



## ગ્રામીણ કૃષિ મૌસમ સેવા

હવામાન આગાહી આધારીત કૃષિસલાહ બુલેટીન

ઉત્તર સૌરાષ્ટ્ર ખેત આબોહવાકીય વિભાગ

તા.૨૯-૦૬-૨૦૧૯ થી તા.૦૩-૦૭-૨૦૧૯



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

કૃષિહવામાન બુલેટીન નં. ૨૬/૨૦૧૯

પાછલા અઠવાડિયાનું રાજકોટનું હવામાન

હવામાન પરિબલો	
વરસાદ(મી.મી)	30.8
મહત્તમ તાપમાન (સે.ગ્રે)	32.3-36.8
લઘુત્તમ તાપમાન (સે.ગ્રે)	24.1-26.3
ભેજ(%) સવાર	82-87
ભેજ(%) બપોરબાદ	48-72
પવનની ગતિ (કિમી/કલાક)	5.3-7.8

હવામાન આગાહી: પત્રક-ક

ઉત્તરસૌરાષ્ટ્ર ખેત આબોહવાકીય વિભાગ-હવામાન આગાહી

તા.૨૯-૦૬-૨૦૧૯ થી ૦૩-૦૭-૨૦૧૯

કૃષિ સલાહ:

સામાન્ય	<p>➤ ભારત સરકારશ્રીના હવામાન ખાતા તરફથી મળેલ હવામાન માહિતી અનુસાર અત્રેના ગ્રામીણકૃષિ મૌસમ સેવા વિભાગ, જુનાગઢ કૃષિ યુનિવર્સિટી, તરઘડિયા તરફથી જણાવવામાં આવે છે કે, ઉત્તર સૌરાષ્ટ્ર ખેત આબોહવાકીય વિસ્તારના</p> <p>રાજકોટ: જુલ્લામાં આગામી તા.૨૯-૦૬-૨૦૧૯ થી તા.૦૩-૦૭-૨૦૧૯ દરમિયાન હવામાન ગરમ, ભેજવાળું અને વાદળછાયું રહેશે. તા. ૨૯-જુન થી ૦૨-જુલાઈ ના રોજ હળવો થી મધ્યમ વરસાદ થવાની શક્યતા છે. પવનની દિશા પશ્ચિમ અને નૈઋત્યની રહેવાની અને પવનની ઝડપ ૧૮ થી ૨૯ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમિયાન ૩૬-૩૭ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમિયાન ૨૭-૨૭ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.</p>					
	તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
	પેરામીટર	૨૯-૦૬-૧૯	૩૦-૦૬-૧૯	૦૧-૦૭-૧૯	૦૨-૦૭-૧૯	૦૩-૦૭-૧૯
	વરસાદ(મી.મી)	15	15	10	3	0
	મહત્તમતાપમાન (સે.ગ્રે)	37	36	36	36	36

લઘુતમતાપમાન (સે.ગ્રે)	27	27	27	27	27
વાદળનીસ્થિતિ(ઓકટા)	8	8	8	6	6
મહતમભેજ(%) સવાર	73	73	73	72	73
લઘુતમભેજ (%) બપોરબાદ	48	52	54	53	51
પવનનીગતિ(કિમી/કલાક)	29	26	22	21	18
પવનનીદિશા(ડીગ્રી)	264	265	254	242	239

**મોરબી:** જીલ્લામાં આગામી તા.૨૯-૦૬-૨૦૧૯ થી તા.૦૩-૦૭-૨૦૧૯ દરમ્યાન હવામાન ગરમ, ભેજવાળું અને વાદળછાયું રહેશે. તા. ૨૯-જુન થી ૦૨-જુલાઈ ના રોજ મધ્યમ વરસાદ થવાની શક્યતા છે. પવનની દિશા પશ્ચિમ અને નૈઋત્યની રહેવાની અને પવનની ઝડપ ૮ થી ૧૯ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહતમ તાપમાન દિવસ દરમ્યાન ૩૬-૩૭ 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	૨૯-૦૬-૧૯	૩૦-૦૬-૧૯	૦૧-૦૭-૧૯	૦૨-૦૭-૧૯	૦૩-૦૭-૧૯
વરસાદ(મી.મી)	10	15	20	14	0
મહતમતાપમાન (સે.ગ્રે)	37	36	36	36	36
લઘુતમતાપમાન (સે.ગ્રે)	27	27	27	27	27
વાદળનીસ્થિતિ(ઓકટા)	8	7	7	5	6
મહતમભેજ(%) સવાર	87	88	83	79	76
લઘુતમભેજ (%) બપોરબાદ	72	68	64	51	49
પવનનીગતિ(કિમી/કલાક)	15	8	9	16	19
પવનનીદિશા(ડીગ્રી)	281	269	218	224	245

**જામનગર:** જીલ્લામાં આગામી તા.૨૯-૦૬-૨૦૧૯ થી તા.૦૩-૦૭-૨૦૧૯ દરમ્યાન હવામાન ગરમ, ભેજવાળું અને વાદળછાયું રહેશે. તા.૨૯-જુન થી ૦૩-જુલાઈ ના રોજ હળવો વરસાદ થવાની શક્યતા છે. પવનની દિશા પશ્ચિમ અને નૈઋત્યની રહેવાની અને પવનની ઝડપ ૨૨ થી ૩૫ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહતમ તાપમાન દિવસ દરમ્યાન ૩૩-૩૪ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુતમ તાપમાન રાત્રી દરમ્યાન ૨૮-૨૮ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૨૯-૦૬-૧૯	૩૦-૦૬-૧૯	૦૧-૦૭-૧૯	૦૨-૦૭-૧૯	૦૩-૦૭-૧૯
વરસાદ(મી.મી)	10	10	3	4	4
મહતમતાપમાન (સે.ગ્રે)	34	33	33	33	33
લઘુતમતાપમાન (સે.ગ્રે)	28	28	28	28	28
વાદળનીસ્થિતિ(ઓકટા)	7	7	8	7	7

મહત્તમભેજ(%) સવાર	78	78	78	78	79
લઘુત્તમભેજ (%) બપોરબાદ	64	66	67	69	68
પવનનીગતિ(કિમી/કલાક)	35	28	27	24	22
પવનનીદિશા(ડીગ્રી)	263	261	250	238	245

**દેવભૂમિ દ્વારકા:** જીલ્લામાં આગામી તા.૨૯-૦૬-૨૦૧૯ થી તા.૦૩-૦૭-૨૦૧૯ દરમિયાન હવામાન ગરમ, ભેજવાળું અને વાદળછાયું રહેશે. તા. ૨૯-જુન થી ૦૩-જુલાઈ ના રોજ હળવો થી મધ્યમ વરસાદ થવાની શક્યતા છે. પવનની દિશા પશ્ચિમ અને નૈઋત્યની રહેવાની અને પવનની ઝડપ ૨૨ થી ૩૫ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમિયાન ૩૨-૩૩ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમિયાન ૨૮-૨૮ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૨૯-૦૬-૧૯	૩૦-૦૬-૧૯	૦૧-૦૭-૧૯	૦૨-૦૭-૧૯	૦૩-૦૭-૧૯
વરસાદ(મી.મી)	15	10	5	3	3
મહત્તમતાપમાન (સે.ગ્રે)	33	32	33	33	33
લઘુત્તમતાપમાન (સે.ગ્રે)	28	28	28	28	28
વાદળનીસ્થિતિ(ઓકટા)	6	7	8	7	7
મહત્તમભેજ(%) સવાર	77	77	78	79	78
લઘુત્તમભેજ (%) બપોરબાદ	61	63	68	67	65
પવનનીગતિ(કિમી/કલાક)	35	26	26	23	22
પવનનીદિશા(ડીગ્રી)	263	261	250	236	246

**અમરેલી:** જીલ્લામાં આગામી તા.૨૯-૦૬-૨૦૧૯ થી તા.૦૩-૦૭-૨૦૧૯ દરમિયાન હવામાન ગરમ, ભેજવાળું અને વાદળછાયું રહેશે. તા. ૨૯-જુન ના રોજ અતિ ભારે અને ૩૦-જુન થી ૦૩-જુલાઈ ના રોજ હળવો થી મધ્યમ વરસાદ થવાની શક્યતા છે. પવનની દિશા પશ્ચિમ અને નૈઋત્યની રહેવાની અને પવનની ઝડપ ૧૮ થી ૨૨ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમિયાન ૩૬-૩૭ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમિયાન ૨૭-૨૭ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૨૯-૦૬-૧૯	૩૦-૦૬-૧૯	૦૧-૦૭-૧૯	૦૨-૦૭-૧૯	૦૩-૦૭-૧૯
વરસાદ(મી.મી)	80	18	26	14	3
મહત્તમતાપમાન (સે.ગ્રે)	36	36	37	36	36
લઘુત્તમતાપમાન (સે.ગ્રે)	27	27	27	27	27
વાદળનીસ્થિતિ(ઓકટા)	8	8	8	7	6
મહત્તમભેજ(%) સવાર	78	78	77	77	78

