



## ગ્રામીણ કૃષિ મૌસમ સેવા

હવામાન આગાહી આધારીત કૃષિસલાહ બુલેટીન

ઉત્તર સૌરાષ્ટ્ર ખેત આબોહવાકીય વિભાગ

તા.૧૨-૦૬-૨૦૧૯ થી તા.૧૬-૦૬-૨૦૧૯



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

કૃષિહવામાન બુલેટીન નં. ૨૦/૨૦૧૯

પાછલા અઠવાડિયાનું રાજકોટનું હવામાન

હવામાન પરિબલો	
વરસાદ(મી.મી)	0.0
મહત્તમ તાપમાન (સે.ગ્રે)	41.4-43.8
લઘુત્તમ તાપમાન (સે.ગ્રે)	25.5-27.4
ભેજ(%) સવાર	74-78
ભેજ(%) બપોરબાદ	24-35
પવનની ગતિ (કિમી/કલાક)	9.9-10.9

હવામાન આગાહી: પત્રક-ક

ઉત્તરસૌરાષ્ટ્ર ખેત આબોહવાકીય વિભાગ-હવામાન આગાહી

તા.૧૨-૦૬-૨૦૧૯ થી ૧૬-૦૬-૨૦૧૯

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.૧૨-૦૬-૨૦૧૯ થી તા.૧૬-૦૬-૨૦૧૯ દરમિયાન હવામાન ગરમ, ભેજવાળું અને વાદળછાયું રહેશે. તા. ૧૩ થી ૧૬ ના રોજ મધ્યમ થી અતિ ભારે વરસાદ પડવાની શક્યતા છે. પવનની દિશા નૈઋત્ય, અગ્નિ અને દક્ષિણની રહેવાની અને પવનની ઝડપ ૧૯ થી ૪૯ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમિયાન ૩૮-૪૩ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમિયાન ૨૮-૨૮ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.</p>					
	તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
	પેરામીટર	૧૨-૦૬-૧૯	૧૩-૦૬-૧૯	૧૪-૦૬-૧૯	૧૫-૦૬-૧૯	૧૬-૦૬-૧૯
	વરસાદ(મી.મી)	0	25	85	70	16
	મહત્તમતાપમાન (સે.ગ્રે)	43	40	38	39	39

લઘુતમતાપમાન (સે.ગ્રે)	28	28	28	28	28
વાદળનીસ્થિતિ(ઓકટા)	4	8	8	8	8
મહતમભેજ(%) સવાર	65	65	69	74	76
લઘુતમભેજ (%) બપોરબાદ	25	35	51	58	67
પવનનીગતિ(કિમી/કલાક)	19	38	41	43	49
પવનનીદિશા(ડીગ્રી)	214	122	163	174	192

**મોરબી:** જુલ્લામાં આગામી તા.૧૨-૦૬-૨૦૧૯ થી તા.૧૬-૦૬-૨૦૧૯ દરમ્યાન હવામાન ગરમ, ભેજવાળું અને વાદળછાયું રહશે. તા.૧૫ ના રોજ અતિ ભારે અને તા.૧૬ ના રોજ હળવો વરસાદ પડવાની શક્યતા છે. પવનની દિશા નૈઋત્ય અને દક્ષિણની રહેવાની અને પવનની ઝડપ **૧૫ થી ૨૮ કીમી/કલાક** રહેવાની શક્યતા છે. આ સમય ગાળામાં મહતમ તાપમાન દિવસ દરમ્યાન **૩૮-૪૩** 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	૧૨-૦૬-૧૯	૧૩-૦૬-૧૯	૧૪-૦૬-૧૯	૧૫-૦૬-૧૯	૧૬-૦૬-૧૯
વરસાદ(મી.મી)	0	0	0	100	10
મહતમતાપમાન (સે.ગ્રે)	43	40	38	39	39
લઘુતમતાપમાન (સે.ગ્રે)	28	28	28	28	28
વાદળનીસ્થિતિ(ઓકટા)	3	8	8	7	8
મહતમભેજ(%) સવાર	63	55	62	69	68
લઘુતમભેજ (%) બપોરબાદ	22	29	26	35	28
પવનનીગતિ(કિમી/કલાક)	19	15	21	22	28
પવનનીદિશા(ડીગ્રી)	226	203	187	194	203

**જામનગર:** જુલ્લામાં આગામી તા.૧૨-૦૬-૨૦૧૯ થી તા.૧૬-૦૬-૨૦૧૯ દરમ્યાન હવામાન ગરમ, ભેજવાળું અને વાદળછાયું રહશે તા. ૧૩ ના રોજ હળવો અને ૧૪ થી ૧૬ ના રોજ ભારેથી અતિ ભારે વરસાદ પડવાની શક્યતા છે. પવનની દિશા નૈઋત્ય, પૂર્વ અને દક્ષિણની રહેવાની અને પવનની ઝડપ **૨૦ થી ૮૧ કીમી/કલાક** રહેવાની શક્યતા છે. આ સમય ગાળામાં મહતમ તાપમાન દિવસ દરમ્યાન **૩૩-૩૬** ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુતમ તાપમાન રાત્રી દરમ્યાન **૨૬-૨૭** ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૧૨-૦૬-૧૯	૧૩-૦૬-૧૯	૧૪-૦૬-૧૯	૧૫-૦૬-૧૯	૧૬-૦૬-૧૯
વરસાદ(મી.મી)	0	13	200	200	50
મહતમતાપમાન (સે.ગ્રે)	35	36	34	33	33
લઘુતમતાપમાન (સે.ગ્રે)	27	27	26	27	27

