



ગ્રામીણ કૃષિ મૌસમ સેવા

હવામાન આગાહી આધારીત કૃષિસલાહ બુલેટીન

ઉત્તર સૌરાષ્ટ્ર ખેત આબોહવાકીય વિભાગ

તા.૧૦-૦૭-૨૦૧૯ થી તા.૧૪-૦૭-૨૦૧૯



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

કૃષિહવામાન બુલેટીન નં. ૨૯/૨૦૧૯

પાછલા અઠવાડિયાનું રાજકોટનું હવામાન

હવામાન પરિબલો	
વરસાદ(મી.મી)	0.0
મહત્તમ તાપમાન (સે.ગ્રે)	36.0-36.8
લઘુત્તમ તાપમાન (સે.ગ્રે)	26.0-26.7
ભેજ(%) સવાર	75-86
ભેજ(%) બપોરબાદ	48-51
પવનની ગતિ (કિમી/કલાક)	8.7-10.4

હવામાન આગાહી: પત્રક-ક

ઉત્તરસૌરાષ્ટ્ર ખેત આબોહવાકીય વિભાગ-હવામાન આગાહી

તા.૧૦-૦૭-૨૦૧૯ થી ૧૪-૦૭-૨૦૧૯

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.૧૦-૦૭-૨૦૧૯ થી તા.૧૪-૦૭-૨૦૧૯ દરમિયાન હવામાન ગરમ, ભેજવાળું અને વાદળછાયું રહેશે. પવનની દિશા નૈઋત્યની રહેવાની અને પવનની ઝડપ ૨૮ થી ૩૬ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમિયાન ૩૪-૩૬ ડીગ્રી સેલ્શિયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમિયાન ૨૭-૨૭ ડીગ્રી સેલ્શિયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૧૦-૦૭-૧૯	૧૧-૦૭-૧૯	૧૨-૦૭-૧૯	૧૩-૦૭-૧૯	૧૪-૦૭-૧૯
વરસાદ(મી.મી)	0	0	0	0	0
મહત્તમતાપમાન (સે.ગ્રે)	36	35	34	34	34
લઘુત્તમતાપમાન (સે.ગ્રે)	27	27	27	27	27

વાદળનીસ્થિતિ(ઓકટા)	7	8	5	6	8
મહતમભેજ(%) સવાર	70	72	73	71	72
લઘુતમભેજ (%) બપોરબાદ	44	54	51	47	57
પવનનીગતિ(કિમી/કલાક)	31	32	31	28	36
પવનનીદિશા(ડીગ્રી)	240	243	236	232	241

મોરબી: જુલ્લામાં આગામી તા.૧૦-૦૭-૨૦૧૯ થી તા.૧૪-૦૭-૨૦૧૯ દરમ્યાન હવામાન ગરમ, ભેજવાળું અને વાદળછાયું રહેશે. પવનની દિશા નૈઋત્યની રહેવાની અને પવનની ઝડપ **૧૯ થી ૨૫ કીમી/કલાક** રહેવાની શક્યતા છે. આ સમય ગાળામાં મહતમ તાપમાન દિવસ દરમ્યાન **૩૪-૩૬** ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુતમ તાપમાન રાત્રી દરમ્યાન **૨૭-૨૭** ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૧૦-૦૭-૧૯	૧૧-૦૭-૧૯	૧૨-૦૭-૧૯	૧૩-૦૭-૧૯	૧૪-૦૭-૧૯
વરસાદ(મી.મી)	0	0	0	0	0
મહતમતાપમાન (સે.ગ્રે)	36	35	34	34	34
લઘુતમતાપમાન (સે.ગ્રે)	27	27	27	27	27
વાદળનીસ્થિતિ(ઓકટા)	5	8	5	7	8
મહતમભેજ(%) સવાર	81	79	79	79	76
લઘુતમભેજ (%) બપોરબાદ	53	54	53	53	51
પવનનીગતિ(કિમી/કલાક)	19	21	22	21	25
પવનનીદિશા(ડીગ્રી)	233	236	235	226	240

જામનગર: જુલ્લામાં આગામી તા.૧૦-૦૭-૨૦૧૯ થી તા.૧૪-૦૭-૨૦૧૯ દરમ્યાન હવામાન ગરમ, ભેજવાળું અને વાદળછાયું રહેશે. પવનની દિશા નૈઋત્યની રહેવાની અને પવનની ઝડપ **૩૨ થી ૩૮ કીમી/કલાક** રહેવાની શક્યતા છે. આ સમય ગાળામાં મહતમ તાપમાન દિવસ દરમ્યાન **૩૬-૩૮** ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુતમ તાપમાન રાત્રી દરમ્યાન **૨૯-૨૯** ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૧૦-૦૭-૧૯	૧૧-૦૭-૧૯	૧૨-૦૭-૧૯	૧૩-૦૭-૧૯	૧૪-૦૭-૧૯
વરસાદ(મી.મી)	0	0	0	0	0
મહતમતાપમાન (સે.ગ્રે)	38	37	36	36	36
લઘુતમતાપમાન (સે.ગ્રે)	29	29	29	29	29
વાદળનીસ્થિતિ(ઓકટા)	7	8	6	6	8
મહતમભેજ(%) સવાર	77	78	78	77	78
લઘુતમભેજ (%) બપોરબાદ	61	68	64	64	70

પવનનીગતિ(કિમી/કલાક)	34	36	33	32	38
પવનનીદિશા(ડીગ્રી)	240	242	236	231	240

દેવભૂમિ દ્વારકા: જીલ્લામાં આગામી તા.૧૦-૦૭-૨૦૧૯ થી તા.૧૪-૦૭-૨૦૧૯ દરમ્યાન હવામાન ગરમ, ભેજવાળું અને વાદળછાયું રહેશે. પવનની દિશા નૈઋત્યની રહેવાની અને પવનની ઝડપ **૩૧ થી ૩૭ કીમી/કલાક** રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન **૩૨-૩૪** ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન **૨૯-૨૯** ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૧૦-૦૭-૧૯	૧૧-૦૭-૧૯	૧૨-૦૭-૧૯	૧૩-૦૭-૧૯	૧૪-૦૭-૧૯
વરસાદ(મી.મી)	0	0	0	0	0
મહત્તમતાપમાન (સે.ગ્રે)	34	33	32	32	32
લઘુત્તમતાપમાન (સે.ગ્રે)	29	29	29	29	29
વાદળનીસ્થિતિ(ઓકટા)	7	8	6	6	8
મહત્તમભેજ(%) સવાર	77	77	78	78	79
લઘુત્તમભેજ (%) બપોરબાદ	59	66	62	64	70
પવનનીગતિ(કિમી/કલાક)	33	35	31	31	37
પવનનીદિશા(ડીગ્રી)	240	242	236	231	240

અમરેલી: જીલ્લામાં આગામી તા.૧૦-૦૭-૨૦૧૯ થી તા.૧૪-૦૭-૨૦૧૯ દરમ્યાન હવામાન ગરમ, ભેજવાળું અને વાદળછાયું રહેશે. તા. ૧૦ થી ૧૪-જુલાઈ ના રોજ હળવો વરસાદ થવાની શક્યતા છે. પવનની દિશા નૈઋત્યની રહેવાની અને પવનની ઝડપ **૨૩ થી ૩૨ કીમી/કલાક** રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન **૩૩-૩૪** ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન **૨૭-૨૭** ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૧૦-૦૭-૧૯	૧૧-૦૭-૧૯	૧૨-૦૭-૧૯	૧૩-૦૭-૧૯	૧૪-૦૭-૧૯
વરસાદ(મી.મી)	3	3	3	3	3
મહત્તમતાપમાન (સે.ગ્રે)	34	34	33	34	34
લઘુત્તમતાપમાન (સે.ગ્રે)	27	27	26	27	27
વાદળનીસ્થિતિ(ઓકટા)	6	7	7	7	8
મહત્તમભેજ(%) સવાર	77	78	79	76	76
લઘુત્તમભેજ(%) બપોરબાદ	56	59	58	55	59
પવનનીગતિ(કિમી/કલાક)	24	26	25	23	32
પવનનીદિશા(ડીગ્રી)	244	243	235	237	242


સુરેન્દ્રનગર: જીલ્લામાં આગામી તા.૧૦-૦૭-૨૦૧૯ થી તા.૧૪-૦૭-૨૦૧૯ દરમ્યાન હવામાન ગરમ, ભેજવાળું અને વાદળાયું રહેશે. પવનની દિશા નૈઋત્યની રહેવાની અને પવનની ઝડપ **૨૭ થી ૩૫ કીમી/કલાક** રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન **૩૪-૩૬** ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન **૨૭-૨૭** ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.



