



ગ્રામીણ કૃષિ મૌસમ સેવા
હવામાન આગાહી આધારીત કૃષિસલાહ બુલેટીન
ઉત્તર સૌરાષ્ટ્રખેત આબોહવાકીય વિભાગ
તા.૨૫-૧૨-૨૦૧૯ થી તા.૨૯-૧૨-૨૦૧૯



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

કૃષિ હવામાન બુલેટીન નં. ૭૭/૨૦૧૯

પાછલા અઠવાડિયાનું રાજકોટનું હવામાન

હવામાન પરિબળો	
વરસાદ(મી.મી)	0.0
મહત્તમ તાપમાન (સે.ગ્રે)	26.9-28.4
લઘુતમ તાપમાન (સે.ગ્રે)	11.8-14.4
ભેજ(%) સવાર	56-81
ભેજ(%) બપોરબાદ	40-56
પવનની ગતિ (કિમી/કલાક)	2.2-5.0

હવામાન આગાહી: પત્રક-ક

ઉત્તરસૌરાષ્ટ્ર ખેત આબોહવાકીય વિભાગ-હવામાન આગાહી

તા.૨૫-૧૨-૨૦૧૯ થી ૨૯-૧૨-૨૦૧૯

કૃષિ સલાહ:

સામાન્ય	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					
	રાજકોટ: જીલ્લામાં આગામી તા.૨૫-૧૨-૨૦૧૯ થી તા.૨૯-૧૨-૨૦૧૯ દરમિયાન હવામાન સૂકું અને મુખત્વે વાદળછાયું રહેશે. પવનની દિશા ઉત્તર અને ઈશાનની રહેવાની અને પવનની ઝડપ ૧૩ થી ૧૫ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમિયાન ૨૮-૩૦ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુતમ તાપમાન રાત્રી દરમિયાન ૧૩-૧૫ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.					
	તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
	પેરામીટર	૨૫-૧૨-૧૯	૨૬-૧૨-૧૯	૨૭-૧૨-૧૯	૨૮-૧૨-૧૯	૨૯-૧૨-૧૯
	વરસાદ(મી.મી)	0	0	0	0	0
	મહત્તમતાપમાન (સે.ગ્રે)	30	29	28	28	28
	લઘુતમતાપમાન (સે.ગ્રે)	15	14	13	13	13

વાદળનીસ્થિતિ(ઓકટા)	5	2	0	1	0
મહત્તમભેજ(%) સવાર	55	58	50	32	37
લઘુત્તમભેજ (%) બપોરબાદ	30	30	28	18	19
પવનનીગતિ(કિમી/કલાક)	14	15	13	14	14
પવનનીદિશા(ડીગ્રી)	21	28	52	48	36

મોરબી : જીલ્લામાં આગામી તા.૨૫-૧૨-૨૦૧૯ થી તા.૨૯-૧૨-૨૦૧૯ દરમ્યાન હવામાન સુકું અને મુખત્વે વાદળછાયું રહેશે. પવનની દિશા ઈશાનની રહેવાની અને પવનની ઝડપ ૧૨ થી ૧૪ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૨૮-૩૦ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન ૧૩-૧૫ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ પેરામીટર	દિવસ-૧ ૨૫-૧૨-૧૯	દિવસ-૨ ૨૬-૧૨-૧૯	દિવસ-૩ ૨૭-૧૨-૧૯	દિવસ-૪ ૨૮-૧૨-૧૯	દિવસ-૫ ૨૯-૧૨-૧૯
વરસાદ(મી.મી)	0	0	0	0	0
મહત્તમતાપમાન (સે.ગ્રે)	30	29	28	28	28
લઘુત્તમતાપમાન (સે.ગ્રે)	15	14	13	13	13
વાદળનીસ્થિતિ(ઓકટા)	6	2	0	0	0
મહત્તમભેજ(%) સવાર	68	65	46	34	37
લઘુત્તમભેજ (%) બપોરબાદ	41	32	26	24	25
પવનનીગતિ(કિમી/કલાક)	14	12	14	13	13
પવનનીદિશા(ડીગ્રી)	31	38	53	63	58

જામનગર: જીલ્લામાં આગામી તા.૨૫-૧૨-૨૦૧૯ થી તા.૨૯-૧૨-૨૦૧૯ દરમ્યાન હવામાન સુકું અને મુખત્વે વાદળછાયું રહેશે. પવનની દિશા ઈશાનની રહેવાની અને પવનની ઝડપ ૧૭ થી ૨૨ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૨૯-૩૦ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન ૧૬-૧૬ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ પેરામીટર	દિવસ-૧ ૨૫-૧૨-૧૯	દિવસ-૨ ૨૬-૧૨-૧૯	દિવસ-૩ ૨૭-૧૨-૧૯	દિવસ-૪ ૨૮-૧૨-૧૯	દિવસ-૫ ૨૯-૧૨-૧૯
વરસાદ(મી.મી)	0	0	0	0	0
મહત્તમતાપમાન (સે.ગ્રે)	30	30	29	29	29
લઘુત્તમતાપમાન (સે.ગ્રે)	16	16	16	16	16
વાદળનીસ્થિતિ(ઓકટા)	5	2	0	1	1
મહત્તમભેજ(%) સવાર	54	58	50	42	45
લઘુત્તમભેજ (%) બપોરબાદ	37	38	34	26	24