લઘુતમભેજ(%) બપોરબાદ	60	61	58	58	57
પવનનીગતિ(કિમી/કલાક)	22	19	19	18	18
પવનનીદિશા(ડીગ્રી)	265	270	259	248	244



**સુરેન્દ્રનગર:** જીલ્લામાં આગામી તા.૨૯-૦૬-૨૦૧૯ થી તા.૦૩-૦૭-૨૦૧૯ દરમ્યાન હવામાન ગરમ, ભેજવાળું અને વાદળછાયું રહેશે. તા.૩૦-જુન અને ૦૧-જુલાઈ ના રોજ હળવો થી મધ્યમ અને ૩૦-જુનના રોજ અતિભારે વરસાદ થવાની શક્યતા છે. પવનની દિશા પશ્ચિમ અને નૈઋત્યની રહેવાની અને પવનની ઝડપ ૧૯ થી ૨૬ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૩૬-૩૭ 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	૨૯-૦૬-૧૯	૩૦-૦૬-૧૯	૦૧-૦૭-૧૯	૦૨-૦૭-૧૯	૦૩-૦૭-૧૯
વરસાદ(મી.મી)	15	70	3	0	0
મહત્તમતાપમાન (સે.ગ્રે)	37	36	36	36	36
લઘુતમતાપમાન (સે.ગ્રે)	27	27	27	27	27
વાદળનીસ્થિતિ(ઓકટા)	8	7	7	5	5
મહત્તમભેજ(%) સવાર	72	73	72	71	71
લઘુતમભેજ(%) બપોરબાદ	43	48	53	50	47
પવનનીગતિ(કિમી/કલાક)	26	25	20	19	19
પવનનીદિશા(ડીગ્રી)	269	267	255	238	242

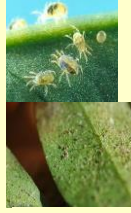


- ૨૯-જુન થી ૦૩-જુલાઈ -૨૦૧૯ હવામાન ગરમ, ભેજવાળું અને વાદળછાયું રહેશે. રાજકોટ જીલ્લામાં તા. ૨૯-જુન થી ૦૨-જુલાઈ ના રોજ હળવો થી મધ્યમ વરસાદ થવાની શક્યતા છે., મોરબી જીલ્લામાં તા. ૨૯-જુન થી ૦૨-જુલાઈ ના રોજ મધ્યમ વરસાદ થવાની શક્યતા છે., જામનગર જીલ્લામાં તા.૨૯-જુન થી ૦૩-જુલાઈ ના રોજ હળવો વરસાદ થવાની શક્યતા છે., દેવભૂમિ દ્વારકા તા. ૨૯-જુન થી ૦૩-જુલાઈ ના રોજ હળવો થી મધ્યમ વરસાદ થવાની શક્યતા છે., અમરેલી જીલ્લામાં તા. ૨૯-જુન ના રોજ અતિ ભારે અને ૩૦-જુન થી ૦૩-જુલાઈ ના રોજ હળવો થી મધ્યમ વરસાદ થવાની શક્યતા છે. અને સુરેન્દ્રનગર જીલ્લામાં ૩૦-જુન અને ૦૧-જુલાઈ ના રોજ હળવો થી મધ્યમ અને ૩૦-જુનના રોજ અતિભારે વરસાદ થવાની શક્યતા છે. પવનની દિશા પશ્ચિમ અને નૈઋત્યની મોટાભાગે રહેવાની અને પવનની ઝડપ ૧૯ થી ૩૫ કીમી/કલાક રહેવાની શક્યતા છે. આ સમયગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૩૬-૩૭ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુતમ તાપમાન રાત્રી દરમ્યાન ૨૭-૨૭ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.
- અનિયમિત વરસાદનું જોખમ ઓછું કરવા કપાસના પાકમાં તલ, મગફળી, સોયાબીન, કઠોળ જેવા પાકોનું આંતર પાક તરીકે વાવેતરનું આયોજન કરવું.

	<ul style="list-style-type: none"> <li>જે વિસ્તારમાં વાવણી લાયક વરસાદ થયેલ હોય ત્યાં પસંદગીના પાકનું સમયસર વાવેતર પૂર્ણ કરવું.</li> <li>સમયસર વાવણી કાર્ય પૂરું કરવું. વાવેતર સાથે અથવા પછી અનુકુળતા મુજબ સમાર અથવા બેલી/કર્ચુ ચલાવવું જેથી જમીનમાં ભેજ જળવાય રહે અને ઉગાવો સારો થાય.</li> <li>વધારાના વરસાદી પાણીના નિકાલની વ્યવસ્થા કરવી અને તેનો ચેકડેમ, તળાવ, ખેતતલાવડીમાં સંગ્રહ કરવો.</li> </ul>		
મુખ્ય પાક	પાક અવસ્થા	રોગ/જીવાત/જાત	કૃષિ સલાહ (૧૦ લીટર પાણીમાં મિશ્ર કરી ભલામણ કરેલ દવા છાંટવી )
મગફળી	વાવેતર / ઉગાવો	અર્ધ વેલડી જીજી-૨૦, જીજી-૨૨ ઉભડી -જીજી-૨, જીજીજી-૩૨, ટીએજી-૨૪, ટીએલજી-૪૫, ટીપીજી-૪૧, તીજી-૩૭-એ	<p>ચોમાસું મગફળીનાં આગોતરા વાવેતર માટે જમીનની તૈયારી કરવી અને સેન્દ્રિય ખાતર ઉમેરવું.</p> <p>વાવણી લાયક વરસાદ થયેલ હોય ત્યાં વાવેતર કરવું.</p> <p>વાવેતર સમયે સિંગલ સુપર ફોસ્ફેટ ૧૫૬ કી.ગ્રા./હે., એમોનીયમ સલ્ફેટ ૬૨ કી.ગ્રા./હે., અને એરંડીનો ખોળ ૫૦૦ કી.ગ્રા./હે. અથવા ડી.એ.પી. ૫૪ કી.ગ્રા. અને જીપ્સમ ૫૦૦ કી.ગ્રા./હે. સાથે એરંડીનો ખોળ ૫૦૦ કી.ગ્રા./હે. પાયામાં આપવો.</p> <p>તેમજ ૨.૫ કી.ગ્રા./હે ટ્રાયકોડર્મા ફૂગનો પાઉડર ૫૦૦ કી.ગ્રા./હે એરંડીનાં ખોળ સાથે મિશ્ર કરી પાયામાં વાવણી સમયે આપવો.</p> <p>વાવતી વખતે બિયારણને થાયરમ અથવા મેન્કોઝેબ અથવા વાયટાવેક્ષ દવાનો ૨-૩ ગ્રામ/કી. બીજને પટ આપવો.</p> <p>મગફળીમાં સફેદ મુંડાનાં નિયંત્રણ માટે ક્લોરોપાયરીફોસ ૨૦ % ઈસી દવાનો ૨૫ મિલી ૧ કી.ગ્રા. બીજને વાવેતર પહેલા પટ આપવો.</p>
કપાસ	વાવેતર / ઉગાવો	કપાસ બોલગાર્ડ-૨ની પ્રમાણિત જાતો જેવી કે વહેલી પાકતી જાતો : ગુજરાત શંકર-૮, એટીએમ, ફર્સ્ટ ક્લાસ, ૭૫૭૬, વી-૩૩૩, જાદુ, જય, સરજ, સુરક્ષા, બળવાન, ભક્તિ,	<p>કપાસના પાકમાં ગુલાબી ઈયળનો ઉપદ્રવ નાં થાય તે માટે ઓરવીને આગોતરું વાવેતર કરવું નહિ.</p> <p>વાવણી લાયક વરસાદ થયે સમયસર વાવેતર કરવું.</p> <p>કપાસના પાકમાં ઈયળોમાં બીટી જીન સામે પ્રતિકારક શક્તિ ના આવે તે માટે બિયારણના પેકેટ સાથે આપવામાં આવતું નોનબીટી (રેફ્યુઝી) બીજનું વાવેતર અવશ્ય કરવું.</p> <ul style="list-style-type: none"> <li>અનિયમિત વરસાદનું જોખમ ઓછું કરવા કપાસના પાકમાં તલ, મગફળી, સોયાબીન, કઠોળ જેવા પાકોનું આંતર પાક તરીકે વાવેતરનું આયોજન કરવું.</li> </ul>