વાદળનીસ્થિતિ(ઓકટા)	3	8	8	8	8
મહત્તમભેજ(%) સવાર	81	74	80	80	82
લઘુત્તમભેજ (%) બપોરબાદ	53	52	61	73	75
પવનનીગતિ(કિમી/કલાક)	20	35	77	81	70
પવનનીદિશા(ડીગ્રી)	206	81	161	187	210

**દેવભૂમિ દ્વારકા:** જીલ્લામાં આગામી તા.૧૨-૦૬-૨૦૧૯ થી તા.૧૬-૦૬-૨૦૧૯ દરમ્યાન હવામાન ગરમ, ભેજવાળું અને વાદળછાયું રહેશે તા. ૧૩ થી ૧૬ ના રોજ મધ્યમ થી અતિભારે ભારે વરસાદ પડવાની શક્યતા છે. પવનની દિશા દક્ષિણ, ઈશાન અને નૈઋત્યની રહેવાની અને પવનની ઝડપ **૨૦ થી ૯૮ કીમી/કલાક** રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન **૩૧-૩૪** ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન **૨૮-૨૯** ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૧૨-૦૬-૧૯	૧૩-૦૬-૧૯	૧૪-૦૬-૧૯	૧૫-૦૬-૧૯	૧૬-૦૬-૧૯
વરસાદ(મી.મી)	0	13	120	130	30
મહત્તમતાપમાન (સે.ગ્રે)	33	34	32	31	32
લઘુત્તમતાપમાન (સે.ગ્રે)	29	29	28	29	29
વાદળનીસ્થિતિ(ઓકટા)	3	8	8	8	8
મહત્તમભેજ(%) સવાર	83	73	83	83	82
લઘુત્તમભેજ (%) બપોરબાદ	52	51	58	76	75
પવનનીગતિ(કિમી/કલાક)	20	34	97	98	69
પવનનીદિશા(ડીગ્રી)	201	67	169	202	219

**અમરેલી:** જીલ્લામાં આગામી તા.૧૨-૦૬-૨૦૧૯ થી તા.૧૬-૦૬-૨૦૧૯ દરમ્યાન હવામાન ગરમ, ભેજવાળું અને વાદળછાયું રહેશે. તા.૧૨ થી ૧૫ ના રોજ મધ્યમ થી અતિભારે વરસાદ પડવાની શક્યતા છે. પવનની દિશા દક્ષિણ, અગ્નિ અને નૈઋત્યની રહેવાની અને પવનની ઝડપ **૧૨ થી ૪૯ કીમી/કલાક** રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન **૩૮-૪૧** ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન **૨૭-૨૯** ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૧૨-૦૬-૧૯	૧૩-૦૬-૧૯	૧૪-૦૬-૧૯	૧૫-૦૬-૧૯	૧૬-૦૬-૧૯
વરસાદ(મી.મી)	23	100	100	37	0
મહત્તમતાપમાન (સે.ગ્રે)	41	40	38	38	38
લઘુત્તમતાપમાન (સે.ગ્રે)	29	27	27	27	27
વાદળનીસ્થિતિ(ઓકટા)	5	8	8	8	8

મહત્તમભેજ(%) સવાર	71	73	76	79	79
લઘુત્તમભેજ(%) બપોરબાદ	36	45	62	66	68
પવનનીગતિ(કિમી/કલાક)	12	49	37	35	40
પવનનીદિશા(ડીગ્રી)	193	139	193	198	203



સુરેન્દ્રનગર: જીલ્લામાં આગામી તા.૧૨-૦૬-૨૦૧૯ થી તા.૧૬-૦૬-૨૦૧૯ દરમિયાન હવામાન ગરમ, ભેજવાળું અને વાદળછાયું રહેશે. તા. ૧૪ થી ૧૬ ના રોજ હળવો થી મધ્યમ વરસાદ પડવાની શક્યતા છે. પવનની દિશા નૈઋત્ય, અગ્નિ અને દક્ષિણની રહેવાની અને પવનની ઝડપ ૨૨ થી ૪૩ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમિયાન ૩૮-૪૩ 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	૧૨-૦૬-૧૯	૧૩-૦૬-૧૯	૧૪-૦૬-૧૯	૧૫-૦૬-૧૯	૧૬-૦૬-૧૯
વરસાદ(મી.મી)	0	0	6	17	15
મહત્તમતાપમાન (સે.ગ્રે)	43	40	38	39	39
લઘુત્તમતાપમાન (સે.ગ્રે)	28	28	28	28	28
વાદળનીસ્થિતિ(ઓકટા)	3	8	8	8	8
મહત્તમભેજ(%) સવાર	62	63	68	70	70
લઘુત્તમભેજ(%) બપોરબાદ	24	34	46	52	53
પવનનીગતિ(કિમી/કલાક)	22	32	36	36	43
પવનનીદિશા(ડીગ્રી)	227	140	156	165	180

