



ग्रामीण कृषि मौसम सेवा  
हवामान आगाही आधारित कृषिसलाह बुलेटीन  
उत्तर सौराष्ट्रभेत् आबोहवाकीय विभाग  
ता.०१-०२-२०२० थी ता.०५-०२-२०२०



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

कृषि हवामान बुलेटीन नं. ८८/२०२०

पाछला अठवाडीयानुं राजकोटनुं हवामान

हवामान परिबणो	
वरसाए(मी.मी)	0.0
महतम तापमान (से.ग्रे)	23.8-29.5
लघुतम तापमान (से.ग्रे)	6.4-15.1
लेज(%) सवार	61-86
लेज(%) बपोरबाए	30-41
पवननी गति (किमी/कलाक)	2.6-7.3

हवामान आगाही: पत्रक-६

उत्तरसौराष्ट्र भेत् आबोहवाकीय विभाग-हवामान आगाही

ता.०१-०२-२०२० थी ०५-०२-२०२०

कृषि सलाह:

સામાન્ય

➤ ભારત સરકારશ્રીના હવામાન ખાતા તરફથી મળેલ હવામાન માહિતી અનુસાર અત્રેના ગ્રામીણકૃષિ મૌસમ સેવા વિભાગ,જુનાગઢ કૃષિ યુનિવર્સિટી, તરઘડીયા તરફથી જણાવવામાં આવે છે કે, ઉત્તર સૌરાષ્ટ્ર ખેત આબોહવાકીય વિસ્તારના

**રાજકોટ:** જીલ્લામાં આગામી તા.૦૧-૦૨-૨૦૨૦ થી તા.૦૫-૦૨-૨૦૨૦ દરમ્યાન હવામાન સૂકું, ઠંડુ અને યોખ્ખું રહેશે. પવનની દિશા ઈશાન અને પશ્ચિમની રહેવાની અને પવનની ઝડપ ૧૪ થી ૧૭ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૨૮-૨૯ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન ૧૨-૧૩ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૦૧-૦૨-૨૦	૦૨-૦૨-૨૦	૦૩-૦૨-૨૦	૦૪-૦૨-૨૦	૦૫-૦૨-૨૦
વરસાદ(મી.મી)	૦	૦	૦	૦	૦
મહત્તમતાપમાન (સે.ગ્રે)	૨૮	૨૮	૨૮	૨૯	૨૮
લઘુત્તમતાપમાન (સે.ગ્રે)	૧૨	૧૨	૧૩	૧૩	૧૩
વાદળનીસ્થિતિ(ઓકટા)	૦	૦	૦	૦	૨
મહત્તમભેજ(%) સવાર	૪૪	૩૬	૩૮	૪૧	૩૯
લઘુત્તમભેજ (%) બપોરબાદ	૨૦	૧૪	૨૧	૨૫	૧૫
પવનનીગતિ(કિમી/કલાક)	૧૫	૧૭	૧૭	૧૪	૧૬
પવનનીદિશા(ડીગ્રી)	૨૮	૪૭	૩૦	૨૫૨	૨૬

**મોરબી :** જીલ્લામાં આગામી તા.૦૧-૦૨-૨૦૨૦ થી તા.૦૫-૦૨-૨૦૨૦ દરમ્યાન હવામાન સૂકું, ઠંડુ અને યોખ્ખું રહેશે. પવનની દિશા ઈશાનની રહેવાની અને પવનની ઝડપ ૯ થી ૧૭ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૨૮-૨૯ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન ૧૨-૧૩ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૦૧-૦૨-૨૦	૦૨-૦૨-૨૦	૦૩-૦૨-૨૦	૦૪-૦૨-૨૦	૦૫-૦૨-૨૦
વરસાદ(મી.મી)	૦	૦	૦	૦	૦
મહત્તમતાપમાન (સે.ગ્રે)	૨૮	૨૮	૨૮	૨૯	૨૮
લઘુત્તમતાપમાન (સે.ગ્રે)	૧૨	૧૨	૧૩	૧૩	૧૩
વાદળનીસ્થિતિ(ઓકટા)	૦	૦	૦	૦	૧
મહત્તમભેજ(%) સવાર	૪૦	૩૯	૪૩	૫૮	૫૫
લઘુત્તમભેજ (%) બપોરબાદ	૧૯	૧૭	૨૪	૩૦	૨૨
પવનનીગતિ(કિમી/કલાક)	૧૫	૧૭	૧૬	૯	૧૧
પવનનીદિશા(ડીગ્રી)	૩૨	૫૮	૫૨	૩૮	૩૯

**જામનગર:** જીલ્લામાં આગામી તા.૦૧-૦૨-૨૦૨૦ થી તા.૦૫-૦૨-૨૦૨૦ દરમ્યાન હવામાન સૂકું, ઠંડુ અને યોખ્ખું રહેશે. પવનની દિશા ઈશાન અને વાયવ્યની રહેવાની અને પવનની ઝડપ ૧૮ થી ૨૪ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૨૯-૩૧ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન ૧૫-૧૬ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની

સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૦૧-૦૨-૨૦	૦૨-૦૨-૨૦	૦૩-૦૨-૨૦	૦૪-૦૨-૨૦	૦૫-૦૨-૨૦
વરસાદ(મી.મી)	૦	૦	૦	૦	૦
મહત્તમતાપમાન (સે.ગ્રે)	૨૯	૨૯	૨૯	૩૦	૩૧
લઘુત્તમતાપમાન (સે.ગ્રે)	૧૫	૧૬	૧૬	૧૬	૧૬
વાદળનીસ્થિતિ(ઓકટા)	૦	૦	૦	૧	૨
મહત્તમભેજ(%) સવાર	૪૭	૪૫	૪૫	૪૬	૪૯
લઘુત્તમભેજ (%) બપોરબાદ	૨૯	૨૫	૨૯	૩૧	૨૬
પવનનીગતિ(કિમી/કલાક)	૧૯	૨૪	૨૪	૨૦	૧૮
પવનનીદિશા(ડીગ્રી)	૪૬	૪૧	૩૫	૩૨૨	૪૩

**દેવભૂમિ દ્વારકા:** જીલ્લામાં આગામી તા.૦૧-૦૨-૨૦૧૯ થી તા.૦૫-૦૨-૨૦૨૦ દરમિયાન હવામાન સુકું, ઠંડુ અને ચોખ્ખું રહેશે. પવનની દિશા ઉતર અને ઈશાનની રહેવાની અને પવનની ઝડપ ૧૭ થી ૨૪ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમિયાન ૨૭-૨૯ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમિયાન ૧૭-૧૮ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૦૧-૦૨-૨૦	૦૨-૦૨-૨૦	૦૩-૦૨-૨૦	૦૪-૦૨-૨૦	૦૫-૦૨-૨૦
વરસાદ(મી.મી)	૦	૦	૦	૦	૦
મહત્તમતાપમાન (સે.ગ્રે)	૨૭	૨૭	૨૭	૨૮	૨૯
લઘુત્તમતાપમાન (સે.ગ્રે)	૧૭	૧૮	૧૮	૧૮	૧૮
વાદળનીસ્થિતિ(ઓકટા)	૦	૦	૦	૧	૨
મહત્તમભેજ(%) સવાર	૪૮	૪૬	૪૮	૪૭	૫૩
લઘુત્તમભેજ (%) બપોરબાદ	૩૧	૨૨	૨૬	૨૯	૨૩
પવનનીગતિ(કિમી/કલાક)	૧૯	૨૪	૨૨	૨૦	૧૭
પવનનીદિશા(ડીગ્રી)	૧૦	૪૧	૪૦	૩૪૮	૬

**અમરેલી:** જીલ્લામાં આગામી તા.૦૧-૦૨-૨૦૨૦ થી તા.૦૫-૦૨-૨૦૨૦ દરમિયાન હવામાન સુકું, ઠંડુ અને ચોખ્ખું રહેશે. પવનની દિશા ઉતર, ઈશાન અને વાયવ્યની રહેવાની અને પવનની ઝડપ ૧૭ થી ૨૩ કીમી/કલાક રહેની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમિયાન ૨૮-૩૦ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમિયાન ૧૧-૧૩ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૦૧-૦૨-૨૦	૦૨-૦૨-૨૦	૦૩-૦૨-૨૦	૦૪-૦૨-૨૦	૦૫-૦૨-૨૦
વરસાદ(મી.મી)	૦	૦	૦	૦	૦
મહત્તમતાપમાન (સે.ગ્રે)	૨૮	૨૮	૨૯	૩૦	૨૯
લઘુત્તમતાપમાન (સે.ગ્રે)	૧૧	૧૨	૧૩	૧૩	૧૨




વાદળનીસ્થિતિ(ઓકટા)	0	0	0	0	1
મહત્તમભેજ(%) સવાર	46	37	41	48	37
લઘુત્તમભેજ(%) બપોરબાદ	23	21	28	30	17
પવનનીગતિ(કિમી/કલાક)	20	23	21	17	17
પવનનીદિશા(ડીગ્રી)	17	34	13	297	51





**સુરેન્દ્રનગર:** જીલ્લામાં આગામી તા.૦૧-૦૨-૨૦૨૦ થી તા.૦૫-૦૨-૨૦૨૦ દરમિયાન હવામાન સુકું, ઠંડુ અને ચોખ્ખું રહેશે. પવનની દિશા ઉતર, ઈશાન, દક્ષિણ અને પૂર્વની રહેવાની અને વનની ઝડપ **૧૫ થી ૧૮ કીમી/કલાક** રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમિયાન **૨૭-૨૮** ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમિયાન **૧૧-૧૨** ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૦૧-૦૨-૨૦	૦૨-૦૨-૨૦	૦૩-૦૨-૨૦	૦૪-૦૨-૨૦	૦૫-૦૨-૨૦
વરસાદ(મી.મી)	0	0	0	0	0
મહત્તમતાપમાન (સે.ગ્રે)	27	27	27	28	27
લઘુત્તમતાપમાન (સે.ગ્રે)	11	11	12	12	12
વાદળનીસ્થિતિ(ઓકટા)	0	0	0	0	1
મહત્તમભેજ(%) સવાર	42	35	41	42	36
લઘુત્તમભેજ(%) બપોરબાદ	24	18	25	29	17
પવનનીગતિ(કિમી/કલાક)	16	17	15	15	18
પવનનીદિશા(ડીગ્રી)	20	50	35	189	76



➤ **૦૧ થી ૦૫-ફેબ્રુઆરી-૨૦૨૦** દરમિયાન હવામાન સુકું, ઠંડુ અને ચોખ્ખું રહેશે. પવનની દિશા ઉતર અને ઈશાનની મોટાભાગે રહેવાની અને પવનની ઝડપ **૯ થી ૨૪ કીમી/કલાક** રહેવાની શક્યતા છે. આ સમયગાળામાં મહત્તમ તાપમાન દિવસ દરમિયાન **૨૭-૩૧** ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમિયાન **૧૧-૧૮** ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.





