



ગ્રામીણ કૃષિ મૌસમ સેવા

હવામાન આગાહી આધારીત કૃષિસલાહ બુલેટીન
ઉત્તર સૌરાષ્ટ્ર ખેત આબોહવાકીય વિભાગ
તા.૧૪-૧૨-૨૦૧૯ થી તા.૧૮-૧૨-૨૦૧૯



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

કૃષિ હવામાન બુલેટીન નં. ૭૪/૨૦૧૯

પાછલા અઠવાડિયાનું રાજકોટનું હવામાન

હવામાન પરિબલો	
વરસાદ(મી.મી)	0.0
મહત્તમ તાપમાન (સે.ગ્રે)	28.5-30.0
લઘુત્તમ તાપમાન (સે.ગ્રે)	11.8-16.5
ભેજ(%) સવાર	61-88
ભેજ(%) બપોરબાદ	33-43
પવનની ગતિ (કિમી/કલાક)	2.0-3.9

હવામાન આગાહી: પત્રક-ક

ઉત્તરસૌરાષ્ટ્ર ખેત આબોહવાકીય વિભાગ-હવામાન આગાહી

તા.૧૪-૧૨-૨૦૧૯ થી ૧૮-૧૨-૨૦૧૯

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</p> <p>રાજકોટ: જીલ્લામાં આગામી તા.૧૪-૧૨-૨૦૧૯ થી તા.૧૮-૧૨-૨૦૧૯ દરમિયાન હવામાન સૂકું અને મોટાભાગે યોખ્ખું રહેશે. પવનની દિશા ઈશાનની રહેવાની અને પવનની ઝડપ ૧૧ થી ૨૨ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમિયાન ૨૯-૨૯ ડીગ્રી સેલ્શિયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમિયાન ૧૫-૧૭ ડીગ્રી સેલ્શિયસ જેટલું રહેવાની સંભાવના છે.</p>					
તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫	
પેરામીટર	૧૪-૧૨-૧૯	૧૫-૧૨-૧૯	૧૬-૧૨-૧૯	૧૭-૧૨-૧૯	૧૮-૧૨-૧૯	
વરસાદ(મી.મી)	0	0	0	0	0	
મહત્તમતાપમાન (સે.ગ્રે)	29	29	29	29	29	
લઘુત્તમતાપમાન (સે.ગ્રે)	17	16	16	16	15	
વાદળનીસ્થિતિ(ઓકટા)	2	0	0	0	0	
મહત્તમભેજ(%) સવાર	68	46	46	47	43	
લઘુત્તમભેજ (%) બપોરબાદ	34	22	20	27	26	

પવનનીગતિ(કિમી/કલાક)	11	16	16	22	18
પવનનીદિશા(ડીગ્રી)	53	35	44	45	51

મોરબી : જીલ્લામાં આગામી તા.૧૪-૧૨-૨૦૧૯ થી તા.૧૮-૧૨-૨૦૧૯ દરમ્યાન હવામાન સુકું અને મોટાભાગે ચોખ્ખું રહેશે. પવનની દિશા ઈશાનની રહેવાની અને પવનની ઝડપ ૮ થી ૧૭ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૨૯-૨૯ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન ૧૫-૧૭ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૧૪-૧૨-૧૯	૧૫-૧૨-૧૯	૧૬-૧૨-૧૯	૧૭-૧૨-૧૯	૧૮-૧૨-૧૯
વરસાદ(મી.મી)	0	0	0	0	0
મહત્તમતાપમાન (સે.ગ્રે)	29	29	29	29	29
લઘુત્તમતાપમાન (સે.ગ્રે)	17	16	16	16	15
વાદળનીસ્થિતિ(ઓકટા)	3	0	0	0	0
મહત્તમભેજ(%) સવાર	73	55	55	50	46
લઘુત્તમભેજ (%) બપોરબાદ	38	26	33	41	32
પવનનીગતિ(કિમી/કલાક)	8	12	15	17	14
પવનનીદિશા(ડીગ્રી)	45	41	46	51	55

જામનગર: જીલ્લામાં આગામી તા.૧૪-૧૨-૨૦૧૯ થી તા.૧૮-૧૨-૨૦૧૯ દરમ્યાન હવામાન સુકું અને મોટાભાગે ચોખ્ખું રહેશે. પવનની દિશા ઈશાનની રહેવાની અને પવનની ઝડપ ૧૨ થી ૩૦ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૩૦-૩૧ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન ૧૮-૧૯ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૧૪-૧૨-૧૯	૧૫-૧૨-૧૯	૧૬-૧૨-૧૯	૧૭-૧૨-૧૯	૧૮-૧૨-૧૯
વરસાદ(મી.મી)	0	0	0	0	0
મહત્તમતાપમાન (સે.ગ્રે)	30	31	30	30	30
લઘુત્તમતાપમાન (સે.ગ્રે)	19	19	19	19	18
વાદળનીસ્થિતિ(ઓકટા)	2	0	0	0	0
મહત્તમભેજ(%) સવાર	67	51	50	51	49
લઘુત્તમભેજ (%) બપોરબાદ	42	31	30	35	34
પવનનીગતિ(કિમી/કલાક)	12	21	23	30	24
પવનનીદિશા(ડીગ્રી)	62	48	42	47	52

દેવભૂમિ દ્વારકા: જીલ્લામાં આગામી તા.૧૪-૧૨-૨૦૧૯ થી તા.૧૮-૧૨-૨૦૧૯ દરમ્યાન હવામાન સુકું અને મોટાભાગે ચોખ્ખું રહેશે. પવનની દિશા પૂર્વ અને ઈશાનની રહેવાની અને પવનની ઝડપ ૧૧ થી ૨૯ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૨૮-૨૮ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન ૧૯-૨૦ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.


તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૧૪-૧૨-૧૯	૧૫-૧૨-૧૯	૧૬-૧૨-૧૯	૧૭-૧૨-૧૯	૧૮-૧૨-૧૯
વરસાદ(મી.મી)	0	0	0	0	0
મહત્તમતાપમાન (સે.ગ્રે)	28	28	28	28	28
લઘુત્તમતાપમાન (સે.ગ્રે)	19	20	20	20	19
વાદળનીસ્થિતિ(ઓકટા)	1	0	0	0	0
મહત્તમભેજ(%) સવાર	68	51	51	52	49
લઘુત્તમભેજ (%) બપોરબાદ	44	32	30	35	32
પવનનીગતિ(કિમી/કલાક)	11	20	22	29	24
પવનનીદિશા(ડીગ્રી)	72	52	45	48	54


અમરેલી: જીલ્લામાં આગામી તા.૧૪-૧૨-૨૦૧૯ થી તા.૧૮-૧૨-૨૦૧૯ દરમિયાન હવામાન સુકું અને મોટાભાગે ચોખ્ખું રહેશે. પવનની દિશા ઈશાન અને ઉતરની રહેવાની અને પવનની ઝડપ ૧૫ થી ૨૫ કીમી/કલાક રહેની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમિયાન ૨૯-૨૯ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમિયાન ૧૬-૧૭ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.





તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૧૪-૧૨-૧૯	૧૫-૧૨-૧૯	૧૬-૧૨-૧૯	૧૭-૧૨-૧૯	૧૮-૧૨-૧૯
વરસાદ(મી.મી)	0	0	0	0	0
મહત્તમતાપમાન (સે.ગ્રે)	29	29	29	29	29
લઘુત્તમતાપમાન (સે.ગ્રે)	17	16	17	17	17
વાદળનીસ્થિતિ(ઓકટા)	4	0	0	0	0
મહત્તમભેજ(%) સવાર	74	47	47	51	49
લઘુત્તમભેજ(%) બપોરબાદ	39	28	27	36	35
પવનનીગતિ(કિમી/કલાક)	15	19	21	25	21
પવનનીદિશા(ડીગ્રી)	32	21	24	36	36


સુરેન્દ્રનગર: જીલ્લામાં આગામી તા.૧૪-૧૨-૨૦૧૯ થી તા.૧૮-૧૨-૨૦૧૯ દરમિયાન હવામાન સુકું અને મોટાભાગે ચોખ્ખું રહેશે. પવનની દિશા ઈશાનની રહેવાની અને પવનની ઝડપ ૧૩ થી ૨૦ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમિયાન ૨૯-૨૯ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમિયાન ૧૫-૧૭ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૧૪-૧૨-૧૯	૧૫-૧૨-૧૯	૧૬-૧૨-૧૯	૧૭-૧૨-૧૯	૧૮-૧૨-૧૯
વરસાદ(મી.મી)	0	0	0	0	0
મહત્તમતાપમાન (સે.ગ્રે)	29	29	29	29	29
લઘુત્તમતાપમાન (સે.ગ્રે)	17	16	16	16	15
વાદળનીસ્થિતિ(ઓકટા)	2	0	0	0	1

	મહત્તમભેજ(%) સવાર	63	47	49	49	44
	લઘુત્તમભેજ(%) બપોરબાદ	36	24	25	30	28
	પવનનીગતિ(કિમી/કલાક)	13	16	16	20	16
	પવનનીદિશા(ડીગ્રી)	44	29	45	42	50
	<p>➤ ૧૪ થી ૧૮-ડિસેમ્બર ૨૦૧૯ હવામાન સુકું અને મોટાભાગે ચોખ્ખું રહશે. પવનની દિશા ઈશાનની મોટાભાગે રહેવાની અને પવનની ઝડપ ૮ થી ૩૦ કીમી/કલાક રહેવાની શક્યતા છે. આ સમયગાળામાં મહત્તમ તાપમાન દિવસ દરમિયાન ૨૮-૩૧ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમિયાન ૧૫-૨૦ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.</p> <ul style="list-style-type: none"> 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. જે વિસ્તારમાં માવઠું થયેલ છે ત્યાં લસણ, ડુંગરી, જીરું, ઘાણા, ચણા, મરચી જેવા પાકોમાં ફૂગજન્ય રોગનો ઉપદ્રવ થાય નહિ તે માટે મેન્કોઝેબ દવા ૨૭ ગ્રામ ૧૦ લીટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો. 					
મુખ્ય પાક	પાક અવસ્થા	રોગ/જીવાત/જાત	કૃષિ સલાહ (૧૦ લીટરપાણીમાં મિશ્ર કરી ભલામણ કરેલ દવા છાંટવી)			
લસણ	વૃદ્ધિ	શ્રીપ્સ, પાનની ટોચનો સુકારો 	<p>➤ શ્રીપ્સના નિયંત્રણ માટે લીબોળીનું તેલ ૫૦મિલિ અથવા લીબોળીના મીંજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી અને પ્રોફેનોફોસ ૩૦ મિલી અથવા લેમ્બડા સાયહેલોથ્રીન ૧૫ મિલી દવાને ૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો. હાલ ભેજવાળા વાદળ છાયા હવામાનને કારણે પાન પીળા પડતા અટકાવવા મેન્કોઝેબ ૨૭ ગ્રામ અથવા હેક્ઝાકોનાઝોલ ૧૫ મિલી પ્રતિ ૧૦ લીટર પાણીમાં નાખીને છંટકાવ કરવો.</p> <p>જમીનની પ્રત મુજબ ૧૦-૧૨ દિવસે પિયત આપવું.</p> <p>યુરિઆ ખાતર ૫૪ કી.ગ્રા. પ્રતિ હેક્ટર વાવેતર બાદ ૩૦-૩૫ દિવસે આપવું.</p>			
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.			
ઘાણા	વૃદ્ધિ	ગુજરાત ઘાણા-૨				
જીરું	વાવેતર/ઊગાવો	શ્રીપ્સ અને મોલો	<p>જીરુમાં શ્રીપ્સ અને મોલોના નિયંત્રણ માટે લીબોળીનું તેલ ૫૦મિલિ અથવા લીબોળીના મીંજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી અને થાયોમીથોક્ઝામ ૫ ગ્રામ ૧૦ લીટર પાણીમાં કરીને છંટકાવ કરવો.</p> <p>હાલ ભેજવાળા વાદળ છાયા હવામાનને કારણે જીરુમાં</p>			