- ૧૨ થી ૧૬-જુન -૨૦૧૯ હવામાન ગરમ, ભેજવાળું અને વાદળછાયું રહેશે. રાજકોટ જીલ્લામાં તા. ૧૩ થી ૧૬ ના રોજ મધ્યમ થી અતિ ભારે વરસાદ પડવાની શક્યતા છે., મોરબી જીલ્લામાં તા.૧૫ ના રોજ અતિ ભારે અને તા.૧૬ ના રોજ હળવો વરસાદ પડવાની શક્યતા છે., જામનગર જીલ્લામાં તા. ૧૩ ના રોજ હળવો અને ૧૪ થી ૧૬ ના રોજ ભારેથી અતિ ભારે વરસાદ પડવાની શક્યતા છે., દેવભૂમિ દ્વારકા જીલ્લામાં તા. ૧૩ થી ૧૬ ના રોજ મધ્યમ થી અતિભારે ભારે વરસાદ પડવાની શક્યતા છે., અમરેલી જીલ્લામાં તા.૧૨ થી ૧૫ ના રોજ મધ્યમ થી અતિભારે વરસાદ પડવાની શક્યતા છે અને સુરેન્દ્રનગર જીલ્લામાં . ૧૪ થી ૧૬ ના રોજ હળવો થી મધ્યમ વરસાદ પડવાની શક્યતા છે. પવનની દિશા નૈઋત્ય, અગ્નિ અને દક્ષિણની મોટાભાગે રહેવાની અને પવનની ઝડપ ૧૨ થી ૯૮ કીમી/કલાક રહેવાની શક્યતા છે. આ સમયગાળામાં મહત્તમ તાપમાન દિવસ દરમિયાન ૩૮-૪૩ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમિયાન ૨૬-૨૯ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.
- આગામી તા.૧૨ થી ૧૪ દરમિયાન છુટા છવાયા વિસ્તારમાં સામાન્યથી મધ્યમ વરસાદ થવાની શક્યતા છે. તેમજ દરિયા કાંઠે વાવાઝોડું (૮૦-૧૦૦ કી/મી./કલાક) કુકાંવાની શક્યતા છે. તો માછીમારોએ દરિયો ખેડવો નહિ.

	<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>		
	➤		
મુખ્ય પાક	પાક અવસ્થા	રોગ/જીવાત/જાત	કૃષિ સલાહ (૧૦ લીટર પાણીમાં મિશ્ર કરી ભલામણ કરેલ દવા છાંટવી )
મગફળી	આગોતરું વાવેતર	જીજી-૨૨, જીજી-૨૦, જીજી-૧૧	યોમાસું મગફળીનાં આગોતરા વાવેતર માટે જમીનની તૈયારી કરવી અને સેન્દ્રિય ખાતર ઉમેરવું.
	વરસાદ આધારીત	અર્ધ વેલડી જીજી-૨૦, જીજી-૨૨ ઉભડી -જીજી-૨, જીજી-૩૨, ટીએજી-૨૪, ટીએલજી-૪૫, ટીપીજી-૪૧, તીજી-૩૭-એ	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. તેમજ ૨.૫ કી.ગ્રા./હે ટ્રાયકોડર્મા ફૂગનો પાઉડર ૫૦૦ કી.ગ્રા./હે એરંડીનાં ખોળ સાથે મિશ્ર કરી પાયામાં વાવણી સમયે આપવો. વાવતી વખતે બિયારણને થાયરમ અથવા મેન્કોઝેબ અથવા વાયટાવેક્ષ દવાનો ૨-૩ ગ્રામ/કી. બીજને પટ આપવો. મગફળીમાં સફેદ મુંડાનાં નિયંત્રણ માટે ક્લોરોપાયરીફોસ ૨૦ % ઈસી દવાનો ૨૫ મિલી ૧ કી.ગ્રા. બીજને વાવેતર પહેલા પટ આપવો.
કપાસ	-	કપાસ બોલગાર્ડ-૨ ની પ્રમાણિત જાતો જેવી કે વહેલી પાકતી જાતો : ગુજરાત શંકર-૮, એટીએમ, ફર્સ્ટ ક્લાસ, ૭૫૭૬, વી-૩૩૩, જાદુ, જય, સરજ, સુરક્ષા, બળવાન, ભક્તિ, ભદ્રા, આરસીએચ-૭૭૮	કપાસના પાકમાં ગુલાબી ઈયળનો ઉપદ્રવ નાં થાય તે માટે ઓરવીને આગોતરું વાવેતર કરવું નહિ. વાવણી લાયક વરસાદ થયે સમયસર વાવેતર કરવું. કપાસના પાકમાં ઈયળોમાં બીટી જીન સામે પ્રતિકારક શક્તિ ના આવે તે માટે બિયારણના પેકેટ સાથે આપવામાં આવતું નોનબીટી (રેફ્યુઝી) બીજનું વાવેતર અવશ્ય કરવું. અનિયમિત વરસાદનું જોખમ ઓછું કરવા કપાસના પાકમાં તલ, મગફળી, સોયાબીન, કઠોળ જેવા પાકોનું આંતર પાક તરીકે વાવેતરનું આયોજન કરવું.