		ભદ્રા, આરસીએચ-૭૭૯ મધ્યમ મોડી પાકતી જાતો : ગુજરાત શંકર-૬, એગ્રીટોપ-૪૪૪, એગ્રીટોપ-૭૭૭ , સોલાર-૭૬, મલ્લિકા,આરસીએ ચ-૬૫૯, અજીત- ૧૫૫	
તલ	વાવેતર / ઉગાવો	ગુજરાત તલ- ૨, ગુજરાત તલ- ૩, ગુજરાત તલ- ૫	
બાજરી	વાવેતર / ઉગાવો	જીએચબી-૫૫૮ જીએચબી-૫૩૮, જીએચબી-૫૭૭, જીએચબી-૭૧૯, જીએચબી-૭૩૨ અને જીએચબી-૭૪૪	
કઠોળ પાકો	વાવેતર / ઉગાવો	ચોમાસું કઠોળ પાકો માટે મગની ગુજરાત મગ-૪ , કે-૮૫૧, ગુજરાત આણંદ મગ-૫ અને અડદની ગુજરાત અડદ -૧, ૨ ચોળા માટે - ગુજરાત ચોળા -૧,૨,૪, પૂસા ફાલ્ગુની, તુવેર માટે બીડીએન-૨, ગુજરાત તુવેર -૧૦૦, ગુજરાત તુવેર હાઈબ્રીડ-૧, પૈકી પસંદગીની જાતોનું સારી ગુણવત્તાનું પ્રમાણિત બીજ સમયસર મેળવી લેવું.	
ભીંડા	ફૂલ/ફળ	સફેદમાખી, પાન કથીરી	થ્રીપ્સના નિયંત્રણ માટે લીંબોળીનું તેલ ૫૦ મિલિ અથવા લીંબોળીના મીંજનું 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. <b>જો પાન કથીરીનો ઉપદ્રવ હોય તો ઇથીઓન ૩૦ મિલી પ્રતિ પંપ છંટકાવ કરવો.</b> <b>ભીંડાની વીણી બાદ પ્રતિ એકરે ૫-૭ કી.ગ્રા. યુરિઆ ખાતર આપવું.</b>
શાકભાજી	ધરૂં ઉછેર/રોપણી વાવેતર	મરચી,ટમેટી, રીંગણ, અને કોબીઝના ધરૂં તૈયાર કરવા (ગ્રીન શેડ નેટમાં અને નેટની ઊંચાઈ ૬.૫ ફૂટ રાખવી) ગાદી ક્યારા બનાવી તેમાં બીજનું વાવેતર કરવું. જો ધરૂં 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	ઉનાળુ શાકભાજીમાં સફેદમાખીના નિયંત્રણ માટે લીંબોળીનું તેલ

દૂધી		માખી	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.
ગલકા			
કારેલા			
ગુવાર			
કાકડી		કથીરી તળછારો	જો પાન કથીરીનો ઉપદ્રવ હોય તો ઇથીઓન ૩૦ મિલી પ્રતિ પંપ છાન્કાવ કરવો. વેલાવાળા શાકભાજીમાં તળછારાના નિયંત્રણ માટે મેન્કોઝેબ ૪૦ ગ્રામ પ્રતિ પંપમાં મિશ્ર કરી છંટકાવ કરવો. વેલાવાળા શાકભાજી પાકોમાં હળવા અને ટુંકા અંતરે પિયત આપી યોગ્ય ભેજ જાળવવો જેથી પરાગનયન પ્રક્રિયા સારી રીતે થવાથી ઉત્પાદન સારું મળે.
રીંગણી અને ટમેટી	ફૂલ/ફળ	સફેદ માખી  ડુંખ અને→ ફળ કોરી ખાનાર ઈયળ  કથીરી →	<ul style="list-style-type: none"> <li>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.</li> <li>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 ૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો.</li> <li>રીંગણી અને ટમેટીના પાકમાં પાન કથીરીના નિયંત્રણ માટે પ્રોપરગાઈટ દવા ૧૦ મિલી/૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો.</li> </ul>
મરચી	ફૂલ/ફળ	પાનની કુક્ડ- થીપ્સ→  પાનની કુક્ડ- 	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 કુક્ડાય ગયેલ છોડ ઉપાડી તેનો જમીનમાં દાટી નાશ કરવો. ત્યાં સફેદ માખીથી ફેલાતો હોવાથી તેના નિયંત્રણ માટે હોસ્તાથીયોન દવા ૨૦ મી.લી./૧૦ લી. પાણીમાં મિશ્ર કરી છંટકાવ કરવો.



		કચીરી	જો પાન કચીરીનો ઉપદ્રવ હોય તો ઇથીઓન ૩૦ મિલી પ્રતિ પંપ છાન્કાવ કરવો.
લીંબુ	ફળનો વિકાસ	પાન કચીરી  સાયલા અને થ્રીપ્સ  બદામી ટપકાં પાનકોરીયુ	<p>ઊંચા તાપમાનને કારણે લીંબુના બગીચામાં પાન કચીરીનો 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 ટ્રાયએફોસ ૪૦ ટકા ૨૦/૧૦ લિટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો.</p> <p>ટપકાના નિયંત્રણ માટે કોપર ઓક્સીક્લોરાઈડ ૪૦ અને ૧.૫ ગ્રામ સ્ટ્રેપ્ટોસાયક્લીનના બે છંટકાવ ૧૫ દિવસના ગળે કરવા.</p> <p>પાનકોરીયુના નિયંત્રણ માટે ડીડીવીપી ૧૦ મી.લી. ૧૦ લિટર પાણીમાં મિશ્ર કરીને છાંટવી.</p>
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. ખુલ્લામાં રાખેલ ઘાસસારો વરસાદથી બગડે નહિ તે માટે જરૂરી પગલા ભરવા.</p>		



જુકૃયુ/ટેકનિકલ ઓફિસર.(સુખે)/એગોમેટ/બુલેટીન/ /૨૦૧૯  
તરઘડિયા(રાજકોટ), તારીખ: ૨૮/૦૬/૨૦૧૯.

પ્રતિ,  
તંત્રીશ્રી/ડાયરેક્ટરશ્રી,  
રાજકોટ,

ઉપરોક્ત માહિતી આપના દૈનિક સમાચાર પત્રોમાં, રેડિયોમાં 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.26-for the Rajkot district**

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

(Period 29-June to 03-July - 2019)

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

Rainfall (mm)	30.8
Maximum temperature (°C)	32.3-36.8
Minimum temperature (°C)	24.1-26.3
Relative Humidity (%) I	82-87
Relative Humidity (%) II	48-72
Wind speed (Kmph)	5.3-7.8

**Weather forecast until 08-30 hrs. of 03/07/2019**


**(1) RAJKOT DISTRICT:**



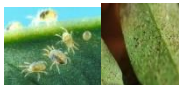


	29/06/19	30/06/19	01/07/19	02/07/19	03/07/19
Rainfall (mm)	15	15	10	3	0
Max.Temp.(°C)	37	36	36	36	36
Min.Temp.(°C)	27	27	27	27	27
Total CC (octa)	8	8	8	6	6
RH-I (%)	73	73	73	72	73
RH-II (%)	48	52	54	53	51
Wind Speed (kmph)	29	26	22	21	18
Wind Direction(deg.)	264	265	254	242	239

**Agro meteorological Advisories:**

<b>General Advice</b>	<ul style="list-style-type: none"> <li>• <b>Rain fall:</b> hot, humid and generally cloudy to cloudy weather forecasted for next five days. During 29 June to 02-July light to moderate rainfall forecasted.</li> <li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 36-37°C and 27-27°C, respectively.</li> <li>• <b>Relative Humidity:</b> The RH-I and RH-II is likely to be in the range of 72-73% &amp; 48-54, respectively.</li> <li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be W, SW and 18-29 km/h, respectively.</li> <li>• <b>Complete sowing of kharif crops in time where sufficient rainfall received.</b></li> <li>• <b>Carry out Planking or harrowing after sowing to conserve moisture for better germination, where sowing is over.</b></li> <li>• <b>Make provision to drain excess water from field, harvest and store it in reservoir.</b></li> <li>• <b>Farmer are also advised to adopt cotton-sesame, cotton-groundnut and cotton-maize inter cropping system as risk management.</b></li> </ul>		
<b>Crops</b>	<b>Stage</b>	<b>Insect/Pest/ Variety</b>	<b>Advisory</b>

