



ગ્રામીણ કૃષિ મૌસમ સેવા  
હવામાન આગાહી આધારીત કૃષિસલાહ બુલેટીન  
ઉતર સૌરાષ્ટ્રખેત આબોહવાકીય વિભાગ  
તા.૨૩-૦૪-૨૦૨૦ થી તા.૨૭-૦૫-૨૦૨૦



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

કૃષિ હવામાન બુલેટીન નં. ૧૬/૨૦૨૦

પાછલા અઠવાડીયાનું રાજકોટનું હવામાન

હવામાન પરિબળો	
વરસાદ(મી.મી)	0.0
મહત્તમ તાપમાન( સે.ગ્રે)	38.5-43.2
લઘુતમ તાપમાન( સે.ગ્રે)	24.4-26.4
ભેજ (%)સવાર	56-80
ભેજ (%)બપોરબાદ	19-41
પવનની ગતિ( કિમી/કલાક)	6.4-11.4

હવામાન આગાહી :પત્રક-ક

ઉતરસૌરાષ્ટ્ર ખેત આબોહવાકીય વિભાગ-હવામાન આગાહી

તા.૨૩-૦૫-૨૦૨૦ થી ૨૭-૦૫-૨૦૨૦

કૃષિ સલાહ :

સામાન્ય	ભારત સરકારશ્રીના હવામાન ખાતા તરફથી મળેલ હવામાન માહિતી અનુસાર અત્રેના ગ્રામીણકૃષિ મૌસમ સેવા વિભાગ, જુનાગઢ કૃષિ યુનિવર્સિટી, તરઘડીયા તરફથી જણાવવામાં આવે છે કે, ઉતર સૌરાષ્ટ્ર ખેત આબોહવાકીય વિસ્તારના					
	<b>રાજકોટ :</b> જીલ્લામાં આગામી તા.૨૩-૦૫-૨૦૨૦ થી તા.૨૭-૦૫-૨૦૨૦ દરમ્યાન હવામાન સૂકું, ગરમ અને યોખ્ખું રહેશે. તા. ૨૩ ના રોજ મુખત્વે વાદળછાયું રહેશે. પવનની દિશા પશ્ચિમની રહેવાની અને પવનની ઝડપ ૧૯ થી ૨૮ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૪૩-૪૩ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુતમ તાપમાન રાત્રી દરમ્યાન ૨૬-૨૬ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.					
	તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
	પેરામીટર	૨૩-૦૫-૨૦	૨૪-૦૫-૨૦	૨૫-૦૫-૨૦	૨૬-૦૫-૨૦	૨૭-૦૫-૨૦
	વરસાદ(મી.મી.)	0	0	0	0	0
	મહત્તમતાપમાન( સે.ગ્રે)	43	43	43	43	43
	લઘુતમતાપમાન( સે.ગ્રે)	26	26	26	26	26
	વાદળનીસ્થિતિ( ઓકટા)	2	0	0	0	0

મહતમભેજ (%)સવાર	59	67	71	72	70
લઘુતમભેજ (%) બપોરબાદ	13	18	21	22	23
પવનનીગતિ(કિમી/કલાક)	19	21	23	25	28
પવનનીદિશા(ડીગ્રી)	259	271	266	269	267

**મોરબી :** જીલ્લામાં આગામી તા.૨૩-૦૫-૨૦૨૦ થી તા.૨૭-૦૫-૨૦૨૦ દરમ્યાન હવામાન સુકું, ગરમ અને મુખત્વે વાદળછાયું રહેશે. પવનની દિશા પશ્ચિમની રહેવાની અને પવનની ઝડપ ૧૦ થી ૨૦ કીમી/કલાક રહેવાની શક્યતા છે . આ સમય ગાળામાં મહતમ તાપમાન દિવસ દરમ્યાન ૪૩-૪૩ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુતમ તાપમાન રાત્રી દરમ્યાન ૨૬-૨૬ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૨૩-૦૫-૨૦	૨૪-૦૫-૨૦	૨૫-૦૫-૨૦	૨૬-૦૫-૨૦	૨૭-૦૫-૨૦
વરસાદ(મી.મી.)	0	0	0	0	0
મહતમતાપમાન( સે.ગ્રે)	43	43	43	43	43
લઘુતમતાપમાન( સે.ગ્રે)	26	26	26	26	26
વાદળનીસ્થિતિ( ઓકટા)	1	1	0	0	0
મહતમભેજ (%)સવાર	38	44	45	43	52
લઘુતમભેજ (%) બપોરબાદ	11	9	11	13	14
પવનનીગતિ(કિમી/કલાક)	13	10	10	13	20
પવનનીદિશા(ડીગ્રી)	267	266	260	256	257

**જામનગર:** જીલ્લામાં આગામી તા.૨૩-૦૫-૨૦૨૦ થી તા.૨૭-૦૫-૨૦૨૦ દરમ્યાન હવામાન સુકું, ગરમ અને યોખ્ખું રહેશે. તા. ૨૩ ના રોજ મુખત્વે વાદળછાયું રહેશે. પવનની દિશા પશ્ચિમની રહેવાની અને પવનની ઝડપ ૨૦ થી ૨૭ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહતમ તાપમાન દિવસ દરમ્યાન ૪૧-૪૨ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુતમ તાપમાન રાત્રી દરમ્યાન ૨૭-૨૮ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૨૩-૦૫-૨૦	૨૪-૦૫-૨૦	૨૫-૦૫-૨૦	૨૬-૦૫-૨૦	૨૭-૦૫-૨૦
વરસાદ(મી.મી.)	0	0	0	0	0
મહતમતાપમાન( સે.ગ્રે)	42	41	41	41	41
લઘુતમતાપમાન( સે.ગ્રે)	27	27	27	28	28
વાદળનીસ્થિતિ( ઓકટા)	2	0	0	0	0
મહતમભેજ (%)સવાર	77	81	83	82	80
લઘુતમભેજ (%) બપોરબાદ	37	44	50	50	51
પવનનીગતિ(કિમી/કલાક)	20	21	24	25	27
પવનનીદિશા(ડીગ્રી)	252	270	265	271	270

**દેવભૂમિ દ્વારકા:** જીલ્લામાં આગામી તા.૨૩-૦૫-૨૦૨૦ થી તા.૨૭-૦૫-૨૦૨૦ દરમ્યાન હવામાન સુકું,

ગરમ અને યોખ્ખું રહશે. તા. ૨૩ ના રોજ મુખત્વે વાદળછાયું રહશે. પવનની દિશા પશ્ચિમની રહેવાની અને પવનની ઝડપ ૧૮ થી ૨૫ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૩૩-૩૪ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન ૨૮-૨૯ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૨૩-૦૫-૨૦	૨૪-૦૫-૨૦	૨૫-૦૫-૨૦	૨૬-૦૫-૨૦	૨૭-૦૫-૨૦
વરસાદ(મી.મી.)	0	0	0	0	0
મહત્તમતાપમાન( સે.ગ્રે)	34	33	33	33	33
લઘુત્તમતાપમાન( સે.ગ્રે)	28	28	28	29	29
વાદળનીસ્થિતિ( ઓકટા)	2	0	0	0	0
મહત્તમભેજ (%)સવાર	80	83	85	83	80
લઘુત્તમભેજ (%) બપોરબાદ	32	40	48	47	47
પવનનીગતિ(કિમી/કલાક)	18	18	22	22	25
પવનનીદિશા(ડીગ્રી)	248	268	264	272	271

અમરેલી :જીલ્લામાં આગામી તા.૨૩-૦૫-૨૦૨૦ થી તા.૨૭-૦૫-૨૦૨૦ દરમ્યાન હવામાન સુકું, ગરમ અને મુખત્વે વાદળછાયું રહશે. પવનની દિશા પશ્ચિમની રહેવાની અને પવનની ઝડપ ૧૬ થી ૨૨ કીમી/કલાક રહેની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૪૩-૪૩ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન ૨૬-૨૬ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
પેરામીટર	૨૩-૦૫-૨૦	૨૪-૦૫-૨૦	૨૫-૦૫-૨૦	૨૬-૦૫-૨૦	૨૭-૦૫-૨૦
વરસાદ(મી.મી.)	0	0	0	0	0
મહત્તમતાપમાન( સે.ગ્રે)	43	43	43	43	43
લઘુત્તમતાપમાન( સે.ગ્રે)	26	26	26	26	26
વાદળનીસ્થિતિ( ઓકટા)	1	1	0	0	0
મહત્તમભેજ (%)સવાર	57	61	65	67	70
લઘુત્તમભેજ (%) બપોરબાદ	19	20	22	23	24
પવનનીગતિ(કિમી/કલાક)	16	19	19	20	22
પવનનીદિશા(ડીગ્રી)	279	290	287	281	273

સુરેન્દ્રનગર :જીલ્લામાં આગામી તા.૨૩-૦૫-૨૦૨૦ થી તા.૨૭-૦૫-૨૦૨૦ દરમ્યાન હવામાન સુકું, ગરમ અને યોખ્ખું રહશે. તા. ૨૩ ના રોજ મુખત્વે વાદળછાયું રહશે. પવનની દિશા પશ્ચિમની રહેવાની અને પવનની ઝડપ ૨૦ થી ૨૮ કીમી/કલાક રહેવાની શક્યતા છે. આ સમય ગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૪૩-૪૩ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન ૨૯-૨૯ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.