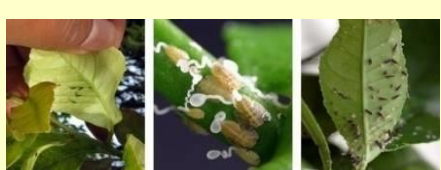

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૧૦-૦૭-૧૯	૧૧-૦૭-૧૯	૧૨-૦૭-૧૯	૧૩-૦૭-૧૯	૧૪-૦૭-૧૯
વરસાદ(મી.મી)	૦	૦	૦	૦	૦
મહત્તમતાપમાન (સે.ગ્રે)	૩૬	૩૫	૩૪	૩૪	૩૪
લઘુત્તમતાપમાન (સે.ગ્રે)	૨૭	૨૭	૨૭	૨૭	૨૭
વાદળનીસ્થિતિ(ઓકટા)	૭	૮	૬	૭	૮
મહત્તમભેજ(%) સવાર	૭૦	૭૦	૭૧	૬૯	૭૦
લઘુત્તમભેજ(%) બપોરબાદ	૪૩	૫૨	૫૦	૪૬	૫૫
પવનનીગતિ(કીમી/કલાક)	૨૯	૩૨	૩૦	૨૭	૩૫
પવનનીદિશા(ડીગ્રી)	૨૩૮	૨૪૧	૨૩૪	૨૨૮	૨૩૯

- **૧૦ થી ૧૪-જુલાઈ -૨૦૧૯** હવામાન ગરમ, ભેજવાળું અને વાદળાયું રહેશે. અમરેલી જીલ્લામાં તા. ૧૦ થી ૧૪ ના રોજ હળવો વરસાદ થવાની શક્યતા છે. પવનની દિશા નૈઋત્યની મોટાભાગે રહેવાની અને પવનની ઝડપ **૧૯ થી ૩૭ કીમી/કલાક** રહેવાની શક્યતા છે. આ સમયગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન **૩૨-૩૬** ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન **૨૭-૨૯** ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.
- વરસાદ ખેંચાયેલ હોય જમીનમાં ભેજ જળવાય રહે તે માટે આંતરખેડ અને નિંદામણ કરવું.
- તલ, બાજરી અને કઠોળ પાકોમાં પારવણી કાર્ય કરવું.
- વરસાદની શક્યતા ન હોય શાકભાજી પાકોને પિયત આપવું.
- વધારાના વરસાદી પાણીના નિકાલની વ્યવસ્થા કરવી અને તેનો ચેકડેમ,તળાવ, ખેતતલાવડીમાં સંગ્રહ કરવો.

• આગામી ત્રણ અઠવાડિયા સૌરાષ્ટ્ર વિસ્તારમાં વરસાદની શક્યતા ઓછી.

મુખ્ય પાક	પાક અવસ્થા	રોગ/જીવાત/જાત	કૃષિ સલાહ (૧૦ લીટર પાણીમાં મિશ્ર કરી ભલામણ કરેલ દવા છાંટવી)
મગફળી	વૃદ્ધિ	-	<ul style="list-style-type: none"> જમીનમાં લેજ જળવાય રહે તે માટે આંતરખેડ અને નિંદામણ કરવું.
કપાસ	વૃદ્ધિ	-	<ul style="list-style-type: none"> જમીનમાં લેજ જળવાય રહે તે માટે આંતરખેડ અને નિંદામણ કરવું.
તલ	વૃદ્ધિ	-	<ul style="list-style-type: none"> પારવણી કાર્ય સમયસર કરવું. જમીનમાં લેજ જળવાય રહે તે માટે આંતરખેડ અને નિંદામણ કરવું.
બાજરી	વૃદ્ધિ	-	<ul style="list-style-type: none"> પારવણી કાર્ય સમયસર કરવું. જમીનમાં લેજ જળવાય રહે તે માટે આંતરખેડ અને નિંદામણ કરવું.
કઠોળ પાકો	વૃદ્ધિ	-	<ul style="list-style-type: none"> પારવણી કાર્ય સમયસર કરવું. જમીનમાં લેજ જળવાય રહે તે માટે આંતરખેડ અને નિંદામણ કરવું.
જુવાર/ મકાઈ	વૃદ્ધિ	-	<p>૨૫-૩૦ દિવસની જુવારમાં ચુરીયા ૮૬ કી.ગ્રા./હે આપવું. તેમજ સાંઠાની માખીનો ઉપદ્રવનું સતત નિરીક્ષણ કરતા રહેવું. જરૂર જણાયે વધુ ઉપદ્રવ હોય તો ઈમીડાક્લોપ્રીડ ૩૦.૫ ટકા ૫ મીલી અને લીંબોળીનું તેલ ૫૦ મીલી અથવા લીંબોળીના મીંજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી/૧૦ લિટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો.</p> <p>મકાઈના પાકમાં ફોલ આર્મી વર્મનો ઉપદ્રવ હોય એમામેક્ટીન બેન્ઝોએટ ૭ ગ્રામ પ્રતિ ૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો.</p>
ભીંડા	ફૂલ/ફળ	સફેમાખી, પાન કથીરી	<p>થ્રીપ્સના નિયંત્રણ માટે લીંબોળીનું તેલ ૫૦ મિલિ અથવા લીંબોળીના મીંજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી અને ઈમીડાક્લોપ્રીડ ૩૦.૫ ટકા ૪ મિલી અથવા ટ્રાયઝોફોસ ૪૦ ઈસી ૨૫ મિ.લી. દવાને ૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો.</p> <p>જો પાન કથીરીનો ઉપદ્રવ હોય તો ઈથીઓન ૩૦ મિલી પ્રતિ પંપ છંટકાવ કરવો.</p> <p>ભીંડાની વીણી બાદ પ્રતિ એકરે ૫-૭ કી.ગ્રા. ચુરિઆ ખાતર આપવું.</p>
શાકભાજી	ઘરું ઉછેર/રોપણી	મરચી,ટમેટી, રીંગણ, અને કોબીઝના ઘરું તૈયાર કરવા (ગ્રીન શેડ નેટમાં અને નેટની ઊંચાઈ ૬.૫ ફૂટ રાખવી) ગાદી ક્યારા બનાવી તેમાં બીજનું વાવેતર કરવું. જો ઘરું	