<b>Kharif groundnut</b>	Germination/On set of monsoon	Semi spreading, GG-20, GG-22 Bunch, GG-2, GJG-31, GJG-32, GG-5, TAG-24, TG-37 A, TPG-41, TLG-45,	Carry out sowing in time where sufficient rainfall received. Apply 156 kg/ha SSP, 62 kg/ha Ammonium sulphate and 500 kg/ha Castor cake as basal dose. <b>Seed treatment with Dithane M-45/Captan/vitavax @ 2 grams per kg of seeds before sowing is advised.</b> As preventive measure for white grub infestation in groundnut crop treat the seed with Chlorpyrifos 20 % EC OR Quinalfos 25 % EC @ 25 ml/kg seed at the time of sowing.
<b>Cotton</b>	Germination/ sowing	<b>Early:</b> Bg-II GCH-8, GTHH-49, ATM, Jay, First Class, 7576, V-333, Neo, Beejdhan-2, Sarju, Atom, Bhakti, Bhadra <b>Medium Late:</b> Bg-II GCH-6, RCH-659, Agritop-777, Agritop-444, Solar-76, Swapna, Mallika, Ajit-155	<b>Procure good quality of seeds for kharif .</b> Carry out sowing in time where sufficient rainfall received. <b>Farmers are kindly advised to sow non-BT cotton seeds (Refuse) given with cotton BT-II seeds to prevent resistance in boll worms against BT-II technology.</b> Apply 20 kg nitrogen/ha as basal for rainfed cotton. Adopt inter crop like sesame, groundnut, soybean, pulses and maize in cotton crop for risk management.
<b>Sesame</b>	Germination/ sowing	GT-2 or GT-3 variety.	<b>Procure good quality of seeds for kharif sowing &amp; Carry out sowing in time where sufficient rainfall received.</b>
<b>Pearl millet</b>	Germination/ sowing	GHB-558,577,538,719, 732,744	<b>Procure good quality of seeds for kharif sowing &amp; Carry out sowing in time where sufficient rainfall received.</b>
<b>Pulses</b>	Germination/ sowing	Farmers growing pulses are advised to select variety GM-4, K-851 & GAM-5 for green gram, Guj. Adud-1 for black gram, Gujarat cowpea-1,2,4, PusaFalguni for cowpea , BDN-2, GT-100, GTH-1 for pigeon pea and <b>Procure good quality of seeds for kharif sowing &amp; Carry out sowing in time where sufficient rainfall received.</b>	
<b>Vegetables</b>	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 <b>Bottle Gourd-Junagadh long tender</b> , Pusa Naveen, PusaSamridhi <b>Bitter Gourd-</b> PusaVisesh, Pusa-2 mosumi, <b>Pumpkin-PusaVisvash</b> , PusaVikash <b>Ridge Gourd-G.J.H-1</b> , PusaChikni etc. Faremrs are also advised for Sowing of ladyfinger, cluster bean, kidney bean, cowpea, tur, amranthus.	
<b>Lady finger</b>	Flowering/ fruiting	White flies & mites	Spray 500 ml of 5 % <b>neem seed extract</b> neem seed oil 50 ml with withacetamiprid 20 % SP@ 5.0 gm or <b>imidacloprid 30.5 SC</b> 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.
<b>Ridge gourd, Bottle gourd, Sponge guard, Bitter guard&amp; cucurbitaceous crops</b>	Flowering & fruiting	Thrips& white flies/  Mites  Downy mildew	Optimum moisture level should be maintained in cucurbitaceous crops by light and frequent irrigation as dry conditions may lead to poor pollination and thus drop in yield of the crop.  In all vegetable crops thrips infestation observed above ETL. Spray 500 ml of 5 % <b>neem seed extract</b> neem seed oil 50 ml withacetamiprid 20 % SP@ 5.0 gm or <b>imidacloprid 30.5 SC</b> 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.
<b>Cluster bean</b>	Growing/fruiting	Thrips, white fly	To control them spray <b>neem seed extract</b> 500 ml or neem seed oil 50 or neem oil 40 ml and <b>acetamiprid</b> 20 % SP@ 5.0 gm / 10 lit of water at 15 days interval
<b>Brinjal&amp; Tomato</b>	Flowering/ fruiting	<b>Sucking pest</b> → & <b>Fruit borer</b>  	To control sucking pest spray <b>neem seed extract</b> 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.
<b>Chili</b>	Flowering/ fruiting	<b>Thrips</b> →	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

		 Leaf curling Virus→  Mites	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 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
<b>Lemon</b>	Fruit development	<b>Mite</b>  <b>Psylla and thrips</b>  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 <b>imidacloprid 30.5 % 5 ml</b> / 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.
<b>Livestock &amp; poultry</b> 	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. Due to chance of rainfall at isolated places keep animals indoors during rainfall. Keep fodder in safe place to avoid spoilage due to rainfall. 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 light 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.-26 for the Morbi district**  
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(Period 30-June to 03-July- 2019)

## Weather forecast until 08-30 hrs. of 03/07/2019

### (2) MORBI DISTRICT:




	29/06/19	30/06/19	01/07/19	02/07/19	03/07/19
Rainfall (mm)	10	15	20	14	0
Max.Temp.(°C)	37	36	36	36	36
Min.Temp.(°C)	27	27	27	27	27
Total CC (octa)	8	7	7	5	6
RH-I (%)	87	88	83	79	76
RH-II (%)	72	68	64	51	49
Wind Speed (kmph)	15	8	9	16	19
Wind Direction(deg.)	281	269	218	224	245




### Agro meteorological Advisories:

<b>General Advice</b>	<ul style="list-style-type: none"> <li>• <b>Rain fall:</b> hot, humid and generally cloudy to cloudy weather forecasted for next five days. During 29 June to 02-July moderate rainfall forecasted.</li> <li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 36-37°C and 27-27°C, respectively.</li> <li>• <b>Relative Humidity:</b> The RH-I and RH-II is likely to be in the range of 76-88% &amp; 49-72, respectively.</li> <li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be W, SW and 8-19 km/h, respectively.</li> <li>• <b>Complete sowing of kharif crops in time where sufficient rainfall received.</b></li> <li>• <b>Carry out Planking or harrowing after sowing to conserve moisture for better germination, where sowing is over.</b></li> <li>• <b>Make provision to drain excess water from field, harvest and store it in reservoir.</b></li> <li>• <b>Farmer are also advised to adopt cotton-sesame, cotton-groundnut and cotton-maize inter cropping system as risk management.</b></li> </ul>		
Crops	Stage	Insect/Pest/ Variety	Advisory
<b>Kharif groundnut</b>	Germination/On set of monsoon	Semi spreading, GG-20, GG-22 Bunch, GG-2, GJG-31, GJG-32, GG-5, TAG-24, TG-37 A, TPG-41, TLG-45,	Carry out sowing in time where sufficient rainfall received. Apply 156 kg/ha SSP, 62 kg/ha Ammonium sulphate and 500 kg/ha Castor cake as basal dose. <b>Seed treatment with Dithane M-45/Captan/vitavax @ 2 grams per kg of seeds before sowing is advised.</b> As preventive measure for white grub infestation in groundnut crop treat the seed with Chlorpyrifos 20 % EC OR Quinalfos 25 % EC @ 25 ml/kg seed at the time of sowing.

<b>Cotton</b>	Germination/ sowing	<p><b>Early:</b>Bg-II GCH-8, GTHH-49, ATM, Jay, First Class, 7576, V-333, Neo, Beejdhan-2, Sarju, Atom, Bhakti,Bhadra</p> <p><b>Medium Late:</b>Bg-II GCH-6, RCH-659, Agritop-777, Agritop-444, Solar-76, Swapna, Mallika, Ajit-155</p>	<p><b>Procure good quality of seeds for kharif .</b> Carry out sowing in time where sufficient rainfall received.</p> <p><b>Farmers are kindly advised to sow non-BT cotton seeds (Refuse) given with cotton BT-II seeds to prevent resistance in ball worms against BT-II technology.</b> Apply 20 kg nitrogen/ha as basal for rainfed cotton. Adopt inter crop like sesame, groundnut, soybean, pulses and maize in cotton crop for risk management.</p>
<b>Sesame</b>	Germination/ sowing	GT-2 or GT-3 variety.	<b>Procure good quality of seeds for kharif sowing &amp; Carry out sowing in time where sufficient rainfall received.</b>
<b>Pearl millet</b>	Germination/ sowing	GHB-558,577,538,719, 732,744	<b>Procure good quality of seeds for kharif sowing &amp; Carry out sowing in time where sufficient rainfall received.</b>
<b>Pulses</b>	Germination/ sowing	Farmers growing pulses are advised to select variety GM-4, K-851 & GAM-5for green gram, Guj. Adud-1 for black gram, Gujarat cowpea-1,2,4, PusaFalguni for cowpea , BDN-2, GT-100, GTH-1 for pigeon pea and <b>Procure good quality of seeds for kharif sowing &amp; Carry out sowing in time where sufficient rainfall received.</b>	
<b>Vegetables</b>	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 <b>Bottle Gourd-Junagadh long tender</b> , Pusa Naveen, PusaSamridhi <b>Bitter Gourd-</b> PusaVisesh, Pusa-2 mosumi, <b>Pumpkin</b> -PusaVisvash, PusaVikash <b>Ridge Gourd</b> -G.J.H-1, PusaChikni etc. Faremrns are also advised for Sowing of ladyfinger, cluster bean, kidney bean, cowpea, tur, amranthus.	
<b>Lady finger</b>	Flowering/ fruiting	White flies & mites	Spray 500 ml of 5 % <b>neem seed extract</b> or <b>neem seed oil</b> 50 ml with with <b>acetamiprid</b> 20 % SP@ 5.0 gm or <b>imidacloprid 30.5 SC</b> 3 ml/10 lit of water for whiteflies control.