તારીખ	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫
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પેરામીટર	૨૩-૦૫-૨૦	૨૪-૦૫-૨૦	૨૫-૦૫-૨૦	૨૬-૦૫-૨૦	૨૭-૦૫-૨૦
વરસાદ(મી.મી.)	0	0	0	0	0
મહત્તમતાપમાન( સે.ગ્રે)	43	43	43	43	43
લઘુત્તમતાપમાન( સે.ગ્રે)	29	29	29	29	29
વાદળનીસ્થિતિ( ઓકટા)	2	0	0	0	0
મહત્તમભેજ (%)સવાર	52	61	63	69	65
લઘુત્તમભેજ (%) બપોરબાદ	14	18	19	21	23
પવનનીગતિ(કિમી/કલાક)	20	22	23	27	28
પવનનીદિશા(ડીગ્રી)	264	274	269	267	266

- ૨૩ થી ૨૭-મે -૨૦૨૦ દરમ્યાન હવામાન સુકું, ગરમ અને મોટાભાગે ચોખ્ખું રહેશે. પવનની દિશા પશ્ચિમની મોટાભાગે રહેવાની અને પવનની ઝડપ ૧૦ થી ૨૮ કીમી/કલાક રહેવાની શક્યતા છે. આ સમયગાળામાં મહત્તમ તાપમાન દિવસ દરમ્યાન ૩૩-૪૩ ડીગ્રી સેલ્શીયસ જેટલું તેમજ લઘુત્તમ તાપમાન રાત્રી દરમ્યાન ૨૬-૨૯ ડીગ્રી સેલ્શીયસ જેટલું રહેવાની સંભાવના છે.
- કોરોના વાયરસને ફેલાતો અટકાવવા બીનજરૂરી અવર જવર ટાળવી, કોઈપણ સંજોગોમાં સમુહમાં ભેગા થવું નહિ, ટોળે વળીને બેસવું નહિ.
- વારંવાર સાબુથી હાથ ધોવા અને પછી જ આંખ, કાન અને મોને અડકવું.
- મોં પર કપડું (માસ્ક) બાંધી રાખવું, છોંક અને ઉધરસ વખતે મો અને નાક આડે રૂમાલ અવશ્ય રાખવો.
- કાપણી, શ્રેશિંગ અને અન્ય ખેતી વિષયક કામગીરી દરમ્યાન સામાજીક અંતર (બે વ્યક્તિ વચ્ચે ૬ થી ૭ ફૂટ અંતર) જાળવવું તેમજ ભોજન અને આરામના સમયે અલગ અલગ દુર બેસવું.
- ખેત ઓજારોની આપ-લે દરમ્યાન ઓજારોને સાબુના પાણીથી સાફ કર્યા બાદ જ એક બીજાને આપવા અને ઉપયોગમાં લેવા.
- શરદી, ઉધરસ, કફ અને તાવ જેવું લાગે તો નજીકના આરોગ્ય કેન્દ્રનો સંપર્ક સાધવો.
- 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.
- આગામી તા. ૨૮ થી ૩૧ મે દરમ્યાન હવામાન ચોખ્ખું, સુકું અને ગરમ રહેશે.
- આ હવામાન પરિસ્થિતિમાં ઉનાળુ શાકભાજી, તલ, અને ઘાસચારાના પાકોને સવારે અથવા સાંજના સમયે જરૂરીયાત મુજબ હળવું પિયત આપવું.
- આકરા તાપમાં બપોરના સમયે બહાર નીકળવું નહિ, પુષ્કળ પાણી પીવું, હલકા સુતરાઉ કપડા પહેરવા અને માથા પર ટોપી પહેરવી.
- તેમજ પશુઓને બપોરના સમયે વૃક્ષોના છાયામાં અથવા શેડમાં રાખવા.
- હવામાન વિભાગની આગાહી મુજબ આગામી ચોમાસામાં લાંબા ગાળાની સરેરાશનો ૯૬-૧૦૪ ટકા વરસાદ થવાની શક્યતા હોય તે મુજબ ચોમાસું પાકોના વાવેતરનું આયોજન કરવું.
- આગામી ચોમાસું માટે પસંદગીના પાક માટેનું બિયારણ, જરૂરી ખાતર અને દવા સમયસર મેળવી લેવું. ખાનગી કં./અન્ય પાસેથી ખરીદેલ બીજનો ઉગાવો થોડું સેમ્પલ લઈ ચકાસી લેવો.

મુખ્ય પાક	પાક અવસ્થા	રોગ/જીવાત/જાત	કૃષિ સલાહ (૧૦ લીટરપાણીમાં મિશ્ર કરી ભલામણ કરેલ દવા છાંટવી )
ખાતરની ખાડ	પાકું ખાતર પલટાવવું	-	પશુઓના મળમૂત્ર અને ખેત કચરામાંથી પૂર્ણ સદી ગયેલ ખાતરને ખાત્રાંથી બહાર કાઢવું. 
ઉનાળુ મગફળી	ડોડવામાં દાણા ભરાવા	-	• પરિપક્વ અવસ્થાએ સમયસર કાપણી કરવી.
ઉનાળુ તલ	બેઢાંમાં દાણા ભરાવવા અને દેહધાર્મિક પરિપક્વ અવસ્થા	-	➤ પરિપક્વ અવસ્થાએ સમયસર કાપણી કરવી.
ઉનાળુ મગ અને અડદ	શીંગમાં દાણા ભરાવવા અને દેહધાર્મિક પરિપક્વ અવસ્થા	-	પરિપક્વ અવસ્થાએ સમયસર કાપણી કરવી.
ચોમાસું મગફળી	આગોતરું વાવેતર	જીજી-૨૨, જીજી-૨૦, જીજી-૧૧	ચોમાસું મગફળીનાં આગોતરા વાવેતર માટે જમીનની તૈયારી કરવી અને સેન્દ્રિય ખાતર ઉમેરવું. વાવેતર સમયે સિંગલ સુપર ફોસ્ફેટ ૧૫૬ કી.ગ્રા./હે., એમોનીયમ સલ્ફેટ ૬૨ કી.ગ્રા./હે., અને એરંડીનો ખોળ ૫૦૦ કી.ગ્રા./હે. અથવા ડી.એ.પી. ૫૪ કી.ગ્રા. અને જીપ્સમ ૫૦૦ કી.ગ્રા./હે. સાથે એરંડીનો ખોળ ૫૦૦ કી.ગ્રા./હે. પાયામાં આપવો.
	વરસાદ આધારીત	અર્ધ વેલડી જીજી-૨૦, જીજી-૨૨ ઉલડી -જીજી-૨, જીજીજી-૩૨, ટીજી-૫૧ ટીએજી-૨૪, ટીએલજી-૪૫, ટીપીજી-૪૧, ટીજી-૩૭-એ	તેમજ ૨.૫ કી.ગ્રા./હે ટ્રાયકોડર્મા ફૂગનો પાઉડર ૫૦૦ કી.ગ્રા./હે એરંડીનાં ખોળ સાથે મિશ્ર કરી પાયામાં વાવણી સમયે આપવો. વાવતી વખતે બિયારણને થાયરમ અથવા મેન્કોઝેબ અથવા વાયટાવેક્ષ દવાનો ૨-૩ ગ્રામ/કી. બીજને પટ આપવો. મગફળીમાં સફેદ મુંડાનાં નિયંત્રણ માટે ક્લોરોપાયરીફોસ ૨૦ % ઈસી દવાનો ૨૫ મિલી ૧ કી.ગ્રા. બીજને વાવેતર પહેલા પટ આપવો.

કપાસ	-	કપાસ બોલગાર્ડ-૨ ની પ્રમાણિત જાતો જેવી કે વહેલી પાકતી જાતો : ગુજરાત શંકર-૮, એટીએમ, ફર્સ્ટ ક્લાસ, ૭૫૭૬, વી-૩૩૩, જાદુ, જય, સરજુ, સુરક્ષા, બળવાન, ભક્તિ, ભદ્રા, આરસીએચ-૭૭૯ મધ્યમ મોડી પાકતી જાતો : ગુજરાત શંકર-૬, એગ્રીટોપ-૪૪૪, એગ્રીટોપ-૭૭૭, સોલાર-૭૬, મલ્લિકા, આરસી એચ-૬૫૯, અજીત-૧૫૫	કપાસના પાકમાં ગુલાબી ઈયળનો ઉપદ્રવ નાં થાય તે માટે ઓરવીને આગોતરું વાવેતર કરવું નહિ. વાવણી લાયક વરસાદ થયે સમયસર વાવેતર કરવું. કપાસના પાકમાં ઈયળોમાં બીટી જીન સામે પ્રતિકારક શક્તિ ના આવે તે માટે બિયારણના પેકેટ સાથે આપવામાં આવતું નોનબીટી (રેફ્યુઝી) બીજનું વાવેતર અવશ્ય કરવું. • અનિયમિત વરસાદનું જોખમ ઓછું કરવા કપાસના પાકમાં તલ, મગફળી, સોયાબીન, કઠોળ જેવા પાકોનું આંતર પાક તરીકે વાવેતરનું આયોજન કરવું.
તલ	પાક અને જાતની પસંદગી	ગુજરાત તલ-૨, ગુજરાત તલ-૩, અને ગુજરાત તલ-૫	
બાજરી	પાક અને જાતની પસંદગી	જીએચબી-૫૫૮ જીએચબી-૫૩૮, જીએચબી-૫૭૭, જીએચબી-૭૧૯, જીએચબી-૭૩૨ અને જીએચબી-૭૪૪	
કઠોળ પાકો	પાક અને જાતની પસંદગી	ચોમાસું કઠોળ પાકો માટે મગની ગુજરાત મગ-૪, કે-૮૫૧, ગુજરાત આણદ મગ-૫ અને અડદની ગુજરાત અડદ-૧, ૨ ચોળા માટે - ગુજરાત ચોળા-૧, ૨, ૪, પૂસા ફાલ્ગુની, તુવેર માટે બીડીએન-૨, ગુજરાત તુવેર - ૧૦૦, ગુજરાત તુવેર હાઈબ્રીડ-૧, પૈકી પસંદગીની જાતોનું સારી ગુણવત્તાનું પ્રમાણિત બીજ સમયસર મેળવી લેવું.	
સરગવો	ફૂલ/શીંગ	ફૂલ અને પાન ખાનાર ઈયળ	સરગવામાં ફૂલ અને પાન ખાનાર ઈયળના નિયંત્રણ માટે લીબોળીનું તેલ એઝાદીરેક્ટીન ૧૫૦૦ પીપીએમ ૫૦ મીલી અથવા લીબોળીના મીજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી/ ૧૦ લી.પાણીમાં મિશ્ર કરી છંટકાવ કરવો. તેમજ પુખ્ત કીટકના નિયંત્રણ માટે પ્રતિ હેક્ટર પ્રકાશ પિંજર