	વાવેતર	તૈયાર હોય તો મરચી,ટમેટી, રીંગણ, અને કોબીઝની વરસાદ થયે રોપણી કરવી. તુરિયા, કારેલા, દુધી, ગલકા,પરવળ, કાકડી, ગુવાર, ભીંડો, ચોળી, તુવેર, મૂળા,તાંદળજો, પાલકનું વાવેતર કરવું.		
તુરીયા	ફૂલ/ફળ	થ્રીપ્સ/ સફેદ માખી	ઉનાળુ શાકભાજીમાં સફેદમાખીના નિયંત્રણ માટે લીબોળીનું તેલ ૫૦ મિલિ અથવા લીબોળીના મીજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી અને ઈમીડાક્લોપ્રીડ ૩૦.૫ ટકા ૪ મિલી અથવા એસીટેમાપ્રીડ ૨૦ ટકા ૫ ગ્રામ દવાને ૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો.	
દૂધી		કથીરી તળછારો	જો પાન કથીરીનો ઉપદ્રવ હોય તો ઇથીઓન ૩૦ મિલી પ્રતિ પંપ છાન્કાવ કરવો.	
ગલકા			વેલાવાળા શાકભાજીમાં તળછારાના નિયંત્રણ માટે મેન્કોઝેબ ૪૦ ગ્રામ પ્રતિ પંપમાં મિશ્ર કરી છંટકાવ કરવો.	
કારેલા			વેલાવાળા શાકભાજી પાકોમાં હળવા અને ટુંકા અંતરે પિયત આપી યોગ્ય ભેજ જાળવવો જેથી પરાગનયન પ્રક્રિયા સારી રીતે થવાથી ઉત્પાદન સારું મળે.	
ગુવાર				
કાકડી				
રીંગણી અને ટમેટી	ફૂલ/ફળ	સફેદ માખી	<ul style="list-style-type: none"> લીબોળીનું તેલ ૫૦મિલિ અથવા લીબોળીના મીજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી ૧૦ લી. પાણીમાં મિશ્ર કરી છંટકાવ કરવો. જો વધુ ઉપદ્રવ હોય તો ટ્રાયઝોફોસ ૪૦ ઈ.સી. ૨૦ મી.લી. અથવા એસીટેમાપ્રીડ ૨૦ ટકા ૫ ગ્રામ/૧૦ લીટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો. 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 ૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો. રીંગણી અને ટમેટીના પાકમાં પાન કથીરીના નિયંત્રણ માટે પ્રોપરગાઈટ દવા ૧૦ મિલી/૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો. 	
મરચી	ફૂલ/ફળ	પાનની કુકડ-થ્રીપ્સ→ 	ટ્રાયઝોફોસ ૪૦ ઈ.સી. ૨૦ મી.લી. અથવા એસીટેમાપ્રીડ ૨૦ ટકા ૫ ગ્રામ અથવા પ્રોફેનોફોસ ૨૦ મી.લી.અને લીબોળીનું તેલ ૫૦ મીલી અથવા લીબોળીના મીજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી ૧૦ લી.પાણીમાં મિશ્ર કરી છંટકાવ કરવો. વાયરસના કારણે પીળા થઈ કુકડાય ગયેલ છોડ ઉપાડી તેનો	

		<p>પાનની કુકડ-</p>  <p>કથીરી</p>	<p>જમીનમાં દાટી નાશ કરવો. ત્યાં સફેદ માખીથી ફેલાતો હોવાથી તેના નિયંત્રણ માટે હોસ્ટાથીયોન દવા ૨૦ મી.લી./૧૦ લી. પાણીમાં મિશ્ર કરી છંટકાવ કરવો.</p> <p>જો પાન કથીરીનો ઉપદ્રવ હોય તો ઇથીઓન ૩૦ મિલી પ્રતિ પંપ છાન્કાવ કરવો.</p>
લીંબુ	ફળનો વિકાસ	<p>પાન કથીરી</p>  <p>સાયલા અને થીપ્સ</p>	<p>ઊંચા તાપમાનને કારણે 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 દ્રાવણ ૫૦૦ મીલી/૧૦ લિટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો. વધુ ઉપદ્રવ હોય તો ટ્રાયઓફોસ ૪૦ ટકા ૨૦/૧૦ લિટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો.</p> 
		<p>બદામી ટપકાં</p>	<p>બદામી ટપકાના નિયંત્રણ માટે કોપર ઓક્સીક્લોરાઈડ ૪૦ ગ્રામ અને ૧.૫ ગ્રામ સ્ટ્રેપ્ટોસાયક્લીનના બે છંટકાવ ૧૫ દિવસના ગળે કરવા.</p>
		<p>પાનકોરીયુ</p>	<p>પાનકોરીયુના નિયંત્રણ માટે ડીડીવીપી ૧૦ મી.લી. ૧૦ લિટર પાણીમાં મિશ્ર કરીને છાંટવી.</p>
પશુ/ મરઘા	<p>ઈતરડીના નિયંત્રણ માટે ડેલ્ટામેથ્રીન અથવા એમીટ્રાઝ ૨ મિ.લિ. એક લિટર પાણીમાં નાખીને છાંટવી. વિટામીન એ તથા ડી પુરકો આપવા. કરમિયાની દવા, ટી.બી. તથા જે.ડી ના રોગની પરખ કરાવવી. વરસાદના સમયે પશુઓને સુરક્ષીત જગ્યાએ રાખવા. ચોમાસા દરમિયાન જાનવરોને રહેઠાણની જગ્યાની વ્યવસ્થિત સફાઈ તેમજ માખીઓના ઉપદ્રવથી બચવા ફિનાઈલ છાંટવું. દુધાળા પ્રાણીઓને નિયમિત ૧ કિલો ફીડ + ૫૦ ગ્રામ ખનીજ તત્વોનું મિશ્રણ પ્રતિ ૨ લીટર દુધની ઉપજના પ્રમાણમાં આપવું. તેમજ</p> 		

લીલું ઘાસ + સૂકું ઘાસ + ખનીજ તત્વો ખોરાકમાં આપવા.
ખુલ્લામાં રાખેલ ઘાસસારો વરસાદથી બગડે નહિ તે માટે જરૂરી પગલા ભરવા.

જુક્યુ/ટેકનિકલ ઓફિસર.(સુખે)/એગ્રોમેટ/બુલેટીન/ /૨૦૧૯
તરઘડિયા(રાજકોટ), તારીખ: ૦૯/૦૭/૨૦૧૯.

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



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Agro met Advisory Service bulletin No.29-for the Rajkot district

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

(Period 10 to 14-July - 2019)

Significant past weather for the preceding week of Rajkot

Rainfall (mm)	0.0
Maximum temperature (°C)	36.0-36.8
Minimum temperature (°C)	26.0-26.7
Relative Humidity (%) I	75-86
Relative Humidity (%) II	48-51
Wind speed (Kmph)	8.7-10.4

Weather forecast until 08-30 hrs. of 14/07/2019


(1) RAJKOT DISTRICT:






	10/07/19	11/07/19	12/07/19	13/07/19	14/07/19
Rainfall (mm)	0	0	0	0	0
Max.Temp.(°C)	36	35	34	34	34
Min.Temp.(°C)	27	27	27	27	27
Total CC (octa)	7	8	5	6	8
RH-I (%)	70	72	73	71	72
RH-II (%)	44	54	51	47	57
Wind Speed (kmph)	31	32	31	28	36
Wind Direction(deg.)	240	243	236	232	241

Agro meteorological Advisories:

General Advice	<ul style="list-style-type: none">• Rain fall: hot, humid and generally cloudy to cloudy weather forecasted for next five days.• Temperature: Maximum and minimum temperature likely to be in range of 34-36°C and 27-27°C, respectively.• Relative Humidity: The RH-I and RH-II is likely to be in the range of 70-73% & 44-57, respectively.• Wind Direction and Speed: Direction and speed of wind is likely to be SW and 28-36 km/h, respectively.• Weather outlook for subsequent 3 weeks: Less chance of rainfall till 26th July in
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	<p>Rajkot, Amreli, Surendranagar, Jamnagar, Morabi and Devbhumi Dwarka district.</p> <ul style="list-style-type: none"> • Carry out interculturing operation for soil moisture conservation & removal of weed. • Carry out thinning in pearl millet, sesame and pulses crops in time. • Due to less chance of rainfall irrigate vegetable crops as per need. • Make provision to drain excess water from field, harvest and store it in reservoir. 		
Crops	Stage	Insect/Pest/ Variety	Advisory
Khariif groundnut	Early establishment	-	<ul style="list-style-type: none"> • Carry out interculturing operation for soil moisture conservation & removal of weed.
Cotton	Early establishment	-	<ul style="list-style-type: none"> • Carry out interculturing operation for soil moisture conservation & removal of weed.
Sesame	Thinning	-	<ul style="list-style-type: none"> • Carry out thinning in pearl millet, sesame and pulses crops in time. • Carry out interculturing operation for soil moisture conservation & removal of weed.
Pearl millet	Thinning	-	<ul style="list-style-type: none"> • Carry out thinning in pearl millet, sesame and pulses crops in time. • Carry out interculturing operation for soil moisture conservation & removal of weed.
Pulses	Thinning	-	<ul style="list-style-type: none"> • Carry out thinning in pearl millet, sesame and pulses crops in time. • Carry out interculturing operation for soil moisture conservation & removal of weed.
Fodder Sorghum & Maize	Growing	Sorghum-Gundari, GFS-4 & 5 Maize-African tall	<p>Apply supplementary dose of nitrogen at 30 DAS(Urea 87 Kg/ha). Also monitor the crop for shoot fly infestation and if require spray cypermethrin 25 EC 5 ml in 10 liters of water.</p> <p>Infestation of fall army worm observed in maize, so for control make spray of Emamectin Benzoate 5 sg</p>