			<p>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.</p> <p>After harvesting of mature okra application of urea @ 5-10 kg/ acre should be done.</p>
<p><b>Ridge gourd, Bottle gourd, Sponge guard, Bitter guard &amp; cucurbitaceous crops</b></p>	Flowering & fruiting	<p>Thrips &amp; white flies/</p> <p>Mites</p> <p>Downy mildew</p>	<p>Optimum moisture level should be maintained in cucurbitaceous crops by light and frequent irrigation as dry conditions may lead to poor pollination and thus drop in yield of the crop.</p> <p>In all vegetable crops thrips infestation observed above ETL. Spray 500 ml of 5 % <b>neem seed extract</b> or neem seed oil 50 ml with acetamiprid 20 % SP@ 5.0 gm or <b>imidacloprid 30.5 SC</b> 3 ml/10 lit of water for whiteflies control.</p> <p>If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water for the control of Mites.</p> <p>For the control of downy mildew spray mencozeb 40g/pump.</p>
<b>Cluster bean</b>	Growing/fruiting	Thrips, white fly	To control them spray <b>neem seed extract</b> 500 ml or neem seed oil 50 or neem oil 40 ml and <b>acetamiprid</b> 20 % SP@ 5.0 gm / 10 lit of water at 15 days interval
<b>Brinjal &amp; Tomato</b>	Flowering/fruiting	<p><b>Sucking pest</b> →</p> <p>&amp; <b>Fruit borer</b></p> 	<p>To control sucking pest spray <b>neem seed extract</b> 5 % or neem seed oil 50 ml and To control them spray acetamiprid 20 % SP@ 5.0 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 Spinosad 3.0 ml/10 litre of water is advised against fruit borer.</p>
<b>Chili</b>	Flowering/fruiting	<p><b>Thrips</b> →</p>  <p>Leaf curling</p> <p>Virus →</p>  <p>Mites</p>	<p>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 remains clear.</p> <p>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><b>Lemon</b></p>	<p>Fruit development</p>	<p><b>Mite</b></p>  <p><b>Psylla and thrips</b></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 &amp; thrips spray <b>imidacloprid 30.5 % 5 ml</b> / 10 lit of water ml/10 lit of water.</p> <p>Spray copper oxychloride 40 gm or streptocyclie 1.5 gm in 10 litre of water</p> <p>Spray Dichlorvosh 10 ml or Quinalphos 20 ml in 10 litres of water for control of leafminor.</p>
<p><b>Livestock &amp; poultry</b></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. Due to chance of rainfall at isolated places keep animals indoors during rainfall. Keep fodder in safe place to avoid spoilage due to rainfall. 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 light 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.**

	<p><b>GraminKrushiMausamSeva</b>  <b>Main Dry Farming Research Station</b>  <b>Junagadh Agricultural University</b>  <b>Targhadia (Rajkot) - 360 003</b>  <b>Phone: (0281)2784260(O), 2331686(R)</b>  <b>Fax : ( 0281)2784722, Cell :94277 28523</b></p>	
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**Agro met Advisory Service bulletin No.-26 for the Jamnagar district**

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

(Period 29-June to 03-July - 2019)

**Weather forecast until 08-30 hrs of 03/07/2019**

**(3) JAMNAGAR DISTRICT:**






	29/06/19	30/06/19	01/07/19	02/07/19	03/07/19
Rainfall (mm)	10	10	3	4	4
Max. Temp.(°C)	34	33	33	33	33
Min. Temp.(°C)	28	28	28	28	28
Total CC (octa)	7	7	8	7	7


RH-I (%)	78	78	78	78	79
RH-II (%)	64	66	67	69	68
Wind Speed (kmph)	35	28	27	24	22
Wind Direction(deg.)	263	261	250	238	245

### Agro meteorological Advisories:-

<p><b>General Advice</b></p>	<ul style="list-style-type: none"> <li>• <b>Rain fall: hot, humid and generally cloudy to cloudy weather forecasted for next five days. During 29 June to 03-July light rainfall forecasted.</b></li> <li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 33-34°C and 28-28°C, respectively.</li> <li>• <b>Relative Humidity:</b> The RH-I and RH-II is likely to be in the range of 78-79% &amp; 64-69, respectively.</li> <li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be W, SW and 22-35 km/h, respectively.</li> <li>• <b>Complete sowing of kharif crops in time where sufficient rainfall received.</b></li> <li>• <b>Carry out Planking or harrowing after sowing to conserve moisture for better germination, where sowing is over.</b></li> <li>• <b>Make provision to drain excess water from field, harvest and store it in reservoir.</b></li> <li>• <b>Farmer are also advised to adopt cotton-sesame, cotton-groundnut and cotton-maize inter cropping system as risk management.</b></li> </ul>		
Crops	Stage	Insect/Pest/ Variety	Advisory
<p><b>Kharif groundnut</b></p>	<p>Germination/On set of monsoon</p>	<p>Semi spreading, GG-20, GG-22 Bunch, GG-2, GJG-31, GJG-32, GG-5, TAG-24, TG-37 A, TPG-41, TLG-45,</p>	<p>Carry out sowing in time where sufficient rainfall received. Apply 156 kg/ha SSP, 62 kg/ha Ammonium sulphate and 500 kg/ha Castor cake as basal dose. <b>Seed treatment with Dithane M-45/Captan/vitavax @ 2 grams per kg of seeds before sowing is advised.</b> <b>As preventive measure for white grub infestation in groundnut crop treat the seed with Chlorpyrifos 20 % EC OR Quinalfos 25 % EC @ 25 ml/kg seed at the time of sowing.</b></p>
<p><b>Cotton</b></p>	<p>Germination/sowing</p>	<p><b>Early:</b>Bg-II GCH-8, GTHH-49, ATM, Jay, First Class, 7576, V-333, Neo, Beejdhhan-2, Sarju, Atom,</p>	<p><b>Procure good quality of seeds for kharif .</b> Carry out sowing in time where sufficient rainfall received. <b>Farmers are kindly advised to sow non-BT cotton seeds (Refuse) given with cotton BT-II seeds to prevent resistance in ball worms against BT-II technology.</b> Apply 20 kg nitrogen/ha as basal for rainfed cotton.</p>

		Bhakti,Bhadra  <b>Medium Late:</b> Bg-II GCH-6, RCH-659, Agritop-777, Agritop-444, Solar-76, Swapna, Mallika, Ajit-155	Adopt inter crop like sesame, groundnut, soybean, pulses and maize in cotton crop for risk management.
<b>Sesame</b>	Germination/ sowing	GT-2 or GT-3 variety.	<b>Procure good quality of seeds for kharif sowing &amp; Carry out sowing in time where sufficient rainfall received.</b>
<b>Pearl millet</b>	Germination/ sowing	GHB-558,577,538,719, 732,744	<b>Procure good quality of seeds for kharif sowing &amp; Carry out sowing in time where sufficient rainfall received.</b>
<b>Pulses</b>	Germination/ sowing	Farmers growing pulses are advised to select variety GM-4, K-851 & GAM-5for green gram, Guj. Adud-1 for black gram, Gujarat cowpea-1,2,4, PusaFalguni for cowpea , BDN-2, GT-100, GTH-1 for pigeon pea and <b>Procure good quality of seeds for kharif sowing &amp; Carry out sowing in time where sufficient rainfall received.</b>	
<b>Vegetables</b>	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 <b>Bottle Gourd-Junagadh long tender</b> , Pusa Naveen, PusaSamridhi <b>Bitter Gourd-</b> PusaVisesh, Pusa-2 mosumi, <b>Pumpkin</b> -PusaVisvash, PusaVikash <b>Ridge Gourd-G.J.H-1</b> , PusaChikni etc. Faremrns are also advised for Sowing of ladyfinger, cluster bean, kidney bean, cowpea, tur, amranthus.	
<b>Lady finger</b>	Flowering/ fruiting	White flies & mites	Spray 500 ml of 5 % <b>neem seed extract</b> orneem seed oil 50 ml with withacetamiprid 20 % SP@ 5.0 gm or <b>imidacloprid 30.5 SC</b> 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.