			<p>મુકવા.</p> <p>વધુ ઉપદ્રવ હોય તો મેલાથીયોન ૫૦ ઈસી ૨૦ મિલી/ ૧૦ લી.પાણીમાં મિશ્ર કરી છંટકાવ કરવો.</p>
ભીંડા	ફૂલ/ફળ	પાન કથીરી	<p>ગરમ હવામાનના કારણેભીંડામાં જો પાન કથીરીનો ઉપદ્રવ હોય તો ઇથીઓન ૩૦ મિલી પ્રતિ પંપ છંટકાવ કરવો.</p> <p>ગરમ હવામાનને કારણે ભીંડામાં સવાર અથવા સાંજના સમયે ટૂંકા અંતરે ફાળવું પિયત આપવું.</p> <p>ભીંડામાં શીઝોની વીણી કર્યા બાદ ૧૫-૨૦ કી.ગ્રા. યુરિઆ ખાતર પ્રતિ હેક્ટર આપવું.</p>
તુરીયા, દૂધી, ગલકા, કારેલા, ગુવાર, કાકડી, તરબુચ	ફૂલ/ફળ	શ્રીપ્સ/ સફેદ માખી  કથીરી  તળછારો	<p>ઉનાળુ શાકભાજીમાં સફેદમાખીના નિયંત્રણ માટે લીબોળીનું તેલ ૫૦ મિલિ અથવા લીબોળીના મીજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મીલી અને ઇમીડાક્લોપ્રીડ ૩૦.૫ ટકા ૪ મિલી અથવા એસીટેમાપ્રીડ ૨૦ ટકા ૫ ગ્રામ દવાને ૧૦ લીટર પાણીમાં મિશ્ર કરીને છંટકાવ કરવો.</p> <p>જો પાન કથીરીનો ઉપદ્રવ હોય તો ઇથીઓન ૩૦ મિલી પ્રતિ પંપ છાન્કાવ કરવો.</p> <p>વેલાવાળા શાકભાજીમાં તળછારાના નિયંત્રણ માટે મેન્કોઝેબ ૪૦ ગ્રામ પ્રતિ પંપમાં મિશ્ર કરી છંટકાવ કરવો.</p> <p>વેલાવાળા શાકભાજીમાં પરાગનયનની પ્રક્રિયા સારી થાય તે માટે હળવા અને ટુંકા ગાળાના પિયતથી જમીનમાં ભેજ જાળવવો જેથી વધુ ઉત્પાદન મેળવી શકાય.</p>
રીંગણી	ફૂલ/ફળ	સફેદ માખી  ડુંખ અને→ ફળ કોરી ખાનાર ઇયળ  પાન કથીરી	<p>➤ સફેદ માખીના નિયંત્રણ માટે લીબોળીનું તેલ ૫૦ મિલિ અથવા લીબોળીના મીજનું 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.</p> <p>➤ ફળ અને ડોકાની ઇયળોનો 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 પ્રોપરગાઈટ ૫૭ ઈ.સી. ૧૫ મિલી પ્રતિ પંપ છંટકાવ કરવો.</p>
મરચી	વૃદ્ધિ/ફૂલ/ફળ	શ્રીપ્સ	<p>➤ માર્ચીમાં શ્રીપ્સના નિયંત્રણ માટે પ્રોફેનોફોસ ૨૦ મીલી અને લીબોળીનું તેલ ૫૦ મિલી અથવા લીબોળીના મીજનું ૫ ટકા અર્કનું દ્રાવણ ૫૦૦ મિલી ૧૦ લી. પાણીમાં મિશ્ર કરી છંટકાવ કરવો. શ્રીપ્સનો વધુ ઉપદ્રવ હોય તો સ્પીનોસાદ અથવા સ્પીનેટોરમ દવા ૫ મિલી. પ્રતિ પંપ છાંટવી.</p>
લીંબુ	ફળનો વિકાસ	પાન કથીરી	<p>ઊંચા તાપમાનને કારણે લીંબુના બગીચામાં પાન કથીરીનો ઉપદ્રવ</p>

			વધુ હોય તો તેના નિયંત્રણ માટે પ્રોપરગાઈટ દવા ૧૦ મિલી ૧૦ લીટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો. લીંબુના બગીયાને નિયત અંતરે સમયસર પિયત આપવું જેથી ફળ ફાટે નહિ.
આંબો	ફળનો વિકાસ	ફળમાખી	કેરી લખોટી જેવડા કદની થાય ત્યારે ૨ ગ્રામ નેપ્થેલીન એસેટીક એસીડ અને ૨ કી.ગ્રા. યુરીયાને ૧૦૦ લીટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો જેથી કેરીનું ખરણ ઓછું થાય. આંબામાં ફળમાખીના નિયંત્રણ માટે ફેન્થીઓન ૧૦ મિલી અથવા ડીડીવીપી ૪ મિલી અને મીથાયલયુજીનોલ ૧૦ મિલી ૧૦ લીટર પાણીમાં મિશ્ર કરી છંટકાવ કરવો.
પશુ/ મરઘા	તાપમાન વધારે રહેવાના કારણે ઢોરને દિવસના સમયે છાયડામાં રાખવા અને મિનરલ મિક્ચર યુક્ત પીવાના સ્વચ્છ પાણીની વ્યવસ્થા કરવી. દુધાળા પશુઓને ઉનાળામાં ઠંડક આપવા પાણીનો છંટકાવ કરવો. ખોરાકમાં લીલા ચારનું પ્રમાણ વધારવું. શેડ અને મરઘા ઘરની પશ્ચિમ બાજુ ભીના કંતાન બાંધવા જેથી લુ ન લાગે. દુધાળા પશુઓના આઉને ઝીંક ઓક્સાઈડ અથવા બોરિક પાવડરથી બરાબર સાફ કરવું. પશુઓમાં ખરવા મોવાસા, ગળસુંઢો અને ગાંઠીયા તાવના રોગના નિયંત્રણ માટે રસીકરણ કરાવવું. બકરાઓમાં પીપીઆર રોગો માટે રસીકરણ કરવું. ઇતરડીના નિયંત્રણ માટે ડેલ્ટામેથ્રીન અથવા એમીટ્રાઝ ૨ મી.લી. ૧ લીટર પાણીમાં નાખીને છાંટવી. વિટામીન એ તથા ડી પુરકો આપવા ત્યા દાણ/ખોળ સાથે મિનરલ મિક્ચર આપવું.. કરમિયાની દવા આપવી.		

જુફ્યુ/ટેકનિકલ ઓફિસર).સુખે/(એગ્રોમેટ/બુલેટીન / / ૨૦૨૦  
તરઘડિયા(રાજકોટ), તારીખ:૨૨/૦૫/૨૦૨૦.