		મધ્યમ મોડી પાકતી જાતો : ગુજરાત શંકર-૬, એગ્રીટોપ-૪૪૪, એગ્રીટોપ-૭૭૭ , સોલાર-૭૬, મલ્લિકા,આરસીએ ચ-૬૫૯, અજીત- ૧૫૫	
તલ	પાક અને જાતની પસંદગી	ગુજરાત તલ- ૨, ગુજરાત તલ- ૩, ગુજરાત તલ- ૫	
બાજરી	પાક અને જાતની પસંદગી	જીએચબી-૫૫૮ જીએચબી-૫૩૮, જીએચબી-૫૭૭, જીએચબી-૭૧૯, જીએચબી-૭૩૨ અને જીએચબી-૭૪૪	
કઠોળ પાકો	પાક અને જાતની પસંદગી	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	શ્રીપ્સના 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. <b>જો પાન કથીરીનો ઉપદ્રવ હોય તો ઇથીઓન ૩૦ મિલી પ્રતિ પંપ છંટકાવ કરવો.</b> ભીંડાની વીણી બાદ પ્રતિ એકરે ૫-૭ કી.ગ્રા. યુરિઆ ખાતર આપવું.
તુરીયા દૂધી ગલકા કારેલા ગુવાર કાકડી	ફૂલ/ફળ	શ્રીપ્સ/ સફેદ માખી  કથીરી તળછારો	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. જો પાન કથીરીનો ઉપદ્રવ હોય તો ઇથીઓન ૩૦ મિલી પ્રતિ પંપ છાન્કાવ કરવો. વેલાવાળા શાકભાજીમાં તળછારાના નિયંત્રણ માટે મેન્કોઝેબ ૪૦

			<p>ગ્રામ પ્રતિ પંપમાં મિશ્ર કરી છંટકાવ કરવો.</p> <p>વેલાવાળા શાકભાજી પાકોમાં હળવા અને ટુંકા અંતરે પિયત આપી યોગ્ય ભેજ જાળવવો જેથી પરાગનયન પ્રક્રિયા સારી રીતે થવાથી ઉત્પાદન સારું મળે.</p>
રીંગણી અને ટમેટી	ફૂલ/ફળ	<p>સફેદ માખી</p> <p>ડુંખ અને → ફળ કોરી ખાનાર ઈયળ</p> <p>કથીરી →</p>	<p>▶ 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.</p> <p>▶ ફળ અને ડોકાની ઈયળોનો ઉપદ્રવ હોય તો નુકશાન પામેલ ફળ અને ડોકા તોડીને જમીનમાં દાંટી દેવા અને ક્લોરોનટ્રાનીલીપ્રોલ ૧૮.૫ એસ.સી (રીનાક્ષીપાયર) દવા ૩ મિલી અથવા ડીડીવીપી ૭૬ ઈસી ૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો.</p> <p>▶ રીંગણી અને ટમેટીના પાકમાં પાન કથીરીના નિયંત્રણ માટે પ્રોપરગાઈટ દવા ૧૦ મિલી/૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો.</p>
મરચી	ફૂલ/ફળ	<p>પાનની કુક્ક-થીપ્સ →</p>  <p>પાનની કુક્ક-થીપ્સ →</p>  <p>કથીરી</p>	<p>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.</p> <p>વાયરસના કારણે પીળા થઈ કુક્કાય ગયેલ છોડ ઉપાડી તેનો 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>
આંબો	ફળનો વિકાસ	ફળ માખી	<p>કેરી લખોટી જેવડા કદની થાય ત્યારે ૨ ગ્રામ નેપ્થેલીન એસેટીક એસીડ અને ૨ કી.ગ્રા. યુરીયાને ૧૦૦ લીટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો જેથી કેરીનું ખરણ ઓછું થાય.</p> <p>આંબામાં ફળમાખીના નિયંત્રણ માટે ડીડીવીપી ૪ મિલી અને મીથાયલયુજીનોલ ૧૦ મિલી ૧૦ લીટર પાણીમાં મિશ્ર કરી છંટકાવ</p>

			કરવો.
લીંબુ	ફળનો વિકાસ	પાન કથીરી 	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.
પશુ/ મરઘા 	તાપમાન વધારે રહેવાના કારણે ઢોરને દિવસના સમયે છાયડામાં રાખવા અને મિનરલ મિક્ચર ચુક્ત પીવાના સ્વચ્છ પાણીની વ્યવસ્થા કરાવી. દુધાળા પશુઓને ઉનાળામાં ઠંડક આપવા પાણીનો છંટકાવ કરવો. ખોરાકમાં લીલા ચારનું પ્રમાણ વધારવું. દુધાળા પશુઓના આઉને ઝીંક ઓક્સાઈડ અથવા બોરિક પવડરથી બરાબર સાફ કરવું. દુધાળા પશુઓના આઉને ઝીંક ઓક્સાઈડ અથવા બોરિક પવડરથી બરાબર સાફ કરવું. પશુઓમાં ગળસુંઢો અને ગાંઠીયા તાવના રોગના નિયંત્રણ માટે રસીકરણ કરાવવું. ઈતરડીના નિયંત્રણ માટે ડેલ્ટામેથ્રીન અથવા એમીટ્રાઝ ૨ મી.લી. ૧ લીટર પાણીમાં નાખીને છાંટવી. વિટામીન એ તથા ડી પુરકો આપવા. કરમિયાની દવા આપવી.		