			7 gram/10 litre of water,.
Vegetables	Nursery /Transplanting	Farmers are advised for preparation of nursery for tomato, chilli, brinjal and early cauliflower (maturing in the month of September). It is also advised to use shed nets, which helps in reducing vector borne diseases and produce healthy seedlings. Nursery should be covered by net at the height of 6.5 feet for protection against sunlight. Transplanting of brinjal, chilli and early cauliflower are advised for those farmers whose seedlings are ready.	
	Sowing	Farmers are advised for sowing of Cucurbits in rainy season. It is most suitable time to sow recommended hybrids/ varieties. Some popular hybrids are Bottle Gourd-Junagadh long tender , Pusa Naveen, PusaSamridhi Bitter Gourd- PusaVisesh, Pusa-2 mosumi, Pumpkin -PusaVisvash, PusaVikash Ridge Gourd -G.J.H-1, PusaChikni etc. Farmers are also advised for Sowing of ladyfinger, cluster bean, kidney bean, cowpea, tur, amaranthus etc.	
Lady finger	Flowering/ fruiting	White flies & mites	Spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with with Trizophos 40 % EC @ 25 ml or imidacloprid 30.5 SC 3 ml/10 lit of water for whiteflies control. Constant monitoring of lady finger crop against attack of mite is advised. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water is advised when sky remains clear. Due to prevailing high temperature, light irrigation at short interval is advised. After harvesting of mature okra application of urea @ 5-10 kg/ acre should be done.
Ridge gourd, Bottle gourd, Sponge guard, Bitter guard& cucurbitaceous crops	Flowering & fruiting	Thrips& white flies/ Mites Downy mildew	In all vegetable crops thrips infestation observed above ETL. Spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with acetamiprid 20 % SP@ 5.0 gm or imidacloprid 30.5 SC 3 ml/10 lit of water for whiteflies control. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water for the control of Mites. For the control of downy mildew spray mencozeb 40g/pump.
Cluster bean	Growing/fruiting	Thrips, white fly	To control them spray neem seed extract 500 ml or neem seed oil 50 or neem oil 40 ml and acetamiprid 20 % SP@ 5.0 gm / 10 lit of water at 15 days interval
Brinjal& Tomato	Flowering/ fruiting	Sucking pest → & Fruit borer 	To control sucking pest spray neem seed extract 5 % or neem seed oil 50 ml and To control them spray acetamiprid 20 % SP@ 5.0 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 Spinosad 3.0 ml/10 litre of water is advised against fruit borer.

<p>Chili</p>	<p>Flowering/ fruiting</p>	<p>Thrips→  Leaf curling Virus→  Mites</p>	<p>To control mite infestation spray propargite 57 % EC 10 ml/10 litre of water. In present weather conditions, rouging of viral infested crop should be done in chilli. Infected plants should be uprooted and buried in the soil. After rouging, spraying of Imidacloprid @ 5 ml per 10litre of water is advised for control the vector, when sky remains clear. Constant monitoring of the chilli crop against attack of mites is advised If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water</p>
<p>Lemon</p>	<p>Fruit development</p>	<p>Mite  Psylla and thrips  Citrus canker Leaf minor</p>	<p>Due to high temperature mites infestation in lemon orchard observed. To control mite infestation spray propargite 57 % EC 10/10 liter of water. To prevent damage of psylla&thrips spray imidacloprid 30.5 % 5 ml / 10 lit of water ml/10 lit of water. Spray copper oxychloride 40 gm or streptocyclie 1.5 gm in 10 litre of water Spray Dichlorvosh 10 ml or Quinalphos 20 ml in 10 litres of water for control of leafminor.</p>
<p>Livestock & poultry </p>	<p>Spray Deltamethrin or Amitraz 2 ml/litre of water for the control of tick. Deworming, T.B. and J.D. Testing should be done. Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. 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. Ensure regarding vaccination of animals for different diseases in rainy season. Spray phenyl in the animal shed to avoid fly's and mosquitoes. Due to chance of rainfall at isolated places keep animals indoors during rainfall. Keep fodder in safe place to avoid spoilage due to rainfall.</p>		

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



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Agro met Advisory Service bulletin No.-29 for the Morbi district

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

(Period 10 to 14-July- 2019)

Weather forecast until 08-30 hrs of 14/07/2019



(2) MORBI DISTRICT:


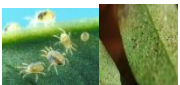


	10/07/19	11/07/19	12/07/19	13/07/19	14/07/19
Rainfall (mm)	0	0	0	0	0
Max.Temp.(°C)	36	35	34	34	34
Min.Temp.(°C)	27	27	27	27	27
Total CC (octa)	5	8	5	7	8
RH-I (%)	81	79	79	79	76
RH-II (%)	53	54	53	53	51
Wind Speed (kmph)	19	21	22	21	25
Wind Direction(deg.)	233	236	235	226	240

Agro meteorological Advisories:

General Advice	<ul style="list-style-type: none">• Rain fall: hot, humid and generally cloudy to cloudy weather forecasted for next five days.• Temperature: Maximum and minimum temperature likely to be in range of 34-36°C and 27-27°C, respectively.• Relative Humidity: The RH-I and RH-II is likely to be in the range of 76-81% & 51-54, respectively.• Wind Direction and Speed: Direction and speed of wind is likely to be SW and 19-25 km/h, respectively.• Weather outlook for subsequent 3 weeks: Less chance of rainfall till 26th July in Rajkot, Amreli, Surendranagar, Jamnagar, Morabi and Devbhumi Dwarka district.• Carry out interculturing operation for soil moisture conservation & removal of weed.• Carry out thinning in pearl millet, sesame and pulses crops in time.
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	<ul style="list-style-type: none"> • Due to less chance of rainfall irrigate vegetable crops as per need. • Make provision to drain excess water from field, harvest and store it in reservoir. 		
Crops	Stage	Insect/Pest/ Variety	Advisory
Kharif groundnut	Early establishment	-	<ul style="list-style-type: none"> • Carry out interculturing operation for soil moisture conservation & removal of weed.
Cotton	Early establishment	-	<ul style="list-style-type: none"> • Carry out interculturing operation for soil moisture conservation & removal of weed.
Sesame	Thinning	-	<ul style="list-style-type: none"> • Carry out thinning in pearl millet, sesame and pulses crops in time. • Carry out interculturing operation for soil moisture conservation & removal of weed.
Pearl millet	Thinning	-	<ul style="list-style-type: none"> • Carry out thinning in pearl millet, sesame and pulses crops in time. • Carry out interculturing operation for soil moisture conservation & removal of weed.
Pulses	Thinning	-	<ul style="list-style-type: none"> • Carry out thinning in pearl millet, sesame and pulses crops in time. • Carry out interculturing operation for soil moisture conservation & removal of weed.
Fodder Sorghum & Maize	Growing	Sorghum-Gundari, GFS-4 & 5 Maize-African tall	<p>Apply supplementary dose of nitrogen at 30 DAS(Urea 87 Kg/ha). Also monitor the crop for shoot fly infestation and if require spray cypermethrin 25 EC 5 ml in 10 liters of water.</p> <p>Infestation of fall army worm observed in maize, so for control make spray of Emamectin Benzoate 5 sg 7 gram/10 litre of water,.</p>
Vegetables	Nursery /Transplanting	<p>Farmers are advised for preparation of nursery for tomato, chilli, brinjal and early cauliflower (maturing in the month of September). It is also advised to use shed nets, which helps in reducing vector borne diseases and produce healthy seedlings. Nursery should be covered by net at the height of 6.5 feet for protection against sunlight.</p> <p>Transplanting of brinjal, chilli and early cauliflower are advised for those farmers whose seedlings are ready.</p>	