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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**Agromet Advisory Service bulletin No.16 -for the Rajkot district**

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

(Period 23 to 27-May - 2020)

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

Rainfall (mm)	0.0
Maximum temperature (°C )	38.5-43.2
Minimum temperature (°C )	24.4-26.4
Relative Humidity (%) I	56-80
Relative Humidity (%) II	19-41
Wind speed (Kmph)	6.4-11.4

**Weather forecast until 08-30 hrs. of 27/05/2020**

**(1) RAJKOT DISTRICT:**

	23/05/20	24/05/20	25/05/20	26/05/20	27/05/20
Rainfall (mm)	0	0	0	0	0
Max.Temp.(°C)	43	43	43	43	43
Min.Temp.(°C)	26	26	26	26	26
Total CC (octa)	2	0	0	0	0
RH-I (%)	59	67	71	72	70
RH-II (%)	13	18	21	22	23
Wind Speed (kmph)	19	21	23	25	28
Wind Direction(deg.)	259	271	266	269	267

**Agro meteorological Advisories:**

<b>General Advice</b>	<ul style="list-style-type: none"><li>• <b>Rain fall:</b> Dry, hot and clear weather forecasted next five days except on 23.05.2020 Mainly clear weather forecasted.</li><li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 43-43°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 59-72% &amp; 13-23, respectively.</li><li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be W and 19-28 km/h, respectively.</li><li>• <b>Keeping in view of threat of COVID-19 spread farmers are advised to follow the government guidelines, personal hygiene, use mask, ensure hand washing with</b></li></ul>
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	<p>soap at reasonable interval, social distancing of 6 feet during harvesting and other agricultural operation in all crops.</p> <ul style="list-style-type: none"> <li>• <b>Keep social distancing of 5-6 feet in selling of agricultural produces in marketing yard and also during buying of agricultural inputs.</b></li> <li>• <b>Weather outlook for subsequent week: Dry, hot and clear weather very likely to observe during 28-31 May-2020.</b></li> <li>• <b>Due to prevailing dry and hot weather conditions, farmers are advised for light irrigation in all vegetable crops. Irrigation should be done in the morning hours or in the evening hours.</b></li> <li>• <b>Under hot weather a. Avoid heat exposure. b. Wear light weight, light coloured, loose cotton clothes. c. Cover your head. d. Keep the animal under tree shade or shed during noon hours.</b></li> <li>• <b>As per 1<sup>st</sup> stage forecast of IMD in Southwest monsoon seasonal (June to September-2020) rainfall over the country as a whole is likely to be normal (96-104%). So plan accordingly for kharif sowing.</b></li> <li>• <b>For the ensuing kharif season ensure the availability of seeds as per the crop/cultivar planning and ensure other inputs in advance. For use of own/private party seeds for crop like groundnut advise to test seed viability conduct a sample germination test.</b></li> </ul>		
Crops	Stage	Insect/Pest/ Variety	Advisory
<b>Farm compost/ FYM</b>	Turning of well rotted compost & FYM	-	<p>Dig out completely composted material made from animal dung, urine, litter and farm waste.</p> 
<b>Green gram, Black Gram</b>	Physiological Maturity	-	Harvest in time at ripening stage before seed shattering.
<b>Summer Groundnut</b>	Physiological Maturity	-	Harvest in time at maturity stage.
<b>Summer Sesame</b>	Physiological Maturity	-	Harvest in time at maturity stage before seed shattering.
<b>Kharif groundnut</b>	Pre-sowing	GG-20, GG-11	<p>Pre-sowing of groundnut may be done in this week. Apply 156 kg/ha SSP, 62 kg/ha Ammonium sulphate and 500 kg/ha Castor cake as basal dose.</p> <p><b>Seed treatment with Dithane M-45/Captan/vitavax @ 2 grams per kg of seeds before sowing for the control</b></p>

			<p><b>of seed born diseases is advised.</b></p> <p><b>As preventive measure for white grub infestation in groundnut crop treat the seed with Chlorpyrifos 20 % EC OR Quinalfos 25 % EC @ 25 ml/kg seed at the time of sowing.</b></p>
	Onset of monsoon	Semi spreading, GG-20, GG-22 Bunch, GG-2,GJG-31, GJG-32, GG-5, TG-51, TAG-24, TG-37 A, TPG-41, TLG-45,	
<b>Cotton</b>	-	<p><b>Early:</b> Bg-II GCH-8, GTHH-49, ATM, Jay, First Class, 7576, V-333, Neo, Beejdhan-2, Sarju, Atom, Bhakti, Bhadra</p> <p><b>Medium Late:</b>Bg-II GCH-6, RCH-659, Agritop-777, Agritop-444, Solar-76, Swapna, Mallika, Ajit-155</p>	<p><b>Procure good quality of seeds for kharif .</b></p> <p>Preswoing should not be done to prevent pink ball worm infestation.</p> <p><b>Farmers are kindly advised to sow non-BT cotton seeds (Refuse) given with cotton BT-II seeds to prevent resistance in ball worms against BT-II technology.</b></p> <p><b>Timely sowing should be done after sufficient rainfall.</b> Apply 20 kg nitrogen/ha as basal for rainfed cotton.</p> <p>Adopt inter crop like sesame, groundnut, soybean, pulses and maize in cotton crop for risk management under rainfed &amp; partial irrigation.</p>
<b>Sesame</b>	-	GT-2, GT-3 or GT-6variety.	<b>Procure good quality of seeds for kharif sowing</b>
<b>Pearl millet</b>	-	GHB-558,577,538,719,732,744	<b>Procure good quality of seeds for kharif sowing</b>
<b>Pulses</b>	-	Farmers growing pulses are advised to select variety GM-4, K-851 for green gram, Guj. Adud-1 for black gram, Gujarat cowpea-1,2,4, Pusa Falguni for cowpea , BDN-2, GT-100, GTH-1 for pigeon pea and	<b>Procure good quality of seeds irrespective of crops for kharif sowing.</b>
<b>Drum stick/ Moringa</b>	Flowering & fruiting	Bud worm & leaf caterpillar	<p><b>Monitor the crop for infestation of Bud worm &amp; leaf caterpillar, if require spray 500 ml of 5 % neem seed extract (Azadirachtin) or neem seed oil (Azadirachtin 1500 ppm) 50 ml with / 10 lit of water.</b></p> <p><b>Use light trap 1-2/ha to attract &amp; kill the adult.</b></p> <p><b>Under heavy infestation make spray of Malathion 50 EC 20 ml/10 litre of water.</b></p>
<b>Lady finger</b>	Flowering/fruiting	Mites	<p>Constant monitoring of lady finger crop against attack of mite is advised. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water is advised.</p> <p>Due to prevailing high temperature, light irrigation at short interval is advised.</p> <p>After harvesting of mature okra, urea should be</p>

			applied @ 15-20 kg/ha.
<b>Ridge gourd, Bottle gourd, Sponge guard, Bitter gourd, Cluster bean, Water melon</b>	Flowering & fruiting	White flies/  Mites  Downy mildew	In all vegetable crops whitefly infestation observed above ETL. Spray 500 ml of 5 % <b>neem seed extract</b> or neem seed oil 50 ml with acetamiprid 20 % SP@ 5.0 gm or <b>imidacloprid 30.5 SC</b> 3 ml/10 lit of water for whiteflies control. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water for the control of Mites in cucurbiteous . For the control of downy mildew spray mencozeb 40g/pump. Optimum moisture level should be maintained in cucurbitaceous crops by light and frequent irrigation to increase pollination and thus increase yield of the crop.
<b>Brinjal</b>	Flowering/ fruiting	<b>Sucking pest</b> →  <b>Shoot &amp; Fruit borer</b>    Mites	<b>Monitor the crop for infestation of 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. In brinjal and tomato constant monitoring of borers by using pheromone traps 4-6 per acre is advised. To control shoot and fruit borer in brinjal and tomato crops, infested fruits and shoots should be collected and buried inside the soil. 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>  <b>If infestation of mites found above ETL in brinjal, then make spraying of Propargite 57 % EC @ 10 ml/ 10 litre of water for the control of Mites under clear sky.</b>
<b>Chili</b>	Flowering & fruiting	<b>Thrips</b> → 	<b>Under present weather conditions severe attack of thrips has been reported. Spray 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 make spray of spinosad or spinetoram 3 ml per 10 liter of water.</b>
<b>Mango</b>	Fruit development	Fruit fly	Spray mixture of DDVP 4 ml and Methyleugenol 10 ml in 10 litres of water for control of fruit fly. Apply irrigation as per need.

<p><b>Lemon</b></p>	<p>Fruit development</p>	<p><b>Mite</b></p> 	<p>Due to high temperature mites infestation in lemon orchard observed. To control mite infestation spray propargite 57 % EC 10/10 liter of water.</p>  <p>To prevent cracking of fruits apply irrigation in time at regular interval.</p>
<p><b>Livestock &amp; poultry</b></p> 	<p>Under present weather condition keep animals under shade or in sheds during noon hours, provide plenty of cool water mixed with minerals for drinking and shower the animals with cold water two to three times in a day. Hang curtains around the shed and sprinkle it with water. Applying gunny bags/grass on roof of shed with sprinkling of water is also advisable to reduce heat impact Do Vaccination for <b>Foot &amp; mouth</b>, <b>Haemorrhagic septicemia</b> (H.S.) disease and <b>Blue Quarter</b> (B.Q.) in animals &amp; PPR vaccination in goats. Feed green fodder/silage with concentrated minerals to animals. Udder of milking animals must be properly clean with zinc oxide or boric powder. Also give deworming tablet to younger animals. For control of ticks and mites spray Deltamethrin or Amitral 2 ml/liter of water.</p>		

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



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**Agro met Advisory Service bulletin No.-16 for the Morbi district**

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

(Period 23 to 27-May - 2020)

**Weather forecast until 08-30 hrs. of 27/05/2020**

**(2) MORBI DISTRICT:**

	23/05/20	24/05/20	25/05/20	26/05/20	27/05/20
Rainfall (mm)	0	0	0	0	0
Max. Temp.(°C)	43	43	43	43	43
Min. Temp.(°C)	26	26	26	26	26
Total CC (octa)	1	1	0	0	0
RH-I (%)	38	44	45	43	52
RH-II (%)	11	9	11	13	14
Wind Speed (kmph)	13	10	10	13	20
Wind Direction(deg.)	267	266	260	256	257