જુક્યુ/ટેકનિકલ ઓફિસર.(સુખે)/એગ્રોમેટ/બુલેટીન/ /૨૦૧૯  
તરઘડિયા(રાજકોટ), તારીખ: ૧૧/૦૬/૨૦૧૯.

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  
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**Agro met Advisory Service bulletin No.21-for the Rajkot district**

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

(Period 12 to 16-June - 2019)

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

Rainfall (mm)	0.0
Maximum temperature (°C)	41.4-43.8
Minimum temperature (°C)	25.5-27.4
Relative Humidity (%) I	74-78
Relative Humidity (%) II	24-35
Wind speed (Kmph)	9.9-10.9

**Weather forecast until 08-30 hrs.of 16/06/2019**




**(1) RAJKOT DISTRICT:**




	12/06/19	13/06/19	14/06/19	15/06/19	16/06/19
Rainfall (mm)	0	25	85	70	16
Max.Temp.(°C)	43	40	38	39	39
Min.Temp.(°C)	28	28	28	28	28
Total CC (octa)	4	8	8	8	8
RH-I (%)	65	65	69	74	76
RH-II (%)	25	35	51	58	67
Wind Speed (kmph)	19	38	41	43	49
Wind Direction(deg.)	214	122	163	174	192

**Agro meteorological Advisories:**

<b>General Advice</b>	<ul style="list-style-type: none"><li>• <b>Rain fall:</b> hot, humid and cloudy weather forecasted for next five days. During 13 to 16 June moderate to very heavy rainfall forecasted.</li><li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 38-43°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 65-76% &amp; 25-67, respectively.</li><li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be SW, SE, S and 19-49 km/h, respectively.</li><li>• <b>Light to moderate rainfall forecasted at isolated places over coastal Saurashtra &amp;</b></li></ul>
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	<p><b>Kutch from 12<sup>th</sup> to 14<sup>th</sup>, so farmers are advised to be ready for kharif sowing. Due to forecast of squally wind over Gujarat coast Fishermen are advised not to venture into these areas.</b></p> <ul style="list-style-type: none"> <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>	Pre-sowing	GG-20, GG-11	Pre-sowing of groundnut may be done in this week. Apply 156 kg/ha SSP, 62 kg/ha Ammonium sulphate and 500 kg/ha Castor cake as basal dose.
	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,	<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>	-	<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> Presowing should not be done to prevent pink ball worm infestation. <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> <b>Timely sowing should be done after sufficient rainfall.</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>	-	GT-2 or GT-3 variety.	<b>Procure good quality of seeds for kharif sowing</b>
<b>Pearl millet</b>	-	GHB-558,577,538,719, 732,744	<b>Procure good quality of seeds for kharif sowing</b>
<b>Pulses</b>	-	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 irrespective of crops for kharif sowing.</b>	

<b>Lady finger</b>	Flowering/ fruiting	White flies & mites	<p>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>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>
<b>Ridge gourd, Bottle gourd, Sponge guard, Bitter guard &amp; cucurbitaceous crops</b>	Flowering & fruiting	<p>Thrips &amp; white flies/  Mites  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/fru iting	Thrips, white fly	To control them spray <b>neem seed extract</b> 500 ml or neem seed oil 50 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> → &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 Virus →</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.

		Mites	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>Mango</b>	Fruit development	Fruit fly	Spray mixture of DDVP 4 ml and Methyleugenol 10 ml in 10 litres of water for control of fruit fly. Apply light irrigation as mango fruit size become gram grain size. Apply irrigation as per need.
<b>Lemon</b>	Fruit development	Mite 	Due to high temperature mites infestation in lemon orchard observed. To control mite infestation spray propargite 57 % EC 10/10 liter of water. 
<b>Livestock &amp; poultry</b> 	Under present weather condition keep animals under shade or in sheds during noon hours, provide plenty of cool water mixed with minerals for drinking and shower the animals with cold water two to three times in a day. Do Vaccination for <b>Haemorrhagic septicemia</b> (H.S.) disease and <b>Blue Quarter</b> (B.Q.) in animals. Udder of milking animals must be properly clean with zinc oxide or boric powder. Also give deworming tablet to younger animals. For control of ticks and mites spray Deltamethrin or Amitral 2 ml/liter of water.		

