



ग्रामीण कृषि मौसम सेवा  
हवामान आगाही आधारित कृषिसवाह बुलेटीन  
उत्तर सौराष्ट्रभेत आबोहवाकीय विभाग  
ता.१६-०६-२०२० थी ता २०-०६-२०२०



(ग्रामीण कृषि मौसम सेवा ,सूकी भेती संशोधन केन्द्र ,जु.कृ.यु.,तरघडिया अने भारत मौसम विभाग द्वारा संपन्न)

कृषि हवामान बुलेटीन नं. ४६/२०२०

पाछवा अहवाडीयानुं राजकोटनुं हवामान

हवामान परिबणो	
वरसाह(मी.मी)	11.6
महतम तापमान( से.ग्रे)	32.3-34.0
लघुतम तापमान( से.ग्रे)	23.3-24.9
लेज (%)सवार	87-95
लेज (%)अपोरबाह	63-73
पवननी गति( किमी/कलाक)	2.5-4.3

हवामान आगाही :पत्रक-६

उत्तरसौराष्ट्र भेत आबोहवाकीय विभाग-हवामान आगाही २०-०६-२०२० सवारना ८.३० सुधी

ता.१६-०६-२०२० थी २०-०६-२०२०

कृषि सवाह :

सामान्य	राजकोट :जुल्लामां आगामी ता.१६-०६-२०२० थी ता.२०-०६-२०२० दरम्यान हवामान लेजवाणुं , गरम अने वाहणछायुं रहशे. ता. १६ थी २० ना रोज हणवो थी मध्यम वरसाह थवानी शक्यता छे. पवननी दिशा पश्चिमनी रहवानी अने पवननी जडप ६ थी १४ कीमी/कलाक रहवानी शक्यता छे. आ समय गाणामां महतम तापमान दिवस दरम्यान ३३-३४ डीग्री सेल्शियस जेटलुं तेमज लघुतम तापमान रात्री दरम्यान २६-२६ डीग्री सेल्शियस जेटलुं रहवानी संभावना छे.				
तारीख	दिवस-१	दिवस-२	दिवस-३	दिवस-४	दिवस-५
पेरामीटर	१६-०६-२०	१७-०६-२०	१८-०६-२०	१९-०६-२०	२०-०६-२०
वरसाह(मी.मी.)	8	10	17	17	19
महतमतापमान( से.ग्रे)	34	34	34	33	34
लघुतमतापमान( से.ग्रे)	26	26	26	26	26

મહત્તમભેજ (%)સવાર	90	90	92	91	88
લઘુત્તમભેજ (%) બપોરબાદ	59	65	64	65	65
પવનનીગતિ(કિમી/કલાક)	14	13	12	10	6
પવનનીદિશા(ડીગ્રી)	248	257	252	249	248
વાદળનીસ્થિતિ( ઓકટા)	7	8	8	8	8

**મોરબી :** જીલ્લામાં આગામી તા.૧૬-૦૯-૨૦૨૦ થી તા.૨૦-૦૯-૨૦૨૦ દરમ્યાન હવામાન ભેજવાળું, ગરમ અને વાદળછાયું રહેશે. તા. ૧૬ થી ૨૦ ના રોજ હળવો થી મધ્યમ વરસાદ થવાની શક્યતા છે. પવનની દિશા પશ્ચિમ અને દક્ષિણની રહેવાની અને પવનની ઝડપ ૯ થી ૧૭ કીમી/કલાક રહેવાની શક્યતા છે . આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૩૩-૩૪ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન ૨૬-૨૭ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ પેરામીટર	દિવસ-૧ ૧૬-૦૯-૨૦	દિવસ-૨ ૧૭-૦૯-૨૦	દિવસ-૩ ૧૮-૦૯-૨૦	દિવસ-૪ ૧૯-૦૯-૨૦	દિવસ-૫ ૨૦-૦૯-૨૦
વરસાદ(મી.મી.)	5	5	10	7	13
મહત્તમતાપમાન( સે.ગ્રે)	34	34	34	33	34
લઘુત્તમતાપમાન( સે.ગ્રે)	26	26	26	26	26
મહત્તમભેજ (%)સવાર	86	84	84	81	81
લઘુત્તમભેજ (%) બપોરબાદ	58	59	52	57	52
પવનનીગતિ(કિમી/કલાક)	17	16	16	14	9
પવનનીદિશા(ડીગ્રી)	248	249	257	248	158
વાદળનીસ્થિતિ( ઓકટા)	7	8	8	8	8

**દેવભૂમિ દ્વારકા;** જીલ્લામાં આગામી તા.૧૬-૦૯-૨૦૨૦ થી તા.૨૦-૦૯-૨૦૨૦ દરમ્યાન હવામાન ભેજવાળું, ગરમ અને વાદળછાયું રહેશે. તા. ૧૬ થી ૧૮ અને ૨૦ ના રોજ હળવો વરસાદ થવાની શક્યતા છે. પવનની દિશા પશ્ચિમની રહેવાની અને પવનની ઝડપ ૮ થી ૧૮ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૩૨-૩૩ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન ૨૬-૨૭ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ પેરામીટર	દિવસ-૧ ૧૬-૦૯-૨૦	દિવસ-૨ ૧૭-૦૯-૨૦	દિવસ-૩ ૧૮-૦૯-૨૦	દિવસ-૪ ૧૯-૦૯-૨૦	દિવસ-૫ ૨૦-૦૯-૨૦
વરસાદ(મી.મી.)	1	2	3	0	4
મહત્તમતાપમાન( સે.ગ્રે)	32	33	32	32	33
લઘુત્તમતાપમાન( સે.ગ્રે)	27	27	27	26	27
મહત્તમભેજ (%)સવાર	85	83	83	80	79
લઘુત્તમભેજ (%) બપોરબાદ	70	64	69	65	60
પવનનીગતિ(કિમી/કલાક)	18	15	16	14	8

પવનનીદિશા(ડીગ્રી)	248	249	257	248	255
વાદળનીસ્થિતિ( ઓકટા)	7	8	8	7	7

**સુરેન્દ્રનગર :** જીલ્લામાં આગામી તા.૧૬-૦૯-૨૦૨૦ થી તા.૨૦-૦૯-૨૦૨૦ દરમ્યાન હવામાન ગરમ, ભેજવાળું અને વાદળછાયું રહેશે તા. ૧૬ થી ૨૦ ના રોજ હળવો થી મધ્યમ વરસાદ થવાની શક્યતા છે. પવનની દિશા પશ્ચિમ અને નૈઋત્યની રહેવાની અને પવનની ઝડપ ૯ થી ૧૫ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૩૩-૩૪ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન ૨૬-૨૬ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ પેરામીટર	દિવસ-૧ ૧૬-૦૯-૨૦	દિવસ-૨ ૧૭-૦૯-૨૦	દિવસ-૩ ૧૮-૦૯-૨૦	દિવસ-૪ ૧૯-૦૯-૨૦	દિવસ-૫ ૨૦-૦૯-૨૦
વરસાદ(મી.મી.)	2	5	10	12	12
મહત્તમતાપમાન( સે.ગ્રે)	34	34	34	33	34
લઘુત્તમતાપમાન( સે.ગ્રે)	26	26	26	26	26
મહત્તમભેજ (%)સવાર	84	83	84	82	81
લઘુત્તમભેજ (%) બપોરબાદ	56	60	56	58	55
પવનનીગતિ(કિમી/કલાક)	15	15	14	12	9
પવનનીદિશા(ડીગ્રી)	249	270	285	279	225
વાદળનીસ્થિતિ( ઓકટા)	7	8	8	8	8

**અમરેલી :** જીલ્લામાં આગામી તા.૧૬-૦૯-૨૦૨૦ થી તા.૨૦-૦૯-૨૦૨૦ દરમ્યાન હવામાન ગરમ, ભેજવાળું અને વાદળછાયું રહેશે તા. ૧૬ થી ૨૦ ના રોજ હળવો થી મધ્યમ વરસાદ થવાની શક્યતા છે. પવનની દિશા પશ્ચિમની રહેવાની અને પવનની ઝડપ ૭ થી ૧૨ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૩૨-૩૩ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન ૨૪-૨૫ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.




તારીખ પેરામીટર	દિવસ-૧ ૧૬-૦૯-૨૦	દિવસ-૨ ૧૭-૦૯-૨૦	દિવસ-૩ ૧૮-૦૯-૨૦	દિવસ-૪ ૧૯-૦૯-૨૦	દિવસ-૫ ૨૦-૦૯-૨૦
વરસાદ(મી.મી.)	9	12	13	17	15
મહત્તમતાપમાન( સે.ગ્રે)	33	33	32	33	32
લઘુત્તમતાપમાન( સે.ગ્રે)	24	25	24	24	24
મહત્તમભેજ (%)સવાર	91	91	93	92	89
લઘુત્તમભેજ (%) બપોરબાદ	66	68	69	68	70
પવનનીગતિ(કિમી/કલાક)	12	12	11	10	7
પવનનીદિશા(ડીગ્રી)	249	283	288	288	290
વાદળનીસ્થિતિ( ઓકટા)	7	8	8	8	8

**જામનગર :** જીલ્લામાં આગામી તા.૧૬-૦૯-૨૦૨૦ થી તા.૨૦-૦૯-૨૦૨૦ દરમ્યાન હવામાન ગરમ, ભેજવાળું અને વાદળછાયું રહેશે તા. ૧૬ થી ૨૦ ના રોજ હળવો થી મધ્યમ વરસાદ થવાની શક્યતા છે.

પવનની દિશા પશ્ચિમની રહેવાની અને પવનની ઝડપ ૮ થી ૧૬ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૩૨-૩૩ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન ૨૬-૨૭ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.