પવનનીગતિ(કિમી/કલાક)	21	22	19	18	17
પવનનીદિશા(ડીગ્રી)	24	35	49	47	35

દેવભૂમિ દ્વારકા: જીલ્લામાં આગામી તા.૨૫-૧૨-૨૦૧૯ થી તા.૨૯-૧૨-૨૦૧૯ દરમ્યાન હવામાન સુકું અને મુખત્વે વાદળછાયું રહશે. પવનની દિશા ઈશાનની રહેવાની અને પવનની ઝડપ ૧૫ થી ૨૧ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૨૭-૨૮ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન ૧૮-૧૯ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ પેરામીટર	દિવસ-૧ ૨૫-૧૨-૧૯	દિવસ-૨ ૨૬-૧૨-૧૯	દિવસ-૩ ૨૭-૧૨-૧૯	દિવસ-૪ ૨૮-૧૨-૧૯	દિવસ-૫ ૨૯-૧૨-૧૯
વરસાદ(મી.મી)	0	0	0	0	0
મહત્તમતાપમાન (સે.ગ્રે)	28	28	27	27	27
લઘુત્તમતાપમાન (સે.ગ્રે)	18	18	18	18	18
વાદળનીસ્થિતિ(ઓકટા)	5	2	0	2	1
મહત્તમભેજ(%) સવાર	55	58	51	44	47
લઘુત્તમભેજ (%) બપોરબાદ	35	36	34	23	22
પવનનીગતિ(કિમી/કલાક)	21	21	18	17	15
પવનનીદિશા(ડીગ્રી)	25	41	52	49	38

અમરેલી: જીલ્લામાં આગામી તા.૨૫-૧૨-૨૦૧૯ થી તા.૨૯-૧૨-૨૦૧૯ દરમ્યાન હવામાન સુકું અને મુખત્વે વાદળછાયું રહશે. પવનની દિશા ઈશાન અને ઉતરની રહેવાની અને પવનની ઝડપ ૧૬ થી ૧૯ કીમી/કલાક રહેની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૨૮-૩૦ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન ૧૪-૧૫ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.


તારીખ પેરામીટર	દિવસ-૧ ૨૫-૧૨-૧૯	દિવસ-૨ ૨૬-૧૨-૧૯	દિવસ-૩ ૨૭-૧૨-૧૯	દિવસ-૪ ૨૮-૧૨-૧૯	દિવસ-૫ ૨૯-૧૨-૧૯
વરસાદ(મી.મી)	0	0	0	0	0
મહત્તમતાપમાન (સે.ગ્રે)	30	29	28	28	29
લઘુત્તમતાપમાન (સે.ગ્રે)	15	15	14	14	14
વાદળનીસ્થિતિ(ઓકટા)	4	5	1	1	1
મહત્તમભેજ(%) સવાર	58	57	55	40	38
લઘુત્તમભેજ(%) બપોરબાદ	34	34	30	27	27
પવનનીગતિ(કિમી/કલાક)	16	17	17	18	19
પવનનીદિશા(ડીગ્રી)	60	17	23	20	64


સુરેન્દ્રનગર: જીલ્લામાં આગામી તા.૨૫-૧૨-૨૦૧૯ થી તા.૨૯-૧૨-૨૦૧૯ દરમ્યાન હવામાન સુકું અને મુખત્વે વાદળછાયું રહશે. પવનની દિશા ઈશાનની રહેવાની અને પવનની ઝડપ ૧૩ થી ૧૪ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૨૮-૩૦ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન ૧૩-૧૫ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.



તારીખ પેરામીટર	દિવસ-૧ ૨૫-૧૨-૧૯	દિવસ-૨ ૨૬-૧૨-૧૯	દિવસ-૩ ૨૭-૧૨-૧૯	દિવસ-૪ ૨૮-૧૨-૧૯	દિવસ-૫ ૨૯-૧૨-૧૯
વરસાદ(મી.મી)	0	0	0	0	0
મહત્તમતાપમાન (સે.ગ્રે)	30	29	28	28	28
લઘુત્તમતાપમાન (સે.ગ્રે)	15	14	13	13	13
વાદળનીસ્થિતિ(ઓકટા)	5	1	0	0	0
મહત્તમભેજ(%) સવાર	60	65	51	31	36
લઘુત્તમભેજ(%) બપોરબાદ	34	34	29	20	22
પવનનીગતિ(કિમી/કલાક)	13	14	14	14	14
પવનનીદિશા(ડીગ્રી)	36	34	60	51	42



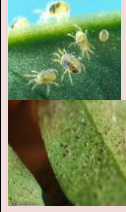
➤ ૨૫ થી ૨૯-ડિસેમ્બર ૨૦૧૯ હવામાન સુકું અને મુખત્વે વાદળછાયું રહશે. પવનની દિશા ઈશાન અને ઉત્તરની મોટાભાગે રહેવાની અને પવનની ઝડપ ૧૨ થી ૨૨ કીમી/કલાક રહેવાની શક્યતા છે. આ સમયગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૨૭-૩૦ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન ૧૩-૧૬ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

➤ શિયાળુ પાકોમાં નિદામણ કાર્ય સમયસર કરવું.

મુખ્ય પાક	પાક અવસ્થા	રોગ/જીવાત/જાત	કૃષિ સલાહ (૧૦ લીટર પાણીમાં મિશ્ર કરી ભલામણ કરેલ દવા છાંટવી)
લસણ	વૃદ્ધિ	થ્રીપ્સ, પાનની ટોચનો સુકારો 	<p>➤ થ્રીપ્સના નિયંત્રણ માટે લીબોળીનું તેલ ૫૦મિલિ અથવા લીબોળીના મીજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી અને પ્રોફેનોફોસ ૩૦ મિલી અથવા લેમ્બડા સાયહેલોથ્રીન ૧૫ મિલી દવાને ૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો.</p> <p>લસણના પાકમાં 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>યુરિયા ખાતર ૫૪ કી.ગ્રા. પ્રતિ હેક્ટર વાવેતર બાદ ૩૦-૩૫ દિવસે આપવું.</p>
ચણા	વૃદ્ધિ/ફૂલ	લીલી અને	ચણાના પાકમાં લીલી અને લશ્કરી ઈયળના નિયંત્રણ માટે