<b>Ridge gourd, Bottle gourd, Sponge guard, Bitter guard &amp; cucurbitaceous crops</b>	Flowering & fruiting	Thrips & white flies/  Mites  Downy mildew	<p>Optimum moisture level should be maintained in cucurbitaceous crops by light and frequent irrigation as dry conditions may lead to poor pollination and thus drop in yield of the crop.</p> <p>In all vegetable crops thrips infestation observed above ETL. Spray 500 ml of 5 % <b>neem seed extract</b> or neem seed oil 50 ml with acetamiprid 20 % SP @ 5.0 gm or <b>imidacloprid 30.5 SC</b> 3 ml/10 lit of water for whiteflies control.</p> <p>If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water for the control of Mites.</p> <p>For the control of downy mildew spray mencozeb 40g/pump.</p>
<b>Cluster bean</b>	Growing/fruiting	Thrips, white fly	To control them spray <b>neem seed extract</b> 500 ml or neem seed oil 50 or neem oil 40 ml and <b>acetamiprid</b> 20 % SP @ 5.0 gm / 10 lit of water at 15 days interval
<b>Brinjal &amp; Tomato</b>	Flowering/fruiting	<b>Sucking pest</b> → & <b>Fruit borer</b>  	<p>To control sucking pest spray <b>neem seed extract</b> 5 % or neem seed oil 50 ml and To control them spray acetamiprid 20 % SP @ 5.0 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 Spinosad 3.0 ml/10 litre of water is advised against fruit borer.</p>
<b>Chili</b>	Flowering/fruiting	<b>Thrips</b> →  Leaf curling Virus →  Mites	<p>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 10 litre of water is advised for control the vector, when sky remains clear.</p> <p>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>
<b>Lemon</b>	Fruit development	<b>Mite</b>   <b>Psylla and thrips</b> 	<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 &amp; thrips spray</p>

		Citrus canker Leaf minor	<b>imidacloprid 30.5 % 5 ml</b> / 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.
<b>Livestock &amp; poultry</b> 	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. Due to chance of rainfall at isolated places keep animals indoors during rainfall. Keep fodder in safe place to avoid spoilage due to rainfall. 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 light 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.**

	<p><b>GraminKrushiMausamSeva</b>  <b>Main Dry Farming Research Station</b>  <b>Junagadh Agricultural University</b>  <b>Targhadia (Rajkot) - 360 003</b>  <b>Phone: (0281)2784260(O), 2331686(R)</b>  <b>Fax : ( 0281)2784722, Cell :94277 28523</b></p>	
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**Agro met Advisory Service bulletin No.-26 for the DevbhumiDwarka district**

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

(Period 29-June to 03-July - 2019)

**Weather forecast until 08-30 hrs of 03/07/2019**

**(4) DEVBHUMI DWARKA DISTRICT:**

	29/06/19	30/06/19	01/07/19	02/07/19	03/07/19
Rainfall (mm)	15	10	5	3	3
Max. Temp.(°C)	33	32	33	33	33
Min. Temp.(°C)	28	28	28	28	28
Total CC (octa)	6	7	8	7	7








RH-I (%)	77	77	78	79	78
RH-II (%)	61	63	68	67	65
Wind Speed (kmph)	35	26	26	23	22
Wind Direction(deg.)	263	261	250	236	246


### Agro meteorological Advisories:-

<p><b>General Advice</b></p>	<ul style="list-style-type: none"> <li>• <b>Rain fall:</b> hot, humid and generally cloudy to cloudy weather forecasted for next five days. During 29 June to 03-July light to moderate rainfall forecasted.</li> <li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 32-33°C and 28-28°C, respectively.</li> <li>• <b>Relative Humidity:</b> The RH-I and RH-II is likely to be in the range of 77-79% &amp; 61-68, respectively.</li> <li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be W, SW and 22-35 km/h, respectively.</li> <li>• <b>Complete sowing of kharif crops in time where sufficient rainfall received.</b></li> <li>• <b>Carry out Planking or harrowing after sowing to conserve moisture for better germination, where sowing is over.</b></li> <li>• <b>Make provision to drain excess water from field, harvest and store it in reservoir.</b></li> <li>• <b>Farmer are also advised to adopt cotton-sesame, cotton-groundnut and cotton-maize inter cropping system as risk management.</b></li> </ul>		
Crops	Stage	Insect/Pest/ Variety	Advisory
<p><b>Kharif groundnut</b></p>	<p>Germination/On set of monsoon</p>	<p>Semi spreading, GG-20, GG-22 Bunch, GG-2, GJG-31, GJG-32, GG-5, TAG-24, TG-37 A, TPG-41, TLG-45,</p>	<p>Carry out sowing in time where sufficient rainfall received. Apply 156 kg/ha SSP, 62 kg/ha Ammonium sulphate and 500 kg/ha Castor cake as basal dose. <b>Seed treatment with Dithane M-45/Captan/vitavax @ 2 grams per kg of seeds before sowing is advised.</b> <b>As preventive measure for white grub infestation in groundnut crop treat the seed with Chlorpyrifos 20 % EC OR Quinalfos 25 % EC @ 25 ml/kg seed at the time of sowing.</b></p>
<p><b>Cotton</b></p>	<p>Germination/sowing</p>	<p><b>Early:</b>Bg-II GCH-8, GTHH-49, ATM, Jay, First Class, 7576, V-333, Neo, Beejdhhan-2, Sarju, Atom,</p>	<p><b>Procure good quality of seeds for kharif .</b> Carry out sowing in time where sufficient rainfall received. <b>Farmers are kindly advised to sow non-BT cotton seeds (Refuse) given with cotton BT-II seeds to prevent resistance in boll worms against BT-II technology.</b> Apply 20 kg nitrogen/ha as basal for rainfed cotton.</p>



		Bhakti,Bhadra  <b>Medium Late:</b> Bg-II GCH-6, RCH-659, Agritop-777, Agritop-444, Solar-76, Swapna, Mallika, Ajit-155	Adopt inter crop like sesame, groundnut, soybean, pulses and maize in cotton crop for risk management.
<b>Sesame</b>	Germination/ sowing	GT-2 or GT-3 variety.	<b>Procure good quality of seeds for kharif sowing &amp; Carry out sowing in time where sufficient rainfall received.</b>
<b>Pearl millet</b>	Germination/ sowing	GHB-558,577,538,719, 732,744	<b>Procure good quality of seeds for kharif sowing &amp; Carry out sowing in time where sufficient rainfall received.</b>
<b>Pulses</b>	Germination/ sowing	Farmers growing pulses are advised to select variety GM-4, K-851 & GAM-5for green gram, Guj. Adud-1 for black gram, Gujarat cowpea-1,2,4, PusaFalguni for cowpea , BDN-2, GT-100, GTH-1 for pigeon pea and <b>Procure good quality of seeds for kharif sowing &amp; Carry out sowing in time where sufficient rainfall received.</b>	
<b>Vegetables</b>	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 <b>Bottle Gourd-Junagadh long tender</b> , Pusa Naveen, PusaSamridhi <b>Bitter Gourd-</b> PusaVisesh, Pusa-2 mosumi, <b>Pumpkin</b> -PusaVisvash, PusaVikash <b>Ridge Gourd-G.J.H-1</b> , PusaChikni etc. Faremrns are also advised for Sowing of ladyfinger, cluster bean, kidney bean, cowpea, tur, amranthus.	
<b>Lady finger</b>	Flowering/ fruiting	White flies & mites	Spray 500 ml of 5 % <b>neem seed extract</b> orneem seed oil 50 ml with withacetamiprid 20 % SP@ 5.0 gm or <b>imidacloprid 30.5 SC</b> 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.