**Agro meteorological Advisories:-**

<b>General Advice</b>	<ul style="list-style-type: none"><li>• <b>Rain fall: Dry, hot 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 43-43°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 38-52% &amp; 9-14, respectively.</li><li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be W and 10-20 km/h, respectively.</li><li>• <b>Keeping in view of threat of COVID-19 spread farmers are advised to follow the government guidelines, personal hygiene, use mask, ensure hand washing with soap at reasonable interval, social distancing of 6 feet during harvesting and other agricultural operation in all crops.</b></li><li>• <b>Keep social distancing of 5-6 feet in selling of agricultural produces in marketing yard and also during buying of agricultural inputs.</b></li><li>• <b>Weather outlook for subsequent week: Dry, hot and clear weather very likely to observe during 28-31 May-2020.</b></li><li>• <b>Due to prevailing dry and hot weather conditions, farmers are advised for light irrigation in all vegetable crops. Irrigation should be done in the morning hours</b></li></ul>
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	<p><b>or in the evening hours.</b></p> <ul style="list-style-type: none"> <li>• Under hot weather a. Avoid heat exposure. b. Wear light weight, light coloured, loose cotton clothes. c. Cover your head. d. Keep the animal under tree shade or shed during noon hours.</li> <li>• As per 1<sup>st</sup> stage forecast of IMD in Southwest monsoon seasonal (June to September-2020) rainfall over the country as a whole is likely to be normal (96-104%). So plan accordingly for kharif sowing.</li> <li>• For the ensuing kharif season ensure the availability of seeds as per the crop/cultivar planning and ensure other inputs in advance. For use of own/private party seeds for crop like groundnut advise to test seed viability conduct a sample germination test.</li> </ul>		
Crops	Stage	Insect/Pest/ Variety	Advisory
<b>Farm compost/ FYM</b>	Turning of well rotted compost & FYM	-	Dig out completely composted material made from animal dung, urine, litter and farm waste. 
<b>Green gram, Black Gram</b>	Physiological Maturity	-	Harvest in time at ripening stage before seed shattering.
<b>Summer Groundnut</b>	Physiological Maturity	-	Harvest in time at maturity stage.
<b>Summer Sesame</b>	Physiological Maturity	-	Harvest in time at maturity stage before seed shattering.
<b>Kharif groundnut</b>	Pre-sowing	GG-20, GG-11	Pre-sowing of groundnut may be done in this week. Apply 156 kg/ha SSP, 62 kg/ha Ammonium sulphate and 500 kg/ha Castor cake as basal dose. <b>Seed treatment with Dithane M-45/Captan/vitavax @ 2 grams per kg of seeds before sowing for the control of seed born diseases is advised.</b> <b>As preventive measure for white grub infestation in groundnut crop treat the seed with Chlorpyrifos 20 % EC OR Quinalfos 25 % EC @ 25 ml/kg seed at the time of sowing.</b>
	Onset of monsoon	Semi spreading, GG-20, GG-22 Bunch, GG-2,GJG-31, GJG-32, GG-5, TG-51, TAG-24, TG-37 A, TPG-41, TLG-45,	
<b>Cotton</b>	-	<b>Early:</b> Bg-II GCH-8, GTHH-49, ATM, Jay,	<b>Procure good quality of seeds for kharif .</b> Preswoing should not be done to prevent pink ball worm infestation.

		First Class, 7576, V-333, Neo, Beejdhan-2, Sarju, Atom, Bhakti, Bhadra  <b>Medium Late:</b> Bg-II GCH-6, RCH-659, Agritop-777, Agritop-444, Solar-76, Swapna, Mallika, Ajit-155	<b>Farmers are kindly advised to sow non-BT cotton seeds (Refuse) given with cotton BT-II seeds to prevent resistance in ball worms against BT-II technology.</b> <b>Timely sowing should be done after sufficient rainfall.</b> Apply 20 kg nitrogen/ha as basal for rainfed cotton. Adopt inter crop like sesame, groundnut, soybean, pulses and maize in cotton crop for risk management under rainfed & partial irrigation.
<b>Sesame</b>	-	GT-2, GT-3 or GT-6 variety.	<b>Procure good quality of seeds for kharif sowing</b>
<b>Pearl millet</b>	-	GHB-558,577,538,719,732,744	<b>Procure good quality of seeds for kharif sowing</b>
<b>Pulses</b>	-	Farmers growing pulses are advised to select variety GM-4, K-851 for green gram, Guj. Adud-1 for black gram, Gujarat cowpea-1,2,4, Pusa Falguni for cowpea , BDN-2, GT-100, GTH-1 for pigeon pea and <b>Procure good quality of seeds irrespective of crops for kharif sowing.</b>	
<b>Drum stick/ Moringa</b>	Flowering & fruiting	Bud worm & leaf caterpillar	<b>Monitor the crop for infestation of Bud worm &amp; leaf caterpillar, if require spray 500 ml of 5 % neem seed extract (Azadirachtin) or neem seed oil (Azadirachtin 1500 ppm) 50 ml with / 10 lit of water.</b> <b>Use light trap 1-2/ha to attract &amp; kill the adult.</b> <b>Under heavy infestation make spray of Malathion 50 EC 20 ml/10 litre of water.</b>
<b>Lady finger</b>	Flowering/fruiting	Mites	Constant monitoring of lady finger crop against attack of mite is advised. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water is advised. Due to prevailing high temperature, light irrigation at short interval is advised. After harvesting of mature okra, urea should be applied @ 15-20 kg/ha.
<b>Ridge gourd, Bottle gourd, Sponge guard, Bitter gourd, Cluster bean,</b>	Flowering & fruiting	White flies/  Mites  Downy mildew	In all vegetable crops whitefly infestation observed above ETL. Spray 500 ml of 5 % <b>neem seed extract</b> or neem seed oil 50 ml with acetamiprid 20 % SP@ 5.0 gm or <b>imidacloprid 30.5 SC</b> 3 ml/10 lit of water for whiteflies control. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water for the control of Mites in cucurbiteous . For the control of downy mildew spray mencozeb 40g/pump.

<b>Water melon</b>			Optimum moisture level should be maintained in cucurbitaceous crops by light and frequent irrigation to increase pollination and thus increase yield of the crop.
<b>Brinjal</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 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. In brinjal and tomato constant monitoring of borers by using pheromone traps 4-6 per acre is advised. To control shoot and fruit borer in brinjal and tomato crops, infested fruits and shoots should be collected and buried inside the soil. 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 of mites found above ETL in brinjal, then make spraying of Propargite 57 % EC @ 10 ml/ 10 litre of water for the control of Mites under clear sky.</b></p>
<b>Chili</b>	Flowering & fruiting	<p><b>Thrips</b> →</p> 	<p><b>Under present weather conditions severe attack of thrips has been reported. Spray 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 make spray of spinosad or spinetoram 3 ml per 10 liter of water.</b></p>
<b>Mango</b>	Fruit development	Fruit fly	<p>Spray mixture of DDVP 4 ml and Methyleugenol 10 ml in 10 litres of water for control of fruit fly.</p> <p>Apply irrigation as per need.</p>
<b>Lemon</b>	Fruit development	<p><b>Mite</b></p>  	<p>Due to high temperature mites infestation in lemon orchard observed. To control mite infestation spray propargite 57 % EC 10/10 liter of water.</p> <p>To prevent cracking of fruits apply irrigation in time at regular interval.</p>
<b>Livestock &amp; poultry</b>	<p>Under present weather condition keep animals under shade or in sheds during noon hours, provide plenty of cool water mixed with minerals for drinking and shower the animals with cold water two to three times in a day. Hang curtains around the shed and sprinkle it with water. Applying gunny bags/grass on roof of shed with sprinkling of water is also advisable to reduce heat impact Do Vaccination for <b>Foot &amp; mouth, Haemorrhagic septicemia (H.S.)</b> disease and <b>Blue Quarter (B.Q.)</b> in animals &amp; PPR vaccination in goats. Feed green fodder/silage with concentrated minerals to animals.</p> 		

	Udder of milking animals must be properly clean with zinc oxide or boric powder. Also give deworming tablet to younger animals. For control of ticks and mites spray Deltamethrin or Amitral 2 ml/liter of water.
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**Technical Officer, GKMS Unit, DFRS, JAU, Targhadia.**



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**Agro met Advisory Service bulletin No.-16 for the Jamnagar district**

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

(Period 23 to 27-May - 2020)

**Weather forecast until 08-30 hrs. of 27/05/2020**

**(3) JAMNAGAR DISTRICT:**

	23/05/20	24/05/20	25/05/20	26/05/20	27/05/20
Rainfall (mm)	0	0	0	0	0
Max. Temp.(°C)	42	41	41	41	41
Min. Temp.(°C)	27	27	27	28	28
Total CC (octa)	2	0	0	0	0
RH-I (%)	77	81	83	82	80
RH-II (%)	37	44	50	50	51
Wind Speed (kmph)	20	21	24	25	27
Wind Direction(deg.)	252	270	265	271	270

**Agro meteorological Advisories:-**

**General Advice**

- **Rain fall:** Dry, hot and clear weather forecasted next five days except on 23.05.2020 Mainly clear weather forecasted.
- **Temperature:** Maximum and minimum temperature likely to be in range of 41-42°C and 27-28°C, respectively.
- **Relative Humidity:** The RH-I and RH-II is likely to be in the range of 77-83% & 37-51, respectively.
- **Wind Direction and Speed:** Direction and speed of wind is likely to be W and 20-27 km/h, respectively.
- **Keeping in view of threat of COVID-19 spread farmers are advised to follow the government guidelines, personal hygiene, use mask, ensure hand washing with soap at reasonable interval, social distancing of 6 feet during harvesting and other agricultural operation in all crops.**
- **Keep social distancing of 5-6 feet in selling of agricultural produces in marketing yard and also during buying of agricultural inputs.**
- **Weather outlook for subsequent week:** Dry, hot and clear weather very likely to observe during 28-31 May-2020.
- **Due to prevailing dry and hot weather conditions, farmers are advised for light**

**irrigation in all vegetable crops. Irrigation should be done in the morning hours or in the evening hours.**

- Under hot weather a. Avoid heat exposure. b. Wear light weight, light coloured, loose cotton clothes. c. Cover your head. d. Keep the animal under tree shade or shed during noon hours.
- As per 1<sup>st</sup> stage forecast of IMD in Southwest monsoon seasonal (June to September-2020) rainfall over the country as a whole is likely to be normal (96-104%). So plan accordingly for kharif sowing.
- For the ensuing kharif season ensure the availability of seeds as per the crop/cultivar planning and ensure other inputs in advance. For use of own/private party seeds for crop like groundnut advise to test seed viability conduct a sample germination test.