		<p>લશ્કરી ઈંચળ</p> 	<p>પક્ષીઓને બેસવા માટે 'T' આકારના બેલાખડા મુકવા. જો વધુ ઉપદ્રવ જણાય તો કવીનાલફોસ ૨૦ મિલી અથવા એમામેકટીન બેન્ઝોએટ ૬.૫ ગ્રામ ૧૦ લીટર પાણીમાં કરીને છંટકાવ કરવો. તેમજ લીંબોળીનું તેલ ૫૦મિલિ અથવા લીંબોળીના મીંજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી ૧૦ લીટર પાણીમાં કરીને છંટકાવ કરવો.</p> <p>પાનના સુકારાના નિયંત્રણ માટે ડાયથેન એમ ૪૫, ૨૭ ગ્રામ ૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો.</p>
ધાણા	ફૂલ	થ્રીપ્સ અને મોલો	થ્રીપ્સ અને મોલોના ના નિયંત્રણ માટે લીંબોળીનું તેલ ૫૦મિલિ અથવા લીંબોળીના મીંજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી અને થાયોમીથોક્ઝામ ૫ ગ્રામ ૧૦ લીટર પાણીમાં કરીને છંટકાવ કરવો.
જીરું	ફૂલ	થ્રીપ્સ ચરમી અને રાખોડી	<p>થ્રીપ્સના નિયંત્રણ માટે લીંબોળીનું તેલ ૫૦મિલિ અથવા લીંબોળીના મીંજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી અને થાયોમીથોક્ઝામ ૫ ગ્રામ ૧૦ લીટર પાણીમાં કરીને છંટકાવ કરવો.</p> <p>તેમજ ચરમીનો ઉપદ્રવ ન થાય તે માટે ડાયથેન એમ ૪૫, ૨૭ ગ્રામ અને હેક્ઝાકોનાઝોલ ૧૫ મિલી દવા વારાફરતી ૧૦ લીટર પાણીમાં મિશ્ર કરીને ૧૫ દિવસના અંતરે છંટકાવ કરવો.</p>
ઘઉં	ફૂલ/ગાભ	પહોળા પાન વાળા નિંદામણ	<p>ઘઉંમાં પહોળા પાન વાળા નિંદામણના નિયંત્રણ માટે વાવેતર બાદ ૩૦-૩૫ દિવસે ૨-૪-ડી ૨૦ મિલી અથવા મેટાસલ્ફ્યુરોન ૦.૮ ગ્રામ ૧૦ લીટર પાણીમાં મિશ્ર કરી છાંટવી.</p>
રાયડો	ફૂલ	રાય વરુણા, ગુજરાત -૩ અને ૪	થ્રીપ્સ અને મોલોના ના નિયંત્રણ માટે લીંબોળીનું તેલ ૫૦મિલિ અથવા લીંબોળીના મીંજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી અને થાયોમીથોક્ઝામ ૫ ગ્રામ ૧૦ લીટર પાણીમાં કરીને છંટકાવ કરવો.

કપાસ	કપાસની વીણી	<p>ગુલાબી ઇયળ</p> <p>ગુલાબી ઇયળનાં નિયંત્રણ માટે તેમજ પિયત આપવું નહિ. બીજો ફાલ લેવો નહિ. છેલ્લી વીણી પછી ઘેટા બકરા ચરાવવા. જેથી ખુલ્યા 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 સુંક્મ જીવોની સંખ્યા વધશે અને જમીનના સ્વાસ્થ્યમાં સુધારો થશે. અથવા કરાંઠી ભેગી કરી શ્રેદરથી નાના ટુકડા કરીને છાણ, યુરીયા, કમ્પોસ્ટ કલ્ચર ઉમેરી દેશી(સેન્દ્રિય) ખાતર બનાવવું.</p> 	
દિવેલા	વૃદ્ધિ/કુલ/ગડ	<p>લીલી પોપટી, સફેદ માખી</p> <p>ગડની ઇયળ</p>	<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 લિટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો.
ડુંગળી	દડાનો વિકાસ	<p>થ્રીપ્સ, પાનનો સુકારો</p> <p>જાંબલી ધાબા</p> 	<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 લિટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો. ➤ ડુંગળીના પાકમાં જાંબલી ધાબાના રોગના નિયંત્રણ માટે મેન્કોઝેબ ૨૭ ગ્રામ અથવા ક્લોરોથેલોનીલ ૨૭ ગ્રામ અથવા ફોઝેટાઈલ ૨૦ ગ્રામના ૧૫ દિવસના અંતરે ત્રણ છંટકાવ કરવા. ➤ નાઈટ્રોજન યુક્ત એમોનિયમ સલ્ફેટ ખાતરનો પુરતી ડોઝ ૩૦ કીલો ગ્રામ પ્રતિ હે. આપવો.
તુવેર	ફૂલ/શીંગ/દાણા	શીંગ માખી	કવીનાલફોસ ૨૦ મિલી અથવા ડીડીવીપી ૫ મિલી ૧૦ લિટર