તારીખ પેરામીટર	દિવસ-૧ ૧૬-૦૯-૨૦	દિવસ-૨ ૧૭-૦૯-૨૦	દિવસ-૩ ૧૮-૦૯-૨૦	દિવસ-૪ ૧૯-૦૯-૨૦	દિવસ-૫ ૨૦-૦૯-૨૦
વરસાદ(મી.મી.)	8	7	12	5	15
મહત્તમતાપમાન( સે.ગ્રે)	32	32	32	32	33
લઘુત્તમતાપમાન( સે.ગ્રે)	26	26	26	26	27
મહત્તમભેજ (%)સવાર	89	87	88	85	85
લઘુત્તમભેજ (%) બપોરબાદ	65	66	68	67	64
પવનનીગતિ(કિમી/કલાક)	16	15	15	13	8
પવનનીદિશા(ડીગ્રી)	248	248	252	249	255
વાદળનીસ્થિતિ( ઓકટા)	7	8	8	8	8

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- ૧૬ થી ૨૦-સપ્ટેમ્બર-૨૦૨૦ દરમ્યાન હવામાન ગરમ, ભેજવાળું અને વાદળછાયું રહશે. રાજકોટ, દેવભૂમિ દ્વારકા, મોરબી, અમરેલી, જામનગર અને સુરેન્દ્રનગર જીલ્લામાં તા. ૧૬ થી ૨૦ ના રોજ હળવો થી મધ્યમ વરસાદ થવાની શક્યતા છે. પવનની દિશા પશ્ચિમની મોટાભાગે રહેવાની અને પવનની ઝડપ ૬ થી ૧૮ કીમી/કલાક રહેવાની શક્યતા છે. આ સમયગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૩૨-૩૪ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન ૨૪-૨૭ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.
- કોરોના વાયરસના સંક્રમણને અટકાવવા ખેતી કર્યો અને ખેત પેદાશના વેચાણ અને બીજ, ખાતર અને દવાઓની ખરીદી દરમ્યાન મોં પર કપડું (માસ્ક) બાંધી રાખવું અને બે વ્યક્તિ વચ્ચે ૬ થી ૭ ફૂટ અંતર જાળવવું.
- તા. ૧૨ થી ૧૬ સપ્ટેમ્બર-૨૦૨૦ દરમ્યાન છુટ્ટા છવાયા વિસ્તારોમાં હળવો થી મધ્યમ વરસાદ થવાની શક્યતા હોય અડદ, મગ, તલ અને ઉભડી મગફળીના ખળાની કામગીરી પૂર્ણ કરવી અને ઉભડી મગફળી હાલ ઉપાડવી નહિ.
- જે ખેતરોમાં વધુ વરસાદના કારણે પાકને ખુબજ નુકશાન થયું હોય અથવા બળી ગયેલ હોય અને ફરી વાવેતર કરવાની જરૂરીયાત હોય ત્યાં અજમા, સુવા, તલ, દિવેલા અને ચણા (ઝીઝરા માટે) જેવા પાકોનું વાવેતર કરી શકાય.
- તેમજ તમામ ઉભા પાકોમાં વરાપે આંતરખેડ અને નિદામણ કાર્ય જરૂરિયાત મુજબ કરવું.
- તા. ૧૬ થી ૨૨ સપ્ટેમ્બર -૨૦૨૦ : હવામાન વરતારો : તા. ૧૬ થી ૨૨ સપ્ટેમ્બર -૨૦૨૦ દરમ્યાન હળવો વરસાદ થવાની સંભાવના છે.
- હવામાન ચેતવણી: -




<p>મોબાઈલ સંદેશ:</p> <p>૧. તા. ૧૬ થી ૨૦ સપ્ટેમ્બર-૨૦૨૦ દરમ્યાન છુટ્ટા છવાયા વિસ્તારોમાં હળવો થી મધ્યમ વરસાદ થવાની શક્યતા હોય અડદ, મગ, તલ અને ઉભડી મગફળીના ખળાની કામગીરી પૂર્ણ કરવી અને ઉભડી મગફળી હાલ ઉપાડવી નહિ.</p> <p>૨. મરચીમાં ઝડપી વિકાસ માટે એમોનિયમ સલ્ફેટ અને મયુરેટ ઓફ પોટાશ ખાતર દરેક ૨૫ કી.ગ્રા. પ્રતિ હેક્ટર આપવું અને મિક્સ માયક્રોન્યુટ્રીયન્ટ ૧૦૦ ગ્રામ/પ્રતિ પંપ છાંટવું .</p>			
મુખ્ય પાક	પાક અવસ્થા	રોગ/જીવાત/જાત	કૃષિ સલાહ (૧૦ લીટરપાણીમાં મિશ્ર કરી ભલામણ કરેલ દવા છાંટવી )
ચોમાસું મગફળી	ઉભડી : દેહ ધાર્મિક પરી પકવતા, અર્ધ વેલડી: દોડવા બંધાવવા અને દાણા ભરાવા	સફેદ ફૂગ  પાનાં ટપકા/ ચીતરી અને ગેરુ  	<ul style="list-style-type: none"> <li>મગફળીમાં સફેદ ફૂગનો ઉપદ્રવ અટકાવવા ટ્રાયકોડર્મા ફૂગ ૨.૫ કી.ગ્રા./હે. મુજબ ગળતીયા દેશી ખાતર અથવા દિવેલાના ખોળ ૫૦૦ કી.ગ્રા./હે. મિશ્ર કરીને જમીનમાં આપવું.</li> <li>મગફળીમાં પાનનાં ટપકા અને ગેરુના રોગનો ઉપદ્રવ નાં થાય તે માટે હેકઝાકોનાઝોલ અથવા પ્રોપીકોનાઝોલ ૧૬ મિલી દવા ૧ પમ્પમાં નાખીને વરાપે છંટકાવ કરવો.</li> <li>તા. ૧૬ થી ૨૦ સપ્ટેમ્બર-૨૦૨૦ દરમ્યાન છુટ્ટા છવાયા વિસ્તારોમાં હળવો થી મધ્યમ વરસાદ થવાની શક્યતા હોય મગફળીના ખળાની કામગીરી પૂર્ણ કરવી અને મગફળી હાલ ઉપાડવી નહિ.</li> </ul>

કપાસ	ચાપવા બેસવા અને ફૂલ ઉઘડવા	તડતડીયા, સફેદ માખી અને શ્રીપ્સ  પાનાં ટપકા	<ul style="list-style-type: none"> <li>➤ તડતડીયા, સફેદ માખી અને શ્રીપ્સના નિયંત્રણ માટે ફ્લોનીકામીડ ૫૦ ટકા વે.પા. ૪ ગ્રામ ૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો.</li> <li>➤ કપાસમાં પાનાં ટપકાના રોગના નિયંત્રણ માટે મેન્કોઝેબ ૪૦ ગ્રામ અથવા હેકઝાકોનાઝોલ ૧૬ મિલી દવા ૧ પમ્પમાં નાખીને વરાપે છંટકાવ કરવો.</li> <li>➤ કપાસમાં ગુલાબી ઇયળના નર ફૂદાને એકત્રીત કરવા માટે હેક્ટરે ૪૦ ની સંખ્યામાં ફેરોમેન ટ્રેપ ગોઠવવાથી ઇયળોનું શરુઆતની અવસ્થાથી જ નિયંત્રણ કરી શકાય. કપાસમાં ગુલાબી ઇયળથી નુકશાન પામેલ ફૂલ અને ચાપવા તોડીને જમીનમાં દાટી દેવા. વધુ નુકશાન હોય તો પ્રોફેનોફોસ ૫૦% ઇ.સી. ૨૦ મી.લી. અથવા સાયપરમેથ્રીન ૧૦ મિલી બીવેરીયા બાસીઆના ફૂગનો પાઉડર ૪૦ ગ્રામ ૧૦ લીટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો.</li> <li>• કપાસમાં વરાપે પાળા ચડાવવા.</li> <li>• બી.ટી. કપાસમાં યુરીયા અને એમોનિયમ સલ્ફેટ અને મ્યુરેટ ઓફ પોટાશ દરેક ૩૦ કી.ગ્રા./હે. પુરતી ખાતર તરીકે આપવું.</li> <li>• બી.ટી. કપાસમાં ફૂલ ભમરી, ઝીન્ડવા બનવા અને ઝીન્ડવાના વિકાસની અવસ્થાએ ૨ ટકા પોટેશિયમ નાયટ્રેટના દ્રાવણનો (૧૦ લીટર પાણીમાં ૨૦૦ ગ્રામ) છંટકાવ કરવો.</li> <li>• બી.ટી. કપાસમાં વાવેતર બાદ ૬૦, ૭૫ અને ૯૦ દિવસે ૧ ટકા મલ્ટી માયકોન્યુટ્રીયન્ટના દ્રાવણનો (૧૦ લીટર પાણીમાં ૧૦૦ ગ્રામ) છંટકાવ કરવો.</li> <li>➤ બી.ટી. કપાસમાં ૪.૫ થી ૫ ફૂટની ઊંચાઈએ ઉપરની ટોચ કાપવી, જેથી સારો ફાલ લાગે.</li> <li>➤ તેમજ કપાસના પાકમાં ફૂલ ભમરી ખરતી અટકાવવા અને સારો ફાલ લાગે તે માટે નેપ્થેલીન એસેટિક એસીડનું ૩૦ પીપીએમ દ્રાવણ છાન્ટવું (ખ્વાનોફિક્સ ૭.૫ મિલી ૧૦ લીટર પાણીમાં મિશ્ર કરીને છાટવું).</li> </ul>
તલ	બેઢાં અને દેહ ધાર્મિક પરી પકવતા,	-	<ul style="list-style-type: none"> <li>• પરિપક્વ અવસ્થાએ હવામાન અનુકૂળ થયે કાપણી કરવી.</li> </ul>
બાજરી	દેહ ધાર્મિક પરી પકવતા,	-	<ul style="list-style-type: none"> <li>• પરિપક્વ બાજરીના ડુંડા લણીને હવા ઉજાસ વાળા ગોડાઉનમાં</li> </ul>

			રાખવા જેથી વારસાની શક્યતા હોય પલળે નહિ.
અડદ	દેહ ધાર્મિક પરી પકવતા,	-	• પાકેલી શીંગોની વીણી કરવી.
તુવેર	વાવેતર/ઉગાવો	-	• વરાપે આંતરખેડ અને નિંદામણ કરવું.
ચોમાસું ડુંગળી	ફેર રોપણી /સીધું બીજથી વાવેતર	-	<ul style="list-style-type: none"> <li>• ચોમાસું નાશીક ડુંગળીનું ઘરું તૈયાર હોય તો ફેર રોપણી કરવી અથવા બીજનું સીધુજ વાવેતર કરવું.</li> <li>• ડુંગળીમાં જાંબલી ધાબા અને ફ્યુઝેરીયમ ફૂગનો રોગ લાગે નહિ તે માટે ૧૫ દિવસના અંતરે મેન્કોઝેબ ૪૦ ગ્રામ અને કાર્બેન્ડાઝીમ ૧૫ ગ્રામ ૧ પમ્પમાં નાખીને ૩ છંટકાવ કરવા.</li> <li>• સફેદ કાંજી ડુંગળીના વાવેતર સમયે કાર્બેન્ડાઝીમ દવા ૨ થી ૩ ગ્રામ પ્રતિ કિલો મુજબ પટ આપીને પછી વાવેતર કરવું.</li> </ul>
ભીંડા	ફૂલ/ફળ	પાન કથીરી સફેદ માખી અને લીલી પોપટી	<ul style="list-style-type: none"> <li>• ગરમ હવામાનના કારણે ભીંડામાં જો પાન કથીરીનો ઉપદ્રવ હોય તો ઇથીઓન ૩૦ મિલી પ્રતિ પંપ છંટકાવ કરવો.</li> <li>• સફેદ માખી અને લીલી પોપટીના નિયંત્રણ માટે લીંબોળીનું તેલ ૫૦ મી.લિ. અથવા લીંબોળીના મીંજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મી.લી. અને ડાયફેનથાયુરોન ૫૦ ટકા વે.પા. ૧૬ ગ્રામ દવાને ૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો.</li> <li>• ભીંડામાં શીંગોની વીણી કર્યા બાદ ૧૫-૨૦ કી.ગ્રા. યુરિઆ ખાતર પ્રતિ હેક્ટર આપવું.</li> </ul>
તુરીયા, દૂધી, ગલકા, કારેલા, ગુવાર, કાકડી, તરબુચ	ફૂલ/ફળ	શ્રીપ્સ/ સફેદ માખી કથીરી તળછારો ફળ માખી	<ul style="list-style-type: none"> <li>• વેલાવાળા શાકભાજીમાં સફેદમાખીના 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.</li> <li>• જો પાન કથીરીનો ઉપદ્રવ હોય તો ઇથીઓન ૩૦ મિલી પ્રતિ પંપ છાન્કાવ કરવો.</li> <li>• વેલાવાળા શાકભાજીમાં તળછારાના નિયંત્રણ માટે મેન્કોઝેબ ૪૦ ગ્રામ પ્રતિ પંપમાં મિશ્ર કરી છંટકાવ કરવો.</li> <li>• જો ફળ માખીનો ઉપદ્રવ જણાય તો ૫૦ ગ્રામ ગોળ અને ૩૦ મી.લી. મેલાથીયોન દવા ૧૦ લીટર પાણીમાં મિશ્ર કરીને વરપે મોટા ફેરાએ છંટકાવ કરવો.</li> </ul>
રીંગણી/ટામેટી	ફૂલ/ફળ	સફેદ માખી	➤ રીંગણી અને ટામેટીમાં સફેદ માખીના નિયંત્રણ માટે લીંબોળીનું તેલ ૫૦ મિલિ અથવા લીંબોળીના મીંજનું ૫