મુખ્ય પાક	પાક અવસ્થા	રોગ/જીવાત/જાત	કૃષિ સલાહ (૧૦ લીટરપાણીમાં મિશ્ર કરી ભલામણ કરેલ દવા છાંટવી )
ઉનાળુ મગફળી	વાવેતર	ટીએજી-૨૪, જીજી-૨, ટિજી- ૩૭-એ, ટીપીજી- ૪૧	આ પખવાડીયામાં તાપમાન ૨૨-૨૫° સે. થાય એટલે ઉનાળુ મગફળીનું વાવેતર કરી દેવું. વાવેતર સમયે મગફળીના બીયાને ૧.૨૫ ગ્રામ ટેબ્યુકોનાઝોલ દવાનો ૧ કિ.ગ્રા. દાણા પ્રમાણે પટ આપવો. સીંગલ સુપર ફોસ્ફેટ ૩૧૨ કિ.ગ્રા., એમોનીયમ સલ્ફેટ ૧૨૫ કિ.ગ્રા. અને એરેડીનો ખોળ ૨૫૦ કિ.ગ્રા./હેક્ટર અથવા ડી.એ.પી. ૧૦૮ કિ.ગ્રા. અને જીપ્સમ ૨૫૦ કિ.ગ્રા./હેક્ટર અને એરેડીનો ખોળ ૨૫૦ કિ.ગ્રા./હેક્ટર પાયામાં આપવો.
ઉનાળુ તલ	વાવેતર	ગુજરાત તલ-૨ ગુજરાત તલ-૩	આ પખવાડીયામાં તાપમાન ૨૮-૩૦° સે. થાય એટલે ઉનાળુ તલનું વાવેતર કરવું. બિયારણને ૨-૩ ગ્રામ/કિલો મુજબ થાયરમ-

			<p>કર્બોક્સીન, મેન્કોઝેબ અથવા કાર્બેન્ડાઝીમનો પટ આપવો.</p> <p>-પાયામાં સીંગલ સુપર ફોસ્ફેટ ૨૫ કિ.ગ્રા./વિઘે અને યુરીયા ૮ કિ.ગ્રા./વિઘે આપવું. અથવા</p> <p>- ડી.એ.પી.૯ કિ.ગ્રા. અને જીપ્સમ ૮૦ કિ.ગ્રા./વિઘે અને યુરીયા ૮ કિ.ગ્રા./વિઘે આપવું. તેમજ તલના પાકમાં સરકારી ગ્રેડ-૫ વાળું સૂક્ષ્મતત્વોનું મિશ્રણ ૩.૨ કિ.ગ્રા./વિઘે અને એરંડીનો ખોળ ૮૦ કિ.ગ્રા./વિઘે જમીનમાં આપવો.</p>
લસણ	વૃદ્ધિ	<p>થ્રીપ્સ,</p>  <p>પાનની ટોચનો સુકારો</p> 	<ul style="list-style-type: none"> <li>➤ લસણના પાકમાં થ્રીપ્સના નિયંત્રણ માટે લીંબોળીનું તેલ ૫૦મિલિ અથવા લીંબોળીના મીંજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી અને પ્રોફેનોફોસ ૩૦ મિલી અથવા લેમ્બડા સાયહેલોથ્રીન ૧૦ મિલી દવાને ૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો. અતિ ઉપદ્રવ હોય તો સ્પીનોસાઈ ૪ મિલી/૧૦ લીટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો.</li> <li>➤ લસણના પાકમાં પાન પીળા પડતા અટકાવવા મેન્કોઝેબ ૨૭ ગ્રામ અથવા કાર્બેન્ડાઝીમ ૧૦ ગ્રામ પ્રતિ ૧૦ લીટર પાણીમાં નાખીને છંટકાવ કરવો.</li> <li>➤ જમીનની પ્રત મુજબ ૧૦-૧૨ દિવસે પિયત આપવું. યુરિઆ ખાતર ૫૪ કી.ગ્રા. પ્રતિ હેક્ટર વાવેતર બાદ ૩૦-૩૫ દિવસે આપવું.</li> <li>➤ લસણ પીળું પડે નહિ તે માટે વધારે પડતું પિયત આપવું નહિ.</li> </ul>
ચણા	વૃદ્ધિ/ફૂલ/પોપટા	<p>લીલી અને લશ્કરી ઈંચળ</p> 	<p>ચણાના પાકમાં લીલી અને લશ્કરી ઈંચળના નિયંત્રણ માટે પક્ષીઓને બેસવા માટે 'T' આકારના બેલાખડા મુકવા. જો વધુ ઉપદ્રવ જણાય તો કવીનાલફોસ ૨૦ મિલી અથવા એમામેક્ટીન બેન્ઝોએટ ૬.૫ ગ્રામ ૧૦ લીટર પાણીમાં કરીને છંટકાવ કરવો. તેમજ લીંબોળીનું તેલ ૫૦મિલિ અથવા લીંબોળીના મીંજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી ૧૦ લીટર પાણીમાં કરીને છંટકાવ કરવો.</p> <p>પાનના સુકારાના નિયંત્રણ માટે ડાયથેન એમ ૪૫, ૨૭ ગ્રામ ૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો.</p>
ધાણા	ફૂલ/દાણા ભરાવવા	<p>થ્રીપ્સ અને મોલો</p> <p>રાખોડીના નિયંત્રણ</p>	<p>થ્રીપ્સ અને મોલોના ના નિયંત્રણ માટે લીંબોળીનું તેલ ૫૦મિલિ અથવા લીંબોળીના મીંજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી અને થાયોમીથોક્ઝામ ૫ ગ્રામ ૧૦ લીટર પાણીમાં કરીને છંટકાવ કરવો.</p> <p>રાખોડીના નિયંત્રણ હેક્ઝાકોનાઝોલ ૧૫ મિલી દવા ૧૦ લીટર</p>





			પાણીમાં મિશ્ર કરીને ૧૫ દિવસના અન્તરે છંટકાવ કરવો.
જીરું	ફૂલ/દાણા ભરાવવા	થ્રીપ્સ & મોલો  ચરમી અને રાખોડી   સુકારો 	જીરુંના પાકમાં થ્રીપ્સ અને મોલોના નિયંત્રણ માટે લીબોળીનું તેલ ૫૦મિલિ અથવા લીબોળીના મીજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી અને એસીટામીપ્રીડ ૫ ગ્રામ ૧૦ લીટર પાણીમાં કરીને છંટકાવ કરવો.  જીરુંના પાકમાં કાળીચરમી અને રાખોડીનો ઉપદ્રવ ન થાય તે માટે ડાયથેન એમ ૪૫, ૨૭ ગ્રામ અને હેક્ઝાકોનાઝોલ ૧૫ મિલી દવા વારાફરતી ૧૦ લીટર પાણીમાં મિશ્ર કરીને ૧૫ દિવસના અન્તરે છંટકાવ કરવો.   જીરુંના ઉભા પાકમાં સુકારાના નિયંત્રણ માટે પિયત આપવાનું બંધ કરવું. 
ઘઉં	ફૂલ/દુધિયા દાણા	-	<ul style="list-style-type: none"> <li>• પિયત સમયસર આપવું.</li> <li>• ઘઉંનાદાણાની સારી ગુણવત્તા માટે છેલ્લા પિયત પહેલા ૧૫૦ ગ્રામ યુરિઆ અને મેન્કોઝેબ દવા ૨૫ ગ્રામ ૧૦લીટર પાણીમાં મિશ્ર કરી છાંટો.</li> </ul>
રાયડો	શીંગમાં દાણા ભરાવવા	થ્રીપ્સ અને મોલો	થ્રીપ્સ અને મોલોના ના નિયંત્રણ માટે લીબોળીનું તેલ ૫૦મિલિ અથવા લીબોળીના મીજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી અને થાયોમીથોક્ઝામ ૫ ગ્રામ ૧૦ લીટર પાણીમાં કરીને છંટકાવ કરવો.
કપાસ	કપાસની વીણી	ગુલાબી ઇયળ ગુલાબી ઇયળનાં નિયંત્રણ માટે તેમજ પિયત આપવું નહિ. બીજો ફાલ લેવો નહિ.	



		<p>છેલ્લી વીણી પછી ઘેટા બકરા ચરાવવા. જેથી ખુલ્લા વગરના ગુલાબી ઇંચળના નુકશાન વાળા જીંડવા અને અન્ય કચરો નાશ પામે. ત્યારબાદ કરાંઠી સળગાવવી નહિ પરંતુ રોટાવેટર/મોબાઈલ ચોપરથી નાના ટુકડા કરી જમીનમાં દાંટી દેવા જેથી જમીન સેન્દ્રિય તત્વનો ઉમેરો થવાથી સુંક્ષ્મ જીવોની સંખ્યા વધશે અને જમીનના સ્વાસ્થ્યમાં સુધારો થશે. અથવા કરાંઠી ભેગી કરી શ્રેદરથી નાના ટુકડા કરીને છાણ, ચુરીયા, કમ્પોસ્ટ કલ્ચર ઉમેરી દેશી(સેન્દ્રિય) ખાતર બનાવવું.</p>	
			
દિવેલા	ફૂલ/ગડ	<p>લીલી પોપટી, સફેદ માખી</p> <p>ગડની ઇંચળ</p>	<ul style="list-style-type: none"> <li>➤ સફેદ માખી અને લીલી પોપટીનો વધુ ઉપદ્રવ જોવા મળે છે. જેના નિયંત્રણ માટે એસીટામાપ્રીડ ૨૦ ટકા ૫ ગ્રામ અને ઇમીડાકલોપ્રીડ ૩૦.૫ % ૩ મિલી સાથે લીંબોળીનું તેલ ૫૦ મીલી અથવા લીંબોળીના મીંજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી/૧૦ લિટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો.</li> <li>➤ ગડની ઇંચળના નિયંત્રણ માટે ક્લોરાનટ્રાનીલીપ્રોલ ૧૮.૫ એસ.સી (રીનાક્ષીપાયર) દવા ૩ મિલી અથવા ડીડીવીપી ૭૬ ઇંસી ૭ મિલી ૧૦ લિટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો.</li> </ul>
ડુંગળી	રોપણી/વૃદ્ધિ વિકાસ	<p>થ્રીપ્સ, પાનનો સુકારો</p> <p>જાંબલી ધાબા</p> 	<ul style="list-style-type: none"> <li>➤ થ્રીપ્સના નિયંત્રણ માટે લીંબોળીનું તેલ ૫૦મિલિ અથવા લીંબોળીના મીંજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી અને પ્રોફેનોફોસ ૩૦ મિલી અથવા લેમ્બડા સાયહેલોથ્રીન ૧૫ મિલી દવાને ૧૦ લિટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો. અતિ ઉપદ્રવ હોય તો સ્પીનોસાદ ૪ મિલી/૧૦ લિટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો.</li> <li>➤ ડુંગળીના પાકમાં જાંબલી ધાબાના રોગના નિયંત્રણ માટે મેન્કોઝેબ ૨૭ ગ્રામ અથવા ક્લોરોથેલોનીલ ૨૭ ગ્રામ અથવા ફોઝેટાઈલ ૨૦ ગ્રામના ૧૫ દિવસના અંતરે ત્રણ છંટકાવ કરવા.</li> <li>➤ નાઈટ્રોજન યુક્ત એમોનિયમ સલ્ફેટ ખાતરનો પુરતી ડોઝ ૩૦ કીલો ગ્રામ પ્રતિ હે. આપવો.</li> </ul>
તુવેર	ફૂલ/શીંગ/દાણા ભરાવવા	શીંગ માખી	<p>કવીનાલફોસ ૨૦ મિલી અથવા ડીડીવીપી ૫ મિલી ૧૦ લિટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો. તેમજ લીંબોળીનું તેલ ૫૦મિલિ અથવા લીંબોળીના મીંજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી ૧૦ લિટર પાણીમાં કરીને છંટકાવ કરવો.</p>