	ભરાવવા		પાણીમાં મિશ્ર કરીને છંટકાવ કરવો. તેમજ લીબોળીનું તેલ ૫૦મિલિ અથવા લીબોળીના મીંજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી ૧૦ લીટર પાણીમાં કરીને છંટકાવ કરવો.
કોબી અને ફલાવર	વૃદ્ધિ/દડા	હિરાફૂદ	કોબી અને ફલાવરમાં હિરાફૂદના 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	<ul style="list-style-type: none"> ➤ તડતડીયા અને સફેદ માખીના નિયંત્રણ માટે લીબોળીનું તેલ ૫૦ મિલિ અથવા લીબોળીના 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. ➤ ફળ અને ડોકાની ઈયળોનો ઉપદ્રવ હોય તો નુકશાન પામેલ ફળ અને ડોકા તોડીને જમીનમાં દાંટી દેવા અને ક્લોરાનટ્રાનીલીપ્રોલ ૧૮.૫ એસ.સી (રીનાક્ષીપાયર) દવા ૩ મિલી અથવા ડીડીવીપી ૭૬ ઈસી મિલી ૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો. ➤ જો પાનકથીરીનો ઉપદ્રવ હોય તો પ્રોપરગાઈટ ૫૭ ઈ.સી. ૧૫ મિલી પ્રતિ પંપ છંટકાવ કરવો.
મરચી	વૃદ્ધિ/ફુલ/ફળ	થ્રીપ્સ, સફેદ માખી  કાલવણ → 	<ul style="list-style-type: none"> ➤ પ્રોફેનોફોસ ૨૦ મીલી અને લીબોળીનું તેલ ૫૦ મિલી અથવા લીબોળીના 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. ➤ કાલવણ રોગના નિયંત્રણ માટે મેન્કોઝેબ ૨૭ ગ્રામ અથવા ક્લોરોથેલોનીલ ૨૭ ગ્રામ અથવા ફેઝેટાઈલ ૨૦ ગ્રામના ૧૫ દિવસના અંતરે ત્રણ છંટકાવ કરવા.
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. તેના નિયંત્રણ માટે ઈમીડાક્લોપ્રીડ ૩૦.૫ ટકા ૫ મીલી અને

	સાયલા અને થ્રીપ્સ	લીંબોળીનું તેલ ૫૦ મીલી અથવા લીંબોળીના મીજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી/૧૦ લિટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો. વધુ ઉપદ્રવ હોય તો દ્રાવણોફેસ ૪૦ ટકા ૨૦/૧૦ લિટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો.
	બદામી ટપકાં	બદામી ટપકાના ઓક્ઝીક્લોરાઈડ ૪૦ સ્ટ્રેપ્ટોસાયક્લીનના બે છંટકાવ ૧૫ દિવસના ગળે કરવા.
	પાનકોરીયુ	પાનકોરીયુના નિયંત્રણ માટે ડીડીવીપી ૧૦ મી.લી. ૧૦ લિટર પાણીમાં મિશ્ર કરીને છાંટવી.
પશુ/ મરઘા	<p>પ્રજીવથી થતા રોગોની ચકાસણી કરાવવી. ઈતરડીના નિયંત્રણ માટે ડેલ્ટામેથ્રીન અથવા એમીટ્રાઝ ૨ મી.લી. ૧ લીટર પાણીમાં નાખીને છાંટવી. વિટામીન એ તથા ડી પુરકો આપવા. કરમિયાની દવા આપવી તથા ઉછરતા પશુઓમાં બૃસેલ્લા કાફવુંડનું રસીકરણ કરાવવું. પશુને ૬ થી ૮ કી.ગ્રા. સુકો અને ૧૫ થી ૨૦ કી.ગ્રા. લીલો ચારો આપવો. દુધાળા પશુઓને પ્રતિ લીટર દુધની ઊપજ હોય તેમને નિયમિત ૧ કી.ગ્રા. ફીડ + ૫૦ ગ્રામ ખનીજ તત્ત્વોનું મિશ્રણ આપવું. તેમજ માખીઓના ઉપદ્રવથી બચવા ફીનાઈલ છાંટવું. મરઘા ઘરના પશ્ચિમ દિશામા કંતાનના પડદા લગાવવા.</p>	



જુફ્યુ/ટેકનિકલ ઓફિસર.(સુખે)/એગ્રોમેટ/બુલેટીન/ /૨૦૧૯
તરઘડિયા(રાજકોટ), તારીખ: ૨૪/૧૨/૨૦૧૯.

પ્રતિ,
તંત્રીશ્રી/ડાયરેક્ટરશ્રી,
રાજકોટ,

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

ટેકનીકલ ઓફિસર
સુકી ખેતીસંશોધન કેન્દ્ર
જુનાગઢ કૃષિ નિવર્સિટી
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Agro met Advisory Service bulletin No.77-for the Rajkot district

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

(Period 25 to 29-December- 2019)

Significant past weather for the preceding week of Rajkot

Rainfall (mm)	0.0
Maximum temperature (°C)	26.9-28.4
Minimum temperature (°C)	11.8-14.4
Relative Humidity (%) I	56-81
Relative Humidity (%) II	40-56
Wind speed (Kmph)	2.2-5.0





Weather forecast until 08-30 hrs. of 29/12/2019




(1) RAJKOT DISTRICT:






	25/12/19	26/12/19	27/12/19	28/12/19	29/12/19
Rainfall (mm)	0	0	0	0	0
Max.Temp.(°C)	30	29	28	28	28
Min.Temp.(°C)	15	14	13	13	13
Total CC (octa)	5	2	0	1	0
RH-I (%)	55	58	50	32	37
RH-II (%)	30	30	28	18	19
Wind Speed (kmph)	14	15	13	14	14
Wind Direction(deg.)	21	28	52	48	36

Agro meteorological Advisories:

General Advice	Rain fall: Dry and Mainly clear to clear weather forecasted next five days. <ul style="list-style-type: none">• Temperature: Maximum and minimum temperature likely to be in range of 28-30°C and 13-15°C, respectively.• Relative Humidity: The RH-I and RH-II is likely to be in the range of 32-58% & 18-30, respectively.• Wind Direction and Speed: Direction and speed of wind is likely to be N, NE and 13-15 km/h, respectively.• Carry out weeding in rabi crops as per needs.		
Crops	Stage	Insect/Pest/ Variety	Advisory