		<p>ડુંખ અને→ ફળ કોરી ખાનાર ઈયળ</p> <p>પાન કથીરી</p>	<p>ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી અને ડાયફેન્થાયુરોન ૫૦ ટકા વે.પા. ૧૬ ગ્રામ અથવા ટ્રાયઝોફોસ ૪૦ ઈસી ૨૫ મિ.લી. દવાને ૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો.</p> <p>➤ ફળ અને ડોકાની ઈયળોનો ઉપદ્રવ હોય તો નુકશાન પામેલ ફળ અને ડોકા તોડીને જમીનમાં દાંટી દેવા અને ક્લોરાનટ્રાનીલીપ્રોલ ૧૮.૫ એસ.સી (રીનાક્ષીપાયર) દવા ૩ મિલી અથવા ડીડીવીપી ૭૬ ઈસી ૫ મિલી ૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો.</p> <p>➤ રીંગણમાં જો પાનકથીરીનો ઉપદ્રવ હોય તો ઈથીઓન ૫૦ ટકા ઈસી ૧૫ મિલી અથવા પ્રોપરગાઈટ ૫૭ ઈ.સી. ૧૫ મિલી પ્રતિ ૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો.</p>
મરચી	વૃદ્ધિ/ફુલ/ફળ	 <p>પાનની કુક્ડ- શ્રીપ્સ→</p> <p>પાનની કુક્ડ- વાયરસ</p> 	<p>➤ સતત વરસાદના કારણે મરચીના પાકના સારા ઝડપી વિકાસ માટે</p> <p>➤ ખેતરમાંથી શક્ય હોય તો રેય ફૂટેલ પાણીના નિકાલની વ્યવસ્થા કરવી.</p> <p>➤ શરૂઆતના ઝડપી વિકાસ માટે એમોનિયમ સલ્ફેટ અને મયુરેટ ઓફ પોટાશ ખાતર દરેક ૨૫ કી.ગ્રા. પ્રતિ હેક્ટર આપવું અને</p> <p>➤ શક્ય હોય તો હલવું પાલર પાણી આપવું જેથી વરાપ જલ્દી આવે.</p> <p>➤ વરાપે આંતરખેડ અને નિંદામણ કરવું તેમજ વીઘે ૧૫ કી.ગ્રા. એન.પી.કે. ખાતર દાન્ટાળથી જમીનમાં વાવવું.</p> <p>➤ મિક્સ માયકોન્યુટ્રીયન્ટ ૧૦૦ ગ્રામ/પ્રતિ પંપ ૧૦ દિવસના ગાળે બે છંટકાવ કરવા.</p> <p>➤ ગરમી અને ભેજ વાળા હવામાનમાં મરચીમાં પાનનાં ટપકાના રોગનો ઉપદ્રવ થાય નહિ તે માટે મેન્કોઝેબ ૪૦ ગ્રામ અથવા હેક્ઝાકોનાઝોલ ૧૬ મિલી દવા ૧ પમ્પમાં નાખીને વરાપે છંટકાવ કરવો.</p> <p>➤</p> <p>➤ ટ્રાયઝોફોસ ૪૦ ઈ.સી. ૨૦ મી.લી. અથવા એસીટેમાપ્રીડ ૨૦ ટકા ૫ ગ્રામ અથવા પ્રોફેનોફોસ ૨૦ મી.લી. અને વધુ ઉપદ્રવ હોય તો સ્પીનોસાડ અથવા સ્પીનેટોરમ ૪ મી.લી. અને લીંબોળીનું તેલ ૫૦ મીલી અથવા લીંબોળીના મીંજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી ૧૦ લી.પાણીમાં મિશ્ર કરી છંટકાવ કરવો.</p>



		<p>કથીરી</p> 	<p>➤ વાયરસના કારણે પીળા થઈ કુકડાય 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.</p> <p>➤ જો પાન કથીરીનો ઉપદ્રવ હોય તો ઇથીઓન ૩૦ મિલી પ્રતિ પંપ છાન્કાવ કરવો.</p>
લીંબુ	ફળનો વિકાસ	સાયલા અને થ્રીપ્સ	<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 ટ્રાયઝોફોસ ૪૦ ટકા ૨૦/૧૦ લિટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો.</p> 
		બદામી ટપકાં	<p>બદામી ટપકાના નિયંત્રણ માટે કોપર ઓક્સીક્લોરાઈડ ૪૦ ગ્રામ અને ૧.૫ ગ્રામ સ્ટ્રેપ્ટોસાયક્લીનના બે છંટકાવ ૧૫ દિવસના ગળે કરવા.</p>
		પાનકોરીયુ	<p>• પાનકોરીયુના નિયંત્રણ માટે ડીડીવીપી ૧૦ મી.લી. ૧૦ લિટર પાણીમાં મિશ્ર કરીને છાંટવી.</p>
પશુ/ મરઘા			<p>પ્રજીવથી થતા રોગોની ચકાસણી કરાવવી અને કરમિયાની દવા આપવી.. ઈતરડીના નિયંત્રણ માટે ડેલ્ટામેથ્રીન અથવા એમીટ્રાઝ ૨ મિ.લિ. એક લિટર પાણીમાં નાખીને છાંટવી. વિટામીન એ તથા ડી પુરકો આપવા. વરસાદના સમયે પશુઓને સુરક્ષીત જગ્યાએ રાખવા. ચોમાસા દરમિયાન જાનવરોને રહેઠાણની જગ્યાની વ્યવસ્થિત સફાઈ તેમજ માખીઓના ઉપદ્રવથી બચવા ફિનાઈલ છાંટવું. દુધાળા પ્રાણીઓને નિયમિત ૧ કિલ્લો ફીડ + ૫૦ ગ્રામ ખનીજ તત્વોનું મિશ્રણ પ્રતિ ૨ લીટર દુધની ઊપજના પ્રમાણમાં આપવું. તેમજ લીલું ઘાસ + સૂકું ઘાસ + ખનીજ તત્વો ખોરાકમાં આપવા. ખુલ્લામાં રાખેલ ઘાસસારો વરસાદથી બગડે નહિ તે માટે જરૂરી પગલા ભરવા.</p> 

તરઘડિયા( રાજકોટ) તારીખ:૧૫/૦૯/૨૦૨૦

તંત્રીશ્રી/ડાયરેક્ટરશ્રી,  
રાજકોટ,

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

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જુનાગઢ કૃષિ નિવર્સિટી  
તરઘડીયા

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**Gramin Krushi Mausam Seva**  
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**Agromet Advisory Service bulletin No.49-for the Rajkot district**

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

(Period 16 to 20-September- 2020)

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

Rainfall (mm)	11.6
Maximum temperature (°C )	32.3-34.0
Minimum temperature (°C )	23.3-24.9
Relative Humidity (%) I	87-95
Relative Humidity (%) II	63-73
Wind speed (Kmph)	2.5-4.3



**Weather forecast until 08-30 hrs. of 20/09/2020**

**(1) RAJKOT DISTRICT:**



	16/09/20	17/09/20	18/09/20	19/09/20	20/09/20
Rainfall (mm)	8	10	17	17	19
Max.Temp.(°C)	34	34	34	33	34
Min.Temp.(°C)	26	26	26	26	26
RH-I (%)	90	90	92	91	88
RH-II (%)	59	65	64	65	65
Wind Speed (kmph)	14	13	12	10	6
Wind Direction(deg.)	248	257	252	249	248
Total CC (octa)	7	8	8	8	8





**Agro meteorological Advisories:**

<b>General Advice</b>	<ul style="list-style-type: none"><li>● <b>Rainfall:</b> Hot, Humid and generally cloudy to cloudy weather forecasted for next five days. Light to moderate rainfall during 16 to 20-September-2020 forecasted.</li><li>● <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 33-34°C and 26-26°C, respectively.</li><li>● <b>Relative Humidity:</b> The RH-I and RH-II is likely to be in the range of 88-92% &amp; 59-65, respectively.</li><li>● <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be W and 6-14 km/h, respectively.</li><li>● <b>In the field where kharif crops wilted or damaged severely and need to resowing, then Ajwain, suwa, castor, sesame and chick pea for green pod are advise to sow.</b></li></ul>
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	<ul style="list-style-type: none"> <li>• <b>Carry out interculturing and weeding in cotton and vegetable crops.</b></li> <li>• <b>There is chance of light to moderate rain fall at isolate places during 16-20 September, so carry out threshing of black gram, sesame and bunch groundnut if harvested and postpone the harvesting of black gram, sesame and bunch groundnut.</b></li> <li>• <b>Weather outlook for subsequent week: As per Extended range forecast Light rain fall likely to occur during 20 to 26 September-2020.</b></li> </ul> <p>• <b>Sms:</b></p> <ul style="list-style-type: none"> <li>• <b>There is chance of light to moderate rainfall at isolate places during 16-20 Sep, so carry out threshing of blackgram, bunch G'nut if harvested &amp; postpone the harvesting of blackgram and bunch G'nut.</b></li> </ul>		
Crops	Stage	Insect/Pest/ Variety	Advisory
<b>Kharif groundnut</b>	<b>Bunch groundnut :</b> Physiological maturity, <b>Semi spreading:</b> Pod formation & development	<b>Sclerotium rolfsii</b>  <b>Tikka &amp; Rust</b> 	<ul style="list-style-type: none"> <li>• <b>Apply 2.5 kg/ha Trichoderma fungus with well decompose FYM OR castor cake @ 500 kg/ha as preventive measures against Sclerotiumrolfsii stem rot.</b></li> <li>• <b>The present weather condition is congenial for infestation of Tikka &amp; rust diseases in groundnut crop so carry out spraying of Propiconazole 20 ml or Tebuconazole 15/10 litre of to prevent leaf spot&amp; rust infestation in groundnut under clear weather.</b></li> <li>• <b>Postpone harvesting of groundnut as there is chance of very likely to occur light, moderate and heavy rain fall at isolate places during 16-20 September.</b></li> </ul>
<b>Cotton</b>	<b>Squaring &amp; flowering initiation</b>	<b>Jassids, thrips and White fly</b>  <b>Alternaria and cercospora leaf spot</b>	<ul style="list-style-type: none"> <li>• <b>Under present weather condition, infestation of Jassids, whitefly and thrips observe in cotton, for control the pest spray Flonicamid 50 % WG % 4gm/ 10 lit of water.</b></li> <li>• <b>For the control of Alternaria and cercospora leaf spot spray Mencozeb @ 27 gm/10 litre of water.</b></li> <li>• <b>For the monitoring of pink bollworm infestation in cotton crop farmers are advised to put pheromone traps 6-8/ha. If infestation found pick and burry the infested flowers/bolls in soil for control of pink bollworm infestation in cotton. Also make</b></li> </ul>