કોબી અને ફલાવર	વૃદ્ધિ/દડા	હિરા ફૂદુ	કોબી અને ફલાવરમાં હિરાફૂદાના નિયંત્રણ માટે સ્પીનોસાદ ૩ મિલી/૧૦ લીટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો.
રીંગણી અને ટમેટી	ફુલ/ફળ	તડતડીયા અને સફેદ માખી  ડુંખ અને→ ફળ કોરી ખાનાર ઈયળ  પાન કથીરી	<ul style="list-style-type: none"> <li>➤ તડતડીયા અને સફેદ માખીના નિયંત્રણ માટે લીંબોળીનું તેલ ૫૦ મિલિ અથવા લીંબોળીના મીંજનું ૫ 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.</li> <li>➤ ફળ અને ડોકાની ઈયળોનો ઉપદ્રવ હોય તો નુકશાન પામેલ ફળ અને ડોકા તોડીને જમીનમાં દાંટી દેવા અને ક્લોરાનટ્રાનીલીપ્રોલ ૧૮.૫ એસ.સી (રીનાક્ષીપાયર) દવા ૩ મિલી અથવા ડીડીવીપી ૭૬ ઈસી મિલી ૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો.</li> <li>➤ જો પાનકથીરીનો ઉપદ્રવ હોય તો પ્રોપરગાઈટ ૫૭ ઈ.સી. ૧૫ મિલી પ્રતિ પંપ છંટકાવ કરવો.</li> </ul>
મરચી	વૃદ્ધિ/ફુલ/ફળ	થ્રીપ્સ, સફેદ માખી  કાલવણ → 	<ul style="list-style-type: none"> <li>➤ પ્રોફેનોફોસ ૨૦ મીલી અને લીંબોળીનું તેલ ૫૦ મિલી અથવા લીંબોળીના મીંજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મિલી ૧૦ લી. પાણીમાં મિશ્ર કરી છંટકાવ કરવો. થ્રીપ્સનો વધુ ઉપદ્રવ હોય તો સ્પીનોસાદ અથવા સ્પીનેટોરમ દવા ૫ મિલી. પ્રતિ પંપ છાંટવી.</li> <li>➤ કાલવણ રોગના નિયંત્રણ માટે મેન્કોઝેબ ૨૭ ગ્રામ અથવા ક્લોરોથેલોનીલ ૨૭ ગ્રામ અથવા ફોઝેટાઈલ ૨૦ ગ્રામના ૧૫ દિવસના અંતરે ત્રણ છંટકાવ કરવા.</li> </ul>
લીંબુ	ફળનો વિકાસ	પાન કથીરી   સાયલા અને થ્રીપ્સ	<p>લીંબુના બગીચામાં પાન કથીરીનો ઉપદ્રવ વધુ હોય તો તેના નિયંત્રણ માટે પ્રોપરગાઈટ દવા ૧૦ મિલી ૧૦ લીટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો.</p> <p>લીંબુમાં સાયલા અને થ્રીપ્સ 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 પાનકોરીયુ	 <p>બદામી ટપકાના નિયંત્રણ માટે કોપર ઓક્ઝીક્લોરાઈડ ૪૦ ગ્રામ અને ૧.૫ ગ્રામ સ્ટ્રેપ્ટોસાયક્લીનના બે છંટકાવ ૧૫ દિવસના ગળે કરવા. પાનકોરીયુના નિયંત્રણ માટે ડીડીવીપી ૧૦ મી.લી. ૧૦ લિટર પાણીમાં મિશ્ર કરીને છાંટવી.</p>
આંબો	ફૂલ	મધીયો અને મગીયાની ઈયળ  ભુકીછારો/રાખોડી	<p>આંબામાં મધીયો અને મગીયાની ઈયળના નિયંત્રણ માટે ઈમીડાક્લોપ્રીડ ૫ મિલી ૧૦ લી.પાણીમાં મિશ્ર કરી છંટકાવ કરવો.</p>  <p>આંબામાં ભુકીછારો/રાખોડીના નિયંત્રણ માટે હેક્ઝાકોનાઝોલ ૧૫ મિલી ૧૦ લી.પાણીમાં મિશ્ર કરી છંટકાવ કરવો.</p> 
પશુ/ મરઘા 			<p>પ્રજીવથી થતા રોગોની ચકાસણી કરાવવી. ઈતરડીના નિયંત્રણ માટે ડેલ્ટામેથ્રીન અથવા એમીટ્રાઝ ૨ મી.લી. ૧ લીટર પાણીમાં નાખીને છાંટવી. વિટામીન એ તથા ડી પુરકો આપવા. કરમિયાની દવા આપવી તથા ઉછરતા પશુઓમાં બૃસેલ્લા કાફ્વુંડનું રસીકરણ કરાવવું. પશુને ૬ થી ૮ કી.ગ્રા. સુકો અને ૧૫ થી ૨૦ કી.ગ્રા. લીલો ચારો આપવો. દુધાળા પશુઓને પ્રતિ લીટર દુધની ઊપજ મુજબ નિયમિત ૧ કી.ગ્રા. ફીડ + ૫૦ ગ્રામ ખનીજ તત્ત્વોનું મિશ્રણ આપવું. દુધાળા પશુઓને હુંફાળું ગરમ પાણી પીવા માટે આપવું. તેમજ માખીઓના ઉપદ્રવથી બચવા ફીનાઈલ છાંટવું.</p>

જુકૃયુ/ટેકનિકલ ઓફિસર.(સુખે)/એગ્રોમેટ/બુલેટીન/ /૨૦૨૦  
તરઘડિયા(રાજકોટ), તારીખ: ૩૧/૦૧/૨૦૨૦.

પ્રતિ,  
તંત્રીશ્રી/ડાયરેક્ટરશ્રી,  
રાજકોટ,

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

ટેકનીકલ ઓફિસર  
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**Agro met Advisory Service bulletin No.88-for the Rajkot district**

(Issued jointly by DFRS, J.A.U., Targhadia (Rajkot) and India Meteorological Department)  
 (Period 01 to 08-February- 2020)

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

Rainfall (mm)	0.0
Maximum temperature (°C )	23.8-29.5
Minimum temperature (°C )	6.4-15.1
Relative Humidity (%) I	61-86
Relative Humidity (%) II	30-41
Wind speed (Kmph)	2.6-7.3




**Weather forecast until 08-30 hrs. of 05/02/2020**





**(1) RAJKOT DISTRICT:**




	01/02/20	02/02/20	03/02/20	04/02/20	05/02/20
Rainfall (mm)	0	0	0	0	0
Max.Temp.(°C)	28	28	28	29	28
Min.Temp.(°C)	12	12	13	13	13
Total CC (octa)	0	0	0	0	2
RH-I (%)	44	36	38	41	39
RH-II (%)	20	14	21	25	15
Wind Speed (kmph)	15	17	17	14	16
Wind Direction(deg.)	28	47	30	252	26

**Agro meteorological Advisories:**







<b>General Advice</b>	<ul style="list-style-type: none"> <li>• <b>Rain fall: Dry, cold and Mainly clear to clear weather forecasted next five days.</b></li> <li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 28-29°C and 12-13°C, respectively.</li> <li>• <b>Relative Humidity:</b> The RH-I and RH-II is likely to be in the range of 36-44% &amp; 14-25, respectively.</li> <li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be NE, W and 14-17 km/h, respectively.</li> </ul>		
<b>Crops</b>	<b>Stage</b>	<b>Insect/Pest/ Variety</b>	<b>Advisory</b>

<b>Summer Groundnut</b>	Sowing	TAG-24,TG-37-A, TPG-41,GG-2, GJG-31	Carry out sowing of summer groundnut as temperature rises to 22-25° C and give seed treatment of <b>Tebuconazole</b> 1.25 gm/1 kg seed. Apply Single Super Phosphate 312 kg, Ammonium sulphate 125 kg and Castor cake 250 kg/ha OR DAP 108 kg, Gypsum 250 kg and castor cake 250 kg/ha as basal.
<b>Summer Sesame</b>	Preparation for sowing	G.Til-2, G.Til-3	<b>Procure good quality seeds of sesame</b> and carry out sowing of summer SESAME as minimum and maximum temperature rises up to 19 °C and 30°C, respectively and give seed treatment of vitavax (Carboxin 37.5% + Thiram 37.5%) or mencozeb or carbendazim 2-3 gm/1 kg seed. Apply Single Super Phosphate 156 kg and 55 kg urea/ha, OR DAP 54 kg and 33 kg urea/ha as basal.
<b>Garlic</b>	Girthing	Thrips and aphid  leaf blight (yellowing) 	<b>For thrips&amp;aphid control spray neem seed extract 5% and make alternative sprays of profenofos 20 ml and lambda-cyhalothrin 14 ml with imidacloprid 17.8 % EC 5 ml in 10 liters of water.</b>  <b>To prevent leaf blight (yellowing) disease infestation in garlic spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure.</b> <b>Do not over irrigate to prevent leaf yellowing disease.</b>
<b>Chick pea</b>	Flowering/pod formation	Monitor the crop regularly for and prodenia and heliothes infestation 	Under present weather condition heliothes infestation observed in chickpea. So, Monitor the crop regularly for heliothes and prodenia infestation. <ul style="list-style-type: none"> <li>• “T” shaped bird perches in and around crop field to be installed for natural controlling the insect population.</li> <li>• Spray <b>neem seed extract</b> 5 % or neem seed oil 50 ml in 10 liters of water.</li> <li>• If infestation cross ETL spray 3 ml <b>Spinosad</b> in 10 liters of water.</li> <li>• <b>Also to prevent blight disease infestation spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure.</b></li> <li>• Irrigate gram crop at flowering stage.</li> </ul>