<b>Ridge gourd, Bottle gourd, Sponge guard, Bitter guard &amp; cucurbitaceous crops</b>	Flowering & fruiting	Thrips & white flies/  Mites  Downy mildew	<p>Optimum moisture level should be maintained in cucurbitaceous crops by light and frequent irrigation as dry conditions may lead to poor pollination and thus drop in yield of the crop.</p> <p>In all vegetable crops thrips infestation observed above ETL. Spray 500 ml of 5 % <b>neem seed extract</b> or neem seed oil 50 ml with acetamiprid 20 % SP @ 5.0 gm or <b>imidacloprid 30.5 SC</b> 3 ml/10 lit of water for whiteflies control.</p> <p>If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water for the control of Mites.</p> <p>For the control of downy mildew spray mencozeb 40g/pump.</p>
<b>Cluster bean</b>	Growing/fruiting	Thrips, white fly	To control them spray <b>neem seed extract</b> 500 ml or neem seed oil 50 or neem oil 40 ml and <b>acetamiprid</b> 20 % SP @ 5.0 gm / 10 lit of water at 15 days interval
<b>Brinjal &amp; Tomato</b>	Flowering/fruiting	<b>Sucking pest</b> → & <b>Fruit borer</b>  	<p>To control sucking pest spray <b>neem seed extract</b> 5 % or neem seed oil 50 ml and To control them spray acetamiprid 20 % SP @ 5.0 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 Spinosad 3.0 ml/10 litre of water is advised against fruit borer.</p>
<b>Chili</b>	Flowering/fruiting	<b>Thrips</b> →  Leaf curling Virus →  Mites	<p>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 10 litre of water is advised for control the vector, when sky remains clear.</p> <p>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>
<b>Lemon</b>	Fruit development	<b>Mite</b>   <b>Psylla and thrips</b> 	<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 &amp; thrips spray</p>

		Citrus canker Leaf minor	<b>imidacloprid 30.5 % 5 ml</b> / 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.
<b>Livestock &amp; poultry</b> 	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. Due to chance of rainfall at isolated places keep animals indoors during rainfall. Keep fodder in safe place to avoid spoilage due to rainfall. 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 light 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.**

	<p><b>GraminKrushiMausamSeva</b>  <b>Main Dry Farming Research Station</b>  <b>Junagadh Agricultural University</b>  <b>Targhadia (Rajkot) - 360 003</b>  <b>Phone: (0281)2784260(O), 2331686(R)</b>  <b>Fax : ( 0281)2784722, Cell :94277 28523</b></p>	
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**Agro met Advisory Service bulletin No.-26 for the Amreli district**  
(Issued jointly by DFRS, J.A.U., Targhadia (Rajkot) and India Meteorological Department)  
(Period 29-June to 03-July - 2019)

**Weather forecast until 08-30 hrs of 03/07/2019**

**(5) AMRELI DISTRICT:**






	29/06/19	30/06/19	01/07/19	02/07/19	03/07/19
Rainfall (mm)	80	18	26	14	3
Max.Temp.(°C)	36	36	37	36	36
Min.Temp.(°C)	27	27	27	27	27
Total CC (octa)	8	8	8	7	6

RH-I (%)	78	78	77	77	78
RH-II (%)	60	61	58	58	57
Wind Speed (kmph)	22	19	19	18	18
Wind Direction(deg.)	265	270	259	248	244


### Agro meteorological Advisories:

<p><b>General Advice</b></p>	<ul style="list-style-type: none"> <li>• <b>Rain fall:</b> hot, humid and generally cloudy to cloudy weather forecasted for next five days. During 29-June very heavy rainfall &amp; 30-June to 03-July light to moderate rainfall forecasted.</li> <li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 36-37°C and 27-27°C, respectively.</li> <li>• <b>Relative Humidity:</b> The RH-I and RH-II is likely to be in the range of 77-78% &amp; 57-61, respectively.</li> <li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be W, SW and 18-22 km/h, respectively.</li> <li>• <b>Complete sowing of kharif crops in time where sufficient rainfall received.</b></li> <li>• <b>Carry out Planking or harrowing after sowing to conserve moisture for better germination, where sowing is over.</b></li> <li>• <b>Make provision to drain excess water from field, harvest and store it in reservoir.</b></li> <li>• <b>Farmer are also advised to adopt cotton-sesame, cotton-groundnut and cotton-maize inter cropping system as risk management.</b></li> </ul>			
Crops	Stage	Insect/Pest/ Variety	Advisory	
<p><b>Kharif groundnut</b></p>	<p>Germination/On set of monsoon</p>	<p>Semi spreading, GG-20, GG-22 Bunch, GG-2, GJG-31, GJG-32, GG-5, TAG-24, TG-37 A, TPG-41, TLG-45,</p>	<p>Carry out sowing in time where sufficient rainfall received. Apply 156 kg/ha SSP, 62 kg/ha Ammonium sulphate and 500 kg/ha Castor cake as basal dose. <b>Seed treatment with Dithane M-45/Captan/vitavax @ 2 grams per kg of seeds before sowing is advised.</b> As preventive measure for white grub infestation in groundnut crop treat the seed with Chlorpyrifos 20 % EC OR Quinalfos 25 % EC @ 25 ml/kg seed at the time of sowing.</p>	
<p><b>Cotton</b></p>	<p>Germination/sowing</p>	<p><b>Early:</b>Bg-II GCH-8, GTHH-49, ATM, Jay, First Class, 7576, V-333, Neo, Beejdhan-2, Sarju, Atom,</p>	<p><b>Procure good quality of seeds for kharif .</b> Carry out sowing in time where sufficient rainfall received. <b>Farmers are kindly advised to sow non-BT cotton seeds (Refuse) given with cotton BT-II seeds to prevent resistance in ball worms against BT-II technology.</b></p>	

		Bhakti,Bhadra  <b>Medium Late:</b> Bg-II GCH-6, RCH-659, Agritop-777, Agritop-444, Solar-76, Swapna, Mallika, Ajit-155	Apply 20 kg nitrogen/ha as basal for rainfed cotton. Adopt inter crop like sesame, groundnut, soybean, pulses and maize in cotton crop for risk management.
<b>Sesame</b>	Germination/ sowing	GT-2 or GT-3 variety.	<b>Procure good quality of seeds for kharif sowing &amp; Carry out sowing in time where sufficient rainfall received.</b>
<b>Pearl millet</b>	Germination/ sowing	GHB-558,577,538,719, 732,744	<b>Procure good quality of seeds for kharif sowing &amp; Carry out sowing in time where sufficient rainfall received.</b>
<b>Pulses</b>	Germination/ sowing	Farmers growing pulses are advised to select variety GM-4, K-851 & GAM-5for green gram, Guj. Adud-1 for black gram, Gujarat cowpea-1,2,4, PusaFalguni for cowpea , BDN-2, GT-100, GTH-1 for pigeon pea and <b>Procure good quality of seeds for kharif sowing &amp; Carry out sowing in time where sufficient rainfall received.</b>	
<b>Vegetables</b>	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 <b>Bottle Gourd-Junagadh long tender</b> , Pusa Naveen, PusaSamridhi <b>Bitter Gourd-</b> PusaVisesh, Pusa-2 mosumi, <b>Pumpkin</b> -PusaVisvash, PusaVikash <b>Ridge Gourd-G.J.H-1</b> , PusaChikni etc. Faremrns are also advised for Sowing of ladyfinger, cluster bean, kidney bean, cowpea, tur, amranthus.	
<b>Lady finger</b>	Flowering/ fruiting	White flies & mites	Spray 500 ml of 5 % <b>neem seed extract</b> orneem seed oil 50 ml with withacetamiprid 20 % SP@ 5.0 gm or <b>imidacloprid 30.5 SC</b> 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.

<b>Ridge gourd, Bottle gourd, Sponge guard, Bitter guard &amp; cucurbitaceous crops</b>	Flowering & fruiting	Thrips & white flies/  Mites  Downy mildew	<p>Optimum moisture level should be maintained in cucurbitaceous crops by light and frequent irrigation as dry conditions may lead to poor pollination and thus drop in yield of the crop.</p> <p>In all vegetable crops thrips infestation observed above ETL. Spray 500 ml of 5 % <b>neem seed extract</b> or neem seed oil 50 ml with acetamiprid 20 % SP @ 5.0 gm or <b>imidacloprid 30.5 SC</b> 3 ml/10 lit of water for whiteflies control.</p> <p>If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water for the control of Mites.</p> <p>For the control of downy mildew spray mencozeb 40g/pump.</p>
<b>Cluster bean</b>	Growing/fruiting	Thrips, white fly	To control them spray <b>neem seed extract</b> 500 ml or neem seed oil 50 or neem oil 40 ml and <b>acetamiprid</b> 20 % SP @ 5.0 gm / 10 lit of water at 15 days interval
<b>Brinjal &amp; Tomato</b>	Flowering/fruiting	<b>Sucking pest</b> → & <b>Fruit borer</b>  	<p>To control sucking pest spray <b>neem seed extract</b> 5 % or neem seed oil 50 ml and To control them spray acetamiprid 20 % SP @ 5.0 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 Spinosad 3.0 ml/10 litre of water is advised against fruit borer.</p>
<b>Chilli</b>	Flowering/fruiting	<b>Thrips</b> →  Leaf curling Virus →  Mites	<p>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 10 litre of water is advised for control the vector, when sky remains clear.</p> <p>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>
<b>Lemon</b>	Fruit development	<b>Mite</b>  <b>Psylla and thrips</b>  	<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 &amp; thrips spray</p>