			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.ડબલ્યુ-૪૯૬	મુકુટ/તંતુ મૂળ અવસ્થાએ ૧૩૦ કી.ગ્રા. યુરિયા 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/કુલ/ગડ	લીલી પોપટી, સફેદ માખી ગડની ઇયળ	<ul style="list-style-type: none"> ➤ સફેદ માખી અને લીલી પોપટીનો વધુ ઉપદ્રવ જોવા મળે છે. જેના નિયંત્રણ માટે એસીટામાપ્રીડ ૨૦ ટકા ૫ ગ્રામ અને ઈમીડાકલોપ્રીડ 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. ➤ ગડની ઇયળના નિયંત્રણ માટે ક્લોરાનટ્રાનીલીપ્રોલ ૧૮.૫ એસ.સી (રીનાક્ષીપાયર) દવા ૩ મિલી અથવા ડીડીવીપી ૭૬ ઈસી ૭ મિલી ૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો.
ડુંગળી	દડાનો વિકાસ	થ્રીપ્સ, પાનનો સુકારો	<ul style="list-style-type: none"> ➤ થ્રીપ્સના નિયંત્રણ માટે લીંબોળીનું તેલ ૫૦મિલિ અથવા લીંબોળીના મીંજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી અને પ્રોફેનોફોસ ૩૦ મિલી અથવા લેમ્બડા સાયહેલોથ્રીન ૧૫ મિલી દવાને ૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો. ➤ ડુંગળીના પાકમાં પાનનાં સુકારાના નિયંત્રણ માટે મેન્કોઝેબ ૪૦ ગ્રામ અથવા હેક્ઝાકોનાઝોલ ૨૦ મિલી ૧ પમ્પમાં નાખીને ૧૦

			<p>દિવસના અંતરે ૩ છંટકાવ કરવા.</p> <p>➤ નાઈટ્રોજન યુક્ત એમોનિયમ સલ્ફેટ ખાતરનો પુરતી ડોઝ ૩૦ કીલો ગ્રામ પ્રતિ હે. આપવો.</p>
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 સ્પીનોસાદ ૩ મિલી/૧૦ લીટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો.
રીંગણી અને ટમેટી	ફુલ/ફળ	તડતડીયા અને સફેદ માખી ડુંખ અને → ફળ કોરી ખાનાર ઈયળ પાન કથીરી	<p>➤ તડતડીયા અને સફેદ માખીના નિયંત્રણ માટે લીંબોળીનું તેલ ૫૦ મિલી અથવા લીંબોળીના મીંજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી અને ડાયકેન્થાયુરોન ૫૦ ટકા વે.પા. ૧૬ ગ્રામ અથવા ટ્રાયએફોસ ૪૦ ઈસી ૨૫ મિ.લી. દવાને ૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો.</p> <p>➤ 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.</p> <p>➤ જો પાનકથીરીનો ઉપદ્રવ હોય તો પ્રોપરગાઈટ ૫૭ ઈ.સી. ૧૫ મિલી પ્રતિ પંપ છંટકાવ કરવો.</p>
મરચી	વૃદ્ધિ/ફુલ/ફળ	થ્રીપ્સ, સફેદ માખી  કાલવણ → 	<p>➤ 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 સ્પીનોસાદ અથવા સ્પીનેટોરમ દવા ૫ મિલી. પ્રતિ પંપ છાંટવી.</p> <p>➤ કાલવણ રોગના નિયંત્રણ માટે મેન્કોઝેબ ૨૭ ગ્રામ અથવા ક્લોરોથેલોનીલ ૨૭ ગ્રામ અથવા ફોઝેટાઈલ ૨૦ ગ્રામના ૧૫ દિવસના અંતરે ત્રણ છંટકાવ કરવા.</p>
લીંબુ	ફળનો વિકાસ	પાન કથીરી  	<p>લીંબુના બગીચામાં પાન કથીરીનો ઉપદ્રવ વધુ હોય તો તેના નિયંત્રણ માટે પ્રોપરગાઈટ દવા ૧૦ મિલી ૧૦ લીટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો.</p> <p>તેના નિયંત્રણ માટે ઈમીડાક્લોપ્રીડ ૩૦.૫ ટકા ૫ મીલી અને લીંબોળીનું તેલ ૫૦ મીલી અથવા લીંબોળીના મીંજનું ૫ ટકા અર્કનું</p>

		સાયલા અને થ્રીપ્સ	દ્રાવણ ૫૦૦ મીલી/૧૦ લિટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો. વધુ ઉપદ્રવ હોય તો દ્રાવણોફોસ ૪૦ ટકા ૨૦/૧૦ લિટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો.
		બદામી ટપકાં	બદામી ટપકાના નિયંત્રણ માટે કોપર ઓક્સીક્લોરાઈડ ૪૦ ગ્રામ અને ૧.૫ ગ્રામ સ્ટ્રેપ્ટોસાયક્લીનના બે છંટકાવ ૧૫ દિવસના ગળે કરવા.
		પાનકોરીયુ	પાનકોરીયુના નિયંત્રણ માટે ડીડીવીપી ૧૦ મી.લી. ૧૦ લિટર પાણીમાં મિશ્ર કરીને છાંટવી.
પશુ/મરઘા			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 ૭૫૪ હોય તેમને નિયમિત ૧ કી.ગ્રા. ફીડ + ૫૦ ગ્રામ ખનીજ તત્ત્વોનું મિશ્રણ આપવું.

જુદ્દયુ/ટેકનિકલ ઓફિસર.(સુખે)/એગ્રોમેટ/બુલેટીન/ /૨૦૧૯
તરઘડિયા(રાજકોટ), તારીખ: ૧૩/૧૨/૨૦૧૯.