<p><b>Cumin</b></p>	<p>Flowering/grain formation</p>	<p><b>Aphid and thrips</b></p> <p><b>Blight and Powery mildew</b></p>  <p><b>Wilt</b></p> 	<p>Under present weather condition attack of thrips and aphids has been reported spray <b>Acetamiprid 5 gm or imidacloprid 17.8 % 5 ml/10 liters</b> of water.</p> <p>Under present weather condition spray <b>tebuconazole</b> 10 ml/10 liters of water to prevent blight and powdery mildew infestation.</p>  <p>Stop irrigation to prevent further infection in standing crop.</p> 
<p><b>Coriander</b></p>	<p>Flowering/grain formation</p>	<p>Thrips and Jassids</p>	<p>To control sucking pest spray <b>neem seed extract</b> 5 % or neem seed oil 50 ml and 15 gm <b>Acepahte</b> in 10 litres of water.</p> <p><b>Under present weather condition spray Hexaconazole 15 ml/10 liters of water to prevent blight and powdery mildew infestation.</b></p>
<p><b>Wheat</b></p>	<p>Flowering/milking</p>	<p>-</p>	<ul style="list-style-type: none"> <li>• <b>Apply irrigation at critical stage without stress.</b></li> <li>• <b>To improve the quality of wheat grain spray 2 % uria solution before the last irrigation and spray mancozeb @ 25 gm/10 lit of water.</b></li> </ul>
<p><b>Cotton</b></p>	<p>Picking &amp; pulling of cotton stalk</p>	<p>Heavy aatack of pink boll worm observed in cotton field. Carry out picking in time.</p> <p><b>Animals like goats, sheep among others, should be allowed to graze on unopened bolls and plant debris in the cotton fields after the last picking to prevent infestation of pink boll worm in subsequent year. After grazing don't burn cotton stalksbut, recycle the stalk by thedoin situ chopping &amp; burying of cotton stalk in soil by mobile chopper and rotavator or make compost from the cotton residues to improvesoil biomass and health.</b></p>	

			
<b>Castor</b>	Capsule formation/development	Jassids & white fly →  Pod borer	<p><b>Spray Acetamiprid 20 % SP @ 5.0 gm</b> or <b>Imidacloprid 30.5 % 3 ml with neem seed extract 500 ml</b> or neem oil 40 ml / 10 lit of water.</p> <p><b>For the control of pod borer spray chlorantraniliprole 18.5 % SC 3.0 ml or DDVP 7 ml/10 litre of water is advised against fruit borer.</b></p>
Pigeon pea	Flowering/pod formation/development	Pod fly	<ul style="list-style-type: none"> <li>• Spray <b>neem seed extract 5 %</b> or neem seed oil 50 ml in 10 litres of water.</li> <li>• If infestation cross ETL spray 20 ml <b>Quinalphos</b> or 5 ml <b>Dichlorvos</b> in 10 litres of water.</li> </ul>
<b>Onion</b>	TP/Growth	Thrips  Leaf blight → 	<p><b>For thrips control spray neem seed extract 5% and Make alternative sprays of profenofos 20 ml and lambda-cyhalothrin 14 ml in 10 liters of water at 10 days interval.</b></p> <p>Make alternate spray of <b>Mencozeb 25 gm</b> and <b>Carbendazim 10gm</b> in 10 liters of water at 10 days interval.</p>
<b>Brinjal &amp; Tomato</b>	Flowering/fruitletting	<p><b>Sucking pest</b> →</p> <p><b>Shoot &amp; Fruit borer</b></p>  <p><b>Mites</b></p>	<p><b>Monitor the crop for infestation of jassid &amp; white fly in brinjal, if require spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with diafenthiuron 50 % wp @ 16 gm / 10 lit of water.</b></p> <p><b>In brinjal and tomato constant monitoring of borers by using pheromone traps 4-6 per acre is advised, If insect population is above ETL than spraying of chlorantraniliprole 18.5 % SC 3.0 ml or DDVP 7 ml/10 litre of water is advised against fruit borer.</b></p> <p><b>If infestation is found, then make spraying of Propargite 57 % EC @ 10 ml/ 10litre of water for the control of Mites under clear sky.</b></p>



<p><b>Chili</b></p>	<p>Flowering &amp; fruiting</p>	<p><b>Thrips</b> →  </p> <p><b>Anthracnose</b> →  </p>	<p><b>Under present weather conditions severe attack of thrips has been reported. Spray Ethion 20 ml with 500 ml of 5 % neem seed extract or neem seed oil 50 ml in 10 litres of water. In case of heavy attack make spray of spinosad or spinetoram 3 ml per 10 liter of water.</b></p> <p>For the control of Anthracnose spray <b>Mencozeb 27gm</b>  OR  Chlorothalonil 27 gram  OR  Fosetyl 20 gm in 10 liters of water at 15 days interval.</p>
<p><b>Lemon</b></p>	<p>Flowering and fruit formation</p>	<p><b>Psylla and thrips</b></p> <p><b>Citrus canker</b></p> <p><b>Leaf minor</b></p>	<p></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><b>Spray copper oxychloride 40 gm or streptocyclin 1.5 gm in 10 litre of water.</b></p> <p><b>Spray Dichlorvos 10 ml or Quinalphos 20 ml in 10 litres of water for control of leaf minor.</b></p>
<p><b>Mango</b></p>	<p>Flowering</p>	<p><b>Blossom midge and Leaf hopper</b> →  </p> <p><b>Powdery Mildew</b> →  </p>	<p>To prevent damage spray <b>imidacloprid 5 ml/10 litres of water.</b></p> <p>Spray 15 gm <b>carbendazim</b> in 10 liters of water to prevent powdery mildew disease in mango.</p>
<p><b>Livestock &amp; poultry</b>  </p>	<p>Spray Deltamethrin or Amitraz 2 ml/litre of water for the control of tick. Carry out Brucella and other infectious &amp; reproductive diseases evaluation. Spray phenyl in the animal shed to avoid flies and mosquitoes.</p> <p><b>Keep young calves indoors during night time to avoid cold stress.</b> Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. Provide ad lib</p>		

	warm water to lactating animals. Keep animal shed hygienic and clean to avoid flies and mosquitoes. For milch animals, regularly follow schedule of 1 kg feed + 50 g mineral mixture per 2 liters of milk yield. Feed animals with a mixture of green grass + hay + minerals + dry feed.
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**Technical Officer, GKMS Unit, DFRS, JAU, Targhadia.**



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**Junagadh Agricultural University**  
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**Agro met Advisory Service bulletin No.-88 for the Morbi district**

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

(Period 01 to 05-February- 2020)




**Weather forecast until 08-30 hrs. of 05/02/2020**





**(2) MORBI DISTRICT:**




	01/02/20	02/02/20	03/02/20	04/02/20	05/02/20
Rainfall (mm)	0	0	0	0	0
Max. Temp.(°C)	28	28	28	29	28
Min. Temp.(°C)	12	12	13	13	13
Total CC (octa)	0	0	0	0	1
RH-I (%)	40	39	43	58	55
RH-II (%)	19	17	24	30	22
Wind Speed (kmph)	15	17	16	9	11
Wind Direction(deg.)	32	58	52	38	39

**Agro meteorological Advisories:-**







<b>General Advice</b>	<ul style="list-style-type: none"> <li>• <b>Rain fall: Dry, cold and Mainly clear to clear weather forecasted next five days.</b></li> <li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 28-29°C and 12-13°C, respectively.</li> <li>• <b>Relative Humidity:</b> The RH-I and RH-II is likely to be in the range of 39-58% &amp; 17-30, respectively.</li> <li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be NE and 9-17 km/h, respectively.</li> </ul>		
<b>Crops</b>	<b>Stage</b>	<b>Insect/Pest/ Variety</b>	<b>Advisory</b>
<b>Summer Groundnut</b>	Sowing	TAG-24, TG-37-A, TPG-41, GG-2, GJG-31	Carry out sowing of summer groundnut as temperature rises to 22-25° C and give seed treatment of <b>Tebuconazole</b> 1.25 gm/1 kg seed. Apply Single Super Phosphate 312 kg, Ammonium sulphate 125 kg and Castor cake 250 kg/ha OR DAP 108 kg, Gypsum 250 kg and castor cake 250 kg/ha as basal.
<b>Summer Sesame</b>	Preparation for sowing	G.Til-2, G.Til-3	<b>Procure good quality seeds of sesame</b> and carry out sowing of summer SESAME as minimum and maximum temperature rises up to 19 °C and 30°C, respectively and give seed treatment of vitavax (Carboxin 37.5% +

			Thiram 37.5%) or mencozeb or carbendazim 2-3 gm/1 kg seed. Apply Single Super Phosphate 156 kg and 55 kg urea/ha, OR DAP 54 kg and 33 kg urea/ha as basal.
<b>Garlic</b>	Girthing	Thrips and aphid  leaf blight (yellowing) 	<b>For thrips&amp;aphid control spray neem seed extract 5% and make alternative sprays of profenofos 20 ml and lambda-cyhalothrin 14 ml with imidacloprid 17.8 % EC 5 ml in 10 liters of water.</b>  <b>To prevent leaf blight (yellowing) disease infestation in garlic spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure.</b> <b>Do not over irrigate to prevent leaf yellowing disease.</b>
<b>Chick pea</b>	Flowering/pod formation	Monitor the crop regularly for prodenia and heliothes infestation 	Under present weather condition heliothes infestation observed in chickpea. So, Monitor the crop regularly for heliothes and prodenia infestation. <ul style="list-style-type: none"> <li>• “T” shaped bird perches in and around crop field to be installed for natural controlling the insect population.</li> <li>• Spray <b>neem seed extract</b> 5 % or neem seed oil 50 ml in 10 liters of water.</li> <li>• If infestation cross ETL spray 3 ml <b>Spinosad</b> in 10 liters of water.</li> <li>• <b>Also to prevent blight disease infestation spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure.</b></li> <li>• Irrigate gram crop at flowering stage.</li> </ul>

<p><b>Cumin</b></p>	<p>Flowering/grain formation</p>	<p><b>Aphid and thrips</b></p> <p><b>Blight and Powery mildew</b></p>  <p><b>Wilt</b></p> 	<p>Under present weather condition attack of thrips and aphids has been reported spray <b>Acetamiprid 5 gm or imidacloprid 17.8 % 5 ml/10</b> liters of water.</p> <p>Under present weather condition spray <b>tebuconazole</b> 10 ml/10 liters of water to prevent blight and powdery mildew infestation.</p>  <p>Stop irrigation to prevent further infection in standing crop.</p> 
<p><b>Coriander</b></p>	<p>Flowering/grain formation</p>	<p>Thrips and Jassids</p>	<p>To control sucking pest spray <b>neem seed extract</b> 5 % or neem seed oil 50 ml and 15 gm <b>Acepahte</b> in 10 litres of water.</p> <p><b>Under present weather condition spray Hexaconazole 15 ml/10 liters of water to prevent blight and powdery mildew infestation.</b></p>
<p><b>Wheat</b></p>	<p>Flowering/milking</p>	<p>-</p>	<p>Apply irrigation at critical stage without stress.</p>
<p><b>Cotton</b></p>	<p>Picking &amp; pulling of cotton stalk</p>	<p>Heavy aatack of pink boll worm observed in cotton field. Carry out picking in time.</p> <p><b>Animals like goats, sheep among others, should be allowed to graze on unopened bolls and plant debris in the cotton fields after the last picking to prevent infestation of pink boll worm in subsequent year. After grazing don't burn cotton stalksbut, recycle the stalk by thedoin situ chopping &amp; burying of cotton stalk in soil by mobile chopper and rotavator or make compost from the cotton residues to improve soil biomass and health.</b></p>	