			<p>spray of profenofos 50 EC 20 ml in 10 liters of water.</p> <ul style="list-style-type: none"> <li>• Farmers are advised to spray 3 % KNO<sub>3</sub> solution in at flowering, boll initiation and 50% boll formation to Bt. Cotton crop.</li> <li>• Foliar spraying of multi-micronutrient formulation Grade IV (Fe-Mn-Zn-CuB, 4.0-1.0-6.0-0.5-0.5 %) @ 1% at 60, 75 and 90 DAS in Bt. cotton crop is advised.</li> <li>• Detopping of cotton should be done in crop having 4.5-5 feet height.</li> <li>• Under present weather, farmers are advised to spray 30 ppm Naphthalene Acetic Acid solution ( planofix 7.5 ml/10 liter of water).</li> </ul>
Sesame	Capsule development & physiological maturity	-	<ul style="list-style-type: none"> <li>• Harvest at maturity as weather become clear.</li> </ul>
Pearl millet	Physiological maturity	-	<ul style="list-style-type: none"> <li>• Harvest ripen ear head of pearl millet and store in well ventilated godown.</li> </ul>
Black gram	Physiological maturity	-	<ul style="list-style-type: none"> <li>• -</li> </ul>
Pigeon pea	Early establishment	-	<ul style="list-style-type: none"> <li>• Do inter culturing and weeding at Vapsa condition.</li> </ul>
<i>Kharif</i> Onion	Growing	-	<ul style="list-style-type: none"> <li>• For the control of purple blotch blight and fuserium wilt disease in kharif onion make 3 alternate spray of Mencozeb 25 gm and Carbendazim 10 gm in 10 litre of water at 10 days interval.</li> <li>• Drain out excess water from nursery/field bed to prevent wilting.</li> <li>• Treat “kanji” onion seed at sowing with carbendazim @ 2-3 gm/kg for prevention of soil and seed borne diseases.</li> </ul>
Lady finger	Flowering/fruit ing	<p>Mites</p> <p>White flies/Jassids</p>	<ul style="list-style-type: none"> <li>• Constant monitoring of lady finger crop against attack of miteis advised. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water is advised.</li> <li>• For control of whitefly&amp;jassids in Okra, Spray 500 ml of 5 % neem seed extract or 50 ml neem</li> </ul>

			<p>oil or acephate 75 % SP @ 15 gm or imidacloprid 17.8 SL 3 ml/10 litre of water.</p> <ul style="list-style-type: none"> <li>• After harvesting of mature okra, urea should be applied @ 15-20 kg/ha.</li> </ul>
<p>Ridge gourd, Bottle gourd, Sponge guard, Bittergourd, Cluster bean, Water melon</p>	<p>Flowering &amp; fruiting</p>	<p>White flies/  Mites  Fruit fly  Downy mildew </p>	<ul style="list-style-type: none"> <li>• In all vegetable crops, whitefly infestation observed above ETL, for control of whitefly, spray 500 ml of 5 % neem seed extract or 50 ml neem oil or acetamiprid 20 % SP @ 5.0 g or imidacloprid 17.8 SL 3 ml/10 litre of water.</li> <li>• If population of mite is observed, then to control it, do spraying of Ethion 50 EC 15 ml in 10 litre of water.</li> <li>• For the control of fruit fly make spray solution of 50 gm jaggery and 30 ml Malathion in 10 litre of water with large droplets.</li> <li>• For the control of downy mildew, spray Mancozeb 75 WP 35 g mix in 10 litre of water.</li> </ul>
<p>Brinjal</p>	<p>Flowering/ fruiting</p>	<p>Sucking pest →  Shoot &amp; Fruit borer  Mites</p>	<ul style="list-style-type: none"> <li>• For minimize population of whitefly, Spray 500 ml of 5 % neem seed extract or neem oil 50 ml or Difenthiuron 50 WP @ 16 gm / 10 lit of water.</li> <li>• In brinjal and tomato crops, monitoring of borers by using pheromone traps 4-6 per acre is advised. For control of shoot and fruit borer in brinjal and tomato crops, infested fruits and shoots should be collected and buried into the soil. If insect population is above ETL then spraying of chlorantraniliprole 18.5 % SC 3.0 ml or DDVP 7 ml/10 litre of water is advised.</li> <li>• If infestation of mite is observed in brinjal, then spraying of Ethion 50 EC 15 ml or Propargite 57 % EC @ 10 ml/ 10 litre of water.</li> </ul>
<p>Chili</p>	<p>Flowering/ fruiting</p>		<ul style="list-style-type: none"> <li>• Under present weather condition in transplanted hybrid chili to push up growth drain out excess water, apply ammonium sulphate and murate of potash fertilizers each @ 25 kg/ha, apply light flood irrigation for early vapsa condition, for prevention of fungal diseases spray Mencozeb @ 27 gm/10 litre of water and make spraying of mix micronutrients 100 gm/10 lit. of water.</li> <li>• For the control of thrips in chili make spray of</li> </ul>

		<p><b>Thrips</b> →</p>  <p>Leaf curling Virus →</p>  <p>Mites</p>	<p>of profenofos 20 ml with 500 ml of 5 % neem seed extract or neem seed oil 50 ml in 10 litres of water. In case of heavy attack, spray of <b>spinosad or spinetoram 3 ml per 10 liter of water.</b></p> <ul style="list-style-type: none"> <li>• <b>Under present weather conditions, rouging of viral infested plants should be done in chili. 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.</b></li> <li>• <b>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></li> </ul>
<b>Lemon</b>	Fruit development	<p><b>Psylla and thrips</b></p>  <p><b>Citrus canker</b></p> <p><b>Leaf minor</b></p>	<p>To prevent damage of psylla&amp;thrips spray <b>imidacloprid 30.5 % 5 ml / 10 lit of water ml/10 lit of water.</b></p> <p>Spray copper oxychloride 40 gm or streptocyclin 1.5 gm in 10 litre of water</p> <p>Spray Dichlorvos 10 ml or Quinalphos 20 ml in 10 litres of water for control of leafminor.</p>
<b>Livestock &amp; poultry</b> 	<p>Spray Deltamethrin or Amitraz 2 ml/litre of water for the control of tick. Deworming, Protozoan disease evaluation and its treatments should be done. Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. For milch animals, regularly follow schedule of 1 kg feed + 50 g mineral mixture per 2 liters of milk yield. Feed animals with a mixture of green grass + hay + minerals + dry feed. Ensure regarding vaccination of animals for different diseases in rainy season. Spray phenyl in the animal shed to avoid fly's and mosquitoes.</p> <p>Keep fodder in safe place to avoid spoilage due to rainfall.</p>		

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



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**Agro met Advisory Service bulletin No.-49 for the Morbi district**

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

(Period 16 to 20-September- 2020)

**Weather forecast until 08-30 hrs. of 20/09/2020**



**(2) MORBI DISTRICT:**

	16/09/20	17/09/20	18/09/20	19/09/20	20/09/20
Rainfall (mm)	5	5	10	7	13
Max. Temp.(°C)	34	34	34	33	34
Min. Temp.(°C)	26	26	26	26	26
RH-I (%)	86	84	84	81	81
RH-II (%)	58	59	52	57	52
Wind Speed (kmph)	17	16	16	14	9
Wind Direction(deg.)	248	249	257	248	158
Total CC (octa)	7	8	8	8	8




**Agro meteorological Advisories:-**




<b>General Advice</b>	<ul style="list-style-type: none"><li>• <b>Rainfall:</b> Hot, Humid and generally cloudy to cloudy weather forecasted for next five days. Light to moderate rainfall during 16 to 20-September-2020 forecasted.</li><li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 33-34°C and 26-26°C, respectively.</li><li>• <b>Relative Humidity:</b> The RH-I and RH-II is likely to be in the range of 81-86% &amp; 52-59, respectively.</li><li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be W, S and 9-17 km/h, respectively.</li><li>• <b>In the field where kharif crops wilted or damaged severely and need to resowing, then Ajwain, suwa, castor, sesame and chick pea for green pod are advise to sow.</b></li><li>• <b>Carry out interculturing and weeding in cotton and vegetable crops.</b></li><li>• <b>There is chance of light to moderate rain fall at isolate places during 16-20 September, so carry out threshing of black gram, sesame and bunch groundnut if harvested and postpone the harvesting of black gram, sesame and bunch groundnut.</b></li><li>• <b>Weather outlook for subsequent week: As per Extended range forecast Light</b></li></ul>
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	<p><b>rain fall likely to occur during 20 to 26 September-2020.</b></p> <p>• <b>Sms:</b></p> <ul style="list-style-type: none"> <li>• <b>There is chance of light to moderate rainfall at isolate places during 16-20 Sep, so carry out threshing of blackgram, bunch G'nut if harvested &amp; postpone the harvesting of blackgram and bunch G'nut.</b></li> </ul>		
<b>Crops</b>	<b>Stage</b>	<b>Insect/Pest/ Variety</b>	<b>Advisory</b>
<b>Khariif groundnut</b>	<p><b>Bunch groundnut :</b> Physiological maturity, <b>Semi spreading:</b> Pod formation &amp; development</p>	<p><b>Sclerotium rolfsii</b></p>  <p><b>Tikka &amp; Rust</b></p> 	<ul style="list-style-type: none"> <li>• <b>Apply 2.5 kg/ha Trichoderma fungus with well decompose FYM OR castor cake @ 500 kg/ha as preventive measures against Sclerotiumrolfstii stem rot.</b></li> <li>• <b>The present weather condition is congenial for infestation of Tikka &amp; rust diseases in groundnut crop so carry out spraying of Propiconazole 20 ml or Tebuconazole 15/10 litre of to prevent leaf spot&amp; rust infestation in groundnut under clear weather.</b></li> <li>• <b>Postpone harvesting of groundnut as there is chance of very likely to occur light, moderate and heavy rain fall at isolate places during 16-20 September.</b></li> </ul>
<b>Cotton</b>	<p><b>Squaring &amp; flowering initiation</b></p>	<p><b>Jassids, thrips and White fly</b></p> <p><b>Alternaria and cercospora leaf spot</b></p>	<ul style="list-style-type: none"> <li>• <b>Under present weather condition, infestation of Jassids, whitefly and thrips observe in cotton, for control the pest spray Flonicamid 50 % WG % 4gm/ 10 lit of water.</b></li> <li>• <b>For the control of Alternaria and cercospora leaf spot spray Mencozeb @ 27 gm/10 litre of water.</b></li> <li>• <b>For the monitoring of pink bollworm infestation in cotton crop farmers are advised to put pheromone traps 6-8/ha. If infestation found pick and burry the infested flowers/bolls in soil for control of pink bollworm infestation in cotton. Also make spray of profenofos 50 EC 20 ml in 10 liters of water.</b></li> <li>• <b>Farmers are advised to spray 3 % KNO3 solution in at flowering, boll initiation and 50%</b></li> </ul>

