remains clear.</li> <li>• Constant monitoring of lady finger crop against attack of mite is advised. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water is advised when sky remains clear.</li> <li>• After harvesting of mature okra application of urea @ 5-10 kg/ acre should be done.</li> </ul>
<b>Cluster bean</b>	Growing/ fruiting	<b>Jassid/whitefly</b>	<ul style="list-style-type: none"> <li>• <b>Monitor the crop for infestation of jassid &amp; white fly, if require spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with diafenthiuron 50 %wp @ 16 gm / 10 lit of water.</b></li> </ul>
<b>Brinjal &amp; Tomato</b>	Flowering/ fruiting	<b>Sucking pest</b> →  <b>Shoot &amp; Fruit borer</b>  	<p><b>Monitor the crop for infestation of jassid &amp; white fly in brinjal, if require spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with diafenthiuron 50 %wp @ 16 gm / 10 lit of water.</b></p> <p><b>In brinjal and tomato constant monitoring of borers by using pheromone traps 4-6 per acre is advised, If insect population is above ETL than spraying of chlorantraniliprole 18.5 % SC 3.0 ml or DDVP/10 litre of water is advised against fruit borer.</b></p>



		<b>Mites</b>	<b>If infestation is found, then make spraying of Propargite 57 % EC @ 10 ml/ 10litre of water for the control of Mites under clear sky.</b>
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