			
<b>Castor</b>	Capsule formation/development	Jassids & white fly →  Pod borer	<p><b>Spray Acetamiprid 20 % SP @ 5.0 gm</b> or <b>Imidacloprid 30.5 % 3 ml with neem seed extract 500 ml</b> or neem oil 40 ml / 10 lit of water.</p> <p><b>For the control of pod borer spray chlorantraniliprole 18.5 % SC 3.0 ml or DDVP 7 ml/10 litre of water is advised against fruit borer.</b></p>
Pigeon pea	Flowering/pod formation/development	Pod fly	<ul style="list-style-type: none"> <li>• Spray <b>neem seed extract 5 %</b> or neem seed oil 50 ml in 10 litres of water.</li> <li>• If infestation cross ETL spray 20 ml <b>Quinalphos</b> or 5 ml <b>Dichlorvos</b> in 10 litres of water.</li> </ul>
<b>Onion</b>	TP/Growth	Thrips  Leaf blight → 	<p><b>For thrips control spray neem seed extract 5% and Make alternative sprays of profenofos 20 ml and lambda-cyhalothrin 14 ml in 10 liters of water at 10 days interval.</b></p> <p>Make alternate spray of <b>Mencozeb 25 gm</b> and <b>Carbendazim 10gm</b> in 10 liters of water at 10 days interval.</p>
<b>Brinjal &amp; Tomato</b>	Flowering/fruitletting	<p><b>Sucking pest</b> →</p> <p><b>Shoot &amp; Fruit borer</b></p>  <p><b>Mites</b></p>	<p><b>Monitor the crop for infestation of jassid &amp; white fly in brinjal, if require spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with diafenthiuron 50 % wp @ 16 gm / 10 lit of water.</b></p> <p><b>In brinjal and tomato constant monitoring of borers by using pheromone traps 4-6 per acre is advised, If insect population is above ETL than spraying of chlorantraniliprole 18.5 % SC 3.0 ml or DDVP 7 ml/10 litre of water is advised against fruit borer.</b></p> <p><b>If infestation is found, then make spraying of Propargite 57 % EC @ 10 ml/ 10litre of water for the control of Mites under clear sky.</b></p>



<p><b>Chili</b></p>	<p>Flowering &amp; fruiting</p>	<p><b>Thrips</b> →  </p> <p><b>Anthracnose</b> →  </p>	<p>Under present weather conditions severe attack of thrips has been reported. Spray Ethion 20 ml with 500 ml of 5 % neem seed extract or neem seed oil 50 ml in 10 litres of water. In case of heavy attack make spray of spinosad or spinetoram 3 ml per 10 liter of water.</p> <p>For the control of Anthracnose spray Mencozeb 27gm OR Chlorothalonil 27 gram OR Fosetyl 20 gm in 10 liters of water at 15 days interval.</p>
<p><b>Lemon</b></p>	<p>Flowering and fruit formation</p>	<p><b>Psylla and thrips</b></p> <p><b>Citrus canker</b></p> <p><b>Leaf minor</b></p>	<p></p> <p>To prevent damage of psylla&amp;thrips spray imidacloprid 30.5 % 5 ml / 10 lit of water ml/10 lit of water.</p> <p>Spray copper oxychloride 40 gm or streptocyclin 1.5 gm in 10 litre of water.</p> <p>Spray Dichlorvos 10 ml or Quinalphos 20 ml in 10 litres of water for control of leaf minor.</p>
<p><b>Mango</b></p>	<p>Flowering</p>	<p><b>Blossom midge and Leaf hopper</b> →  </p> <p><b>Powdery Mildew</b> →  </p>	<p>To prevent damage spray imidacloprid 5 ml/10 litres of water.</p> <p>Spray 15 gm carbendazim in 10 liters of water to prevent powdery mildew disease in mango.</p>
<p><b>Livestock &amp; poultry</b>  </p>	<p>Spray Deltamethrin or Amitraz 2 ml/litre of water for the control of tick. Carry out Brucella and other infectious &amp; reproductive diseases evaluation. Spray phenyl in the animal shed to avoid flies and mosquitoes.</p> <p><b>Keep young calves indoors during night time to avoid cold stress.</b> Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. Provide ad lib</p>		

	warm water to lactating animals. Keep animal shed hygienic and clean to avoid flies and mosquitoes. For milch animals, regularly follow schedule of 1 kg feed + 50 g mineral mixture per 2 liters of milk yield. Feed animals with a mixture of green grass + hay + minerals + dry feed.
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**Technical Officer, GKMS Unit, DFRS, JAU, Targhadia.**



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**Agro met Advisory Service bulletin No.-88 for the Jamnagar district**

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

(Period 01 to 05-February- 2020)




**Weather forecast until 08-30 hrs. of 05/02/2020**





**(3) JAMNAGAR DISTRICT:**




	01/02/20	02/02/20	03/02/20	04/02/20	05/02/20
Rainfall (mm)	0	0	0	0	0
Max. Temp.(°C)	29	29	29	30	31
Min. Temp.(°C)	15	16	16	16	16
Total CC (octa)	0	0	0	1	2
RH-I (%)	47	45	45	46	49
RH-II (%)	29	25	29	31	26
Wind Speed (kmph)	19	24	24	20	18
Wind Direction(deg.)	46	41	35	322	43

**Agro meteorological Advisories:-**







<b>General Advice</b>	<ul style="list-style-type: none"> <li>• <b>Rain fall: Dry, cold and Mainly clear to clear weather forecasted next five days.</b></li> <li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 29-31°C and 15-16°C, respectively.</li> <li>• <b>Relative Humidity:</b> The RH-I and RH-II is likely to be in the range of 45-49% &amp; 25-31, respectively.</li> <li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be NE, NW and 18-24 km/h, respectively.</li> </ul>		
<b>Crops</b>	<b>Stage</b>	<b>Insect/Pest/Variety</b>	<b>Advisory</b>
<b>Summer Groundnut</b>	Sowing	TAG-24, TG-37-A, TPG-41, GG-2, GJG-31	Carry out sowing of summer groundnut as temperature rises to 22-25° C and give seed treatment of <b>Tebuconazole</b> 1.25 gm/1 kg seed. Apply Single Super Phosphate 312 kg, Ammonium sulphate 125 kg and Castor cake 250 kg/ha OR DAP 108 kg, Gypsum 250 kg and castor cake 250 kg/ha as basal.
<b>Summer Sesame</b>	Preparation for sowing	G.Til-2, G.Til-3	<b>Procure good quality seeds of sesame</b> and carry out sowing of summer SESAME as minimum and maximum temperature rises up to 19 °C and 30°C, respectively and give seed treatment of vitavax (Carboxin 37.5% +

			Thiram 37.5%) or mencozeb or carbendazim 2-3 gm/1 kg seed. Apply Single Super Phosphate 156 kg and 55 kg urea/ha, OR DAP 54 kg and 33 kg urea/ha as basal.
<b>Garlic</b>	Girthing	<p>Thrips and aphid</p>  <p>leaf blight (yellowing)</p> 	<p><b>For thrips&amp;aphid control spray neem seed extract 5% and make alternative sprays of profenofos 20 ml and lambda-cyhalothrin 14 ml with imidacloprid 17.8 % EC 5 ml in 10 liters of water.</b></p> <p><b>To prevent leaf blight (yellowing) disease infestation in garlic spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure.</b></p> <p><b>Do not over irrigate to prevent leaf yellowing disease.</b></p>
<b>Chick pea</b>	Flowering/pod formation	<p>Monitor the crop regularly for prodenia and heliothes infestation</p> 	<p>Under present weather condition heliothes infestation observed in chickpea. So, Monitor the crop regularly for heliothes and prodenia infestation.</p> <ul style="list-style-type: none"> <li>• “T” shaped bird perches in and around crop field to be installed for natural controlling the insect population.</li> <li>• Spray <b>neem seed extract</b> 5 % or neem seed oil 50 ml in 10 liters of water.</li> <li>• If infestation cross ETL spray 3 ml <b>Spinosad</b> in 10 liters of water.</li> <li>• <b>Also to prevent blight disease infestation spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure.</b></li> <li>• Irrigate gram crop at flowering stage.</li> </ul>

<p><b>Cumin</b></p>	<p>Flowering/grain formation</p>	<p><b>Aphid and thrips</b></p> <p><b>Blight and Powery mildew</b></p>  <p><b>Wilt</b></p> 	<p>Under present weather condition attack of thrips and aphids has been reported spray <b>Acetamiprid 5 gm or imidacloprid 17.8 % 5 ml/10</b> liters of water.</p> <p>Under present weather condition spray <b>tebuconazole</b> 10 ml/10 liters of water to prevent blight and powdery mildew infestation.</p>  <p>Stop irrigation to prevent further infection in standing crop.</p> 
<p><b>Coriander</b></p>	<p>Flowering/grain formation</p>	<p>Thrips and Jassids</p>	<p>To control sucking pest spray <b>neem seed extract</b> 5 % or neem seed oil 50 ml and 15 gm <b>Acepahte</b> in 10 litres of water.</p> <p><b>Under present weather condition spray Hexaconazole 15 ml/10 liters of water to prevent blight and powdery mildew infestation.</b></p>
<p><b>Wheat</b></p>	<p>Flowering/milking</p>	<p>-</p>	<p>Apply irrigation at critical stage without stress.</p>
<p><b>Cotton</b></p>	<p>Picking &amp; pulling of cotton stalk</p>	<p>Heavy aatack of pink boll worm observed in cotton field. Carry out picking in time.</p> <p><b>Animals like goats, sheep among others, should be allowed to graze on unopened bolls and plant debris in the cotton fields after the last picking to prevent infestation of pink boll worm in subsequent year. After grazing don't burn cotton stalksbut, recycle the stalk by thedoin situ chopping &amp; burying of cotton stalk in soil by mobile chopper and rotavator or make compost from the cotton residues to improve soil biomass and health.</b></p>	