			<p><b>boll formation to Bt. Cotton crop.</b></p> <ul style="list-style-type: none"> <li>• Foliar spraying of multi-micronutrient formulation Grade IV (Fe-Mn-Zn-CuB, 4.0-1.0-6.0-0.5-0.5 %) @ 1% at 60, 75 and 90 DAS in Bt. cotton crop is advised.</li> <li>• Detopping of cotton should be done in crop having 4.5-5 feet height.</li> <li>• Under present weather, farmers are advised to spray 30 ppm Naphthalene Acetic Acid solution (planofix 7.5 ml/10 liter of water).</li> </ul>
<b>Sesame</b>	Capsule development & physiological maturity	-	<ul style="list-style-type: none"> <li>• Harvest at maturity as weather become clear.</li> </ul>
<b>Pearl millet</b>	Physiological maturity	-	<ul style="list-style-type: none"> <li>• Harvest ripen ear head of pearl millet and store in well ventilated godown.</li> </ul>
<b>Black gram</b>	Physiological maturity	-	<ul style="list-style-type: none"> <li>• -</li> </ul>
<b>Pigeon pea</b>	Early establishment	-	<ul style="list-style-type: none"> <li>• Do inter culturing and weeding at Vapsa condition.</li> </ul>
<b>Kharif Onion</b>	Growing	-	<ul style="list-style-type: none"> <li>• For the control of purple blotch blight and fuserium wilt disease in kharif onion make 3 alternate spray of Mencozeb 25 gm and Carbendazim 10 gm in 10 litre of water at 10 days interval.</li> <li>• Drain out excess water from nursery/field bed to prevent wilting.</li> <li>• Treat “kanji” onion seed at sowing with carbendazim @ 2-3 gm/kg for prevention of soil and seed borne diseases.</li> </ul>
<b>Lady finger</b>	Flowering/fruiting	<p>Mites</p> <p>White flies/Jassids</p>	<ul style="list-style-type: none"> <li>• Constant monitoring of lady finger crop against attack of miteis advised. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water is advised.</li> <li>• For control of whitefly&amp;jassids in Okra, Spray 500 ml of 5 % neem seed extract or 50 ml neem oil or acephate75 % SP@ 15 gm or imidacloprid 17.8 SL 3 ml/10 litre of water.</li> <li>• After harvesting of mature okra, urea should be applied @ 15-20 kg/ha.</li> </ul>

<p><b>Ridge gourd, Bottle gourd, Sponge guard, Bittergourd, Cluster bean, Water melon</b></p>	<p>Flowering &amp; fruiting</p>	<p>White flies/  Mites  Fruit fly  Downy mildew </p>	<ul style="list-style-type: none"> <li>• <b>In all vegetable crops, whitefly infestation observed above ETL, for control of whitefly, spray 500 ml of 5 % neem seed extract or 50 ml neem oil or acetamiprid 20 % SP@ 5.0 g or imidacloprid 17.8 SL 3 ml/10 litre of water.</b></li> <li>• <b>If population of mite is observed, then to control it, do spraying of Ethion 50 EC 15 ml in 10 litre of water.</b></li> <li>• <b>For the control of fruit fly make spray solution of 50 gm jaggery and 30 ml Malathion in 10 litre of water with large droplets.</b></li> <li>• <b>For the control of downy mildew, spray Mancozeb 75 WP 35 g mix in 10 litre of water.</b></li> </ul>
<p><b>Brinjal</b></p>	<p>Flowering/ fruiting</p>	<p><b>Sucking pest</b> →  Shoot &amp; Fruit borer  Mites</p>	<ul style="list-style-type: none"> <li>• <b>For minimize population of whitefly, Spray 500 ml of 5 % neem seed extract or neem oil 50 ml or Difenthiuron 50 WP @ 16 gm / 10 lit of water.</b></li> <li>• <b>In brinjal and tomato crops, monitoring of borers by using pheromone traps 4-6 per acre is advised. For control of shoot and fruit borer in brinjal and tomato crops, infested fruits and shoots should be collected and buried into the soil. If insect population is above ETL then spraying of chlorantraniliprole 18.5 % SC 3.0 ml or DDVP 7 ml/10 litre of water is advised.</b></li> <li>• <b>If infestation of mite is observed in brinjal, then spraying of Ethion 50 EC 15 ml or Propargite 57 % EC @ 10 ml/ 10 litre of water.</b></li> </ul>
<p><b>Chili</b></p>	<p>Flowering/ fruiting</p>	<p>  <b>Thrips</b> → </p>	<ul style="list-style-type: none"> <li>• <b>Under present weather condition in transplanted hybrid chili to push up growth drain out excess water, apply ammonium sulphate and murate of potash fertilizers each @ 25 kg/ha, apply light flood irrigation for early vapsa condition, for prevention of fungal diseases spray Mencozeb @ 27 gm/10 litre of water and make spraying of mix micronutrients 100 gm/10 lit. of water.</b></li> <li>• <b>For the control of thrips in chili make spray of profenofos 20 ml with 500 ml of 5 % neem seed extract or neem seed oil 50 ml in 10 litres of water. In case of heavy attack, spray of spinosad or spinetoram 3 ml per 10 liter of</b></li> </ul>

		<p>Leaf curling Virus→</p>  <p>Mites</p>	<p><b>water.</b></p> <ul style="list-style-type: none"> <li>• Under present weather conditions, rouging of viral infested plants should be done in chili. 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.</li> <li>• <b>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></li> </ul>
<b>Lemon</b>	Fruit development	<p><b>Psylla and thrips</b></p>  <p><b>Citrus canker</b></p> <p><b>Leaf minor</b></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 streptocyclin 1.5 gm in 10 litre of water</p> <p>Spray Dichlorvos 10 ml or Quinalphos 20 ml in 10 litres of water for control of leafminor.</p>
<b>Livestock &amp; poultry</b>	 <p>Spray Deltamethrin or Amitraz 2 ml/litre of water for the control of tick. Deworming, Protozoan disease evaluation and its treatments should be done. Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. For milch animals, regularly follow schedule of 1 kg feed + 50 g mineral mixture per 2 liters of milk yield. Feed animals with a mixture of green grass + hay + minerals + dry feed. Ensure regarding vaccination of animals for different diseases in rainy season. Spray phenyl in the animal shed to avoid fly's and mosquitoes. Keep fodder in safe place to avoid spoilage due to rainfall.</p>		

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



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**Agro met Advisory Service bulletin No.-49 for the Devbhumi Dwarka district**

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

(Period 16 to 20-September- 2020)



**Weather forecast until 08-30 hrs. of 20/09/2020**

**(3) DEVBHUMI DWARKA DISTRICT:**




	16/09/20	17/09/20	18/09/20	19/09/20	20/09/20
Rainfall (mm)	1	2	3	0	4
Max. Temp.(°C)	32	33	32	32	33
Min. Temp.(°C)	27	27	27	26	27
RH-I (%)	85	83	83	80	79
RH-II (%)	70	64	69	65	60
Wind Speed (kmph)	18	15	16	14	8
Wind Direction(deg.)	248	249	257	248	255
Total CC (octa)	7	8	8	7	7

**Agro meteorological Advisories:-**




General Advice	
	<ul style="list-style-type: none"><li>● <b>Rainfall:</b> Hot, Humid and generally cloudy to cloudy weather forecasted for next five days. Light rainfall during 12 to 18 and 20-September-2020 forecasted.</li><li>● <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 32-33°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 79-85% &amp; 60-70, respectively.</li><li>● <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be W and 8-18 km/h, respectively.</li><li>● <b>In the field where kharif crops wilted or damaged severely and need to resowing, then Ajwain, suwa, castor, sesame and chick pea for green pod are advise to sow.</b></li><li>● <b>Carry out interculturing and weeding in cotton and vegetable crops.</b></li><li>● <b>There is chance of light to moderate rain fall at isolate places during 16-20 September, so carry out threshing of black gram, sesame and bunch groundnut if harvested and postpone the harvesting of black gram, sesame and bunch groundnut.</b></li><li>● <b>Weather outlook for subsequent week: As per Extended range forecast Light</b></li></ul>

	<p><b>rain fall likely to occur during 20 to 26 September-2020.</b></p> <p><b>Sms:</b></p> <ul style="list-style-type: none"> <li>• There is chance of light to moderate rainfall at isolate places during 16-20 Sep, so carry out threshing of blackgram, bunch G'nut if harvested &amp; postpone the harvesting of blackgram and bunch G'nut.</li> </ul>		
Crops	Stage	Insect/Pest/ Variety	Advisory
<b>Kharif groundnut</b>	<p><b>Bunch groundnut :</b> Physiological maturity, <b>Semi spreading:</b> Pod formation &amp; development</p>	<p><b>Sclerotium rolfsii</b></p>  <p><b>Tikka &amp; Rust</b></p> 	<ul style="list-style-type: none"> <li>• Apply 2.5 kg/ha Trichoderma fungus with well decompose FYM OR castor cake @ 500 kg/ha as preventive measures against Sclerotiumrolfstii stem rot.</li> <li>• The present weather condition is congenial for infestation of Tikka &amp; rust diseases in groundnut crop so carry out spraying of Propiconazole 20 ml or Tebuconazole 15/10 litre of to prevent leaf spot&amp; rust infestation in groundnut under clear weather.</li> <li>• Postpone harvesting of groundnut as there is chance of very likely to occur light, moderate and heavy rain fall at isolate places during 16-20 September.</li> </ul>
<b>Cotton</b>	<p><b>Squaring &amp; flowering initiation</b></p>	<p><b>Jassids, thrips and White fly</b></p> <p><b>Alternaria and cercospora leaf spot</b></p>	<ul style="list-style-type: none"> <li>• Under present weather condition, infestation of Jassids, whitefly and thrips observe in cotton, for control the pest spray Flonicamid 50 % WG % 4gm/ 10 lit of water.</li> <li>• For the control of Alternaria and cercospora leaf spot spray Mencozeb @ 27 gm/10 litre of water.</li> <li>• For the monitoring of pink bollworm infestation in cotton crop farmers are advised to put pheromone traps 6-8/ha. If infestation found pick and burry the infested flowers/bolls in soil for control of pink bollworm infestation in cotton. Also make spray of profenofos 50 EC 20 ml in 10 liters of water.</li> <li>• Farmers are advised to spray 3 % KNO3 solution in at flowering, boll initiation and 50%</li> </ul>