Crops	Stage	Insect/Pest/ Variety	Advisory
<b>Farm compost/ FYM</b>	Turning of well rotted compost & FYM	-	Dig out completely composted material made from animal dung, urine, litter and farm waste. 
<b>Green gram, Black Gram</b>	Physiological Maturity	-	Harvest in time at ripening stage before seed shattering.
<b>Summer Groundnut</b>	Physiological Maturity	-	Harvest in time at maturity stage.
<b>Summer Sesame</b>	Physiological Maturity	-	Harvest in time at maturity stage before seed shattering.
<b>Kharif groundnut</b>	Pre-sowing	GG-20, GG-11	Pre-sowing of groundnut may be done in this week. Apply 156 kg/ha SSP, 62 kg/ha Ammonium sulphate and 500 kg/ha Castor cake as basal dose. <b>Seed treatment with Dithane M-45/Captan/vitavax @ 2 grams per kg of seeds before sowing for the control of seed born diseases is advised.</b> As preventive measure for white grub infestation in groundnut crop treat the seed with Chlorpyrifos 20 % EC OR Quinalfos 25 % EC @ 25 ml/kg seed at the time of sowing.
	Onset of monsoon	Semi spreading, GG-20, GG-22 Bunch, GG-2, GJG-31, GJG-32, GG-5, TG-51, TAG-24, TG-37 A, TPG-41, TLG-45,	
<b>Cotton</b>	-	<b>Early:</b> Bg-II GCH-8, GTHH-	<b>Procure good quality of seeds for kharif .</b> Preswoing should not be done to prevent pink ball worm

		49, ATM, Jay, First Class, 7576, V-333, Neo, Beejdhan-2, Sarju, Atom, Bhakti, Bhadra  <b>Medium Late:</b> Bg-II GCH-6, RCH-659, Agritop-777, Agritop-444, Solar- 76, Swapna, Mallika, Ajit-155	infestation. <b>Farmers are kindly advised to sow non-BT cotton seeds (Refuse) given with cotton BT-II seeds to prevent resistance in boll worms against BT-II technology.</b> <b>Timely sowing should be done after sufficient rainfall.</b> Apply 20 kg nitrogen/ha as basal for rainfed cotton. Adopt inter crop like sesame, groundnut, soybean, pulses and maize in cotton crop for risk management under rainfed & partial irrigation.
<b>Sesame</b>	-	GT-2, GT-3 or GT-6variety.	<b>Procure good quality of seeds for kharif sowing</b>
<b>Pearl millet</b>	-	GHB- 558,577,538,719,7 32,744	<b>Procure good quality of seeds for kharif sowing</b>
<b>Pulses</b>	-	Farmers growing pulses are advised to select variety GM-4, K-851 for green gram, Guj. Adud-1 for black gram, Gujarat cowpea-1,2,4, Pusa Falguni for cowpea , BDN-2, GT-100, GTH-1 for pigeon pea and <b>Procure good quality of seeds irrespective of crops for kharif sowing.</b>	
<b>Drum stick/ Moringa</b>	Flowering & fruiting	Bud worm & leaf caterpillar	<b>Monitor the crop for infestation of Bud worm &amp; leaf caterpillar, if require spray 500 ml of 5 % neem seed extract (Azadirachtin) or neem seed oil (Azadirachtin 1500 ppm) 50 ml with / 10 lit of water.</b> <b>Use light trap 1-2/ha to attract &amp; kill the adult.</b> <b>Under heavy infestation make spray of Malathion 50 EC 20 ml/10 litre of water.</b>
<b>Lady finger</b>	Flowering/fruit ing	Mites	Constant monitoring of lady finger crop against attack of mite is advised. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water is advised. Due to prevailing high temperature, light irrigation at short interval is advised. After harvesting of mature okra, urea should be applied @ 15-20 kg/ha.
<b>Ridge gourd, Bottle gourd, Sponge guard, Bitter gourd, Cluster</b>	Flowering & fruiting	White flies/  Mites	In all vegetable crops whitefly infestation observed above ETL. Spray 500 ml of 5 % <b>neem seed extract</b> or neem seed oil 50 ml with acetamiprid 20 % SP@ 5.0 gm or <b>imidacloprid 30.5 SC</b> 3 ml/10 lit of water for whiteflies control. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water for the control of Mites in cucurbiteous . For the control of downy mildew spray mencozeb

<b>bean, Water melon</b>		Downy mildew	40g/pump. Optimum moisture level should be maintained in cucurbitaceous crops by light and frequent irrigation to increase pollination and thus increase yield of the crop.
<b>Brinjal</b>	Flowering/ fruiting	<b>Sucking pest</b> →  <b>Shoot &amp; Fruit borer</b>   <b>Mites</b>	<b>Monitor the crop for infestation of white fly in brinjal, if require spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with diafenthion 50 %wp @ 16 gm / 10 lit of water. In brinjal and tomato constant monitoring of borers by using pheromone traps 4-6 per acre is advised. To control shoot and fruit borer in brinjal and tomato crops, infested fruits and shoots should be collected and buried inside the soil. 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>  <b>If infestation of mites found above ETL in brinjal, then make spraying of Propargite 57 % EC @ 10 ml/ 10 litre of water for the control of Mites under clear sky.</b>
<b>Chili</b>	Flowering & fruiting	<b>Thrips</b> → 	<b>Under present weather conditions severe attack of thrips has been reported. Spray 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 make spray of spinosad or spinetoram 3 ml per 10 liter of water.</b>
<b>Mango</b>	Fruit development	Fruit fly	Spray mixture of DDVP 4 ml and Methyleugenol 10 ml in 10 litres of water for control of fruit fly. Apply irrigation as per need.
<b>Lemon</b>	Fruit development	<b>Mite</b>  	Due to high temperature mites infestation in lemon orchard observed. To control mite infestation spray propargite 57 % EC 10/10 liter of water.  To prevent cracking of fruits apply irrigation in time at regular interval.
<b>Livestock &amp; poultry</b> 	Under present weather condition keep animals under shade or in sheds during noon hours, provide plenty of cool water mixed with minerals for drinking and shower the animals with cold water two to three times in a day. Hang curtains around the shed and sprinkle it with water. Applying gunny bags/grass on roof of shed with sprinkling of water is also advisable to reduce heat impact Do Vaccination for <b>Foot &amp; mouth, Haemorrhagic septicemia (H.S.)</b> disease and <b>Blue Quarter (B.Q.)</b> in animals & PPR vaccination in goats. Feed green fodder/silage with concentrated minerals to animals.		

	Udder of milking animals must be properly clean with zinc oxide or boric powder. Also give deworming tablet to younger animals. For control of ticks and mites spray Deltamethrin or Amitral 2 ml/liter of water.
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**Technical Officer, GKMS Unit, DFRS, JAU, Targhadia.**



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**Agro met Advisory Service bulletin No.-16 for the Devbhumi Dwarka district**

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

(Period 23 to 27-May - 2020)

**Weather forecast until 08-30 hrs. of 27/05/2020**

**(4) DEVBHUMI DWARKA DISTRICT:**

	23/05/20	24/05/20	25/05/20	26/05/20	27/05/20
Rainfall (mm)	0	0	0	0	0
Max. Temp.(°C)	34	33	33	33	33
Min. Temp.(°C)	28	28	28	29	29
Total CC (octa)	2	0	0	0	0
RH-I (%)	80	83	85	83	80
RH-II (%)	32	40	48	47	47
Wind Speed (kmph)	18	18	22	22	25
Wind Direction(deg.)	248	268	264	272	271

**Agro meteorological Advisories:-**

<b>General Advice</b>	<ul style="list-style-type: none"><li>• <b>Rain fall:</b> Dry, hot and clear weather forecasted next five days except on 23.05.2020 Mainly clear weather forecasted.</li><li>• <b>Temperature:</b> Maximum and minimum temperature likely to be in range of 33-34°C and 28-29°C, respectively.</li><li>• <b>Relative Humidity:</b> The RH-I and RH-II is likely to be in the range of 80-85% &amp; 32-48, respectively.</li><li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be W and 18-25 km/h, respectively.</li><li>• <b>Keeping in view of threat of COVID-19 spread farmers are advised to follow the government guidelines, personal hygiene, use mask, ensure hand washing with soap at reasonable interval, social distancing of 6 feet during harvesting and other agricultural operation in all crops.</b></li><li>• <b>Keep social distancing of 5-6 feet in selling of agricultural produces in marketing yard and also during buying of agricultural inputs.</b></li><li>• <b>Weather outlook for subsequent week:</b> Dry, hot and clear weather very likely to observe during 28-31 May-2020.</li><li>• <b>Due to prevailing dry and hot weather conditions, farmers are advised for light</b></li></ul>
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**irrigation in all vegetable crops. Irrigation should be done in the morning hours or in the evening hours.**