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



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**Agro met Advisory Service bulletin No.-21 for the Morbi district**

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

(Period 12 to 16-June - 2019)

**Weather forecast until 08-30 hrs. of 16/06/2019**




**(2) MORBI DISTRICT:**




	12/06/19	13/06/19	14/06/19	15/06/19	16/06/19
Rainfall (mm)	0	0	0	100	10
Max.Temp.(°C)	43	40	38	39	39
Min.Temp.(°C)	28	28	28	28	28
Total CC (octa)	3	8	8	7	8
RH-I (%)	63	55	62	69	68
RH-II (%)	22	29	26	35	28
Wind Speed (kmph)	19	15	21	22	28
Wind Direction(deg.)	226	203	187	194	203

**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 15 June very heavy and 16 June light rainfall forecasted.</li><li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 38-43°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 55-69% &amp; 22-35, respectively.</li><li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be SW, S and 15-28 km/h, respectively.</li><li>• <b>Light to moderate rainfall forecasted at isolated places over coastal Saurashtra &amp; Kutch from 12<sup>th</sup> to 14<sup>th</sup>, so farmers are advised to be ready for kharif sowing. Due to forecast of squally wind over Gujarat coast Fishermen are advised not to venture into these areas.</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>
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Crops	Stage	Insect/Pest/ Variety	Advisory
<b>Kharif groundnut</b>	Pre-sowing	GG-20, GG-11	Pre-sowing of groundnut may be done in this week. 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>
	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,	
<b>Cotton</b>	-	<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> Presowing should not be done to prevent pink ball worm infestation. <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> <b>Timely sowing should be done after sufficient rainfall.</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>	-	GT-2 or GT-3 variety.	<b>Procure good quality of seeds for kharif sowing</b>
<b>Pearl millet</b>	-	GHB-558, 577, 538, 719, 732, 744	<b>Procure good quality of seeds for kharif sowing</b>
<b>Pulses</b>	-	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 irrespective of crops for kharif sowing.</b>	

<b>Lady finger</b>	Flowering/ fruiting	White flies & mites	<p>Spray 500 ml of 5 % <b>neem seed extract</b> or neem seed oil 50 ml with 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>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>
<b>Ridge gourd, Bottle gourd, Sponge guard, Bitter guard &amp; cucurbitaceous crops</b>	Flowering & fruiting	<p>Thrips &amp; white flies/  Mites  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/fruiti ng	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> → &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 Virus →</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.

		Mites	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>Mango</b>	Fruit development	Fruit fly	Spray mixture of DDVP 4 ml and Methyleugenol 10 ml in 10 litres of water for control of fruit fly. Apply light irrigation as mango fruit size become gram grain size. Apply irrigation as per need.
<b>Lemon</b>	Fruit development	<b>Mite</b> 	Due to high temperature mites infestation in lemon orchard observed. To control mite infestation spray propargite 57 % EC 10/10 liter of water. 
<b>Livestock &amp; poultry</b> 	Under present weather condition keep animals under shade or in sheds during noon hours, provide plenty of cool water mixed with minerals for drinking and shower the animals with cold water two to three times in a day. Do Vaccination for <b>Haemorrhagic septicemia</b> (H.S.) disease and <b>Blue Quarter</b> (B.Q.) in animals. Udder of milking animals must be properly clean with zinc oxide or boric powder. Also give deworming tablet to younger animals. For control of ticks and mites spray Deltamethrin or Amitral 2 ml/liter of water.		

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





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**Agro met Advisory Service bulletin No.-21 for the Jamnagar district**

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

(Period 12 to 16-June - 2019)

**Weather forecast until 08-30 hrs of 16/06/2019**




**(3) JAMNAGAR DISTRICT:**




	12/06/19	13/06/19	14/06/19	15/06/19	16/06/19
Rainfall (mm)	0	13	200	200	50
Max. Temp.(°C)	35	36	34	33	33
Min. Temp.(°C)	27	27	26	27	27
Total CC (octa)	3	8	8	8	8
RH-I (%)	81	74	80	80	82
RH-II (%)	53	52	61	73	75
Wind Speed (kmph)	20	35	77	81	70
Wind Direction(deg.)	206	81	161	187	210

**Agro meteorological Advisories:-**

<b>General Advice</b>	<ul style="list-style-type: none"><li>• <b>Rain fall:</b> hot, humid and cloudy weather forecasted for next five days. During 13 June light rainfall and 14 to 16 June heavy to very heavy rainfall forecasted.</li><li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 33-36°C and 26-27°C, respectively.</li><li>• <b>Relative Humidity:</b> The RH-I and RH-II is likely to be in the range of 74-82% &amp; 52-75, respectively.</li><li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be SW, E, S and 20-81 km/h, respectively.</li><li>• <b>Light to moderate rainfall forecasted at isolated places over coastal Saurashtra &amp; Kutch from 12<sup>th</sup> to 14<sup>th</sup>, so farmers are advised to be ready for kharif sowing. Due to forecast of squally wind over Gujarat coast Fishermen are advised not to venture into these areas.</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>	Pre-sowing	GG-20, GG-11	Pre-sowing of groundnut may be done in this week. 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>
	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,	
<b>Cotton</b>	-	<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> Presowing should not be done to prevent pink ball worm infestation. <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> <b>Timely sowing should be done after sufficient rainfall.</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>	-	GT-2 or GT-3 variety.	<b>Procure good quality of seeds for kharif sowing</b>
<b>Pearl millet</b>	-	GHB-558,577,538,719, 732,744	<b>Procure good quality of seeds for kharif sowing</b>
<b>Pulses</b>	-	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 irrespective of crops for kharif sowing.</b>	
<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