			
<b>Castor</b>	Capsule formation/development	Jassids & white fly →  Pod borer	<p><b>Spray Acetamiprid 20 % SP @ 5.0 gm</b> or <b>Imidacloprid 30.5 % 3 ml with neem seed extract 500 ml</b> or neem oil 40 ml / 10 lit of water.</p> <p><b>For the control of pod borer spray chlorantraniliprole 18.5 % SC 3.0 ml or DDVP 7 ml/10 litre of water is advised against fruit borer.</b></p>
Pigeon pea	Flowering/pod formation/development	Pod fly	<ul style="list-style-type: none"> <li>• Spray <b>neem seed extract 5 %</b> or neem seed oil 50 ml in 10 litres of water.</li> <li>• If infestation cross ETL spray 20 ml <b>Quinalphos</b> or 5 ml <b>Dichlorvos</b> in 10 litres of water.</li> </ul>
<b>Onion</b>	TP/Growth	Thrips  Leaf blight → 	<p><b>For thrips control spray neem seed extract 5% and Make alternative sprays of profenofos 20 ml and lambda-cyhalothrin 14 ml in 10 liters of water at 10 days interval.</b></p> <p>Make alternate spray of <b>Mencozeb 25 gm</b> and <b>Carbendazim 10gm</b> in 10 liters of water at 10 days interval.</p>
<b>Brinjal &amp; Tomato</b>	Flowering/fruitletting	<p><b>Sucking pest</b> →</p> <p><b>Shoot &amp; Fruit borer</b></p>  <p><b>Mites</b></p>	<p><b>Monitor the crop for infestation of jassid &amp; white fly in brinjal, if require spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with diafenthiuron 50 % wp @ 16 gm / 10 lit of water.</b></p> <p><b>In brinjal and tomato constant monitoring of borers by using pheromone traps 4-6 per acre is advised, If insect population is above ETL than spraying of chlorantraniliprole 18.5 % SC 3.0 ml or DDVP 7 ml/10 litre of water is advised against fruit borer.</b></p> <p><b>If infestation is found, then make spraying of Propargite 57 % EC @ 10 ml/ 10litre of water for the control of Mites under clear sky.</b></p>



<p><b>Chili</b></p>	<p>Flowering &amp; fruiting</p>	<p><b>Thrips</b> →  </p> <p><b>Anthracnose</b> →  </p>	<p>Under present weather conditions severe attack of thrips has been reported. Spray Ethion 20 ml with 500 ml of 5 % neem seed extract or neem seed oil 50 ml in 10 litres of water. In case of heavy attack make spray of spinosad or spinetoram 3 ml per 10 liter of water.</p> <p>For the control of Anthracnose spray Mencozeb 27gm OR Chlorothalonil 27 gram OR Fosetyl 20 gm in 10 liters of water at 15 days interval.</p>
<p><b>Lemon</b></p>	<p>Flowering and fruit formation</p>	<p><b>Psylla and thrips</b></p> <p><b>Citrus canker</b></p> <p><b>Leaf minor</b></p>	<p></p> <p>To prevent damage of psylla&amp;thrips spray imidacloprid 30.5 % 5 ml / 10 lit of water ml/10 lit of water.</p> <p><b>Spray copper oxychloride 40 gm or streptocyclin 1.5 gm in 10 litre of water.</b></p> <p><b>Spray Dichlorvos 10 ml or Quinalphos 20 ml in 10 litres of water for control of leaf minor.</b></p>
<p><b>Mango</b></p>	<p>Flowering</p>	<p><b>Blossom midge and Leaf hopper</b> →  </p> <p><b>Powdery Mildew</b> →  </p>	<p>To prevent damage spray imidacloprid 5 ml/10 litres of water.</p> <p>Spray 15 gm carbendazim in 10 liters of water to prevent powdery mildew disease in mango.</p>
<p><b>Livestock &amp; poultry</b>  </p>	<p>Spray Deltamethrin or Amitraz 2 ml/litre of water for the control of tick. Carry out Brucella and other infectious &amp; reproductive diseases evaluation. Spray phenyl in the animal shed to avoid flies and mosquitoes.</p> <p><b>Keep young calves indoors during night time to avoid cold stress.</b> Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. Provide ad lib</p>		

	warm water to lactating animals. Keep animal shed hygienic and clean to avoid flies and mosquitoes. For milch animals, regularly follow schedule of 1 kg feed + 50 g mineral mixture per 2 liters of milk yield. Feed animals with a mixture of green grass + hay + minerals + dry feed.
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**Technical Officer, GKMS Unit, DFRS, JAU, Targhadia.**



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**Agro met Advisory Service bulletin No.-88 for the Devbhumi Dwarka district**

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

(Period 01 to 05-February- 2020)




**Weather forecast until 08-30 hrs. of 05/02/2020**





**(4) DEVBHUMI DWARKA DISTRICT:**




	01/02/20	02/02/20	03/02/20	04/02/20	05/02/20
Rainfall (mm)	0	0	0	0	0
Max. Temp.(°C)	27	27	27	28	29
Min. Temp.(°C)	17	18	18	18	18
Total CC (octa)	0	0	0	1	2
RH-I (%)	48	46	48	47	53
RH-II (%)	31	22	26	29	23
Wind Speed (kmph)	19	24	22	20	17
Wind Direction(deg.)	10	41	40	348	6

**Agro meteorological Advisories:-**







<b>General Advice</b>	<ul style="list-style-type: none"> <li>• <b>Rain fall: Dry, cold and Mainly clear to clear weather forecasted next five days.</b></li> <li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 27-29°C and 17-18°C, respectively.</li> <li>• <b>Relative Humidity:</b> The RH-I and RH-II is likely to be in the range of 46-53% &amp; 22-31, respectively.</li> <li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be N, NE and 17-24 km/h, respectively.</li> </ul>		
<b>Crops</b>	<b>Stage</b>	<b>Insect/Pest/Variety</b>	<b>Advisory</b>
<b>Summer Groundnut</b>	Sowing	TAG-24, TG-37-A, TPG-41, GG-2, GJG-31	Carry out sowing of summer groundnut as temperature rises to 22-25° C and give seed treatment of <b>Tebuconazole</b> 1.25 gm/1 kg seed. Apply Single Super Phosphate 312 kg, Ammonium sulphate 125 kg and Castor cake 250 kg/ha OR DAP 108 kg, Gypsum 250 kg and castor cake 250 kg/ha as basal.
<b>Summer Sesame</b>	Preparation for sowing	G.Til-2, G.Til-3	<b>Procure good quality seeds of sesame</b> and carry out sowing of summer SESAME as minimum and maximum temperature rises up to 19 °C and 30°C, respectively and give seed treatment of vitavax (Carboxin 37.5% +

			Thiram 37.5%) or mencozeb or carbendazim 2-3 gm/1 kg seed. Apply Single Super Phosphate 156 kg and 55 kg urea/ha, OR DAP 54 kg and 33 kg urea/ha as basal.
<b>Garlic</b>	Girthing	Thrips and aphid  leaf blight (yellowing) 	<b>For thrips&amp;aphid control spray neem seed extract 5% and make alternative sprays of profenofos 20 ml and lambda-cyhalothrin 14 ml with imidacloprid 17.8 % EC 5 ml in 10 liters of water.</b>  <b>To prevent leaf blight (yellowing) disease infestation in garlic spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure.</b> <b>Do not over irrigate to prevent leaf yellowing disease.</b>
<b>Chick pea</b>	Flowering/pod formation	Monitor the crop regularly for prodenia and heliothes infestation 	Under present weather condition heliothes infestation observed in chickpea. So, Monitor the crop regularly for heliothes and prodenia infestation. <ul style="list-style-type: none"> <li>• “T” shaped bird perches in and around crop field to be installed for natural controlling the insect population.</li> <li>• Spray <b>neem seed extract</b> 5 % or neem seed oil 50 ml in 10 liters of water.</li> <li>• If infestation cross ETL spray 3 ml <b>Spinosad</b> in 10 liters of water.</li> <li>• <b>Also to prevent blight disease infestation spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure.</b></li> <li>• Irrigate gram crop at flowering stage.</li> </ul>

<p><b>Cumin</b></p>	<p>Flowering/grain formation</p>	<p><b>Aphid and thrips</b></p> <p><b>Blight and Powery mildew</b></p>  <p><b>Wilt</b></p> 	<p>Under present weather condition attack of thrips and aphids has been reported spray <b>Acetamiprid 5 gm or imidacloprid 17.8 % 5 ml/10</b> liters of water.</p> <p>Under present weather condition spray <b>tebuconazole</b> 10 ml/10 liters of water to prevent blight and powdery mildew infestation.</p>  <p>Stop irrigation to prevent further infection in standing crop.</p> 
<p><b>Coriander</b></p>	<p>Flowering/grain formation</p>	<p>Thrips and Jassids</p>	<p>To control sucking pest spray <b>neem seed extract</b> 5 % or neem seed oil 50 ml and 15 gm <b>Acepahte</b> in 10 litres of water.</p> <p><b>Under present weather condition spray Hexaconazole 15 ml/10 liters of water to prevent blight and powdery mildew infestation.</b></p>
<p><b>Wheat</b></p>	<p>Flowering/milking</p>	<p>-</p>	<p>Apply irrigation at critical stage without stress.</p>
<p><b>Cotton</b></p>	<p>Picking &amp; pulling of cotton stalk</p>	<p>Heavy aatack of pink boll worm observed in cotton field. Carry out picking in time.</p> <p><b>Animals like goats, sheep among others, should be allowed to graze on unopened bolls and plant debris in the cotton fields after the last picking to prevent infestation of pink boll worm in subsequent year. After grazing don't burn cotton stalksbut, recycle the stalk by thedoin situ chopping &amp; burying of cotton stalk in soil by mobile chopper and rotavator or make compost from the cotton residues to improve soil biomass and health.</b></p>	

			
<b>Castor</b>	Capsule formation/development	Jassids & white fly →  Pod borer	<p><b>Spray Acetamiprid 20 % SP @ 5.0 gm</b> or <b>Imidacloprid 30.5 % 3 ml</b> with <b>neem seed extract 500 ml</b> or neem oil 40 ml / 10 lit of water.</p> <p><b>For the control of pod borer spray chlorantraniliprole 18.5 % SC 3.0 ml or DDVP 7 ml/10 litre of water is advised against fruit borer.</b></p>
Pigeon pea	Flowering/pod formation/development	Pod fly	<ul style="list-style-type: none"> <li>• Spray <b>neem seed extract 5 %</b> or neem seed oil 50 ml in 10 litres of water.</li> <li>• If infestation cross ETL spray 20 ml <b>Quinalphos</b> or 5 ml <b>Dichlorvos</b> in 10 litres of water.</li> </ul>
<b>Onion</b>	TP/Growth	Thrips  Leaf blight → 	<p><b>For thrips control spray neem seed extract 5% and Make alternative sprays of profenofos 20 ml and lambda-cyhalothrin 14 ml in 10 liters of water at 10 days interval.</b></p> <p>Make alternate spray of <b>Mencozeb 25 gm</b> and <b>Carbendazim 10gm</b> in 10 liters of water at 10 days interval.</p>
<b>Brinjal &amp; Tomato</b>	Flowering/fruiting	<p><b>Sucking pest</b> →</p> <p><b>Shoot &amp; Fruit borer</b></p>  <p><b>Mites</b></p>	<p><b>Monitor the crop for infestation of jassid &amp; white fly in brinjal, if require spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with diafenthiuron 50 % wp @ 16 gm / 10 lit of water.</b></p> <p><b>In brinjal and tomato constant monitoring of borers by using pheromone traps 4-6 per acre is advised, If insect population is above ETL than spraying of chlorantraniliprole 18.5 % SC 3.0 ml or DDVP 7 ml/10 litre of water is advised against fruit borer.</b></p> <p><b>If infestation is found, then make spraying of Propargite 57 % EC @ 10 ml/ 10litre of water for the control of Mites under clear sky.</b></p>