- **Under hot weather a. Avoid heat exposure. b. Wear light weight, light coloured, loose cotton clothes. c. Cover your head. d. Keep the animal under tree shade or shed during noon hours.**
- **As per 1<sup>st</sup> stage forecast of IMD in Southwest monsoon seasonal (June to September-2020) rainfall over the country as a whole is likely to be normal (96-104%). So plan accordingly for kharif sowing.**
- **For the ensuing kharif season ensure the availability of seeds as per the crop/cultivar planning and ensure other inputs in advance. For use of own/private party seeds for crop like groundnut advise to test seed viability conduct a sample germination test.**

<b>Crops</b>	<b>Stage</b>	<b>Insect/Pest/ Variety</b>	<b>Advisory</b>
<b>Farm compost/ FYM</b>	Turning of well rotted compost & FYM	-	Dig out completely composted material made from animal dung, urine, litter and farm waste. 
<b>Green gram, Black Gram</b>	Physiological Maturity	-	Harvest in time at ripening stage before seed shattering.
<b>Summer Groundnut</b>	Physiological Maturity	-	Harvest in time at maturity stage.
<b>Summer Sesame</b>	Physiological Maturity	-	Harvest in time at maturity stage before seed shattering.
<b>Kharif groundnut</b>	Pre-sowing	GG-20, GG-11	Pre-sowing of groundnut may be done in this week. Apply 156 kg/ha SSP, 62 kg/ha Ammonium sulphate and 500 kg/ha Castor cake as basal dose. <b>Seed treatment with Dithane M-45/Captan/vitavax @ 2 grams per kg of seeds before sowing for the control of seed born diseases is advised.</b> As preventive measure for white grub infestation in groundnut crop treat the seed with Chlorpyrifos 20 % EC OR Quinalfos 25 % EC @ 25 ml/kg seed at the time of sowing.
	Onset of monsoon	Semi spreading, GG-20, GG-22 Bunch, GG-2,GJG-31, GJG-32, GG-5, TG-51, TAG-24, TG-37 A, TPG-41, TLG-45,	
<b>Cotton</b>	-	<b>Early:</b> Bg-II GCH-8, GTHH-	<b>Procure good quality of seeds for kharif .</b> Preswoing should not be done to prevent pink ball worm

		49, ATM, Jay, First Class, 7576, V-333, Neo, Beejdhan-2, Sarju, Atom, Bhakti, Bhadra  <b>Medium Late:</b> Bg-II GCH-6, RCH-659, Agritop-777, Agritop-444, Solar- 76, Swapna, Mallika, Ajit-155	infestation. <b>Farmers are kindly advised to sow non-BT cotton seeds (Refuse) given with cotton BT-II seeds to prevent resistance in boll worms against BT-II technology.</b> <b>Timely sowing should be done after sufficient rainfall.</b> Apply 20 kg nitrogen/ha as basal for rainfed cotton. Adopt inter crop like sesame, groundnut, soybean, pulses and maize in cotton crop for risk management under rainfed & partial irrigation.
<b>Sesame</b>	-	GT-2, GT-3 or GT-6variety.	<b>Procure good quality of seeds for kharif sowing</b>
<b>Pearl millet</b>	-	GHB- 558,577,538,719,7 32,744	<b>Procure good quality of seeds for kharif sowing</b>
<b>Pulses</b>	-	Farmers growing pulses are advised to select variety GM-4, K-851 for green gram, Guj. Adud-1 for black gram, Gujarat cowpea-1,2,4, Pusa Falguni for cowpea , BDN-2, GT-100, GTH-1 for pigeon pea and <b>Procure good quality of seeds irrespective of crops for kharif sowing.</b>	
<b>Drum stick/ Moringa</b>	Flowering & fruiting	Bud worm & leaf caterpillar	<b>Monitor the crop for infestation of Bud worm &amp; leaf caterpillar, if require spray 500 ml of 5 % neem seed extract (Azadirachtin) or neem seed oil (Azadirachtin 1500 ppm) 50 ml with / 10 lit of water.</b> <b>Use light trap 1-2/ha to attract &amp; kill the adult.</b> <b>Under heavy infestation make spray of Malathion 50 EC 20 ml/10 litre of water.</b>
<b>Lady finger</b>	Flowering/fruit ing	Mites	Constant monitoring of lady finger crop against attack of mite is advised. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water is advised. Due to prevailing high temperature, light irrigation at short interval is advised. After harvesting of mature okra, urea should be applied @ 15-20 kg/ha.
<b>Ridge gourd, Bottle gourd, Sponge guard, Bitter gourd, Cluster</b>	Flowering & fruiting	White flies/  Mites	In all vegetable crops whitefly infestation observed above ETL. Spray 500 ml of 5 % <b>neem seed extract</b> or neem seed oil 50 ml with acetamiprid 20 % SP@ 5.0 gm or <b>imidacloprid 30.5 SC</b> 3 ml/10 lit of water for whiteflies control. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water for the control of Mites in cucurbiteous . For the control of downy mildew spray mencozeb

<b>bean, Water melon</b>		Downy mildew	40g/pump. Optimum moisture level should be maintained in cucurbitaceous crops by light and frequent irrigation to increase pollination and thus increase yield of the crop.
<b>Brinjal</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 white fly in brinjal, if require spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with diafenthuron 50 %wp @ 16 gm / 10 lit of water. In brinjal and tomato constant monitoring of borers by using pheromone traps 4-6 per acre is advised. To control shoot and fruit borer in brinjal and tomato crops, infested fruits and shoots should be collected and buried inside the soil. 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 of mites found above ETL in brinjal, then make spraying of Propargite 57 % EC @ 10 ml/ 10 litre of water for the control of Mites under clear sky.</b></p>
<b>Chili</b>	Flowering & fruiting	<p><b>Thrips</b> →</p> 	<p><b>Under present weather conditions severe attack of thrips has been reported. Spray 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 make spray of spinosad or spinetoram 3 ml per 10 liter of water.</b></p>
<b>Mango</b>	Fruit development	Fruit fly	Spray mixture of DDVP 4 ml and Methyleugenol 10 ml in 10 litres of water for control of fruit fly. Apply irrigation as per need.
<b>Lemon</b>	Fruit development	<p><b>Mite</b></p>  	<p>Due to high temperature mites infestation in lemon orchard observed. To control mite infestation spray propargite 57 % EC 10/10 liter of water.</p> <p>To prevent cracking of fruits apply irrigation in time at regular interval.</p>
<p><b>Livestock &amp; poultry</b></p> 	<p>Under present weather condition keep animals under shade or in sheds during noon hours, provide plenty of cool water mixed with minerals for drinking and shower the animals with cold water two to three times in a day. Hang curtains around the shed and sprinkle it with water. Applying gunny bags/grass on roof of shed with sprinkling of water is also advisable to reduce heat impact Do Vaccination for <b>Foot &amp; mouth, Haemorrhagic septicemia (H.S.)</b> disease and <b>Blue Quarter (B.Q.)</b> in animals &amp; PPR vaccination in goats. Feed green fodder/silage with concentrated minerals to animals.</p>		

	Udder of milking animals must be properly clean with zinc oxide or boric powder. Also give deworming tablet to younger animals. For control of ticks and mites spray Deltamethrin or Amitral 2 ml/liter of water.
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**Technical Officer, GKMS Unit, DFRS, JAU, Targhadia.**



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**Agro met Advisory Service bulletin No.-16 for the Amreli district**

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

(Period 23 to 27-May - 2020)

**Weather forecast until 08-30 hrs. of 27/05/2020**

**(5) AMRELI DISTRICT:**

	23/05/20	24/05/20	25/05/20	26/05/20	27/05/20
Rainfall (mm)	0	0	0	0	0
Max.Temp.(°C)	43	43	43	43	43
Min.Temp.(°C)	26	26	26	26	26
Total CC (octa)	1	1	0	0	0
RH-I (%)	57	61	65	67	70
RH-II (%)	19	20	22	23	24
Wind Speed (kmph)	16	19	19	20	22
Wind Direction(deg.)	279	290	287	281	273