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
તરઘડિયા



Gramin Krushi Mausam Seva
Main Dry Farming Research Station
Junagadh Agricultural University
Targhadia (Rajkot) - 360 003
Phone: (0281)2784260(O), 2331686(R)
Fax : (0281)2784722, Cell :942756433



Agro met Advisory Service bulletin No.74-for the Rajkot district

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

(Period 14 to 18-December- 2019)

Significant past weather for the preceding week of Rajkot

Rainfall (mm)	0.0
Maximum temperature (°C)	28.5-30.0
Minimum temperature (°C)	11.8-16.5
Relative Humidity (%) I	61-88
Relative Humidity (%) II	33-43
Wind speed (Kmph)	2.0-3.9


Weather forecast until 08-30 hrs. Of 18/12/2019



(1) RAJKOT DISTRICT:






	14/12/19	15/12/19	16/12/19	17/12/19	18/12/19
Rainfall (mm)	0	0	0	0	0
Max.Temp.(°C)	29	29	29	29	29
Min.Temp.(°C)	17	16	16	16	15
Total CC (octa)	2	0	0	0	0
RH-I (%)	68	46	46	47	43
RH-II (%)	34	22	20	27	26
Wind Speed (kmph)	11	16	16	22	18
Wind Direction(deg.)	53	35	44	45	51

Agro meteorological Advisories:

General Advice	<p>Rain fall: Dry and Mainly clear to clear weather forecasted next five days.</p> <ul style="list-style-type: none"> • Temperature: Maximum and minimum temperature likely to be in range of 29-29°C and 15-17°C, respectively. • Relative Humidity: The RH-I and RH-II is likely to be in the range of 43-68% & 20-34, respectively. • Wind Direction and Speed: Direction and speed of wind is likely to be NE and 11-22 km/h, respectively. • 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.
-----------------------	--

	<ul style="list-style-type: none"> In the area where unseasonal rainfall occur, make spray of Mencozeb 27 gm/10 litre of water in cumin, garlic, onion, chick pea and coriander to prevent infestation of fungal diseases. 		
Crops	Stage	Insect/Pest/ Variety	Advisory
Garlic	Growing	Thrips and  Alternaria leaf blight	<p>For thrips control spray neem seed extract 5% and make alternative sprays of profenofos 20 ml and lambda-cyhalothrin 14 ml in 10 liters of water at 10 days interval.</p> <p>To prevent blight disease infestation in garlic spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure. Do not over irrigate to prevent leaf blight disease.</p> <p>Apply supplementary dose of nitrogen as urea @ 54 kg/ha at 30-35 days after sowing.</p>
Chick pea	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 Emamectin Benzoate 5 % SG 7 gm in 10 litres of water.</p>
Cumin	Germination/growth	Thrips/aphid	<p>Under present weather condition thrips and aphid infestation observed in cumin & for control the pest make spray of neem seed extract 5% and Thiomethoxam 5 gm/ 10 liters of water.</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>
Coriander	Growing	-	Apply irrigation at 15-20 days interval as per soil type.
Wheat	Crown root initiation/tillering	-	Apply 130 kg urea/ha at crown root initiation. Irrigate crop at CRI stage without stress.
Cotton	Picking & pulling of cotton stalk	<p>Heavy aatack of pink boll worm observed in cotton field. Carry out picking in time.</p> <p>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 of pink boll worm in subsequent year. After grazing don't burn cotton stalks but, recycle the stalk by the doin situ chopping & burying of cotton stalk in soil by mobile chopper and rotavator or make compost from the cotton residues to improve soil biomass and health.</p>	

			
Castor	Flowering/ capsule formation	Jassids& white fly→ Pod borer	<p>Spray Acetamiprid 20 % SP@ 5.0 gm OR imidacloprid 30.5 % 3 ml with neem seed extract 500 ml or neem oil 40 mla / 10 lit of water ml/10 lit of water.</p> <p>For the control of pod borer spray chlorantraniliprole 18.5 % SC 3.0 ml or DDVP 7 ml/10 litre of water is advised against fruit borer.</p>
Pigeon pea	Flowering/ pod formation	-	Apply irrigation through drip system
Kharif Onion	T.P./Bulb development	Thrips & Alternaria leaf spot/purple blotch 	<p>For thrips control spray neem seed extract 5% and make alternative sprays of profenofos 20 ml and lambda-cyhalothrin 14 ml in 10 liters of water at 10 days interval.</p> <p>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.</p> <p>Apply supplementary dose of nitrogen (Urea 40 kg/ha) at 30 DAS under clear sky.</p>
Cluster bean	Growing/ fruiting	Jassid/whitefly	<ul style="list-style-type: none"> • Monitor the crop for infestation of jassid & 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.

Brinjal & Tomato	Flowering/ fruiting	<p>Sucking pest →</p> <p>Shoot & Fruit borer</p>  <p>Mites</p>	<p>Monitor the crop for infestation of jassid & 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.</p> <p>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 7 ml/10 litre of water is advised against fruit borer.</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>
Chili	Flowering & fruiting	<p>Thrips →</p>  <p>Anthracnose →</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 Mencozeb 27gm OR Chlorothalonil 27 gram OR Fosetyl 20 gm in 10 liters of water at 15 days interval.</p>
Lemon	Fruit development	<p>Psylla and thrips</p>  <p>Citrus canker</p> <p>Leaf minor</p>	<p>To prevent damage of psylla & thrips spray imidacloprid 30.5 % 5 ml / 10 lit of water ml/10 lit of water.</p> <p>Spray copper oxychloride 40 gm or streptocyclin 1.5 gm in 10 litre of water.</p> <p>Spray Dichlorvos 10 ml or Quinalphos 20 ml in 10 litres of water for control of leaf minor.</p>
Livestock & poultry 	<p>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.</p>		

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



Gramin Krushi Mausam Seva
Main Dry Farming Research Station
Junagadh Agricultural University
Targhadia (Rajkot) - 360 003
Phone: (0281)2784260(O), 2331686(R)
Fax : (0281)2784722, Cell :94277 28523



Agro met Advisory Service bulletin No.-74 for the Morbi district

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

(Period 14 to 18-December- 2019)



Weather forecast until 08-30 hrs of 18/12/2019



(2) MORBI DISTRICT:





	14/12/19	15/12/19	16/12/19	17/12/19	18/12/19
Rainfall (mm)	0	0	0	0	0
Max. Temp.(°C)	29	29	29	29	29
Min. Temp.(°C)	17	16	16	16	15
Total CC (octa)	3	0	0	0	0
RH-I (%)	73	55	55	50	46
RH-II (%)	38	26	33	41	32
Wind Speed (kmph)	8	12	15	17	14
Wind Direction(deg.)	45	41	46	51	55