	Sowing	Farmers are advised for sowing of Cucurbits in rainy season. It is most suitable time to sow recommended hybrids/ varieties. Some popular hybrids are Bottle Gourd-Junagadh long tender , Pusa Naveen, PusaSamridhi Bitter Gourd- PusaVisesh, Pusa-2 mosumi, Pumpkin -PusaVisvash, PusaVikash Ridge Gourd -G.J.H-1, PusaChikni etc. Faremrs are also advised for Sowing of ladyfinger, cluster bean, kidney bean, cowpea, tur, amranthus etc.	
Lady finger	Flowering/ fruiting	White flies & mites	Spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with with Trizophos 40 % EC @ 25 ml or imidacloprid 30.5 SC 3 ml/10 lit of water for whiteflies control. Constant monitoring of lady finger crop against attack of mite is advised. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water is advised when sky remains clear. Due to prevailing high temperature, light irrigation at short interval is advised. After harvesting of mature okra application of urea @ 5-10 kg/ acre should be done.
Ridge gourd, Bottle gourd, Sponge guard, Bitter guard& cucurbitaceous crops	Flowering & fruiting	Thrips& white flies/ Mites Downy mildew	In all vegetable crops thrips infestation observed above ETL. Spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with acetamiprid 20 % SP@ 5.0 gm or imidacloprid 30.5 SC 3 ml/10 lit of water for whiteflies control. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water for the control of Mites. For the control of downy mildew spray mencozeb 40g/pump.
Cluster bean	Growing/fruiting	Thrips, white fly	To control them spray neem seed extract 500 ml or neem seed oil 50 or neem oil 40 ml and acetamiprid 20 % SP@ 5.0 gm / 10 lit of water at 15 days interval
Brinjal& Tomato	Flowering/ fruiting	Sucking pest → & Fruit borer 	To control sucking pest spray neem seed extract 5 % or neem seed oil 50 ml and To control them spray acetamiprid 20 % SP@ 5.0 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 Spinosad 3.0 ml/10 litre of water is advised against fruit borer.
Chili	Flowering/ fruiting	Thrips →  Leaf curling Virus →	In present weather conditions attack of mites has been reported.To control mite infestation spray propargite 57 % EC 10 ml/10 litre of water.In present weather conditions, rouging of viral infested crop should be done in chilli. Infected plants should be uprooted and buried in the soil. After rouging, spraying of Imidacloprid @ 5 ml per 10litre of water is advisedfor control the vector, when sky

		 Mites	remains clear. Constant monitoring of the chilli crop against attack of mites is advised. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water
Lemon	Fruit development	Mite  Psylla and thrips  Citrus canker Leaf minor	Due to high temperature mites infestation in lemon orchard observed. To control mite infestation spray propargite 57 % EC 10/10 liter of water. To prevent damage of psylla&thrips spray imidacloprid 30.5 % 5 ml / 10 lit of water ml/10 lit of water. Spray copper oxychloride 40 gm or streptocyclie 1.5 gm in 10 litre of water Spray Dichlorvosh 10 ml or Quinalphos 20 ml in 10 litres of water for control of leafminor.
Livestock & poultry 	Spray Deltamethrin or Amitraz 2 ml/litre of water for the control of tick. Deworming, T.B. and J.D. Testing should be done. Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. 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. Ensure regarding vaccination of animals for different diseases in rainy season. Spray phenyl in the animal shed to avoid fly's and mosquitoes. Due to chance of rainfall at isolated places keep animals indoors during rainfall. Keep fodder in safe place to avoid spoilage due to rainfall.		

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Agro met Advisory Service bulletin No.-29 for the Jamnagar district

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

(Period 10 to 14-July - 2019)

Weather forecast until 08-30 hrs of 14/07/2019



(3) JAMNAGAR DISTRICT:


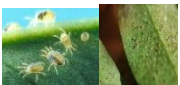


	10/07/19	11/07/19	12/07/19	13/07/19	14/07/19
Rainfall (mm)	0	0	0	0	0
Max. Temp.(°C)	38	37	36	36	36
Min. Temp.(°C)	29	29	29	29	29
Total CC (octa)	7	8	6	6	8
RH-I (%)	77	78	78	77	78
RH-II (%)	61	68	64	64	70
Wind Speed (kmph)	34	36	33	32	38
Wind Direction(deg.)	240	242	236	231	240

Agro meteorological Advisories:-

General Advice	
	<ul style="list-style-type: none">• Rain fall: hot, humid and generally cloudy to cloudy weather forecasted for next five days. During 07 to 08-July light rainfall forecasted.• Temperature: Maximum and minimum temperature likely to be in range of 36-38°C and 29-29°C, respectively.• Relative Humidity: The RH-I and RH-II is likely to be in the range of 77-78% & 61-70, respectively.• Wind Direction and Speed: Direction and speed of wind is likely to be SW and 32-38 km/h, respectively.• Weather outlook for subsequent 3 weeks: Less chance of rainfall till 26th July in Rajkot, Amreli, Surendranagar, Jamnagar, Morabi and Devbhumi Dwarka district.• Carry out interculturing operation for soil moisture conservation & removal of weed.• Carry out thinning in pearl millet, sesame and pulses crops in time.• Due to less chance of rainfall irrigate vegetable crops as per need.

	<ul style="list-style-type: none"> • Make provision to drain excess water from field, harvest and store it in reservoir. 		
Crops	Stage	Insect/Pest/ Variety	Advisory
Kharif groundnut	Early establishment	-	<ul style="list-style-type: none"> • Carry out interculturing operation for soil moisture conservation & removal of weed.
Cotton	Early establishment	-	<ul style="list-style-type: none"> • Carry out interculturing operation for soil moisture conservation & removal of weed.
Sesame	Thinning	-	<ul style="list-style-type: none"> • Carry out thinning in pearl millet, sesame and pulses crops in time. • Carry out interculturing operation for soil moisture conservation & removal of weed.
Pearl millet	Thinning	-	<ul style="list-style-type: none"> • Carry out thinning in pearl millet, sesame and pulses crops in time. • Carry out interculturing operation for soil moisture conservation & removal of weed.
Pulses	Thinning	-	<ul style="list-style-type: none"> • Carry out thinning in pearl millet, sesame and pulses crops in time. • Carry out interculturing operation for soil moisture conservation & removal of weed.
Fodder Sorghum & Maize	Growing	Sorghum- Gundari, GFS-4 & 5 Maize-African tall	<p>Apply supplementary dose of nitrogen at 30 DAS(Urea 87 Kg/ha). Also monitor the crop for shoot fly infestation and if require spray cypermethrin 25 EC 5 ml in 10 liters of water.</p> <p>Infestation of fall army worm observed in maize, so for control make spray of Emamectin Benzoate 5 sg 7 gram/10 litre of water,.</p>
Vegetables	Nursery /Transplanting	<p>Farmers are advised for preparation of nursery for tomato, chilli, brinjal and early cauliflower (maturing in the month of September). It is also advised to use shed nets, which helps in reducing vector borne diseases and produce healthy seedlings. Nursery should be covered by net at the height of 6.5 feet for protection against sunlight.</p> <p>Transplanting of brinjal, chilli and early cauliflower are advised for those farmers whose seedlings are ready.</p>	