<p><b>Chili</b></p>	<p>Flowering &amp; fruiting</p>	<p><b>Thrips</b> →  </p> <p><b>Anthracnose</b> →  </p>	<p><b>Under present weather conditions severe attack of thrips has been reported. Spray Ethion 20 ml with 500 ml of 5 % neem seed extract or neem seed oil 50 ml in 10 litres of water. In case of heavy attack make spray of spinosad or spinetoram 3 ml per 10 liter of water.</b></p> <p>For the control of Anthracnose spray <b>Mencozeb 27gm</b>  OR  Chlorothalonil 27 gram  OR  Fosetyl 20 gm in 10 liters of water at 15 days interval.</p>
<p><b>Lemon</b></p>	<p>Flowering and fruit formation</p>	<p><b>Psylla and thrips</b></p> <p><b>Citrus canker</b></p> <p><b>Leaf minor</b></p>	<p></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><b>Spray copper oxychloride 40 gm or streptocyclin 1.5 gm in 10 litre of water.</b></p> <p><b>Spray Dichlorvos 10 ml or Quinalphos 20 ml in 10 litres of water for control of leaf minor.</b></p>
<p><b>Mango</b></p>	<p>Flowering</p>	<p><b>Blossom midge and Leaf hopper</b> →  </p> <p><b>Powdery Mildew</b> →  </p>	<p>To prevent damage spray <b>imidacloprid 5 ml/10 litres of water.</b></p> <p>Spray 15 gm <b>carbendazim</b> in 10 liters of water to prevent powdery mildew disease in mango.</p>
<p><b>Livestock &amp; poultry</b>  </p>	<p>Spray Deltamethrin or Amitraz 2 ml/litre of water for the control of tick. Carry out Brucella and other infectious &amp; reproductive diseases evaluation. Spray phenyl in the animal shed to avoid flies and mosquitoes.</p> <p><b>Keep young calves indoors during night time to avoid cold stress.</b> Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. Provide ad lib</p>		

	warm water to lactating animals. Keep animal shed hygienic and clean to avoid flies and mosquitoes. For milch animals, regularly follow schedule of 1 kg feed + 50 g mineral mixture per 2 liters of milk yield. Feed animals with a mixture of green grass + hay + minerals + dry feed.
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**Technical Officer, GKMS Unit, DFRS, JAU, Targhadia.**



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**Agro met Advisory Service bulletin No.-88 for the Amreli district**

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

(Period 01 to 05-February- 2020)




**Weather forecast until 08-30 hrs. of 05/02/2020**





**(5) AMRELI DISTRICT:**




	01/02/20	02/02/20	03/02/20	04/02/20	05/02/20
Rainfall (mm)	0	0	0	0	0
Max.Temp.(°C)	28	28	29	30	29
Min.Temp.(°C)	11	12	13	13	12
Total CC (octa)	0	0	0	0	1
RH-I (%)	46	37	41	48	37
RH-II (%)	23	21	28	30	17
Wind Speed (kmph)	20	23	21	17	17
Wind Direction(deg.)	17	34	13	297	51

**Agro meteorological Advisories:**







<b>General Advice</b>	<ul style="list-style-type: none"> <li>• <b>Rain fall: Dry, cold and Mainly clear to clear weather forecasted next five days.</b></li> <li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 28-30°C and 11-13°C, respectively.</li> <li>• <b>Relative Humidity:</b> The RH-I and RH-II is likely to be in the range of 37-48% &amp; 17-30, respectively.</li> <li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be N, NE, NW and 17-23 km/h, respectively.</li> </ul>		
<b>Crops</b>	<b>Stage</b>	<b>Insect/Pest/Variety</b>	<b>Advisory</b>
<b>Summer Groundnut</b>	Sowing	TAG-24,TG-37-A, TPG-41,GG-2, GJG-31	Carry out sowing of summer groundnut as temperature rises to 22-25° C and give seed treatment of <b>Tebuconazole</b> 1.25 gm/1 kg seed. Apply Single Super Phosphate 312 kg, Ammonium sulphate 125 kg and Castor cake 250 kg/ha OR DAP 108 kg, Gypsum 250 kg and castor cake 250 kg/ha as basal.
<b>Summer Sesame</b>	Preparation for sowing	G.Til-2, G.Til-3	<b>Procure good quality seeds of sesame</b> and carry out sowing of summer SESAME as minimum and maximum temperature rises up to 19 °C and 30°C, respectively and give seed treatment of vitavax (Carboxin 37.5% +

			Thiram 37.5%) or mencozeb or carbendazim 2-3 gm/1 kg seed. Apply Single Super Phosphate 156 kg and 55 kg urea/ha, OR DAP 54 kg and 33 kg urea/ha as basal.
<b>Garlic</b>	Girthing	<p>Thrips and aphid</p>  <p>leaf blight (yellowing)</p> 	<p><b>For thrips&amp;aphid control spray neem seed extract 5% and make alternative sprays of profenofos 20 ml and lambda-cyhalothrin 14 ml with imidacloprid 17.8 % EC 5 ml in 10 liters of water.</b></p> <p><b>To prevent leaf blight (yellowing) disease infestation in garlic spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure.</b></p> <p><b>Do not over irrigate to prevent leaf yellowing disease.</b></p>
<b>Chick pea</b>	Flowering/pod formation	<p>Monitor the crop regularly for prodenia and heliothes infestation</p> 	<p>Under present weather condition heliothes infestation observed in chickpea. So, Monitor the crop regularly for heliothes and prodenia infestation.</p> <ul style="list-style-type: none"> <li>• “T” shaped bird perches in and around crop field to be installed for natural controlling the insect population.</li> <li>• Spray <b>neem seed extract</b> 5 % or neem seed oil 50 mlin 10 liters of water.</li> <li>• If infestation cross ETL spray 3 ml <b>Spinosad</b> in 10 liters of water.</li> <li>• <b>Also to prevent blight disease infestation spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure.</b></li> <li>• Irrigate gram crop at flowering stage.</li> </ul>

<p><b>Cumin</b></p>	<p>Flowering/grain formation</p>	<p><b>Aphid and thrips</b></p> <p><b>Blight and Powery mildew</b></p>  <p><b>Wilt</b></p> 	<p>Under present weather condition attack of thrips and aphids has been reported spray <b>Acetamiprid 5 gm or imidacloprid 17.8 % 5 ml/10</b> liters of water.</p> <p>Under present weather condition spray <b>tebuconazole</b> 10 ml/10 liters of water to prevent blight and powdery mildew infestation.</p>  <p>Stop irrigation to prevent further infection in standing crop.</p> 
<p><b>Coriander</b></p>	<p>Flowering/grain formation</p>	<p>Thrips and Jassids</p>	<p>To control sucking pest spray <b>neem seed extract</b> 5 % or neem seed oil 50 ml and 15 gm <b>Acepahte</b> in 10 litres of water.</p> <p><b>Under present weather condition spray Hexaconazole 15 ml/10 liters of water to prevent blight and powdery mildew infestation.</b></p>
<p><b>Wheat</b></p>	<p>Flowering/milking</p>	<p>-</p>	<p>Apply irrigation at critical stage without stress.</p>
<p><b>Cotton</b></p>	<p>Picking &amp; pulling of cotton stalk</p>	<p>Heavy aatack of pink boll worm observed in cotton field. Carry out picking in time.</p> <p><b>Animals like goats, sheep among others, should be allowed to graze on unopened bolls and plant debris in the cotton fields after the last picking to prevent infestation of pink boll worm in subsequent year. After grazing don't burn cotton stalksbut, recycle the stalk by thedoin situ chopping &amp; burying of cotton stalk in soil by mobile chopper and rotavator or make compost from the cotton residues to improve soil biomass and health.</b></p>	

			
<b>Castor</b>	Capsule formation/development	Jassids & white fly →  Pod borer	<p><b>Spray Acetamiprid 20 % SP @ 5.0 gm</b> or <b>Imidacloprid 30.5 % 3 ml with neem seed extract 500 ml</b> or neem oil 40 ml / 10 lit of water.</p> <p><b>For the control of pod borer spray chlorantraniliprole 18.5 % SC 3.0 ml or DDVP 7 ml/10 litre of water is advised against fruit borer.</b></p>
Pigeon pea	Flowering/pod formation/development	Pod fly	<ul style="list-style-type: none"> <li>• Spray <b>neem seed extract 5 %</b> or neem seed oil 50 ml in 10 litres of water.</li> <li>• If infestation cross ETL spray 20 ml <b>Quinalphos</b> or 5 ml <b>Dichlorvos</b> in 10 litres of water.</li> </ul>
<b>Onion</b>	TP/Growth	Thrips  Leaf blight → 	<p><b>For thrips control spray neem seed extract 5% and Make alternative sprays of profenofos 20 ml and lambda-cyhalothrin 14 ml in 10 liters of water at 10 days interval.</b></p> <p>Make alternate spray of <b>Mencozeb 25 gm</b> and <b>Carbendazim 10gm</b> in 10 liters of water at 10 days interval.</p>
<b>Brinjal &amp; Tomato</b>	Flowering/fruiting	<p><b>Sucking pest</b> →</p> <p><b>Shoot &amp; Fruit borer</b></p>  <p>Mites</p>	<p><b>Monitor the crop for infestation of jassid &amp; white fly in brinjal, if require spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with diafenthiuron 50 % wp @ 16 gm / 10 lit of water.</b></p> <p><b>In brinjal and tomato constant monitoring of borers by using pheromone traps 4-6 per acre is advised, If insect population is above ETL than spraying of chlorantraniliprole 18.5 % SC 3.0 ml or DDVP 7 ml/10 litre of water is advised against fruit borer.</b></p> <p><b>If infestation is found, then make spraying of Propargite 57 % EC @ 10 ml/ 10litre of water for the control of Mites under clear sky.</b></p>