Agro meteorological Advisories:-

General Advice	<p>Rain fall: Dry and Partly cloudy to clear weather forecasted next five days.</p> <ul style="list-style-type: none"> Temperature: Maximum and minimum temperature likely to be in range of 29-29°C and 15-17°C, respectively. Relative Humidity: The RH-I and RH-II is likely to be in the range of 46-73% & 26-41, respectively. Wind Direction and Speed: Direction and speed of wind is likely to be NE and 8-17 km/h, respectively. 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. In the area where unseasonal rainfall occur, make spray of Mencozeb 27 gm/10 litre of water in cumin, garlic, onion, chick pea and coriander to prevent infestation of fungal diseases. 		
Crops	Stage	Insect/Pest/Variety	Advisory
Garlic	Growing	Thrips and	For thrips control spray neem seed extract 5% and make alternative sprays of profenofos 20 ml and lambda-cyhalothrin 14 ml in 10 liters of water at 10

		 <p>Alternaria leaf blight</p>	<p>days interval.</p> <p>To prevent blight disease infestation in garlic spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure. Do not over irrigate to prevent leaf blight disease.</p> <p>Apply supplementary dose of nitrogen as urea @ 54 kg/ha at 30-35 days after sowing.</p>
Chick pea	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 Emamectin Benzoate 5 % SG 7 gm in 10 litres of water.</p>
Cumin	Germination/growth	Thrips/aphid	<p>Under present weather condition thrips and aphid infestation observed in cumin & for control the pest make spray of neem seed extract 5% and Thiomethoxam 5 gm/ 10 liters of water.</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>
Coriander	Growing	-	Apply irrigation at 15-20 days interval as per soil type.
Wheat	Crown root initiation/tillering	-	Apply 130 kg urea/ha at crown root initiation. Irrigate crop at CRI stage without stress.
Cotton	Picking & pulling of cotton stalk	<p>Heavy aatack of pink boll worm observed in cotton field. Carry out picking in time.</p> <p>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 of pink boll worm in subsequent year. After grazing don't burn cotton stalks but, recycle the stalk by the doin situ chopping & burying of cotton stalk in soil by mobile chopper and rotavator or make compost from the cotton residues to improve soil biomass and health.</p>	
			

Castor	Flowering/ capsule formation	Jassids& white fly→ Pod borer	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. For the control of pod borer spray chlorantraniliprole18.5 % SC 3.0 ml or DDVP 7 ml/10 litre of water is advised against fruit borer.
Pigeon pea	Flowering/ pod formation	-	Apply irrigation through drip system
Kharif Onion	T.P./Bulb development	Thrips & Alternaria leaf spot/purple blotch 	For thrips control spray neem seed extract 5% and make alternative sprays of profenofos 20 ml and lambda-cyhalothrin 14 ml in 10 liters of water at 10 days interval. 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. Apply supplementary dose of nitrogen (Urea 40 kg/ha) at 30 DASunder clear sky.
Cluster bean	Growing/ fruiting	Jassid/whitefly	• Monitor the crop for infestation of jassid& 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.
Brinjal& Tomato	Flowering/ fruiting	Sucking pest → Shoot &Fruit borer  Mites	Monitor the crop for infestation of jassid& 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. 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 chlorantraniliprole18.5 % SC 3.0 ml or DDVP7 ml/10 litre of water is advised against fruit borer. If infetation is found, then make spraying of Propargite 57 % EC @ 10 ml/ 10litre of water for the control of Mites under clear sky.

<p>Chili</p>	<p>Flowering & fruiting</p>	<p>Thrips → </p> <p>Anthracnose → </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 Mencozeb 27gm OR Chlorothalonil 27 gram OR Fosetyl 20 gm in 10 liters of water at 15 days interval.</p>
<p>Lemon</p>	<p>Fruit development</p>	<p>Psylla and thrips</p>  <p>Citrus canker</p> <p>Leaf minor</p>	<p>To prevent damage of psylla & thrips spray imidacloprid 30.5 % 5 ml / 10 lit of water ml/10 lit of water.</p> <p>Spray copper oxychloride 40 gm or streptocyclin 1.5 gm in 10 litre of water.</p> <p>Spray Dichlorvos 10 ml or Quinalphos 20 ml in 10 litres of water for control of leaf minor.</p>
<p>Livestock & poultry</p> 	<p>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.</p>		

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



Gramin Krushi Mausam Seva
Main Dry Farming Research Station
Junagadh Agricultural University
Targhadia (Rajkot) - 360 003
Phone: (0281)2784260(O), 2331686(R)
Fax : (0281)2784722, Cell :94277 28523



Agro met Advisory Service bulletin No.-74 for the Jamnagar district

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

(Period 14 to 18-December- 2019)



Weather forecast until 08-30 hrs of 18/12/2019



(3) JAMNAGAR DISTRICT:





	14/12/19	15/12/19	16/12/19	17/12/19	18/12/19
Rainfall (mm)	0	0	0	0	0
Max. Temp.(°C)	30	31	30	30	30
Min. Temp.(°C)	19	19	19	19	18
Total CC (octa)	2	0	0	0	0
RH-I (%)	67	51	50	51	49
RH-II (%)	42	31	30	35	34
Wind Speed (kmph)	12	21	23	30	24
Wind Direction(deg.)	62	48	42	47	52

Agro meteorological Advisories:-

General Advice	<p>Rain fall: Dry and Mainly clear to clear weather forecasted next five days.</p> <ul style="list-style-type: none"> Temperature: Maximum and minimum temperature likely to be in range of 30-31°C and 18-19°C, respectively. Relative Humidity: The RH-I and RH-II is likely to be in the range of 49-67% & 30-42, respectively. Wind Direction and Speed: Direction and speed of wind is likely to be NE and 12-30 km/h, respectively. 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. In the area where unseasonal rainfall occur, make spray of Mencozeb 27 gm/10 litre of water in cumin, garlic, onion, chick pea and coriander to prevent infestation of fungal diseases. 		
Crops	Stage	Insect/Pest/Variety	Advisory
Garlic	Growing	Thrips and	For thrips control spray neem seed extract 5% and make alternative sprays of profenofos 20 ml and lambda-cyhalothrin 14 ml in 10 liters of water at 10