		Citrus canker Leaf minor	<b>imidacloprid 30.5 % 5 ml</b> / 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.
<b>Livestock &amp; poultry</b> 	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. Due to chance of rainfall at isolated places keep animals indoors during rainfall. Keep fodder in safe place to avoid spoilage due to rainfall. 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 light 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.**

	<p><b>Gramin Krushi Mausam Seva</b>  <b>Main Dry Farming Research Station</b>  <b>Junagadh Agricultural University</b>  <b>Targhadia (Rajkot) - 360 003</b>  <b>Phone: (0281)2784260(O), 2331686(R)</b>  <b>Fax : (0281)2784722, Cell:94277 28523</b></p>	
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**Agro met Advisory Service bulletin No.-26 for the Surendranagar district**

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

(Period 29-June to 03-July - 2019)

**Weather forecast until 08-30 hrs of 03/07/2019**

**(6) SURENDRANAGAR DISTRICT:**

	29/06/19	30/06/19	01/07/19	02/07/19	03/07/19
Rainfall (mm)	15	70	3	0	0
Max.Temp.(°C)	37	36	36	36	36
Min.Temp.(°C)	27	27	27	27	27
Total CC (octa)	8	7	7	5	5
RH-I (%)	72	73	72	71	71
RH-II (%)	43	48	53	50	47









Wind Speed (kmph)	26	25	20	19	19
Wind Direction(deg.)	269	267	255	238	242

### Agro meteorological advisories:

<b>General Advice</b>	<ul style="list-style-type: none"> <li>• <b>Rain fall:</b> hot, humid and generally cloudy to cloudy weather forecasted for next five days. During 29 June and 01-July light to moderate &amp; 30-June very heavy rainfall forecasted.</li> <li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 36-37°C and 27-27°C, respectively.</li> <li>• <b>Relative Humidity:</b> The RH-I and RH-II is likely to be in the range of 71-73% &amp; 43-53, respectively.</li> <li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be W, SW and 19-26 km/h, respectively.</li> <li>• <b>Complete sowing of kharif crops in time where sufficient rainfall received.</b></li> <li>• <b>Carry out Planking or harrowing after sowing to conserve moisture for better germination, where sowing is over.</b></li> <li>• <b>Make provision to drain excess water from field, harvest and store it in reservoir.</b></li> <li>• <b>Farmer are also advised to adopt cotton-sesame, cotton-groundnut and cotton-maize inter cropping system as risk management.</b></li> </ul>		
Crops	Stage	Insect/Pest/ Variety	Advisory
<b>Kharif groundnut</b>	Germination/Onset of monsoon	Semi spreading, GG-20, GG-22 Bunch, GG-2, GJG-31, GJG-32, GG-5, TAG-24, TG-37 A, TPG-41, TLG-45,	Carry out sowing in time where sufficient rainfall received. Apply 156 kg/ha SSP, 62 kg/ha Ammonium sulphate and 500 kg/ha Castor cake as basal dose. <b>Seed treatment with Dithane M-45/Captan/vitavax @ 2 grams per kg of seeds before sowing is advised.</b> <b>As preventive measure for white grub infestation in groundnut crop treat the seed with Chlorpyrifos 20 % EC OR Quinalfos 25 % EC @ 25 ml/kg seed at the time of sowing.</b>
<b>Cotton</b>	Germination/sowing	<b>Early:</b> Bg-II GCH-8, GTHH-49, ATM, Jay, First Class, 7576, V-333, Neo, Beejdhan-2, Sarju, Atom, Bhakti, Bhadra	<b>Procure good quality of seeds for kharif .</b> Carry out sowing in time where sufficient rainfall received. <b>Farmers are kindly advised to sow non-BT cotton seeds (Refuse) given with cotton BT-II seeds to prevent resistance in boll worms against BT-II technology.</b> Apply 20 kg nitrogen/ha as basal for rainfed cotton. Adopt inter crop like sesame, groundnut, soybean, pulses

		<b>Medium Late:</b> Bg-II GCH-6, RCH-659, Agritop-777, Agritop-444, Solar-76, Swapna, Mallika, Ajit-155	and maize in cotton crop for risk management.
<b>Sesame</b>	Germination/ sowing	GT-2 or GT-3 variety.	<b>Procure good quality of seeds for kharif sowing &amp; Carry out sowing in time where sufficient rainfall received.</b>
<b>Pearl millet</b>	Germination/ sowing	GHB-558,577,538,719, 732,744	<b>Procure good quality of seeds for kharif sowing &amp; Carry out sowing in time where sufficient rainfall received.</b>
<b>Pulses</b>	Germination/ sowing	Farmers growing pulses are advised to select variety GM-4, K-851 & GAM-5for green gram, Guj. Adud-1 for black gram, Gujarat cowpea-1,2,4, PusaFalguni for cowpea , BDN-2, GT-100, GTH-1 for pigeon pea and <b>Procure good quality of seeds for kharif sowing &amp; Carry out sowing in time where sufficient rainfall received.</b>	
<b>Vegetables</b>	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 <b>Bottle Gourd-Junagadh long tender</b> , Pusa Naveen, PusaSamridhi <b>Bitter Gourd-</b> PusaVisesh, Pusa-2 mosumi, <b>Pumpkin</b> -PusaVisvash, PusaVikash <b>Ridge Gourd-G.J.H-1</b> , PusaChikni etc. Faremrns are also advised for Sowing of ladyfinger, cluster bean, kidney bean, cowpea, tur, amranthus.	
<b>Lady finger</b>	Flowering/ fruiting	White flies & mites	Spray 500 ml of 5 % <b>neem seed extract</b> orneem seed oil 50 ml with withacetamiprid 20 % SP@ 5.0 gm or <b>imidacloprid 30.5 SC</b> 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.

<b>Ridge gourd, Bottle gourd, Sponge guard, Bitter guard &amp; cucurbitaceous crops</b>	Flowering & fruiting	Thrips & white flies/  Mites  Downy mildew	<p>Optimum moisture level should be maintained in cucurbitaceous crops by light and frequent irrigation as dry conditions may lead to poor pollination and thus drop in yield of the crop.</p> <p>In all vegetable crops thrips infestation observed above ETL. Spray 500 ml of 5 % <b>neem seed extract</b> or neem seed oil 50 ml with acetamiprid 20 % SP @ 5.0 gm or <b>imidacloprid 30.5 SC</b> 3 ml/10 lit of water for whiteflies control.</p> <p>If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water for the control of Mites.</p> <p>For the control of downy mildew spray mencozeb 40g/pump.</p>
<b>Cluster bean</b>	Growing/fruiting	Thrips, white fly	To control them spray <b>neem seed extract</b> 500 ml or neem seed oil 50 or neem oil 40 ml and <b>acetamiprid</b> 20 % SP @ 5.0 gm / 10 lit of water at 15 days interval
<b>Brinjal &amp; Tomato</b>	Flowering/fruiting	<b>Sucking pest</b> → & <b>Fruit borer</b>  	<p>To control sucking pest spray <b>neem seed extract</b> 5 % or neem seed oil 50 ml and To control them spray acetamiprid 20 % SP @ 5.0 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 Spinosad 3.0 ml/10 litre of water is advised against fruit borer.</p>
<b>Chili</b>	Flowering/fruiting	<b>Thrips</b> →  Leaf curling Virus →  Mites	<p>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 10 litre of water is advised for control the vector, when sky remains clear.</p> <p>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>
<b>Lemon</b>	Fruit development	<b>Mite</b>  <b>Psylla and thrips</b> 	<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 &amp; thrips spray</p>

		<p>Citrus canker</p> <p>Leaf minor</p>	<p><b>imidacloprid 30.5 % 5 ml</b> / 10 lit of water ml/10 lit of water.</p> <p>Spray copper oxychloride 40 gm or streptocyclie 1.5 gm in 10 litre of water</p> <p>Spray Dichlorvosh 10 ml or Quinalphos 20 ml in 10 litres of water for control of leafminor.</p>
<p><b>Livestock &amp; poultry</b></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. Due to chance of rainfall at isolated places keep animals indoors during rainfall. Keep fodder in safe place to avoid spoilage due to rainfall. 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 light 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.**