			<p><b>boll formation to Bt. Cotton crop.</b></p> <ul style="list-style-type: none"> <li>• Foliar spraying of multi-micronutrient formulation Grade IV (Fe-Mn-Zn-CuB, 4.0-1.0-6.0-0.5-0.5 %) @ 1% at 60, 75 and 90 DAS in Bt. cotton crop is advised.</li> <li>• Detopping of cotton should be done in crop having 4.5-5 feet height.</li> <li>• Under present weather, farmers are advised to spray 30 ppm Naphthalene Acetic Acid solution (planofix 7.5 ml/10 liter of water).</li> </ul>
<b>Sesame</b>	Capsule development & physiological maturity	-	<ul style="list-style-type: none"> <li>• Harvest at maturity as weather become clear.</li> </ul>
<b>Pearl millet</b>	Physiological maturity	-	<ul style="list-style-type: none"> <li>• Harvest ripen ear head of pearl millet and store in well ventilated godown.</li> </ul>
<b>Black gram</b>	Physiological maturity	-	<ul style="list-style-type: none"> <li>• -</li> </ul>
<b>Pigeon pea</b>	Early establishment	-	<ul style="list-style-type: none"> <li>• Do inter culturing and weeding at Vapsa condition.</li> </ul>
<b>Kharif Onion</b>	Growing	-	<ul style="list-style-type: none"> <li>• For the control of purple blotch blight and fuserium wilt disease in kharif onion make 3 alternate spray of Mencozeb 25 gm and Carbendazim 10 gm in 10 litre of water at 10 days interval.</li> <li>• Drain out excess water from nursery/field bed to prevent wilting.</li> <li>• Treat “kanji” onion seed at sowing with carbendazim @ 2-3 gm/kg for prevention of soil and seed borne diseases.</li> </ul>
<b>Lady finger</b>	Flowering/fruiting	<p>Mites</p> <p>White flies/Jassids</p>	<ul style="list-style-type: none"> <li>• Constant monitoring of lady finger crop against attack of miteis advised. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water is advised.</li> <li>• For control of whitefly&amp;jassids in Okra, Spray 500 ml of 5 % neem seed extract or 50 ml neem oil or acephate75 % SP@ 15 gm or imidacloprid 17.8 SL 3 ml/10 litre of water.</li> <li>• After harvesting of mature okra, urea should be applied @ 15-20 kg/ha.</li> </ul>

<p><b>Ridge gourd, Bottle gourd, Sponge guard, Bittergourd, Cluster bean, Water melon</b></p>	<p>Flowering &amp; fruiting</p>	<p>White flies/  Mites  Fruit fly  Downy mildew </p>	<ul style="list-style-type: none"> <li>• <b>In all vegetable crops, whitefly infestation observed above ETL, for control of whitefly, spray 500 ml of 5 % neem seed extract or 50 ml neem oil or acetamiprid 20 % SP@ 5.0 g or imidacloprid 17.8 SL 3 ml/10 litre of water.</b></li> <li>• <b>If population of mite is observed, then to control it, do spraying of Ethion 50 EC 15 ml in 10 litre of water.</b></li> <li>• <b>For the control of fruit fly make spray solution of 50 gm jaggery and 30 ml Malathion in 10 litre of water with large droplets.</b></li> <li>• <b>For the control of downy mildew, spray Mancozeb 75 WP 35 g mix in 10 litre of water.</b></li> </ul>
<p><b>Brinjal</b></p>	<p>Flowering/ fruiting</p>	<p><b>Sucking pest</b> →  Shoot &amp; Fruit borer  Mites</p>	<ul style="list-style-type: none"> <li>• <b>For minimize population of whitefly, Spray 500 ml of 5 % neem seed extract or neem oil 50 ml or Difenthiuron 50 WP @ 16 gm / 10 lit of water.</b></li> <li>• <b>In brinjal and tomato crops, monitoring of borers by using pheromone traps 4-6 per acre is advised. For control of shoot and fruit borer in brinjal and tomato crops, infested fruits and shoots should be collected and buried into the soil. If insect population is above ETL then spraying of chlorantraniliprole 18.5 % SC 3.0 ml or DDVP 7 ml/10 litre of water is advised.</b></li> <li>• <b>If infestation of mite is observed in brinjal, then spraying of Ethion 50 EC 15 ml or Propargite 57 % EC @ 10 ml/ 10 litre of water.</b></li> </ul>
<p><b>Chili</b></p>	<p>Flowering/ fruiting</p>	<p>  <b>Thrips</b> → </p>	<ul style="list-style-type: none"> <li>• <b>Under present weather condition in transplanted hybrid chili to push up growth drain out excess water, apply ammonium sulphate and murate of potash fertilizers each @ 25 kg/ha, apply light flood irrigation for early vapsa condition, for prevention of fungal diseases spray Mencozeb @ 27 gm/10 litre of water and make spraying of mix micronutrients 100 gm/10 lit. of water.</b></li> <li>• <b>For the control of thrips in chili make spray of profenofos 20 ml with 500 ml of 5 % neem seed extract or neem seed oil 50 ml in 10 litres of water. In case of heavy attack, spray of spinosad or spinetoram 3 ml per 10 liter of</b></li> </ul>



		<p>Leaf curling Virus→</p>  <p>Mites</p>	<p><b>water.</b></p> <ul style="list-style-type: none"> <li>• Under present weather conditions, rouging of viral infested plants should be done in chili. 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.</li> <li>• <b>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></li> </ul>
<b>Lemon</b>	Fruit development	<p><b>Psylla and thrips</b></p>  <p><b>Citrus canker</b></p> <p><b>Leaf minor</b></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 streptocyclin 1.5 gm in 10 litre of water</p> <p>Spray Dichlorvos 10 ml or Quinalphos 20 ml in 10 litres of water for control of leafminor.</p>
<b>Livestock &amp; poultry</b>	 <p>Spray Deltamethrin or Amitraz 2 ml/litre of water for the control of tick. Deworming, Protozoan disease evaluation and its treatments should be done. Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. For milch animals, regularly follow schedule of 1 kg feed + 50 g mineral mixture per 2 liters of milk yield. Feed animals with a mixture of green grass + hay + minerals + dry feed. Ensure regarding vaccination of animals for different diseases in rainy season. Spray phenyl in the animal shed to avoid fly's and mosquitoes. Keep fodder in safe place to avoid spoilage due to rainfall.</p>		

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



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**Agro met Advisory Service bulletin No.-49 for the Surendranagar district**

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

(Period 16 to 20-September- 2020)

**Weather forecast until 08-30 hrs of. 20/09/2020**



**(4) SURENDRANAGAR DISTRICT:**

	16/09/20	17/09/20	18/09/20	19/09/20	20/09/20
Rainfall (mm)	2	5	10	12	12
Max.Temp.(°C)	34	34	34	33	34
Min.Temp.(°C)	26	26	26	26	26
RH-I (%)	84	83	84	82	81
RH-II (%)	56	60	56	58	55
Wind Speed (kmph)	15	15	14	12	9
Wind Direction(deg.)	249	270	285	279	225
Total CC (octa)	7	8	8	8	8



**Agro meteorological advisories:**





**General Advice**

- **Rainfall:** Hot, Humid and generally cloudy to cloudy weather forecasted for next five days. Light to moderate rainfall during 16 to 20-September-2020 forecasted.
- **Temperature:** Maximum and minimum temperature likely to be in range of 33-34°C and 26-26°C, respectively.
- **Relative Humidity:** The RH-I and RH-II is likely to be in the range of 81-84% & 55-60, respectively.
- **Wind Direction and Speed:** Direction and speed of wind is likely to be W, SW and 9-15 km/h, respectively.
- **In the field where kharif crops wilted or damaged severely and need to resowing, then Ajwain, suwa, castor, sesame and chick pea for green pod are advise to sow.**
- **Carry out interculturing and weeding in cotton and vegetable crops.**
- **There is chance of light to moderate rain fall at isolate places during 16-20 September, so carry out threshing of black gram, sesame and bunch groundnut if harvested and postpone the harvesting of black gram, sesame and bunch groundnut.**
- **Weather outlook for subsequent week: As per Extended range forecast Light**

	<p>rain fall likely to occur during 20 to 26 September-2020.</p> <p>• Sms:</p> <ul style="list-style-type: none"> <li>• There is chance of light to moderate rainfall at isolate places during 16-20 Sep, so carry out threshing of blackgram, bunch G'nut if harvested &amp; postpone the harvesting of blackgram and bunch G'nut.</li> </ul>		
Crops	Stage	Insect/Pest/ Variety	Advisory
<b>Kharif groundnut</b>	<p><b>Bunch groundnut :</b> Physiological maturity, <b>Semi spreading:</b> Pod formation &amp; development</p>	<p><b>Sclerotium rolfsii</b></p>  <p><b>Tikka &amp; Rust</b></p> 	<ul style="list-style-type: none"> <li>• Apply 2.5 kg/ha Trichoderma fungus with well decompose FYM OR castor cake @ 500 kg/ha as preventive measures against Sclerotiumrolfstii stem rot.</li> <li>• The present weather condition is congenial for infestation of Tikka &amp; rust diseases in groundnut crop so carry out spraying of Propiconazole 20 ml or Tebuconazole 15/10 litre of to prevent leaf spot&amp; rust infestation in groundnut under clear weather.</li> <li>• Postpone harvesting of groundnut as there is chance of very likely to occur light, moderate and heavy rain fall at isolate places during 16-20 September.</li> </ul>
<b>Cotton</b>	Squaring & flowering initiation	<p>Jassids, thrips and White fly</p> <p>Alternaria and cercospora leaf spot</p>	<ul style="list-style-type: none"> <li>• Under present weather condition, infestation of Jassids, whitefly and thrips observe in cotton, for control the pest spray Flonicamid 50 % WG % 4gm/ 10 lit of water.</li> <li>• For the control of Alternaria and cercospora leaf spot spray Mencozeb @ 27 gm/10 litre of water.</li> <li>• For the monitoring of pink bollworm infestation in cotton crop farmers are advised to put pheromone traps 6-8/ha. If infestation found pick and burry the infested flowers/bolls in soil for control of pink bollworm infestation in cotton. Also make spray of profenofos 50 EC 20 ml in 10 liters of water.</li> <li>• Farmers are advised to spray 3 % KNO3</li> </ul>