		 <p>Alternaria leaf blight</p>	<p>days interval.</p> <p>To prevent blight disease infestation in garlic spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure. Do not over irrigate to prevent leaf blight disease.</p> <p>Apply supplementary dose of nitrogen as urea @ 54 kg/ha at 30-35 days after sowing.</p>
Chick pea	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 Emamectin Benzoate 5 % SG 7 gm in 10 litres of water.</p>
Cumin	Germination/growth	Thrips/aphid	<p>Under present weather condition thrips and aphid infestation observed in cumin & for control the pest make spray of neem seed extract 5% and Thiomethoxam 5 gm/ 10 liters of water.</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>
Coriander	Growing	-	Apply irrigation at 15-20 days interval as per soil type.
Wheat	Crown root initiation/tillering	-	Apply 130 kg urea/ha at crown root initiation. Irrigate crop at CRI stage without stress.
Cotton	Picking & pulling of cotton stalk	<p>Heavy aatack of pink boll worm observed in cotton field. Carry out picking in time.</p> <p>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 of pink boll worm in subsequent year. After grazing don't burn cotton stalks but, recycle the stalk by the doin situ chopping & burying of cotton stalk in soil by mobile chopper and rotavator or make compost from the cotton residues to improve soil biomass and health.</p>	
			

Castor	Flowering/ capsule formation	Jassids& white fly→ Pod borer	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. For the control of pod borer spray chlorantraniliprole18.5 % SC 3.0 ml or DDVP 7 ml/10 litre of water is advised against fruit borer.
Pigeon pea	Flowering/ pod formation	-	Apply irrigation through drip system
Kharif Onion	T.P./Bulb development	Thrips & Alternaria leaf spot/purple blotch 	For thrips control spray neem seed extract 5% and make alternative sprays of profenofos 20 ml and lambda-cyhalothrin 14 ml in 10 liters of water at 10 days interval. 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. Apply supplementary dose of nitrogen (Urea 40 kg/ha) at 30 DASunder clear sky.
Cluster bean	Growing/ fruiting	Jassid/whitefly	• Monitor the crop for infestation of jassid& 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.
Brinjal& Tomato	Flowering/ fruiting	Sucking pest → Shoot &Fruit borer  Mites	Monitor the crop for infestation of jassid& 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. 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 chlorantraniliprole18.5 % SC 3.0 ml or DDVP7 ml/10 litre of water is advised against fruit borer. 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>Chili</p>	<p>Flowering & fruiting</p>	<p>Thrips → </p> <p>Anthracnose → </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 Mencozeb 27gm OR Chlorothalonil 27 gram OR Fosetyl 20 gm in 10 liters of water at 15 days interval.</p>
<p>Lemon</p>	<p>Fruit development</p>	<p>Psylla and thrips</p>  <p>Citrus canker</p> <p>Leaf minor</p>	<p>To prevent damage of psylla & thrips spray imidacloprid 30.5 % 5 ml / 10 lit of water ml/10 lit of water.</p> <p>Spray copper oxychloride 27 gm or streptocyclin 1.5 gm in 10 litre of water.</p> <p>Spray Dichlorvos 10 ml or Quinalphos 20 ml in 10 litres of water for control of leaf minor.</p>
<p>Livestock & poultry</p> 	<p>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.</p>		

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



Gramin Krushi Mausam Seva
Main Dry Farming Research Station
Junagadh Agricultural University
Targhadia (Rajkot) - 360 003
Phone: (0281)2784260(O), 2331686(R)
Fax : (0281)2784722, Cell :94277 28523



Agro met Advisory Service bulletin No.-74 for the Devbhumi Dwarka district

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

(Period 14 to 18-December- 2019)



Weather forecast until 08-30 hrs of 18/12/2019



(4) DEVBHUMI DWARKA DISTRICT:





	14/12/19	15/12/19	16/12/19	17/12/19	18/12/19
Rainfall (mm)	0	0	0	0	0
Max. Temp.(°C)	28	28	28	28	28
Min. Temp.(°C)	19	20	20	20	19
Total CC (octa)	1	0	0	0	0
RH-I (%)	68	51	51	52	49
RH-II (%)	44	32	30	35	32
Wind Speed (kmph)	11	20	22	29	24
Wind Direction(deg.)	72	52	45	48	54

Agro meteorological Advisories:-

General Advice	<p>Rain fall: Dry and Mainly clear to clear weather forecasted next five days.</p> <ul style="list-style-type: none"> Temperature: Maximum and minimum temperature likely to be in range of 28-28°C and 19-20°C, respectively. Relative Humidity: The RH-I and RH-II is likely to be in the range of 49-68% & 30-44, respectively. Wind Direction and Speed: Direction and speed of wind is likely to be E, NE and 11-29 km/h, respectively. 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. In the area where unseasonal rainfall occur, make spray of Mencozeb 27 gm/10 litre of water in cumin, garlic, onion, chick pea and coriander to prevent infestation of fungal diseases. 		
Crops	Stage	Insect/Pest/Variety	Advisory
Garlic	Growing	Thrips and	For thrips control spray neem seed extract 5% and make alternative sprays of profenofos 20 ml and lambda-cyhalothrin 14 ml in 10 liters of water at 10

		 <p>Alternaria leaf blight</p>	<p>days interval.</p> <p>To prevent blight disease infestation in garlic spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure. Do not over irrigate to prevent leaf blight disease.</p> <p>Apply supplementary dose of nitrogen as urea @ 54 kg/ha at 30-35 days after sowing.</p>
Chick pea	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 Emamectin Benzoate 5 % SG 7 gm in 10 litres of water.</p>
Cumin	Germination/growth	Thrips/aphid	<p>Under present weather condition thrips and aphid infestation observed in cumin & for control the pest make spray of neem seed extract 5% and Thiomethoxam 5 gm/ 10 liters of water.</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>
Coriander	Growing	-	Apply irrigation at 15-20 days interval as per soil type.
Wheat	Crown root initiation/tillering	-	Apply 130 kg urea/ha at crown root initiation. Irrigate crop at CRI stage without stress.
Cotton	Picking & pulling of cotton stalk	<p>Heavy aatack of pink boll worm observed in cotton field. Carry out picking in time.</p> <p>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 of pink boll worm in subsequent year. After grazing don't burn cotton stalks but, recycle the stalk by the doin situ chopping & burying of cotton stalk in soil by mobile chopper and rotavator or make compost from the cotton residues to improve soil biomass and health.</p>	