	Sowing	Farmers are advised for sowing of Cucurbits in rainy season. It is most suitable time to sow recommended hybrids/ varieties. Some popular hybrids are Bottle Gourd-Junagadh long tender , Pusa Naveen, PusaSamridhi Bitter Gourd- PusaVisesh, Pusa-2 mosumi, Pumpkin -PusaVisvash, PusaVikash Ridge Gourd -G.J.H-1, PusaChikni etc. Farmers are also advised for Sowing of ladyfinger, cluster bean, kidney bean, cowpea, tur, amranthus etc.	
Lady finger	Flowering/ fruiting	White flies & mites	Spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with with Trizophos 40 % EC @ 25 ml or imidacloprid 30.5 SC 3 ml/10 lit of water for whiteflies control. Constant monitoring of lady finger crop against attack of mite is advised. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water is advised when sky remains clear. Due to prevailing high temperature, light irrigation at short interval is advised. After harvesting of mature okra application of urea @ 5-10 kg/ acre should be done.
Ridge gourd, Bottle gourd, Sponge guard, Bitter guard& cucurbitaceous crops	Flowering & fruiting	Thrips& white flies/ Mites Downy mildew	In all vegetable crops thrips infestation observed above ETL. Spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with acetamiprid 20 % SP@ 5.0 gm or imidacloprid 30.5 SC 3 ml/10 lit of water for whiteflies control. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water for the control of Mites. For the control of downy mildew spray mencozeb 40g/pump.
Cluster bean	Growing/fruiting	Thrips, white fly	To control them spray neem seed extract 500 ml or neem seed oil 50 or neem oil 40 ml and acetamiprid 20 % SP@ 5.0 gm / 10 lit of water at 15 days interval
Brinjal& Tomato	Flowering/ fruiting	Sucking pest → & Fruit borer 	To control sucking pest spray neem seed extract 5 % or neem seed oil 50 ml and To control them spray acetamiprid 20 % SP@ 5.0 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 Spinosad 3.0 ml/10 litre of water is advised against fruit borer.
Chili	Flowering/ fruiting	Thrips →  Leaf curling Virus →	In present weather conditions attack of mites has been reported.To control mite infestation spray propargite 57 % EC 10 ml/10 litre of water.In present weather conditions, rouging of viral infested crop should be done in chilli. Infected plants should be uprooted and buried in the soil. After rouging, spraying of Imidacloprid @ 5 ml per 10litre of water is advisedfor control the vector, when sky

		 Mites	remains clear. Constant monitoring of the chilli crop against attack of mites is advised If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water
Lemon	Fruit development	Mite  Psylla and thrips  Citrus canker Leaf minor	Due to high temperature mites infestation in lemon orchard observed. To control mite infestation spray propargite 57 % EC 10/10 liter of water. To prevent damage of psylla&thrips spray imidacloprid 30.5 % 5 ml / 10 lit of water ml/10 lit of water. Spray copper oxychloride 40 gm or streptocyclie 1.5 gm in 10 litre of water Spray Dichlorvosh 10 ml or Quinalphos 20 ml in 10 litres of water for control of leafminor.
Livestock & poultry 	Spray Deltamethrin or Amitraz 2 ml/litre of water for the control of tick. Deworming, T.B. and J.D. Testing should be done. Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. 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. Ensure regarding vaccination of animals for different diseases in rainy season. Spray phenyl in the animal shed to avoid fly's and mosquitoes. Due to chance of rainfall at isolated places keep animals indoors during rainfall. Keep fodder in safe place to avoid spoilage due to rainfall.		

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



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Agro met Advisory Service bulletin No.-29 for the Devbhumi Dwarka district

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

(Period 10 to 14-July - 2019)

Weather forecast until 08-30 hrs of 14/07/2019



(4) DEVBHUMI DWARKA DISTRICT:


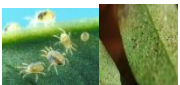


	10/07/19	11/07/19	12/07/19	13/07/19	14/07/19
Rainfall (mm)	0	0	0	0	0
Max. Temp.(°C)	34	33	32	32	32
Min. Temp.(°C)	29	29	29	29	29
Total CC (octa)	7	8	6	6	8
RH-I (%)	77	77	78	78	79
RH-II (%)	59	66	62	64	70
Wind Speed (kmph)	33	35	31	31	37
Wind Direction(deg.)	240	242	236	231	240

Agro meteorological Advisories:-

General Advice	
	<ul style="list-style-type: none">• Rain fall: hot, humid and generally cloudy to cloudy weather forecasted for next five days.• Temperature: Maximum and minimum temperature likely to be in range of 32-34°C and 29-29°C, respectively.• Relative Humidity: The RH-I and RH-II is likely to be in the range of 77-79% & 59-70, respectively.• Wind Direction and Speed: Direction and speed of wind is likely to be SW and 31-37 km/h, respectively.• Weather outlook for subsequent 3 weeks: Less chance of rainfall till 26th July in Rajkot, Amreli, Surendranagar, Jamnagar, Morabi and Devbhumi Dwarka district.• Carry out interculturing operation for soil moisture conservation & removal of weed.• Carry out thinning in pearl millet, sesame and pulses crops in time.• Due to less chance of rainfall irrigate vegetable crops as per need.

	<ul style="list-style-type: none"> • Make provision to drain excess water from field, harvest and store it in reservoir. 		
Crops	Stage	Insect/Pest/ Variety	Advisory
Kharif groundnut	Early establishment	-	<ul style="list-style-type: none"> • Carry out interculturing operation for soil moisture conservation & removal of weed.
Cotton	Early establishment	-	<ul style="list-style-type: none"> • Carry out interculturing operation for soil moisture conservation & removal of weed.
Sesame	Thinning	-	<ul style="list-style-type: none"> • Carry out thinning in pearl millet, sesame and pulses crops in time. • Carry out interculturing operation for soil moisture conservation & removal of weed.
Pearl millet	Thinning	-	<ul style="list-style-type: none"> • Carry out thinning in pearl millet, sesame and pulses crops in time. • Carry out interculturing operation for soil moisture conservation & removal of weed.
Pulses	Thinning	-	<ul style="list-style-type: none"> • Carry out thinning in pearl millet, sesame and pulses crops in time. • Carry out interculturing operation for soil moisture conservation & removal of weed.
Fodder Sorghum & Maize	Growing	Sorghum- Gundari, GFS-4 & 5 Maize-African tall	<p>Apply supplementary dose of nitrogen at 30 DAS(Urea 87 Kg/ha). Also monitor the crop for shoot fly infestation and if require spray cypermethrin 25 EC 5 ml in 10 liters of water.</p> <p>Infestation of fall army worm observed in maize, so for control make spray of Emamectin Benzoate 5 sg 7 gram/10 litre of water,.</p>
Vegetables	Nursery /Transplanting	<p>Farmers are advised for preparation of nursery for tomato, chilli, brinjal and early cauliflower (maturing in the month of September). It is also advised to use shed nets, which helps in reducing vector borne diseases and produce healthy seedlings. Nursery should be covered by net at the height of 6.5 feet for protection against sunlight.</p> <p>Transplanting of brinjal, chilli and early cauliflower are advised for those farmers whose seedlings are ready.</p>	

	Sowing	Farmers are advised for sowing of Cucurbits in rainy season. It is most suitable time to sow recommended hybrids/ varieties. Some popular hybrids are Bottle Gourd-Junagadh long tender , Pusa Naveen, PusaSamridhi Bitter Gourd- PusaVisesh, Pusa-2 mosumi, Pumpkin -PusaVisvash, PusaVikash Ridge Gourd -G.J.H-1, PusaChikni etc. Faremrns are also advised for Sowing of ladyfinger, cluster bean, kidney bean, cowpea, tur, amranthus etc.	
Lady finger	Flowering/ fruiting	White flies & mites	Spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with with Trizophos 40 % EC @ 25 ml or imidacloprid 30.5 SC 3 ml/10 lit of water for whiteflies control. Constant monitoring of lady finger crop against attack of mite is advised. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water is advised when sky remains clear. Due to prevailing high temperature, light irrigation at short interval is advised. After harvesting of mature okra application of urea @ 5-10 kg/ acre should be done.
Ridge gourd, Bottle gourd, Sponge guard, Bitter guard& cucurbitaceous crops	Flowering & fruiting	Thrips& white flies/ Mites Downy mildew	In all vegetable crops thrips infestation observed above ETL. Spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with acetamiprid 20 % SP@ 5.0 gm or imidacloprid 30.5 SC 3 ml/10 lit of water for whiteflies control. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water for the control of Mites. For the control of downy mildew spray mencozeb 40g/pump.
Cluster bean	Growing/fruiting	Thrips, white fly	To control them spray neem seed extract 500 ml or neem seed oil 50 or neem oil 40 ml and acetamiprid 20 % SP@ 5.0 gm / 10 lit of water at 15 days interval
Brinjal& Tomato	Flowering/ fruiting	Sucking pest → & Fruit borer 	To control sucking pest spray neem seed extract 5 % or neem seed oil 50 ml and To control them spray acetamiprid 20 % SP@ 5.0 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 Spinosad 3.0 ml/10 litre of water is advised against fruit borer.
Chili	Flowering/ fruiting	Thrips →  Leaf curling Virus →	In present weather conditions attack of mites has been reported.To control mite infestation spray propargite 57 % EC 10 ml/10 litre of water.In present weather conditions, rouging of viral infested crop should be done in chilli. Infected plants should be uprooted and buried in the soil. After rouging, spraying of Imidacloprid @ 5 ml per 10litre of water is advisedfor control the vector, when sky