			<p><b>solution in at flowering, boll initiation and 50% boll formation to Bt. Cotton crop.</b></p> <ul style="list-style-type: none"> <li>• Foliar spraying of multi-micronutrient formulation Grade IV (Fe-Mn-Zn-CuB, 4.0-1.0-6.0-0.5-0.5 %) @ 1% at 60, 75 and 90 DAS in Bt. cotton crop is advised.</li> <li>• Detopping of cotton should be done in crop having 4.5-5 feet height.</li> <li>• Under present weather, farmers are advised to spray 30 ppm Naphthalene Acetic Acid solution (planofix 7.5 ml/10 liter of water).</li> </ul>
<b>Sesame</b>	Capsule development & physiological maturity	-	<ul style="list-style-type: none"> <li>• Harvest at maturity as weather become clear.</li> </ul>
<b>Pearl millet</b>	Physiological maturity	-	<ul style="list-style-type: none"> <li>• Harvest ripen ear head of pearl millet and store in well ventilated godown.</li> </ul>
<b>Black gram</b>	Physiological maturity	-	<ul style="list-style-type: none"> <li>• -</li> </ul>
<b>Pigeon pea</b>	Early establishment	-	<ul style="list-style-type: none"> <li>• Do inter culturing and weeding at Vapsa condition.</li> </ul>
<b>Kharif Onion</b>	Growing	-	<ul style="list-style-type: none"> <li>• For the control of purple blotch blight and fuserium wilt disease in kharif onion make 3 alternate spray of Mencozeb 25 gm and Carbendazim 10 gm in 10 litre of water at 10 days interval.</li> <li>• Drain out excess water from nursery/field bed to prevent wilting.</li> <li>• Treat “kanji” onion seed at sowing with carbendazim @ 2-3 gm/kg for prevention of soil and seed borne diseases.</li> </ul>
<b>Lady finger</b>	Flowering/fruiting	<p>Mites</p> <p>White flies/Jassids</p>	<ul style="list-style-type: none"> <li>• Constant monitoring of lady finger crop against attack of miteis advised. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water is advised.</li> <li>• For control of whitefly&amp;jassids in Okra, Spray 500 ml of 5 % neem seed extract or 50 ml neem oil or acephate75 % SP@ 15 gm or imidacloprid 17.8 SL 3 ml/10 litre of water.</li> <li>• After harvesting of mature okra, urea should</li> </ul>

			be applied @ 15-20 kg/ha.
<b>Ridge gourd, Bottle gourd, Sponge guard, Bittergourd, Cluster bean, Water melon</b>	Flowering & fruiting	White flies/  Mites  Fruit fly  Downy mildew 	<ul style="list-style-type: none"> <li>• In all vegetable crops, whitefly infestation observed above ETL, for control of whitefly, spray 500 ml of 5 % neem seed extract or 50 ml neem oil or acetamiprid 20 % SP@ 5.0 g or imidacloprid 17.8 SL 3 ml/10 litre of water.</li> <li>• If population of mite is observed, then to control it, do spraying of Ethion 50 EC 15 ml in 10 litre of water.</li> <li>• For the control of fruit fly make spray solution of 50 gm jaggery and 30 ml Malathion in 10 litre of water with large droplets.</li> <li>• For the control of downy mildew, spray Mancozeb 75 WP 35 g mix in 10 litre of water.</li> </ul>
<b>Brinjal</b>	Flowering/ fruiting	<b>Sucking pest</b> →  Shoot & Fruit borer  Mites	<ul style="list-style-type: none"> <li>• For minimize population of whitefly, Spray 500 ml of 5 % neem seed extract or neem oil 50 ml or Difenthiuron 50 WP @ 16 gm / 10 lit of water.</li> <li>• In brinjal and tomato crops, monitoring of borers by using pheromone traps 4-6 per acre is advised. For control of shoot and fruit borer in brinjal and tomato crops, infested fruits and shoots should be collected and buried into the soil. If insect population is above ETL then spraying of chlorantraniliprole 18.5 % SC 3.0 ml or DDVP 7 ml/10 litre of water is advised.</li> <li>• If infestation of mite is observed in brinjal, then spraying of Ethion 50 EC 15 ml or Propargite 57 % EC @ 10 ml/ 10 litre of water.</li> </ul>
<b>Chili</b>	Flowering/ fruiting		<ul style="list-style-type: none"> <li>• Under present weather condition in transplanted hybrid chili to push up growth drain out excess water, apply ammonium sulphate and murate of potash fertilizers each @ 25 kg/ha, apply light flood irrigation for early vapsa condition, for prevention of fungal diseases spray Mencozeb @ 27 gm/10 litre of water and make spraying of mix micronutrients 100 gm/10 lit. of water.</li> <li>• For the control of thrips in chili make spray of</li> </ul>

		<p><b>Thrips</b> →</p>  <p>Leaf curling Virus →</p>  <p>Mites</p>	<p>of profenofos 20 ml with 500 ml of 5 % neem seed extract or neem seed oil 50 ml in 10 litres of water. In case of heavy attack, spray of <b>spinosad or spinetoram 3 ml per 10 liter of water.</b></p> <ul style="list-style-type: none"> <li>• <b>Under present weather conditions, rouging of viral infested plants should be done in chili. 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.</b></li> <li>• <b>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></li> </ul>
<b>Lemon</b>	Fruit development	<p><b>Psylla and thrips</b></p>  <p><b>Citrus canker</b></p> <p><b>Leaf minor</b></p>	<p>To prevent damage of psylla&amp;thrips spray <b>imidacloprid 30.5 % 5 ml / 10 lit of water ml/10 lit of water.</b></p> <p>Spray copper oxychloride 40 gm or streptocyclin 1.5 gm in 10 litre of water</p> <p>Spray Dichlorvos 10 ml or Quinalphos 20 ml in 10 litres of water for control of leafminor.</p>
<b>Livestock &amp; poultry</b> 	<p>Spray Deltamethrin or Amitraz 2 ml/litre of water for the control of tick. Deworming, Protozoan disease evaluation and its treatments should be done. Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. For milch animals, regularly follow schedule of 1 kg feed + 50 g mineral mixture per 2 liters of milk yield. Feed animals with a mixture of green grass + hay + minerals + dry feed. Ensure regarding vaccination of animals for different diseases in rainy season. Spray phenyl in the animal shed to avoid fly's and mosquitoes.</p> <p>Keep fodder in safe place to avoid spoilage due to rainfall.</p>		

**TechnicalOfficer, GKMS Unit, DFRS, JAU, Targhadia.**



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**Agro met Advisory Service bulletin No.-49 for the Amreli district**

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

(Period 16 to 20-September- 2020)



**Weather forecast until 08-30 hrs of. 20/09/2020**

**(5) AMRELI DISTRICT:**

	16/09/20	17/09/20	18/09/20	19/09/20	20/09/20
Rainfall (mm)	9	12	13	17	15
Max.Temp.(°C)	33	33	32	33	32
Min.Temp.(°C)	24	25	24	24	24
RH-I (%)	91	91	93	92	89
RH-II (%)	66	68	69	68	70
Wind Speed (kmph)	12	12	11	10	7
Wind Direction(deg.)	249	283	288	288	290
Total CC (octa)	7	8	8	8	8



**Agro meteorological advisories:**





<b>General Advice</b>	<ul style="list-style-type: none"><li>• <b>Rainfall:</b> Hot, Humid and generally cloudy to cloudy weather forecasted for next five days. Light to moderate rainfall during 16 to 20-September-2020 forecasted.</li><li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 32-33°C and 24-25°C, respectively.</li><li>• <b>Relative Humidity:</b> The RH-I and RH-II is likely to be in the range of 89-93% &amp; 66-70, respectively.</li><li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be W and 7-12 km/h, respectively.</li><li>• <b>In the field where kharif crops wilted or damaged severely and need to resowing, then Ajwain, suwa, castor, sesame and chick pea for green pod are advise to sow.</b></li><li>• <b>Carry out interculturing and weeding in cotton and vegetable crops.</b></li><li>• <b>There is chance of light to moderate rain fall at isolate places during 16-20 September, so carry out threshing of black gram, sesame and bunch groundnut if harvested and postpone the harvesting of black gram, sesame and bunch groundnut.</b></li><li>• <b>Weather outlook for subsequent week: As per Extended range forecast Light</b></li></ul>
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	<p>rain fall likely to occur during 20 to 26 September-2020.</p> <p>• Sms:</p> <ul style="list-style-type: none"> <li>• There is chance of light to moderate rainfall at isolate places during 16-20 Sep, so carry out threshing of blackgram, bunch G'nut if harvested &amp; postpone the harvesting of blackgram and bunch G'nut.</li> </ul>		
Crops	Stage	Insect/Pest/ Variety	Advisory
<b>Kharif groundnut</b>	<p><b>Bunch groundnut :</b> Physiological maturity, <b>Semi spreading:</b> Pod formation &amp; development</p>	<p><b>Sclerotium rolfsii</b></p>  <p><b>Tikka &amp; Rust</b></p> 	<ul style="list-style-type: none"> <li>• Apply 2.5 kg/ha Trichoderma fungus with well decompose FYM OR castor cake @ 500 kg/ha as preventive measures against Sclerotiumrolfstii stem rot.</li> <li>• The present weather condition is congenial for infestation of Tikka &amp; rust diseases in groundnut crop so carry out spraying of Propiconazole 20 ml or Tebuconazole 15/10 litre of to prevent leaf spot&amp; rust infestation in groundnut under clear weather.</li> <li>• Postpone harvesting of groundnut as there is chance of very likely to occur light, moderate and heavy rain fall at isolate places during 16-20 September.</li> </ul>
<b>Cotton</b>	Squaring & flowering initiation	<p>Jassids, thrips and White fly</p> <p>Alternaria and cercospora leaf spot</p>	<ul style="list-style-type: none"> <li>• Under present weather condition, infestation of Jassids, whitefly and thrips observe in cotton, for control the pest spray Flonicamid 50 % WG % 4gm/ 10 lit of water.</li> <li>• For the control of Alternaria and cercospora leaf spot spray Mencozeb @ 27 gm/10 litre of water.</li> <li>• For the monitoring of pink bollworm infestation in cotton crop farmers are advised to put pheromone traps 6-8/ha. If infestation found pick and burry the infested flowers/bolls in soil for control of pink bollworm infestation in cotton. Also make spray of profenofos 50 EC 20 ml in 10 liters of water.</li> <li>• Farmers are advised to spray 3 % KNO3</li> </ul>



			<p><b>solution in at flowering, boll initiation and 50% boll formation to Bt. Cotton crop.</b></p> <ul style="list-style-type: none"> <li>• Foliar spraying of multi-micronutrient formulation Grade IV (Fe-Mn-Zn-CuB, 4.0-1.0-6.0-0.5-0.5 %) @ 1% at 60, 75 and 90 DAS in Bt. cotton crop is advised.</li> <li>• Detopping of cotton should be done in crop having 4.5-5 feet height.</li> <li>• Under present weather, farmers are advised to spray 30 ppm Naphthalene Acetic Acid solution (planofix 7.5 ml/10 liter of water).</li> </ul>
<b>Sesame</b>	Capsule development & physiological maturity	-	<ul style="list-style-type: none"> <li>• Harvest at maturity as weather become clear.</li> </ul>
<b>Pearl millet</b>	Physiological maturity	-	<ul style="list-style-type: none"> <li>• Harvest ripen ear head of pearl millet and store in well ventilated godown.</li> </ul>
<b>Black gram</b>	Physiological maturity	-	<ul style="list-style-type: none"> <li>• -</li> </ul>
<b>Pigeon pea</b>	Early establishment	-	<ul style="list-style-type: none"> <li>• Do inter culturing and weeding at Vapsa condition.</li> </ul>
<b>Kharif Onion</b>	Growing	-	<ul style="list-style-type: none"> <li>• For the control of purple blotch blight and fuserium wilt disease in kharif onion make 3 alternate spray of Mencozeb 25 gm and Carbendazim 10 gm in 10 litre of water at 10 days interval.</li> <li>• Drain out excess water from nursery/field bed to prevent wilting.</li> <li>• Treat “kanji” onion seed at sowing with carbendazim @ 2-3 gm/kg for prevention of soil and seed borne diseases.</li> </ul>
<b>Lady finger</b>	Flowering/fruiting	<p>Mites</p> <p>White flies/Jassids</p>	<ul style="list-style-type: none"> <li>• Constant monitoring of lady finger crop against attack of miteis advised. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water is advised.</li> <li>• For control of whitefly&amp;jassids in Okra, Spray 500 ml of 5 % neem seed extract or 50 ml neem oil or acephate75 % SP@ 15 gm or imidacloprid 17.8 SL 3 ml/10 litre of water.</li> <li>• After harvesting of mature okra, urea should</li> </ul>