Garlic	Growing	Thrips and  Alternaria leaf blight	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. To prevent leaf 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.
Chick pea	Branching/flowering	Monitor the crop regularly for and heliothes infestation 	Under present weather condition heliothes infestation observed in chickpea. So, Monitor the crop regularly for heliothes and prodenia infestation. <ul style="list-style-type: none"> • “T” shaped bird perches in and around crop field to be installed for natural controlling the insect population. • Spray neem seed extract 5 % or neem seed oil 50 ml in 10 litres of water. • If infestation cross ETL spray 3 ml Spinosad in 10 liters of water. • Also to prevent blight disease infestation spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure. • Irrigate gram crop at flowering stage.
Cumin	Germination/growth	Aphid and thrips Blight and Powery mildew 	Under present weather condition attack of thrips and aphids has been reported spray Acetamiprid 5 gm /10 liters of water. Under present weather condition spray Hexaconazole 15 ml/10 liters of water to prevent blight and powdery mildew infestation. 
Coriander	Growth/flowering	Thrips and Jassids	To control sucking pest spray neem seed extract 5 % or neem seed oil 50 ml and 15 gm Acepahte in 10 litres of water. Also spray Mencozeb 27 gm in 10 litres of water at 10 days interval as precautionary measure against blight disease.

Wheat	Tillering	Broad leafy weeds 	At 30-35 days after sowing spray 20 ml 2-4-D ethyle easter or Metasulfuron 0.8 gm/10 liters of water to control broad leafy weeds in wheat crop.
Cotton	Picking & pulling of cotton stalk	Heavy aatack of pink boll worm observed in cotton field. Carry out picking in time. 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 stalksbut, recycle the stalk by thedoin 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. 	
Castor	Flowering/ capsule formation	Jassids& white fly→ Pod borer	Spray Acetamiprid 20 % SP@ 5.0 gmOR 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. 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/dev elopment	Pod fly	<ul style="list-style-type: none"> • Spray neem seed extract 5 % or neem seed oil 50 ml in 10 litres of water. • If infestation cross ETL spray 20 ml Quinalphos or 5 ml Dichlorvos in 10 litres of water.
Onion	Growth	Thrips 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. . Make alternate spray of Mencozeb 25 gm and hexaconazole 15 ml in 10 liters of water at 10 days interval.
Brinjal& Tomato	Flowering/ fruiting	Sucking pest →	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

		<p>Shoot & Fruit borer</p>  <p>Mites</p>	<p>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 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 Ethion 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. 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. Carry out Brucella and other infectious & reproductive diseases evaluation. Provide ad lib warm water to lactating animals. Keep young calves indoors during night time to avoid cold stress. 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. Avoid transportation of poultry birds during noon time. Put curtains on west side of poultry house.</p>		

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



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Agro met Advisory Service bulletin No.-77 for the Morbi district
 (Issued jointly by DFERS, J.A.U., Targhadia (Rajkot) and India Meteorological Department)
 (Period 25 to 29-December- 2019)





Weather forecast until 08-30 hrs. of 29/12/2019



(2) MORBI DISTRICT:






	25/12/19	26/12/19	27/12/19	28/12/19	29/12/19
Rainfall (mm)	0	0	0	0	0
Max. Temp.(°C)	30	29	28	28	28
Min. Temp.(°C)	15	14	13	13	13
Total CC (octa)	6	2	0	0	0
RH-I (%)	68	65	46	34	37
RH-II (%)	41	32	26	24	25
Wind Speed (kmph)	14	12	14	13	13
Wind Direction(deg.)	31	38	53	63	58

Agro meteorological Advisories:-

General Advice	<ul style="list-style-type: none"> • Rain fall: Dry and Mainly clear to clear weather forecasted next five days. • Temperature: Maximum and minimum temperature likely to be in range of 28-30°C and 13-15°C, respectively. • Relative Humidity: The RH-I and RH-II is likely to be in the range of 34-68% & 24-41, respectively. • Wind Direction and Speed: Direction and speed of wind is likely to be NE and 12-14 km/h, respectively. • Carry out weeding in rabi crops as per needs. 		
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 leaf blight disease infestation in garlic spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure.</p> <p>Do not over irrigate to prevent leaf blight</p>

			disease.
Chick pea	Branching/flowering	Monitor the crop regularly for prodenia and heliothes infestation 	Under present weather condition heliothes infestation observed in chickpea. So, Monitor the crop regularly for heliothes and prodenia infestation. <ul style="list-style-type: none"> • “T” shaped bird perches in and around crop field to be installed for natural controlling the insect population. • Spray neem seed extract 5 % or neem seed oil 50 ml in 10 litres of water. • If infestation cross ETL spray 3 ml Spinosad in 10 liters of water. • Also to prevent blight disease infestation spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure. • Irrigate gram crop at flowering stage.
Cumin	Germination/growth	Aphid and thrips Blight and Powery mildew 	Under present weather condition attack of thrips and aphids has been reported spray Acetamiprid 5 gm /10 liters of water. Under present weather condition spray Hexaconazole 15 ml/10 liters of water to prevent blight and powdery mildew infestation. 
Coriander	Growth/flowering	Thrips and Jassids	To control sucking pest spray neem seed extract 5 % or neem seed oil 50 ml and 15 gm Acepahte in 10 litres of water. Also spray Mencozeb 27 gm in 10 litres of water at 10 days interval as precautionary measure against blight disease.
Wheat	Tillering	Broad leafy weeds 	At 30-35 days after sowing spray 20 ml 2-4-D ethyle easter or Metasulfuron 0.8 gm/10 liters of water to control broad leafy weeds in wheat crop.