		 Mites	remains clear. Constant monitoring of the chilli crop against attack of mites is advised If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water
Lemon	Fruit development	Mite  Psylla and thrips  Citrus canker Leaf minor	Due to high temperature mites infestation in lemon orchard observed. To control mite infestation spray propargite 57 % EC 10/10 liter of water. To prevent damage of psylla&thrips spray imidacloprid 30.5 % 5 ml / 10 lit of water ml/10 lit of water. Spray copper oxychloride 40 gm or streptocyclie 1.5 gm in 10 litre of water Spray Dichlorvosh 10 ml or Quinalphos 20 ml in 10 litres of water for control of leafminor.
Livestock & poultry 	Spray Deltamethrin or Amitraz 2 ml/litre of water for the control of tick. Deworming, T.B. and J.D. Testing should be done. Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. 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. Ensure regarding vaccination of animals for different diseases in rainy season. Spray phenyl in the animal shed to avoid fly's and mosquitoes. Due to chance of rainfall at isolated places keep animals indoors during rainfall. Keep fodder in safe place to avoid spoilage due to rainfall.		

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Agro met Advisory Service bulletin No.-29 for the Amreli district

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

(Period 10 to 34-July - 2019)

Weather forecast until 08-30 hrs of 14/07/2019



(5) AMRELI DISTRICT:


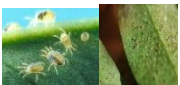


	10/07/19	11/07/19	12/07/19	13/07/19	14/07/19
Rainfall (mm)	3	3	3	3	3
Max.Temp.(°C)	34	34	33	34	34
Min.Temp.(°C)	27	27	26	27	27
Total CC (octa)	6	7	7	7	8
RH-I (%)	77	78	79	76	76
RH-II (%)	56	59	58	55	59
Wind Speed (kmph)	24	26	25	23	32
Wind Direction(deg.)	244	243	235	237	242

Agro meteorological Advisories:

General Advice	<ul style="list-style-type: none">• Rain fall: hot, humid and generally cloudy to cloudy weather forecasted for next five days. During 10 to 14-July light rainfall forecasted.• Temperature: Maximum and minimum temperature likely to be in range of 33-34°C and 27-27°C, respectively.• Relative Humidity: The RH-I and RH-II is likely to be in the range of 77-79% & 55-59, respectively.• Wind Direction and Speed: Direction and speed of wind is likely to be SW and 23-32 km/h, respectively.• Weather outlook for subsequent 3 weeks: Less chance of rainfall till 26th July in Rajkot, Amreli, Surendranagar, Jamnagar, Morabi and Devbhumi Dwarka district.• Carry out interculturing operation for soil moisture conservation & removal of weed.• Carry out thinning in pearl millet, sesame and pulses crops in time.• Due to less chance of rainfall irrigate vegetable crops as per need.
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	<ul style="list-style-type: none"> • Make provision to drain excess water from field, harvest and store it in reservoir. 		
Crops	Stage	Insect/Pest/ Variety	Advisory
Kharif groundnut	Early establishment	-	<ul style="list-style-type: none"> • Carry out interculturing operation for soil moisture conservation & removal of weed.
Cotton	Early establishment	-	<ul style="list-style-type: none"> • Carry out interculturing operation for soil moisture conservation & removal of weed.
Sesame	Thinning	-	<ul style="list-style-type: none"> • Carry out thinning in pearl millet, sesame and pulses crops in time. • Carry out interculturing operation for soil moisture conservation & removal of weed.
Pearl millet	Thinning	-	<ul style="list-style-type: none"> • Carry out thinning in pearl millet, sesame and pulses crops in time. • Carry out interculturing operation for soil moisture conservation & removal of weed.
Pulses	Thinning	-	<ul style="list-style-type: none"> • Carry out thinning in pearl millet, sesame and pulses crops in time. • Carry out interculturing operation for soil moisture conservation & removal of weed.
Fodder Sorghum & Maize	Growing	Sorghum-Gundari, GFS-4 & 5 Maize-African tall	<p>Apply supplementary dose of nitrogen at 30 DAS(Urea 87 Kg/ha). Also monitor the crop for shoot fly infestation and if require spray cypermethrin 25 EC 5 ml in 10 liters of water.</p> <p>Infestation of fall army worm observed in maize, so for control make spray of Emamectin Benzoate 5 sg 7 gram/10 litre of water,.</p>
Vegetables	Nursery /Transplanting	<p>Farmers are advised for preparation of nursery for tomato, chilli, brinjal and early cauliflower (maturing in the month of September). It is also advised to use shed nets, which helps in reducing vector borne diseases and produce healthy seedlings. Nursery should be covered by net at the height of 6.5 feet for protection against sunlight.</p> <p>Transplanting of brinjal, chilli and early cauliflower are advised for those farmers whose seedlings are ready.</p>	

	Sowing	Farmers are advised for sowing of Cucurbits in rainy season. It is most suitable time to sow recommended hybrids/ varieties. Some popular hybrids are Bottle Gourd-Junagadh long tender , Pusa Naveen, PusaSamridhi Bitter Gourd- PusaVisesh, Pusa-2 mosumi, Pumpkin -PusaVisvash, PusaVikash Ridge Gourd -G.J.H-1, PusaChikni etc. Faremrs are also advised for Sowing of ladyfinger, cluster bean, kidney bean, cowpea, tur, amranthus etc.	
Lady finger	Flowering/ fruiting	White flies & mites	Spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with with Trizophos 40 % EC @ 25 ml or imidacloprid 30.5 SC 3 ml/10 lit of water for whiteflies control. Constant monitoring of lady finger crop against attack of mite is advised. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water is advised when sky remains clear. Due to prevailing high temperature, light irrigation at short interval is advised. After harvesting of mature okra application of urea @ 5-10 kg/ acre should be done.
Ridge gourd, Bottle gourd, Sponge guard, Bitter guard& cucurbitaceous crops	Flowering & fruiting	Thrips& white flies/ Mites Downy mildew	In all vegetable crops thrips infestation observed above ETL. Spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with acetamiprid 20 % SP@ 5.0 gm or imidacloprid 30.5 SC 3 ml/10 lit of water for whiteflies control. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water for the control of Mites. For the control of downy mildew spray mencozeb 40g/pump.
Cluster bean	Growing/fruiting	Thrips, white fly	To control them spray neem seed extract 500 ml or neem seed oil 50 or neem oil 40 ml and acetamiprid 20 % SP@ 5.0 gm / 10 lit of water at 15 days interval
Brinjal& Tomato	Flowering/ fruiting	Sucking pest → & Fruit borer 	To control sucking pest spray neem seed extract 5 % or neem seed oil 50 ml and To control them spray acetamiprid 20 % SP@ 5.0 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 Spinosad 3.0 ml/10 litre of water is advised against fruit borer.
Chili	Flowering/ fruiting	Thrips →  Leaf curling Virus →	In present weather conditions attack of mites has been reported.To control mite infestation spray propargite 57 % EC 10 ml/10 litre of water.In present weather conditions, rouging of viral infested crop should be done in chilli. Infected plants should be uprooted and buried in the soil. After rouging, spraying of Imidacloprid @ 5 ml per 10litre of water is advisedfor control the vector, when sky

		 Mites	remains clear. Constant monitoring of the chilli crop against attack of mites is advised. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water
Lemon	Fruit development	Mite  Psylla and thrips  Citrus canker Leaf minor	Due to high temperature mites infestation in lemon orchard observed. To control mite infestation spray propargite 57 % EC 10/10 liter of water. To prevent damage of psylla&thrips spray imidacloprid 30.5 % 5 ml / 10 lit of water ml/10 lit of water. Spray copper oxychloride 40 gm or streptocyclie 1.5 gm in 10 litre of water Spray Dichlorvosh 10 ml or Quinalphos 20 ml in 10 litres of water for control of leafminor.
Livestock & poultry 	Spray Deltamethrin or Amitraz 2 ml/litre of water for the control of tick. Deworming, T.B. and J.D. Testing should be done. Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. 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. Ensure regarding vaccination of animals for different diseases in rainy season. Spray phenyl in the animal shed to avoid fly's and mosquitoes. Due to chance of rainfall at isolated places keep animals indoors during rainfall. Keep fodder in safe place to avoid spoilage due to rainfall.		