<p><b>Chili</b></p>	<p>Flowering &amp; fruiting</p>	<p><b>Thrips</b> →  </p> <p><b>Anthracnose</b> →  </p>	<p>Under present weather conditions severe attack of thrips has been reported. Spray Ethion 20 ml with 500 ml of 5 % neem seed extract or neem seed oil 50 ml in 10 litres of water. In case of heavy attack make spray of spinosad or spinetoram 3 ml per 10 liter of water.</p> <p>For the control of Anthracnose spray Mencozeb 27gm OR Chlorothalonil 27 gram OR Fosetyl 20 gm in 10 liters of water at 15 days interval.</p>
<p><b>Lemon</b></p>	<p>Flowering and fruit formation</p>	<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 imidacloprid 30.5 % 5 ml / 10 lit of water ml/10 lit of water.</p> <p><b>Spray copper oxychloride 40 gm or streptocyclin 1.5 gm in 10 litre of water.</b></p> <p><b>Spray Dichlorvos 10 ml or Quinalphos 20 ml in 10 litres of water for control of leaf minor.</b></p>
<p><b>Mango</b></p>	<p>Flowering</p>	<p><b>Blossom midge and Leaf hopper</b> →  </p> <p><b>Powdery Mildew</b> →  </p>	<p>To prevent damage spray imidacloprid 5 ml/10 litres of water.</p> <p>Spray 15 gm carbendazim in 10 liters of water to prevent powdery mildew disease in mango.</p>
<p><b>Livestock &amp; poultry</b></p> 	<p>Spray Deltamethrin or Amitraz 2 ml/litre of water for the control of tick. Carry out Brucella and other infectious &amp; reproductive diseases evaluation. Spray phenyl in the animal shed to avoid flies and mosquitoes.</p> <p><b>Keep young calves indoors during night time to avoid cold stress.</b> Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. Provide ad lib</p>		

	warm water to lactating animals. Keep animal shed hygienic and clean to avoid flies and mosquitoes. For milch animals, regularly follow schedule of 1 kg feed + 50 g mineral mixture per 2 liters of milk yield. Feed animals with a mixture of green grass + hay + minerals + dry feed.
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**Technical Officer, GKMS Unit, DFRS, JAU, Targhadia.**



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**Agro met Advisory Service bulletin No.-88 for the Surendranagar district**

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

(Period 01 to 05-February- 2020)




**Weather forecast until 08-30 hrs of 05/02/2020**





**(6) SURENDRANAGAR DISTRICT:**




	01/02/20	02/02/20	03/02/20	04/02/20	05/02/20
Rainfall (mm)	0	0	0	0	0
Max.Temp.(°C)	27	27	27	28	27
Min.Temp.(°C)	11	11	12	12	12
Total CC (octa)	0	0	0	0	1
RH-I (%)	42	35	41	42	36
RH-II (%)	24	18	25	29	17
Wind Speed (kmph)	16	17	15	15	18
Wind Direction(deg.)	20	50	35	189	76

**Agro meteorological advisories:**







<b>General Advice</b>	<ul style="list-style-type: none"> <li>• <b>Rain fall: Dry, cold and Mainly clear to clear weather forecasted next five days.</b></li> <li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 27-28°C and 11-12°C, respectively.</li> <li>• <b>Relative Humidity:</b> The RH-I and RH-II is likely to be in the range of 35-42% &amp; 17-29, respectively.</li> <li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be N, NE, S, E and 15-18 km/h, respectively.</li> </ul>		
<b>Crops</b>	<b>Stage</b>	<b>Insect/Pest/Variety</b>	<b>Advisory</b>
<b>Summer Groundnut</b>	Sowing	TAG-24, TG-37-A, TPG-41, GG-2, GJG-31	Carry out sowing of summer groundnut as temperature rises to 22-25° C and give seed treatment of <b>Tebuconazole</b> 1.25 gm/1 kg seed. Apply Single Super Phosphate 312 kg, Ammonium sulphate 125 kg and Castor cake 250 kg/ha OR DAP 108 kg, Gypsum 250 kg and castor cake 250 kg/ha as basal.
<b>Summer Sesame</b>	Preparation for sowing	G.Til-2, G.Til-3	<b>Procure good quality seeds of sesame</b> and carry out sowing of summer SESAME as minimum and maximum temperature rises up to 19 °C and 30°C, respectively and

			give seed treatment of vitavax (Carboxin 37.5% + Thiram 37.5%) or mencozeb or carbendazim 2-3 gm/1 kg seed. Apply Single Super Phosphate 156 kg and 55 kg urea/ha, OR DAP 54 kg and 33 kg urea/ha as basal.
<b>Garlic</b>	Girthing	Thrips and aphid  leaf blight (yellowing) 	<b>For thrips&amp;aphid control spray neem seed extract 5% and make alternative sprays of profenofos 20 ml and lambda-cyhalothrin 14 ml with imidacloprid 17.8 % EC 5 ml in 10 liters of water.</b>  <b>To prevent leaf blight (yellowing) disease infestation in garlic spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure.</b> <b>Do not over irrigate to prevent leaf yellowing disease.</b>
<b>Chick pea</b>	Flowering/pod formation	Monitor the crop regularly for prodenia and heliothes infestation 	Under present weather condition heliothes infestation observed in chickpea. So, Monitor the crop regularly for heliothes and prodenia infestation. <ul style="list-style-type: none"> <li>• “T” shaped bird perches in and around crop field to be installed for natural controlling the insect population.</li> <li>• Spray <b>neem seed extract</b> 5 % or neem seed oil 50 ml in 10 liters of water.</li> <li>• If infestation cross ETL spray 3 ml <b>Spinosad</b> in 10 liters of water.</li> <li>• <b>Also to prevent blight disease infestation spray Mencozeb 27 gm in 10 liters of water at 10 days interval as precautionary measure.</b></li> <li>• Irrigate gram crop at flowering stage.</li> </ul>

<p><b>Cumin</b></p>	<p>Flowering/grain formation</p>	<p><b>Aphid and thrips</b></p> <p><b>Blight and Powery mildew</b></p>  <p><b>Wilt</b></p> 	<p>Under present weather condition attack of thrips and aphids has been reported spray <b>Acetamiprid 5 gm or imidacloprid 17.8 % 5 ml/10</b> liters of water.</p> <p>Under present weather condition spray <b>tebuconazole</b> 10 ml/10 liters of water to prevent blight and powdery mildew infestation.</p>  <p>Stop irrigation to prevent further infection in standing crop.</p> 
<p><b>Coriander</b></p>	<p>Flowering/grain formation</p>	<p>Thrips and Jassids</p>	<p>To control sucking pest spray <b>neem seed extract</b> 5 % or neem seed oil 50 ml and 15 gm <b>Acepahte</b> in 10 litres of water.</p> <p><b>Under present weather condition spray Hexaconazole 15 ml/10</b> liters of water to prevent blight and powdery mildew infestation.</p>
<p><b>Wheat</b></p>	<p>Flowering/milking</p>	<p>-</p>	<p>Apply irrigation at critical stage without stress.</p>
<p><b>Cotton</b></p>	<p>Picking &amp; pulling of cotton stalk</p>	<p>Heavy aatack of pink boll worm observed in cotton field. Carry out picking in time.</p> <p><b>Animals like goats, sheep among others, should be allowed to graze on unopened bolls and plant debris in the cotton fields after the last picking to prevent infestation of pink boll worm in subsequent year. After grazing don't burn cotton stalksbut, recycle the stalk by thedoin situ chopping &amp; burying of cotton stalk in soil by mobile chopper and rotavator or make compost from the cotton residues to improve soil biomass and health.</b></p>	

			
<b>Castor</b>	Capsule formation/development	Jassids & white fly →  Pod borer	<p><b>Spray Acetamiprid 20 % SP @ 5.0 gm</b> or <b>Imidacloprid 30.5 % 3 ml</b> with <b>neem seed extract 500 ml</b> or neem oil 40 ml / 10 lit of water.</p> <p><b>For the control of pod borer spray chlorantraniliprole 18.5 % SC 3.0 ml or DDVP 7 ml/10 litre of water is advised against fruit borer.</b></p>
Pigeon pea	Flowering/pod formation/development	Pod fly	<ul style="list-style-type: none"> <li>• Spray <b>neem seed extract 5 %</b> or neem seed oil 50 ml in 10 litres of water.</li> <li>• If infestation cross ETL spray 20 ml <b>Quinalphos</b> or 5 ml <b>Dichlorvos</b> in 10 litres of water.</li> </ul>
<b>Onion</b>	TP/Growth	Thrips  Leaf blight → 	<p><b>For thrips control spray neem seed extract 5% and Make alternative sprays of profenofos 20 ml and lambda-cyhalothrin 14 ml in 10 liters of water at 10 days interval.</b></p> <p>Make alternate spray of <b>Mencozeb 25 gm</b> and <b>Carbendazim 10gm</b> in 10 liters of water at 10 days interval.</p>
<b>Brinjal &amp; Tomato</b>	Flowering/fruiting	<p><b>Sucking pest</b> →</p> <p><b>Shoot &amp; Fruit borer</b></p>  <p>Mites</p>	<p><b>Monitor the crop for infestation of jassid &amp; white fly in brinjal, if require spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with diafenthiuron 50 % wp @ 16 gm / 10 lit of water.</b></p> <p><b>In brinjal and tomato constant monitoring of borers by using pheromone traps 4-6 per acre is advised, If insect population is above ETL than spraying of chlorantraniliprole 18.5 % SC 3.0 ml or DDVP 7 ml/10 litre of water is advised against fruit borer.</b></p> <p><b>If infestation is found, then make spraying of Propargite 57 % EC @ 10 ml/ 10litre of water for the control of Mites under clear sky.</b></p>



<p><b>Chili</b></p>	<p>Flowering &amp; fruiting</p>	<p><b>Thrips</b> →  </p> <p><b>Anthracnose</b> →  </p>	<p>Under present weather conditions severe attack of thrips has been reported. Spray Ethion 20 ml with 500 ml of 5 % neem seed extract or neem seed oil 50 ml in 10 litres of water. In case of heavy attack make spray of spinosad or spinetoram 3 ml per 10 liter of water.</p> <p>For the control of Anthracnose spray Mencozeb 27gm OR Chlorothalonil 27 gram OR Fosetyl 20 gm in 10 liters of water at 15 days interval.</p>
<p><b>Lemon</b></p>	<p>Flowering and fruit formation</p>	<p><b>Psylla and thrips</b></p> <p><b>Citrus canker</b></p> <p><b>Leaf minor</b></p>	<p></p> <p>To prevent damage of psylla&amp;thrips spray imidacloprid 30.5 % 5 ml / 10 lit of water ml/10 lit of water.</p> <p><b>Spray copper oxychloride 40 gm or streptocyclin 1.5 gm in 10 litre of water.</b></p> <p><b>Spray Dichlorvos 10 ml or Quinalphos 20 ml in 10 litres of water for control of leaf minor.</b></p>
<p><b>Mango</b></p>	<p>Flowering</p>	<p><b>Blossom midge and Leaf hopper</b> →  </p> <p><b>Powdery Mildew</b> →  </p>	<p>To prevent damage spray imidacloprid 5 ml/10 litres of water.</p> <p>Spray 15 gm carbendazim in 10 liters of water to prevent powdery mildew disease in mango.</p>
<p><b>Livestock &amp; poultry</b></p> 	<p>Spray Deltamethrin or Amitraz 2 ml/litre of water for the control of tick. Carry out Brucella and other infectious &amp; reproductive diseases evaluation. Spray phenyl in the animal shed to avoid flies and mosquitoes.</p> <p><b>Keep young calves indoors during night time to avoid cold stress.</b> Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. Provide ad lib</p>		

	warm water to lactating animals. Keep animal shed hygienic and clean to avoid flies and mosquitoes. For milch animals, regularly follow schedule of 1 kg feed + 50 g mineral mixture per 2 liters of milk yield. Feed animals with a mixture of green grass + hay + minerals + dry feed.
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