Castor	Flowering/ capsule formation	Jassids& white fly→ Pod borer	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. For the control of pod borer spray chlorantraniliprole18.5 % SC 3.0 ml or DDVP 7 ml/10 litre of water is advised against fruit borer.
Pigeon pea	Flowering/ pod formation	-	Apply irrigation through drip system
Kharif Onion	T.P./Bulb development	Thrips & Alternaria leaf spot/purple blotch 	For thrips control spray neem seed extract 5% and make alternative sprays of profenofos 20 ml and lambda-cyhalothrin 14 ml in 10 liters of water at 10 days interval. 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. Apply supplementary dose of nitrogen (Urea 40 kg/ha) at 30 DASunder clear sky.
Cluster bean	Growing/ fruiting	Jassid/whitefly	• Monitor the crop for infestation of jassid& 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.
Brinjal& Tomato	Flowering/ fruiting	Sucking pest → Shoot &Fruit borer  Mites	Monitor the crop for infestation of jassid& 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. 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 chlorantraniliprole18.5 % SC 3.0 ml or DDVP7 ml/10 litre of water is advised against fruit borer. 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>Chili</p>	<p>Flowering & fruiting</p>	<p>Thrips → </p> <p>Anthracnose → </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 Mencozeb 27gm OR Chlorothalonil 27 gram OR Fosetyl 20 gm in 10 liters of water at 15 days interval.</p>
<p>Lemon</p>	<p>Fruit development</p>	<p>Psylla and thrips</p>  <p>Citrus canker</p> <p>Leaf minor</p>	<p>To prevent damage of psylla & thrips spray imidacloprid 30.5 % 5 ml / 10 lit of water ml/10 lit of water.</p> <p>Spray copper oxychloride 40 gm or streptocyclin 1.5 gm in 10 litre of water.</p> <p>Spray Dichlorvos 10 ml or Quinalphos 20 ml in 10 litres of water for control of leaf minor.</p>
<p>Livestock & poultry</p> 	<p>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.</p>		

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



Gramin Krushi Mausam Seva
Main Dry Farming Research Station
Junagadh Agricultural University
Targhadia (Rajkot) - 360 003
Phone: (0281)2784260(O), 2331686(R)
Fax : (0281)2784722, Cell :94277 28523



Agro met Advisory Service bulletin No.-74 for the Amreli district

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

(Period 14 to 18-December- 2019)



Weather forecast until 08-30 hrs of 18/12/2019



(5) AMRELI DISTRICT:





	14/12/19	15/12/19	16/12/19	17/12/19	18/12/19
Rainfall (mm)	0	0	0	0	0
Max.Temp.(°C)	29	29	29	29	29
Min.Temp.(°C)	17	16	17	17	17
Total CC (octa)	4	0	0	0	0
RH-I (%)	74	47	47	51	49
RH-II (%)	39	28	27	36	35
Wind Speed (kmph)	15	19	21	25	21
Wind Direction(deg.)	32	21	24	36	36

Agro meteorological Advisories:

General Advice	<p>Rain fall: Dry and Partly cloudy to clear weather forecasted next five days.</p> <ul style="list-style-type: none"> Temperature: Maximum and minimum temperature likely to be in range of 29-29°C and 16-17°C, respectively. Relative Humidity: The RH-I and RH-II is likely to be in the range of 47-74% & 27-39, respectively. Wind Direction and Speed: Direction and speed of wind is likely to be NE, N and 15-25 km/h, respectively. 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. In the area where unseasonal rainfall occur, make spray of Mencozeb 27 gm/10 litre of water in cumin, garlic, onion, chick pea and coriander to prevent infestation of fungal diseases. 		
Crops	Stage	Insect/Pest/Variety	Advisory
Garlic	Growing	Thrips and	For thrips control spray neem seed extract 5% and make alternative sprays of profenofos 20 ml and lambda-cyhalothrin 14 ml in 10 liters of water at 10

		 <p>Alternaria leaf blight</p>	<p>days interval.</p> <p>To prevent blight disease infestation in garlic spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure. Do not over irrigate to prevent leaf blight disease.</p> <p>Apply supplementary dose of nitrogen as urea @ 54 kg/ha at 30-35 days after sowing.</p>
Chick pea	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 Emamectin Benzoate 5 % SG 7 gm in 10 litres of water.</p>
Cumin	Germination/growth	Thrips/aphid	<p>Under present weather condition thrips and aphid infestation observed in cumin & for control the pest make spray of neem seed extract 5% and Thiomethoxam 5 gm/ 10 liters of water.</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>
Coriander	Growing	-	Apply irrigation at 15-20 days interval as per soil type.
Wheat	Crown root initiation/tillering	-	Apply 130 kg urea/ha at crown root initiation. Irrigate crop at CRI stage without stress.
Cotton	Picking & pulling of cotton stalk	<p>Heavy aatack of pink boll worm observed in cotton field. Carry out picking in time.</p> <p>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 of pink boll worm in subsequent year. After grazing don't burn cotton stalks but, recycle the stalk by the doin situ chopping & burying of cotton stalk in soil by mobile chopper and rotavator or make compost from the cotton residues to improve soil biomass and health.</p>	
			

Castor	Flowering/ capsule formation	Jassids& white fly→ Pod borer	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. For the control of pod borer spray chlorantraniliprole18.5 % SC 3.0 ml or DDVP 7 ml/10 litre of water is advised against fruit borer.
Pigeon pea	Flowering/ pod formation	-	Apply irrigation through drip system
Kharif Onion	T.P./Bulb development	Thrips & Alternaria leaf spot/purple blotch 	For thrips control spray neem seed extract 5% and make alternative sprays of profenofos 20 ml and lambda-cyhalothrin 14 ml in 10 liters of water at 10 days interval. 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. Apply supplementary dose of nitrogen (Urea 40 kg/ha) at 30 DASunder clear sky.
Cluster bean	Growing/ fruiting	Jassid/whitefly	• Monitor the crop for infestation of jassid& 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.
Brinjal& Tomato	Flowering/ fruiting	Sucking pest → Shoot &Fruit borer  Mites	Monitor the crop for infestation of jassid& 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. 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 chlorantraniliprole18.5 % SC 3.0 ml or DDVP7 ml/10 litre of water is advised against fruit borer. 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>Chili</p>	<p>Flowering & fruiting</p>	<p>Thrips → </p> <p>Anthracnose → </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 Mencozeb 27gm OR Chlorothalonil 27 gram OR Fosetyl 20 gm in 10 liters of water at 15 days interval.</p>
<p>Lemon</p>	<p>Fruit development</p>	<p>Psylla and thrips</p> <p>Citrus canker</p> <p>Leaf minor</p>	<p></p> <p>To prevent damage of psylla & thrips spray imidacloprid 30.5 % 5 ml / 10 lit of water ml/10 lit of water.</p> <p>Spray copper oxychloride 40 gm or streptocyclin 1.5 gm in 10 litre of water. Spray Dichlorvos 10 ml or Quinalphos 20 ml in 10 litres of water for control of leaf minor.</p>
<p>Livestock & poultry</p> 	<p>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.</p>		