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



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Agro met Advisory Service bulletin No.-29 for the Surendranagar district

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

(Period 10 to 14-July - 2019)

Weather forecast until 08-30 hrs of 14/07/2019



(6) SURENDRANAGAR DISTRICT:


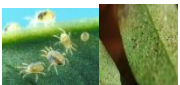


	10/07/19	11/07/19	12/07/19	13/07/19	14/07/19
Rainfall (mm)	0	0	0	0	0
Max.Temp.(°C)	36	35	34	34	34
Min.Temp.(°C)	27	27	27	27	27
Total CC (octa)	7	8	6	7	8
RH-I (%)	70	70	71	69	70
RH-II (%)	43	52	50	46	55
Wind Speed (kmph)	29	32	30	27	35
Wind Direction(deg.)	238	241	234	228	239

Agro meteorological advisories:

General Advice	
	<ul style="list-style-type: none">• Rain fall: hot, humid and generally cloudy to cloudy weather forecasted for next five days.• Temperature: Maximum and minimum temperature likely to be in range of 34-36°C and 27-27°C, respectively.• Relative Humidity: The RH-I and RH-II is likely to be in the range of 69-71% & 43-55, respectively.• Wind Direction and Speed: Direction and speed of wind is likely to be SW and 27-35 km/h, respectively.• Weather outlook for subsequent 3 weeks: Less chance of rainfall till 26th July in Rajkot, Amreli, Surendranagar, Jamnagar, Morabi and Devbhumi Dwarka district.• Carry out interculturing operation for soil moisture conservation & removal of weed.• Carry out thinning in pearl millet, sesame and pulses crops in time.• Due to less chance of rainfall irrigate vegetable crops as per need.

	<ul style="list-style-type: none"> • Make provision to drain excess water from field, harvest and store it in reservoir. 		
Crops	Stage	Insect/Pest/ Variety	Advisory
Kharif groundnut	Early establishment	-	<ul style="list-style-type: none"> • Carry out interculturing operation for soil moisture conservation & removal of weed.
Cotton	Early establishment	-	<ul style="list-style-type: none"> • Carry out interculturing operation for soil moisture conservation & removal of weed.
Sesame	Thinning	-	<ul style="list-style-type: none"> • Carry out thinning in pearl millet, sesame and pulses crops in time. • Carry out interculturing operation for soil moisture conservation & removal of weed.
Pearl millet	Thinning	-	<ul style="list-style-type: none"> • Carry out thinning in pearl millet, sesame and pulses crops in time. • Carry out interculturing operation for soil moisture conservation & removal of weed.
Pulses	Thinning	-	<ul style="list-style-type: none"> • Carry out thinning in pearl millet, sesame and pulses crops in time. • Carry out interculturing operation for soil moisture conservation & removal of weed.
Fodder Sorghum & Maize	Growing	Sorghum-Gundari, GFS-4 & 5 Maize-African tall	<p>Apply supplementary dose of nitrogen at 30 DAS(Urea 87 Kg/ha). Also monitor the crop for shoot fly infestation and if require spray cypermethrin 25 EC 5 ml in 10 liters of water.</p> <p>Infestation of fall army worm observed in maize, so for control make spray of Emamectin Benzoate 5 sg 7 gram/10 litre of water,.</p>
Vegetables	Nursery /Transplanting	<p>Farmers are advised for preparation of nursery for tomato, chilli, brinjal and early cauliflower (maturing in the month of September). It is also advised to use shed nets, which helps in reducing vector borne diseases and produce healthy seedlings. Nursery should be covered by net at the height of 6.5 feet for protection against sunlight.</p> <p>Transplanting of brinjal, chilli and early cauliflower are advised for those farmers whose seedlings are ready.</p>	

	Sowing	Farmers are advised for sowing of Cucurbits in rainy season. It is most suitable time to sow recommended hybrids/ varieties. Some popular hybrids are Bottle Gourd-Junagadh long tender , Pusa Naveen, PusaSamridhi Bitter Gourd- PusaVisesh, Pusa-2 mosumi, Pumpkin -PusaVisvash, PusaVikash Ridge Gourd -G.J.H-1, PusaChikni etc. Farmers are also advised for Sowing of ladyfinger, cluster bean, kidney bean, cowpea, tur, amranthus etc.	
Lady finger	Flowering/ fruiting	White flies & mites	Spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with with Trizophos 40 % EC @ 25 ml or imidacloprid 30.5 SC 3 ml/10 lit of water for whiteflies control. Constant monitoring of lady finger crop against attack of mite is advised. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water is advised when sky remains clear. Due to prevailing high temperature, light irrigation at short interval is advised. After harvesting of mature okra application of urea @ 5-10 kg/ acre should be done.
Ridge gourd, Bottle gourd, Sponge guard, Bitter guard & cucurbitaceous crops	Flowering & fruiting	Thrips & white flies/ Mites Downy mildew	In all vegetable crops thrips infestation observed above ETL. Spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with acetamiprid 20 % SP@ 5.0 gm or imidacloprid 30.5 SC 3 ml/10 lit of water for whiteflies control. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water for the control of Mites. For the control of downy mildew spray mencozeb 40g/pump.
Cluster bean	Growing/fruiting	Thrips, white fly	To control them spray neem seed extract 500 ml or neem seed oil 50 or neem oil 40 ml and acetamiprid 20 % SP@ 5.0 gm / 10 lit of water at 15 days interval
Brinjal & Tomato	Flowering/ fruiting	Sucking pest → & Fruit borer 	To control sucking pest spray neem seed extract 5 % or neem seed oil 50 ml and To control them spray acetamiprid 20 % SP@ 5.0 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 Spinosad 3.0 ml/10 litre of water is advised against fruit borer.
Chili	Flowering/ fruiting	Thrips →  Leaf curling Virus →	In present weather conditions attack of mites has been reported. To control mite infestation spray propargite 57 % EC 10 ml/10 litre of water. In present weather conditions, rouging of viral infested crop should be done in chilli. Infected plants should be uprooted and buried in the soil. After rouging, spraying of Imidacloprid @ 5 ml per 10litre of water is advised for control the vector, when sky

		 <p>Mites</p>	<p>remains clear. Constant monitoring of the chilli crop against attack of mites is advised. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water</p>
Lemon	Fruit development	<p>Mite</p>  <p>Psylla and thrips</p>  <p>Citrus canker</p> <p>Leaf minor</p>	<p>Due to high temperature mites infestation in lemon orchard observed. To control mite infestation spray propargite 57 % EC 10/10 liter of water.</p> <p>To prevent damage of psylla&thrips spray imidacloprid 30.5 % 5 ml / 10 lit of water ml/10 lit of water. Spray copper oxychloride 40 gm or streptocyclie 1.5 gm in 10 litre of water Spray Dichlorvosh 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. Deworming, T.B. and J.D. Testing should be done. Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. 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. Ensure regarding vaccination of animals for different diseases in rainy season. Spray phenyl in the animal shed to avoid fly's and mosquitoes. Due to chance of rainfall at isolated places keep animals indoors during rainfall. Keep fodder in safe place to avoid spoilage due to rainfall.</p>		

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