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 stalksbut, 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	<p>Jassids& white fly→</p> <p>Pod borer</p>	<p>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.</p> <p>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.</p>
Pigeon pea	Flowering/pod formation/dev elopment	Pod fly	<ul style="list-style-type: none"> • Spray neem seed extract 5 % or neem seed oil 50 ml in 10 litres of water. • If infestation cross ETL spray 20 ml Quinalphos or 5 ml Dichlorvos in 10 litres of water.
Onion	Growth	<p>Thrips</p> <p>Purple blotch →</p> 	<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>Make alternate spray of Mencozeb 25 gm and hexaconazole 15 ml in 10 liters of water at 10 days interval.</p>
Brinjal& Tomato	Flowering/ fruiting	<p>Sucking pest→</p> <p>Shoot &Fruit borer</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</p>

		 <p>Mites</p>	<p>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 Ethion 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 streptocyclin1.5 gm in 10 litre of water.</p> <p>Spray Dichlorvos 10 ml or Quinalphos 20 ml in 10 litres of water for control of leafminor.</p>
Livestock & poultry	 <p>Spray Deltamethrin or Amitraz 2 ml/litre of water for the control of tick. Carry out Brucella and other infectious & reproductive diseases evaluation. Provide ad lib warm water to lactating animals. Keep young calves indoors during night time to avoid cold stress. 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. Avoid transportation of poultry birds during noon time. Put curtains on west side of poultry house.</p>		

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Agro met Advisory Service bulletin No.-77 for the Jamnagar district

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


(Period 25 to 29-December- 2019)





Weather forecast until 08-30 hrs. of 29/12/2019



(3) JAMNAGAR DISTRICT:






	25/12/19	26/12/19	27/12/19	28/12/19	29/12/19
Rainfall (mm)	0	0	0	0	0
Max. Temp.(°C)	30	30	29	29	29
Min. Temp.(°C)	16	16	16	16	16
Total CC (octa)	5	2	0	1	1
RH-I (%)	54	58	50	42	45
RH-II (%)	37	38	34	26	24
Wind Speed (kmph)	21	22	19	18	17
Wind Direction(deg.)	24	35	49	47	35

Agro meteorological Advisories:-

General Advice	<ul style="list-style-type: none"> • Rain fall: Dry and Mainly clear to clear weather forecasted next five days. • Temperature: Maximum and minimum temperature likely to be in range of 29-30°C and 16-16°C, respectively. • Relative Humidity: The RH-I and RH-II is likely to be in the range of 42-58% & 24-38, respectively. • Wind Direction and Speed: Direction and speed of wind is likely to be NE and 17-22 km/h, respectively. • Carry out weeding in rabi crops as per needs. 		
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 leaf blight disease infestation in garlic spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure.</p> <p>Do not over irrigate to prevent leaf blight</p>

			disease.
Chick pea	Branching/flowering	Monitor the crop regularly for prodenia and heliothes infestation 	Under present weather condition heliothes infestation observed in chickpea. So, Monitor the crop regularly for heliothes and prodenia infestation. <ul style="list-style-type: none"> • “T” shaped bird perches in and around crop field to be installed for natural controlling the insect population. • Spray neem seed extract 5 % or neem seed oil 50 ml in 10 litres of water. • If infestation cross ETL spray 3 ml Spinosad in 10 liters of water. • Also to prevent blight disease infestation spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure. • Irrigate gram crop at flowering stage.
Cumin	Germination/growth	Aphid and thrips Blight and Powery mildew 	Under present weather condition attack of thrips and aphids has been reported spray Acetamiprid 5 gm /10 liters of water. Under present weather condition spray Hexaconazole 15 ml/10 liters of water to prevent blight and powdery mildew infestation. 
Coriander	Growth/flowering	Thrips and Jassids	To control sucking pest spray neem seed extract 5 % or neem seed oil 50 ml and 15 gm Acepahte in 10 litres of water. Also spray Mencozeb 27 gm in 10 litres of water at 10 days interval as precautionary measure against blight disease.
Wheat	Tillering	Broad leafy weeds 	At 30-35 days after sowing spray 20 ml 2-4-D ethyle easter or Metasulfuron 0.8 gm/10 liters of water to control broad leafy weeds in wheat crop.

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 stalksbut, 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	<p>Jassids& white fly→</p> <p>Pod borer</p>	<p>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.</p> <p>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.</p>
Pigeon pea	Flowering/pod formation/dev elopment	Pod fly	<ul style="list-style-type: none"> • Spray neem seed extract 5 % or neem seed oil 50 ml in 10 litres of water. • If infestation cross ETL spray 20 ml Quinalphos or 5 ml Dichlorvos in 10 litres of water.
Onion	Growth	<p>Thrips</p> <p>Purple blotch →</p> 	<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>Make alternate spray of Mencozeb 25 gm and hexaconazole 15 ml in 10 liters of water at 10 days interval.</p>
Brinjal& Tomato	Flowering/ fruiting	<p>Sucking pest→</p> <p>Shoot &Fruit borer</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</p>

		 <p>Mites</p>	<p>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 Ethion 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 streptocyclin1.5 gm in 10 litre of water.</p> <p>Spray Dichlorvos 10 ml or Quinalphos 20 ml in 10 litres of water for control of leafminor.</p>
Livestock & poultry	 <p>Spray Deltamethrin or Amitraz 2 ml/litre of water for the control of tick. Carry out Brucella and other infectious & reproductive diseases evaluation. Provide ad lib warm water to lactating animals. Keep young calves indoors during night time to avoid cold stress. 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.Avoid transportation of poultry birds during noon time. Put curtains on west side of poultry house.</p>		

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Agro met Advisory Service bulletin No.-77 for the Devbhumi Dwarka district

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


(Period 25 to 29-December- 2019)





Weather forecast until 08-30 hrs. of 29/12/2019



(4) DEVBHUMI DWARKA DISTRICT:






	25/12/19	26/12/19	27/12/19	28/12/19	29/12/19
Rainfall (mm)	0	0	0	0	0
Max. Temp.(°C)	28	28	27	27	27
Min. Temp.(°C)	18	18	18	18	18
Total CC (octa)	5	2	0	2	1
RH-I (%)	55	58	51	44	47
RH-II (%)	35	36	34	23	22
Wind Speed (kmph)	21	21	18	17	15
Wind Direction(deg.)	25	41	52	49	38