			be applied @ 15-20 kg/ha.
<b>Ridge gourd, Bottle gourd, Sponge guard, Bittergourd, Cluster bean, Water melon</b>	Flowering & fruiting	White flies/  Mites  Fruit fly  Downy mildew 	<ul style="list-style-type: none"> <li>• In all vegetable crops, whitefly infestation observed above ETL, for control of whitefly, spray 500 ml of 5 % neem seed extract or 50 ml neem oil or acetamiprid 20 % SP@ 5.0 g or imidacloprid 17.8 SL 3 ml/10 litre of water.</li> <li>• If population of mite is observed, then to control it, do spraying of Ethion 50 EC 15 ml in 10 litre of water.</li> <li>• For the control of fruit fly make spray solution of 50 gm jaggery and 30 ml Malathion in 10 litre of water with large droplets.</li> <li>• For the control of downy mildew, spray Mancozeb 75 WP 35 g mix in 10 litre of water.</li> </ul>
<b>Brinjal</b>	Flowering/ fruiting	<b>Sucking pest</b> →  Shoot & Fruit borer  Mites	<ul style="list-style-type: none"> <li>• For minimize population of whitefly, Spray 500 ml of 5 % neem seed extract or neem oil 50 ml or Difenthiuron 50 WP @ 16 gm / 10 lit of water.</li> <li>• In brinjal and tomato crops, monitoring of borers by using pheromone traps 4-6 per acre is advised. For control of shoot and fruit borer in brinjal and tomato crops, infested fruits and shoots should be collected and buried into the soil. If insect population is above ETL then spraying of chlorantraniliprole 18.5 % SC 3.0 ml or DDVP 7 ml/10 litre of water is advised.</li> <li>• If infestation of mite is observed in brinjal, then spraying of Ethion 50 EC 15 ml or Propargite 57 % EC @ 10 ml/ 10 litre of water.</li> </ul>
<b>Chili</b>	Flowering/ fruiting		<ul style="list-style-type: none"> <li>• Under present weather condition in transplanted hybrid chili to push up growth drain out excess water, apply ammonium sulphate and murate of potash fertilizers each @ 25 kg/ha, apply light flood irrigation for early vapsa condition, for prevention of fungal diseases spray Mencozeb @ 27 gm/10 litre of water and make spraying of mix micronutrients 100 gm/10 lit. of water.</li> <li>• For the control of thrips in chili make spray of</li> </ul>

		<p><b>Thrips</b> →</p>  <p>Leaf curling Virus →</p>  <p>Mites</p>	<p>of profenofos 20 ml with 500 ml of 5 % neem seed extract or neem seed oil 50 ml in 10 litres of water. In case of heavy attack, spray of <b>spinosad or spinetoram 3 ml per 10 liter of water.</b></p> <ul style="list-style-type: none"> <li>• <b>Under present weather conditions, rouging of viral infested plants should be done in chili. 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.</b></li> <li>• <b>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></li> </ul>
<b>Lemon</b>	Fruit development	<p><b>Psylla and thrips</b></p>  <p><b>Citrus canker</b></p> <p><b>Leaf minor</b></p>	<p>To prevent damage of psylla&amp;thrips spray <b>imidacloprid 30.5 % 5 ml / 10 lit of water ml/10 lit of water.</b></p> <p>Spray copper oxychloride 40 gm or streptocyclin 1.5 gm in 10 litre of water</p> <p>Spray Dichlorvos 10 ml or Quinalphos 20 ml in 10 litres of water for control of leafminor.</p>
<b>Livestock &amp; poultry</b> 	<p>Spray Deltamethrin or Amitraz 2 ml/litre of water for the control of tick. Deworming, Protozoan disease evaluation and its treatments should be done. Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. For milch animals, regularly follow schedule of 1 kg feed + 50 g mineral mixture per 2 liters of milk yield. Feed animals with a mixture of green grass + hay + minerals + dry feed. Ensure regarding vaccination of animals for different diseases in rainy season. Spray phenyl in the animal shed to avoid fly's and mosquitoes.</p> <p>Keep fodder in safe place to avoid spoilage due to rainfall.</p>		

**TechnicalOfficer, GKMS Unit, DFRS, JAU, Targhadia.**



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**Agro met Advisory Service bulletin No.-49 for the Jamnagar district**

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

(Period 16 to 20-September- 2020)



**Weather forecast until 08-30 hrs of. 20/09/2020**

**(6) JAMNAGAR DISTRICT:**



	16/09/20	17/09/20	18/09/20	19/09/20	20/09/20
Rainfall (mm)	8	7	12	5	15
Max.Temp.(°C)	32	32	32	32	33
Min.Temp.(°C)	26	26	26	26	27
RH-I (%)	89	87	88	85	85
RH-II (%)	65	66	68	67	64
Wind Speed (kmph)	16	15	15	13	8
Wind Direction(deg.)	248	248	252	249	255
Total CC (octa)	7	8	8	8	8





**Agro meteorological advisories:**

<b>General Advice</b>	<ul style="list-style-type: none"><li>• <b>Rainfall:</b> Hot, Humid and generally cloudy to cloudy weather forecasted for next five days. Light to moderate rainfall during 16 to 20-September-2020 forecasted.</li><li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 32-33°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 85-89% &amp; 64-68, respectively.</li><li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be W and 8-16 km/h, respectively.</li><li>• <b>In the field where kharif crops wilted or damaged severely and need to resowing, then Ajwain, suwa, castor, sesame and chick pea for green pod are advise to sow.</b></li><li>• <b>Carry out interculturing and weeding in cotton and vegetable crops.</b></li><li>• <b>There is chance of light to moderate rain fall at isolate places during 16-20 September, so carry out threshing of black gram, sesame and bunch groundnut if harvested and postpone the harvesting of black gram, sesame and bunch groundnut.</b></li></ul>
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	<ul style="list-style-type: none"> <li>• <b>Weather outlook for subsequent week:</b> As per Extended range forecast <b>Light rain fall likely to occur during 20 to 26 September-2020.</b></li> <li>• <b>Sms:</b></li> <li>• <b>There is chance of light to moderate rainfall at isolate places during 16-20 Sep, so carry out threshing of blackgram, bunch G'nut if harvested &amp; postpone the harvesting of blackgram and bunch G'nut.</b></li> </ul>		
Crops	Stage	Insect/Pest/ Variety	Advisory
<b>Kharif groundnut</b>	<b>Bunch groundnut :</b> Physiological maturity, <b>Semi spreading:</b> Pod formation & development	<b>Sclerotium rolfsii</b>   <b>Tikka &amp; Rust</b> 	<ul style="list-style-type: none"> <li>• <b>Apply 2.5 kg/ha Trichoderma fungus with well decompose FYM OR castor cake @ 500 kg/ha as preventive measures against Sclerotiumrolfstii stem rot.</b></li> <li>• <b>The present weather condition is congenial for infestation of Tikka &amp; rust diseases in groundnut crop so carry out spraying of Propiconazole 20 ml or Tebuconazole 15/10 litre of to prevent leaf spot&amp; rust infestation in groundnut under clear weather.</b></li> <li>• <b>Postpone harvesting of groundnut as there is chance of very likely to occur light, moderate and heavy rain fall at isolate places during 16-20 September.</b></li> </ul>
<b>Cotton</b>	<b>Squaring &amp; flowering initiation</b>	<b>Jassids, thrips and White fly</b>  <b>Alternaria and cercospora leaf spot</b>	<ul style="list-style-type: none"> <li>• <b>Under present weather condition, infestation of Jassids, whitefly and thrips observe in cotton, for control the pest spray Flonicamid 50 % WG % 4gm/ 10 lit of water.</b></li> <li>• <b>For the control of Alternaria and cercospora leaf spot spray Mencozeb @ 27 gm/10 litre of water.</b></li> <li>• <b>For the monitoring of pink bollworm infestation in cotton crop farmers are advised to put pheromone traps 6-8/ha. If infestation found pick and burry the infested flowers/bolls in soil for control of pink bollworm infestation in cotton. Also make spray of profenofos 50 EC 20 ml in 10 liters of water.</b></li> </ul>

			<ul style="list-style-type: none"> <li>• Farmers are advised to spray 3 % KNO<sub>3</sub> solution in at flowering, boll initiation and 50% boll formation to Bt. Cotton crop.</li> <li>• Foliar spraying of multi-micronutrient formulation Grade IV (Fe-Mn-Zn-CuB, 4.0-1.0-6.0-0.5-0.5 %) @ 1% at 60, 75 and 90 DAS in Bt. cotton crop is advised.</li> <li>• Detopping of cotton should be done in crop having 4.5-5 feet height.</li> <li>• Under present weather, farmers are advised to spray 30 ppm Naphthalene Acetic Acid solution ( planofix 7.5 ml/10 liter of water).</li> </ul>
Sesame	Capsule development & physiological maturity	-	<ul style="list-style-type: none"> <li>• Harvest at maturity as weather become clear.</li> </ul>
Pearl millet	Physiological maturity	-	<ul style="list-style-type: none"> <li>• Harvest ripen ear head of pearl millet and store in well ventilated godown.</li> </ul>
Black gram	Physiological maturity	-	<ul style="list-style-type: none"> <li>• -</li> </ul>
Pigeon pea	Early establishment	-	<ul style="list-style-type: none"> <li>• Do inter culturing and weeding at Vapsa condition.</li> </ul>
<b>Kharif Onion</b>	Growing	-	<ul style="list-style-type: none"> <li>• For the control of purple blotch blight and fuserium wilt disease in kharif onion make 3 alternate spray of Mencozeb 25 gm and Carbendazim 10 gm in 10 litre of water at 10 days interval.</li> <li>• Drain out excess water from nursery/field bed to prevent wilting.</li> <li>• Treat “kanji” onion seed at sowing with carbendazim @ 2-3 gm/kg for prevention of soil and seed borne diseases.</li> </ul>
Lady finger	Flowering/fruiting	<p>Mites</p> <p>White flies/Jassids</p>	<ul style="list-style-type: none"> <li>• Constant monitoring of lady finger crop against attack of miteis advised. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water is advised.</li> <li>• For control of whitefly&amp;jassids in Okra, Spray 500 ml of 5 % neem seed extract or 50 ml neem oil or acephate75 % SP@ 15 gm or imidacloprid 17.8 SL 3 ml/10 litre of water.</li> </ul>

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		<p><b>Thrips</b> →</p>  <p>Leaf curling Virus →</p>  <p>Mites</p>	<p>of profenofos 20 ml with 500 ml of 5 % neem seed extract or neem seed oil 50 ml in 10 litres of water. In case of heavy attack, spray of <b>spinosad or spinetoram 3 ml per 10 liter of water.</b></p> <ul style="list-style-type: none"> <li>• <b>Under present weather conditions, rouging of viral infested plants should be done in chili. 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.</b></li> <li>• <b>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></li> </ul>
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