			<p>for whiteflies control.</p> <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 extractor</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 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>Mango</b>	Fruit development	Fruit fly	Spray mixture of DDVP 4 ml and Methyleugenol 10 ml in 10 litres of water for control of fruit fly. Apply light irrigation as mango fruit size become gram grain size. Apply irrigation as per need.
<b>Lemon</b>	Fruit development	<b>Mite</b> 	Due to high temperature mites infestation in lemon orchard observed. To control mite infestation spray propargite 57 % EC 10/10 liter of water. 
<b>Livestock &amp; poultry</b> 	Under present weather condition keep animals under shade or in sheds during noon hours, provide plenty of cool water mixed with minerals for drinking and shower the animals with cold water two to three times in a day. Do Vaccination for <b>Haemorrhagic septicemia (H.S.)</b> disease and <b>Blue Quarter (B.Q.)</b> in animals. Udder of milking animals must be properly clean with zinc oxide or boric powder. Also give deworming tablet to younger animals. For control of ticks and mites spray Deltamethrin or Amitral 2 ml/liter of water.		

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



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**Agro met Advisory Service bulletin No.-21 for the DevbhumiDwarka district**

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

(Period 12 to 16-June - 2019)

**Weather forecast until 08-30 hrs of 16/06/2019**




**(4) DEVBHUMI DWARKA DISTRICT:**




	12/06/19	13/06/19	14/06/19	15/06/19	16/06/19
Rainfall (mm)	0	13	120	130	30
Max. Temp.(°C)	33	34	32	31	32
Min. Temp.(°C)	29	29	28	29	29
Total CC (octa)	3	8	8	8	8
RH-I (%)	83	73	83	83	82
RH-II (%)	52	51	58	76	75
Wind Speed (kmph)	20	34	97	98	69
Wind Direction(deg.)	201	67	169	202	219

**Agro meteorological Advisories:-**

<b>General Advice</b>	<ul style="list-style-type: none"><li>• <b>Rain fall:</b> hot, humid and cloudy weather forecasted for next five days. During 13 to 16 June moderate to very heavy rainfall forecasted.</li><li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 31-34°C and 28-29°C, respectively.</li><li>• <b>Relative Humidity:</b> The RH-I and RH-II is likely to be in the range of 73-83% &amp; 51-76, respectively.</li><li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be S, NE, SW and 20-98 km/h, respectively.</li><li>• <b>Light to moderate rainfall forecasted at isolated places over coastal Saurashtra &amp; Kutch from 12<sup>th</sup> to 14<sup>th</sup>, so farmers are advised to be ready for kharif sowing. Due to forecast of squally wind over Gujarat coast Fishermen are advised not to venture into these areas.</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>	Pre-sowing	GG-20, GG-11	Pre-sowing of groundnut may be done in this week. 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>
	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,	
<b>Cotton</b>	-	<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> Presowing should not be done to prevent pink ball worm infestation. <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> <b>Timely sowing should be done after sufficient rainfall.</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>	-	GT-2 or GT-3 variety.	<b>Procure good quality of seeds for kharif sowing</b>
<b>Pearl millet</b>	-	GHB-558, 577, 538, 719, 732, 744	<b>Procure good quality of seeds for kharif sowing</b>
<b>Pulses</b>	-	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, Pusa Falguni for cowpea, BDN-2, GT-100, GTH-1 for pigeon pea and <b>Procure good quality of seeds irrespective of crops for kharif sowing.</b>	
<b>Lady finger</b>	Flowering/ fruiting	White flies & mites	Spray 500 ml of 5 % <b>neem seed extract</b> or neem seed oil 50 ml with with acetamiprid 20 % SP @ 5.0 gm or <b>imidacloprid 30.5 SC</b> 3 ml/10 lit of water

			<p>for whiteflies control.</p> <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 extractor</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 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>Mango</b>	Fruit development	Fruit fly	Spray mixture of DDVP 4 ml and Methyleugenol 10 ml in 10 litres of water for control of fruit fly. Apply light irrigation as mango fruit size become gram grain size. Apply irrigation as per need.
<b>Lemon</b>	Fruit development	<b>Mite</b> 	Due to high temperature mites infestation in lemon orchard observed. To control mite infestation spray propargite 57 % EC 10/10 liter of water. 
<b>Livestock &amp; poultry</b> 	Under present weather condition keep animals under shade or in sheds during noon hours, provide plenty of cool water mixed with minerals for drinking and shower the animals with cold water two to three times in a day. Do Vaccination for <b>Haemorrhagic septicemia</b> (H.S.) disease and <b>Blue Quarter</b> (B.Q.) in animals. Udder of milking animals must be properly clean with zinc oxide or boric powder. Also give deworming tablet to younger animals. For control of ticks and mites spray Deltamethrin or Amitral 2 ml/liter of water.		