Agro meteorological Advisories:-

General Advice	<ul style="list-style-type: none"> • Rain fall: Dry and Mainly clear to clear weather forecasted next five days. • Temperature: Maximum and minimum temperature likely to be in range of 27-28°C and 18-18°C, respectively. • Relative Humidity: The RH-I and RH-II is likely to be in the range of 44-58% & 22-36, respectively. • Wind Direction and Speed: Direction and speed of wind is likely to be NE and 15-21 km/h, respectively. • Carry out weeding in rabi crops as per needs. 		
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 leaf blight disease infestation in garlic spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure.</p> <p>Do not over irrigate to prevent leaf blight</p>

			disease.
Chick pea	Branching/flowering	Monitor the crop regularly for prodenia and heliothes infestation 	Under present weather condition heliothes infestation observed in chickpea. So, Monitor the crop regularly for heliothes and prodenia infestation. <ul style="list-style-type: none"> • “T” shaped bird perches in and around crop field to be installed for natural controlling the insect population. • Spray neem seed extract 5 % or neem seed oil 50 ml in 10 litres of water. • If infestation cross ETL spray 3 ml Spinosad in 10 liters of water. • Also to prevent blight disease infestation spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure. • Irrigate gram crop at flowering stage.
Cumin	Germination/growth	Aphid and thrips Blight and Powery mildew 	Under present weather condition attack of thrips and aphids has been reported spray Acetamiprid 5 gm /10 liters of water. Under present weather condition spray Hexaconazole 15 ml/10 liters of water to prevent blight and powdery mildew infestation. 
Coriander	Growth/flowering	Thrips and Jassids	To control sucking pest spray neem seed extract 5 % or neem seed oil 50 ml and 15 gm Acepahte in 10 litres of water. Also spray Mencozeb 27 gm in 10 litres of water at 10 days interval as precautionary measure against blight disease.
Wheat	Tillering	Broad leafy weeds 	At 30-35 days after sowing spray 20 ml 2-4-D ethyle easter or Metasulfuron 0.8 gm/10 liters of water to control broad leafy weeds in wheat crop.

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 stalksbut, 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 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.</p> <p>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.</p>
Pigeon pea	Flowering/pod formation/dev elopment	Pod fly	<ul style="list-style-type: none"> • Spray neem seed extract 5 % or neem seed oil 50 ml in 10 litres of water. • If infestation cross ETL spray 20 ml Quinalphos or 5 ml Dichlorvos in 10 litres of water.
Onion	Growth	Thrips 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>Make alternate spray of Mencozeb 25 gm and hexaconazole 15 ml in 10 liters of water at 10 days interval.</p>
Brinjal& Tomato	Flowering/ fruiting	<p>Sucking pest→</p> <p>Shoot &Fruit borer</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</p>

		 <p>Mites</p>	<p>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 Ethion 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 streptocyclin1.5 gm in 10 litre of water.</p> <p>Spray Dichlorvos 10 ml or Quinalphos 20 ml in 10 litres of water for control of leafminor.</p>
Livestock & poultry	 <p>Spray Deltamethrin or Amitraz 2 ml/litre of water for the control of tick. Carry out Brucella and other infectious & reproductive diseases evaluation. Provide ad lib warm water to lactating animals. Keep young calves indoors during night time to avoid cold stress. 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. Avoid transportation of poultry birds during noon time. Put curtains on west side of poultry house.</p>		

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Agro met Advisory Service bulletin No.-77 for the Amreli district

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


(Period 25 to 29-December- 2019)





Weather forecast until 08-30 hrs. of 29/12/2019



(5) AMRELI DISTRICT:






	25/12/19	26/12/19	27/12/19	28/12/19	29/12/19
Rainfall (mm)	0	0	0	0	0
Max.Temp.(°C)	30	29	28	28	29
Min.Temp.(°C)	15	15	14	14	14
Total CC (octa)	4	5	1	1	1
RH-I (%)	58	57	55	40	38
RH-II (%)	34	34	30	27	27
Wind Speed (kmph)	16	17	17	18	19
Wind Direction(deg.)	60	17	23	20	64

Agro meteorological Advisories:

General Advice	<ul style="list-style-type: none"> • Rain fall: Dry and mainly clear to partly cloudy weather forecasted next five days. • Temperature: Maximum and minimum temperature likely to be in range of 28-30°C and 14-15°C, respectively. • Relative Humidity: The RH-I and RH-II is likely to be in the range of 38-58% & 27-34, respectively. • Wind Direction and Speed: Direction and speed of wind is likely to be NE, N and 16-19 km/h, respectively. • Carry out weeding in rabi crops as per needs. 		
Crops	Stage	Insect/Pest/ Variety	Advisory
Garlic	Growing	Thrips and  Alternaria leaf	<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 leaf blight disease infestation in garlic spray Mencozeb 27 gm in 10 liters of water at 10 days</p>

		blight	interval as precautionary measure. Do not over irrigate to prevent leaf blight disease.
Chick pea	Branching/flowering	Monitor the crop regularly for prodenia and heliothes infestation 	Under present weather condition heliothes infestation observed in chickpea. So, Monitor the crop regularly for heliothes and prodenia infestation. <ul style="list-style-type: none"> • “T” shaped bird perches in and around crop field to be installed for natural controlling the insect population. • Spray neem seed extract 5 % or neem seed oil 50 ml in 10 litres of water. • If infestation cross ETL spray 3 ml Spinosad in 10 liters of water. • Also to prevent blight disease infestation spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure. • Irrigate gram crop at flowering stage.
Cumin	Germination/growth	Aphid and thrips Blight and Powery mildew 	Under present weather condition attack of thrips and aphids has been reported spray Acetamiprid 5 gm /10 liters of water. Under present weather condition spray Hexaconazole 15 ml/10 liters of water to prevent blight and powdery mildew infestation. 
Coriander	Growth/flowering	Thrips and Jassids	To control sucking pest spray neem seed extract 5 % or neem seed oil 50 ml and 15 gm Acepahte in 10 litres of water. Also spray Mencozeb 27 gm in 10 litres of water at 10 days interval as precautionary measure against blight disease.
Wheat	Tillering	Broad leafy weeds 	At 30-35 days after sowing spray 20 ml 2-4-D ethyle easter or Metasulfuron 0.8 gm/10 liters of water to control broad leafy weeds in wheat crop.