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



Gramin Krushi Mausam Seva
Main Dry Farming Research Station
Junagadh Agricultural University
Targhadia (Rajkot) - 360 003
Phone: (0281)2784260(O), 2331686(R)
Fax : (0281)2784722, Cell:94277 28523



Agro met Advisory Service bulletin No.-74 for the Surendranagar district

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

(Period 14 to 18-December- 2019)



Weather forecast until 08-30 hrs of 18/12/2019



(6) SURENDRANAGAR DISTRICT:





	14/12/19	15/12/19	16/12/19	17/12/19	18/12/19
Rainfall (mm)	0	0	0	0	0
Max.Temp.(°C)	29	29	29	29	29
Min.Temp.(°C)	17	16	16	16	15
Total CC (octa)	2	0	0	0	1
RH-I (%)	63	47	49	49	44
RH-II (%)	36	24	25	30	28
Wind Speed (kmph)	13	16	16	20	16
Wind Direction(deg.)	44	29	45	42	50

Agro meteorological advisories:

General Advice	<p>Rain fall: Dry and Mainly clear to clear weather forecasted next five days.</p> <ul style="list-style-type: none"> • Temperature: Maximum and minimum temperature likely to be in range of 29-29°C and 15-17°C, respectively. • Relative Humidity: The RH-I and RH-II is likely to be in the range of 44-63% & 25-36, respectively. • Wind Direction and Speed: Direction and speed of wind is likely to be NE and 13-20 km/h, respectively. • 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. • In the area where unseasonal rainfall occur, make spray of Mencozeb 27 gm/10 litre of water in cumin, garlic, onion, chick pea and coriander to prevent infestation of fungal diseases. 		
Crops	Stage	Insect/Pest/Variety	Advisory
Garlic	Growing	Thrips and	For thrips control spray neem seed extract 5% and make alternative sprays of profenofos 20 ml and lambda-cyhalothrin 14 ml in 10 liters of water at 10

		 <p>Alternaria leaf blight</p>	<p>days interval.</p> <p>To prevent blight disease infestation in garlic spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure. Do not over irrigate to prevent leaf blight disease.</p> <p>Apply supplementary dose of nitrogen as urea @ 54 kg/ha at 30-35 days after sowing.</p>
Chick pea	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 Emamectin Benzoate 5 % SG 7 gm in 10 litres of water.</p>
Cumin	Germination/growth	Thrips/aphid	<p>Under present weather condition thrips and aphid infestation observed in cumin & for control the pest make spray of neem seed extract 5% and Thiomethoxam 5 gm/ 10 liters of water.</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>
Coriander	Growing	-	Apply irrigation at 15-20 days interval as per soil type.
Wheat	Crown root initiation/tillering	-	Apply 130 kg urea/ha at crown root initiation. Irrigate crop at CRI stage without stress.
Cotton	Picking & pulling of cotton stalk	<p>Heavy aatack of pink boll worm observed in cotton field. Carry out picking in time.</p> <p>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 of pink boll worm in subsequent year. After grazing don't burn cotton stalks but, recycle the stalk by the doin situ chopping & burying of cotton stalk in soil by mobile chopper and rotavator or make compost from the cotton residues to improve soil biomass and health.</p>	
			

Castor	Flowering/ capsule formation	Jassids& white fly→ Pod borer	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. For the control of pod borer spray chlorantraniliprole18.5 % SC 3.0 ml or DDVP 7 ml/10 litre of water is advised against fruit borer.
Pigeon pea	Flowering/ pod formation	-	Apply irrigation through drip system
Kharif Onion	T.P./Bulb development	Thrips & Alternaria leaf spot/purple blotch 	For thrips control spray neem seed extract 5% and make alternative sprays of profenofos 20 ml and lambda-cyhalothrin 14 ml in 10 liters of water at 10 days interval. 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. Apply supplementary dose of nitrogen (Urea 40 kg/ha) at 30 DASunder clear sky.
Cluster bean	Growing/ fruiting	Jassid/whitefly	• Monitor the crop for infestation of jassid& 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.
Brinjal& Tomato	Flowering/ fruiting	Sucking pest → Shoot &Fruit borer  Mites	Monitor the crop for infestation of jassid& 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. 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 chlorantraniliprole18.5 % SC 3.0 ml or DDVP7 ml/10 litre of water is advised against fruit borer. If infetation is found, then make spraying of Propargite 57 % EC @ 10 ml/ 10litre of water for the control of Mites under clear sky.

<p>Chili</p>	<p>Flowering & fruiting</p>	<p>Thrips → </p> <p>Anthracnose → </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 Mencozeb 27gm OR Chlorothalonil 27 gram OR Fosetyl 20 gm in 10 liters of water at 15 days interval.</p>
<p>Lemon</p>	<p>Fruit development</p>	<p>Psylla and thrips</p>  <p>Citrus canker</p> <p>Leaf minor</p>	<p>To prevent damage of psylla & thrips spray imidacloprid 30.5 % 5 ml / 10 lit of water ml/10 lit of water.</p> <p>Spray copper oxychloride 40 gm or streptocyclin 1.5 gm in 10 litre of water.</p> <p>Spray Dichlorvos 10 ml or Quinalphos 20 ml in 10 litres of water for control of leaf minor.</p>
<p>Livestock & poultry</p> 	<p>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.</p>		

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