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





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**Agro met Advisory Service bulletin No.-21 for the Amreli district**

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

(Period 12 to 16-June - 2019)

**Weather forecast until 08-30 hrs of 16/06/2019**




**(5) AMRELI DISTRICT:**




	12/06/19	13/06/19	14/06/19	15/06/19	16/06/19
Rainfall (mm)	23	100	100	37	0
Max.Temp.(°C)	41	40	38	38	38
Min.Temp.(°C)	29	27	27	27	27
Total CC (octa)	5	8	8	8	8
RH-I (%)	71	73	76	79	79
RH-II (%)	36	45	62	66	68
Wind Speed (kmph)	12	49	37	35	40
Wind Direction(deg.)	193	139	193	198	203

**Agro meteorological Advisories:**

<b>General Advice</b>	<ul style="list-style-type: none"> <li>• <b>Rain fall:</b> hot, humid and cloudy weather forecasted for next five days. During 12 to 15 June moderate to very heavy rainfall forecasted.</li> <li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 38-41°C and 27-29°C, respectively.</li> <li>• <b>Relative Humidity:</b> The RH-I and RH-II is likely to be in the range of 71-79% &amp; 36-68, respectively.</li> <li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be S, SE, SW and 12-49 km/h, respectively.</li> <li>• <b>Light to moderate rainfall forecasted at isolated places over coastal Saurashtra &amp; Kutch from 12<sup>th</sup> to 14<sup>th</sup>, so farmers are advised to be ready for kharif sowing. Due to forecast of squally wind over Gujarat coast Fishermen are advised not to venture into these areas.</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>	Pre-sowing	GG-20, GG-11	Pre-sowing of groundnut may be done in this week. 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>
	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,	
<b>Cotton</b>	-	<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> Presowing should not be done to prevent pink ball worm infestation. <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> <b>Timely sowing should be done after sufficient rainfall.</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>	-	GT-2 or GT-3 variety.	<b>Procure good quality of seeds for kharif sowing</b>
<b>Pearl millet</b>	-	GHB-558,577,538,719, 732,744	<b>Procure good quality of seeds for kharif sowing</b>
<b>Pulses</b>	-	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 irrespective of crops for kharif sowing.</b>	
<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

			<p>for whiteflies control.</p> <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 extractor</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 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>Mango</b>	Fruit development	Fruit fly	Spray mixture of DDVP 4 ml and Methyleugenol 10 ml in 10 litres of water for control of fruit fly. Apply light irrigation as mango fruit size become gram grain size. Apply irrigation as per need.
<b>Lemon</b>	Fruit development	<b>Mite</b> 	Due to high temperature mites infestation in lemon orchard observed. To control mite infestation spray propargite 57 % EC 10/10 liter of water. 
<b>Livestock &amp; poultry</b> 	Under present weather condition keep animals under shade or in sheds during noon hours, provide plenty of cool water mixed with minerals for drinking and shower the animals with cold water two to three times in a day. Do Vaccination for <b>Haemorrhagic septicemia (H.S.)</b> disease and <b>Blue Quarter (B.Q.)</b> in animals. Udder of milking animals must be properly clean with zinc oxide or boric powder. Also give deworming tablet to younger animals. For control of ticks and mites spray Deltamethrin or Amitral 2 ml/liter of water.		

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



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**Agro met Advisory Service bulletin No.-21 for the Surendranagar district**

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

(Period 12 to 16-June - 2019)

**Weather forecast until 08-30 hrs of 16/06/2019**




**(6) SURENDRANAGAR DISTRICT:**




	12/06/19	13/06/19	14/06/19	15/06/19	16/06/19
Rainfall (mm)	0	0	6	17	15
Max.Temp.(°C)	43	40	38	39	39
Min.Temp.(°C)	28	28	28	28	28
Total CC (octa)	3	8	8	8	8
RH-I (%)	62	63	68	70	70
RH-II (%)	24	34	46	52	53
Wind Speed (kmph)	22	32	36	36	43
Wind Direction(deg.)	227	140	156	165	180

**Agro meteorological advisories:**

<b>General Advice</b>	<ul style="list-style-type: none"><li>• <b>Rain fall:</b> hot, humid and cloudy weather forecasted for next five days. During 14 to 16 June light to moderate rainfall forecasted.</li><li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 38-43°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 62-70% &amp; 24-53, respectively.</li><li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be SW, SE, S and 22-43 km/h, respectively.</li><li>• <b>Light to moderate rainfall forecasted at isolated places over coastal Saurashtra &amp; Kutch from 12<sup>th</sup> to 14<sup>th</sup>, so farmers are advised to be ready for kharif sowing. Due to forecast of squally wind over Gujarat coast Fishermen are advised not to venture into these areas.</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>	Pre-sowing	GG-20, GG-11	Pre-sowing of groundnut may be done in this week. 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>
	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,	
<b>Cotton</b>	-	<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> Presowing should not be done to prevent pink ball worm infestation. <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> <b>Timely sowing should be done after sufficient rainfall.</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>	-	GT-2 or GT-3 variety.	<b>Procure good quality of seeds for kharif sowing</b>
<b>Pearl millet</b>	-	GHB-558, 577, 538, 719, 732, 744	<b>Procure good quality of seeds for kharif sowing</b>
<b>Pulses</b>	-	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, Pusa Falguni for cowpea, BDN-2, GT-100, GTH-1 for pigeon pea and <b>Procure good quality of seeds irrespective of crops for kharif sowing.</b>	
<b>Lady finger</b>	Flowering/ fruiting	White flies & mites	Spray 500 ml of 5 % <b>neem seed extract</b> or neem seed oil 50 ml with with acetamiprid 20 % SP @ 5.0 gm or <b>imidacloprid 30.5 SC</b> 3 ml/10 lit of water

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<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 extractor</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>
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