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 stalksbut, 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	<p>Jassids& white fly→</p> <p>Pod borer</p>	<p>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.</p> <p>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.</p>
Pigeon pea	Flowering/pod formation/dev elopment	Pod fly	<ul style="list-style-type: none"> • Spray neem seed extract 5 % or neem seed oil 50 ml in 10 litres of water. • If infestation cross ETL spray 20 ml Quinalphos or 5 ml Dichlorvos in 10 litres of water.
Onion	Growth	<p>Thrips</p> <p>Purple blotch →</p> 	<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>Make alternate spray of Mencozeb 25 gm and hexaconazole 15 ml in 10 liters of water at 10 days interval.</p>
Brinjal& Tomato	Flowering/ fruiting	<p>Sucking pest→</p> <p>Shoot &Fruit borer</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</p>

		 <p>Mites</p>	<p>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 Ethion 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 leafminor.</p>
Livestock & poultry	 <p>Spray Deltamethrin or Amitraz 2 ml/litre of water for the control of tick. Carry out Brucella and other infectious & reproductive diseases evaluation. Provide ad lib warm water to lactating animals. Keep young calves indoors during night time to avoid cold stress. 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. Avoid transportation of poultry birds during noon time. Put curtains on west side of poultry house.</p>		

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Agro met Advisory Service bulletinNo.-77 for the Surendranagar district

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

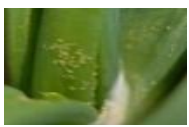
(Period 25 to 29-December- 2019)





Weather forecast until 08-30 hrs of 29/12/2019



(6) SURENDRANAGAR DISTRICT:






	25/12/19	26/12/19	27/12/19	28/12/19	29/12/19
Rainfall (mm)	0	0	0	0	0
Max.Temp.(°C)	30	29	28	28	28
Min.Temp.(°C)	15	14	13	13	13
Total CC (octa)	5	1	0	0	0
RH-I (%)	60	65	51	31	36
RH-II (%)	34	34	29	20	22
Wind Speed (kmph)	13	14	14	14	14
Wind Direction(deg.)	36	34	60	51	42

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 28-30°C and 13-15°C, respectively. • Relative Humidity: The RH-I and RH-II is likely to be in the range of 31-65% & 20-34, respectively. • Wind Direction and Speed: Direction and speed of wind is likely to be NE and 13-14 km/h, respectively. • Carry out weeding in rabi crops as per needs. 		
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 leaf blight disease infestation in garlic spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure.</p> <p>Do not over irrigate to prevent leaf blight</p>

			disease.
Chick pea	Branching/flowering	Monitor the crop regularly for prodenia and heliothes infestation 	Under present weather condition heliothes infestation observed in chickpea. So, Monitor the crop regularly for heliothes and prodenia infestation. <ul style="list-style-type: none"> • “T” shaped bird perches in and around crop field to be installed for natural controlling the insect population. • Spray neem seed extract 5 % or neem seed oil 50 ml in 10 litres of water. • If infestation cross ETL spray 3 ml Spinosad in 10 liters of water. • Also to prevent blight disease infestation spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure. • Irrigate gram crop at flowering stage.
Cumin	Germination/growth	Aphid and thrips Blight and Powery mildew 	Under present weather condition attack of thrips and aphids has been reported spray Acetamiprid 5 gm /10 liters of water. Under present weather condition spray Hexaconazole 15 ml/10 liters of water to prevent blight and powdery mildew infestation. 
Coriander	Growth/flowering	Thrips and Jassids	To control sucking pest spray neem seed extract 5 % or neem seed oil 50 ml and 15 gm Acepahte in 10 litres of water. Also spray Mencozeb 27 gm in 10 litres of water at 10 days interval as precautionary measure against blight disease.
Wheat	Tillering	Broad leafy weeds 	At 30-35 days after sowing spray 20 ml 2-4-D ethyle easter or Metasulfuron 0.8 gm/10 liters of water to control broad leafy weeds in wheat crop.

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 stalksbut, 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	<p>Jassids& white fly→</p> <p>Pod borer</p>	<p>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.</p> <p>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.</p>
Pigeon pea	Flowering/pod formation/dev elopment	Pod fly	<ul style="list-style-type: none"> • Spray neem seed extract 5 % or neem seed oil 50 ml in 10 litres of water. • If infestation cross ETL spray 20 ml Quinalphos or 5 ml Dichlorvos in 10 litres of water.
Onion	Growth	<p>Thrips</p> <p>Purple blotch →</p> 	<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>Make alternate spray of Mencozeb 25 gm and hexaconazole 15 ml in 10 liters of water at 10 days interval.</p>
Brinjal& Tomato	Flowering/ fruiting	<p>Sucking pest→</p> <p>Shoot &Fruit borer</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</p>

		 <p>Mites</p>	<p>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 Ethion 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 streptocyclin1.5 gm in 10 litre of water.</p> <p>Spray Dichlorvos 10 ml or Quinalphos 20 ml in 10 litres of water for control of leafminor.</p>
Livestock & poultry	 <p>Spray Deltamethrin or Amitraz 2 ml/litre of water for the control of tick. Carry out Brucella and other infectious & reproductive diseases evaluation. Provide ad lib warm water to lactating animals. Keep young calves indoors during night time to avoid cold stress. 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. Avoid transportation of poultry birds during noon time. Put curtains on west side of poultry house.</p>		

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