**Agro meteorological Advisories:**

<b>General Advice</b>	<ul style="list-style-type: none"><li>• <b>Rain fall: Dry, hot 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 43-43°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 57-70% &amp; 19-23, respectively.</li><li>• <b>Wind Direction and Speed:</b> Direction and speed of wind is likely to be W and 16-22 km/h, respectively.</li><li>• <b>Keeping in view of threat of COVID-19 spread farmers are advised to follow the government guidelines, personal hygiene, use mask, ensure hand washing with soap at reasonable interval, social distancing of 6 feet during harvesting and other agricultural operation in all crops.</b></li><li>• <b>Keep social distancing of 5-6 feet in selling of agricultural produces in marketing yard and also during buying of agricultural inputs.</b></li><li>• <b>Weather outlook for subsequent week: Dry, hot and clear weather very likely to observe during 28-31 May-2020.</b></li><li>• <b>Due to prevailing dry and hot weather conditions, farmers are advised for light irrigation in all vegetable crops. Irrigation should be done in the morning hours</b></li></ul>
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	<p><b>or in the evening hours.</b></p> <ul style="list-style-type: none"> <li>• Under hot weather a. Avoid heat exposure. b. Wear light weight, light coloured, loose cotton clothes. c. Cover your head. d. Keep the animal under tree shade or shed during noon hours.</li> <li>• As per 1<sup>st</sup> stage forecast of IMD in Southwest monsoon seasonal (June to September-2020) rainfall over the country as a whole is likely to be normal (96-104%). So plan accordingly for kharif sowing.</li> <li>• For the ensuing kharif season ensure the availability of seeds as per the crop/cultivar planning and ensure other inputs in advance. For use of own/private party seeds for crop like groundnut advise to test seed viability conduct a sample germination test.</li> </ul>		
Crops	Stage	Insect/Pest/ Variety	Advisory
<b>Farm compost/ FYM</b>	Turning of well rotted compost & FYM	-	Dig out completely composted material made from animal dung, urine, litter and farm waste. 
<b>Green gram, Black Gram</b>	Physiological Maturity	-	Harvest in time at ripening stage before seed shattering.
<b>Summer Groundnut</b>	Physiological Maturity	-	Harvest in time at maturity stage.
<b>Summer Sesame</b>	Physiological Maturity	-	Harvest in time at maturity stage before seed shattering.
<b>Kharif groundnut</b>	Pre-sowing	GG-20, GG-11	Pre-sowing of groundnut may be done in this week. Apply 156 kg/ha SSP, 62 kg/ha Ammonium sulphate and 500 kg/ha Castor cake as basal dose. <b>Seed treatment with Dithane M-45/Captan/vitavax @ 2 grams per kg of seeds before sowing for the control of seed born diseases is advised.</b> <b>As preventive measure for white grub infestation in groundnut crop treat the seed with Chlorpyrifos 20 % EC OR Quinalfos 25 % EC @ 25 ml/kg seed at the time of sowing.</b>
	Onset of monsoon	Semi spreading, GG-20, GG-22 Bunch, GG-2,GJG-31, GJG-32, GG-5, TG-51, TAG-24, TG-37 A, TPG-41, TLG-45,	
<b>Cotton</b>	-	<b>Early:</b> Bg-II GCH-8, GTHH-49, ATM, Jay,	<b>Procure good quality of seeds for kharif .</b> Preswoing should not be done to prevent pink ball worm infestation.

		First Class, 7576, V-333, Neo, Beejdhan-2, Sarju, Atom, Bhakti, Bhadra  <b>Medium Late:</b> Bg-II GCH-6, RCH-659, Agritop-777, Agritop-444, Solar-76, Swapna, Mallika, Ajit-155	<b>Farmers are kindly advised to sow non-BT cotton seeds (Refuse) given with cotton BT-II seeds to prevent resistance in ball worms against BT-II technology.</b> <b>Timely sowing should be done after sufficient rainfall.</b> Apply 20 kg nitrogen/ha as basal for rainfed cotton. Adopt inter crop like sesame, groundnut, soybean, pulses and maize in cotton crop for risk management under rainfed & partial irrigation.
<b>Sesame</b>	-	GT-2, GT-3 or GT-6 variety.	<b>Procure good quality of seeds for kharif sowing</b>
<b>Pearl millet</b>	-	GHB-558,577,538,719,732,744	<b>Procure good quality of seeds for kharif sowing</b>
<b>Pulses</b>	-	Farmers growing pulses are advised to select variety GM-4, K-851 for green gram, Guj. Adud-1 for black gram, Gujarat cowpea-1,2,4, Pusa Falguni for cowpea , BDN-2, GT-100, GTH-1 for pigeon pea and <b>Procure good quality of seeds irrespective of crops for kharif sowing.</b>	
<b>Drum stick/ Moringa</b>	Flowering & fruiting	Bud worm & leaf caterpillar	<b>Monitor the crop for infestation of Bud worm &amp; leaf caterpillar, if require spray 500 ml of 5 % neem seed extract (Azadirachtin) or neem seed oil (Azadirachtin 1500 ppm) 50 ml with / 10 lit of water.</b> <b>Use light trap 1-2/ha to attract &amp; kill the adult.</b> <b>Under heavy infestation make spray of Malathion 50 EC 20 ml/10 litre of water.</b>
<b>Lady finger</b>	Flowering/fruiting	Mites	Constant monitoring of lady finger crop against attack of mite is advised. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water is advised. Due to prevailing high temperature, light irrigation at short interval is advised. After harvesting of mature okra, urea should be applied @ 15-20 kg/ha.
<b>Ridge gourd, Bottle gourd, Sponge guard, Bitter gourd, Cluster bean,</b>	Flowering & fruiting	White flies/  Mites  Downy mildew	In all vegetable crops whitefly infestation observed above ETL. Spray 500 ml of 5 % <b>neem seed extract</b> or neem seed oil 50 ml with acetamiprid 20 % SP@ 5.0 gm or <b>imidacloprid 30.5 SC</b> 3 ml/10 lit of water for whiteflies control. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water for the control of Mites in cucurbiteous . For the control of downy mildew spray mencozeb 40g/pump.

<b>Water melon</b>			Optimum moisture level should be maintained in cucurbitaceous crops by light and frequent irrigation to increase pollination and thus increase yield of the crop.
<b>Brinjal</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 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. In brinjal and tomato constant monitoring of borers by using pheromone traps 4-6 per acre is advised. To control shoot and fruit borer in brinjal and tomato crops, infested fruits and shoots should be collected and buried inside the soil. 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 of miteis found aboe ETL in brinjal, then make spraying of Propargite 57 % EC @ 10 ml/ 10 litre of water for the control of Mites under clear sky.</b></p>
<b>Chili</b>	Flowering & fruiting	<p><b>Thrips</b> →</p> 	<p><b>Under present weather conditions severe attack of thrips has been reported. Spray 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 make spray of spinosad or spinetoram 3 ml per 10 liter of water.</b></p>
<b>Mango</b>	Fruit development	Fruit fly	<p>Spray mixture of DDVP 4 ml and Methyleugenol 10 ml in 10 litres of water for control of fruit fly.</p> <p>Apply irrigation as per need.</p>
<b>Lemon</b>	Fruit development	<p><b>Mite</b></p> 	<p>Due to high temperature mites infestation in lemon orchard observed. To control mite infestation spray propargite 57 % EC 10/10 liter of water.</p> <p>To prevent cracking of fruits apply irrigation in time at regular interval.</p>
<b>Livestock &amp; poultry</b>	<p>Under present weather condition keep animals under shade or in sheds during noon hours, provide plenty of cool water mixed with minerals for drinking and shower the animals with cold water two to three times in a day. Hang curtains around the shed and sprinkle it with water. Applying gunny bags/grass on roof of shed with sprinkling of water is also advisable to reduce heat impact Do Vaccination for <b>Foot &amp; mouth, Haemorrhagic septicemia (H.S.)</b> disease and <b>Blue Quarter (B.Q.)</b> in animals &amp; PPR vaccination in goats. Feed green fodder/silage with concentrated minerals to animals.</p> 		

	Udder of milking animals must be properly clean with zinc oxide or boric powder. Also give deworming tablet to younger animals. For control of ticks and mites spray Deltamethrin or Amitral 2 ml/liter of water.
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**Technical Officer, GKMS Unit, DFRS, JAU, Targhadia.**



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**Agro met Advisory Service bulletin No.-16 for the Surendranagar district**

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

(Period 23 to 27-May - 2020)

**Weather forecast until 08-30 hrs of 27/05/2020**

**(6) SURENDRANAGAR DISTRICT:**

	23/05/20	24/05/20	25/05/20	26/05/20	27/05/20
Rainfall (mm)	0	0	0	0	0
Max.Temp.(°C)	43	43	43	43	43
Min.Temp.(°C)	29	29	29	29	29
Total CC (octa)	2	0	0	0	0
RH-I (%)	52	61	63	69	65
RH-II (%)	14	18	19	21	23
Wind Speed (kmph)	20	22	23	27	28
Wind Direction(deg.)	264	274	269	267	266

**Agro meteorological advisories:**

**General Advice**

- **Rain fall:** Dry, hot and clear weather forecasted next five days except on 23.05.2020 Mainly clear weather forecasted.
- **Temperature:** Maximum and minimum temperature likely to be in range of 43-43°C and 29-29°C, respectively.
- **Relative Humidity:** The RH-I and RH-II is likely to be in the range of 52-69% & 14-23, respectively.
- **Wind Direction and Speed:** Direction and speed of wind is likely to be W and 20-28 km/h, respectively.
- **Keeping in view of threat of COVID-19 spread farmers are advised to follow the government guidelines, personal hygiene, use mask, ensure hand washing with soap at reasonable interval, social distancing of 6 feet during harvesting and other agricultural operation in all crops.**
- **Keep social distancing of 5-6 feet in selling of agricultural produces in marketing yard and also during buying of agricultural inputs.**
- **Weather outlook for subsequent week:** Dry, hot and clear weather very likely to observe during 28-31 May-2020.
- **Due to prevailing dry and hot weather conditions, farmers are advised for light**

**irrigation in all vegetable crops. Irrigation should be done in the morning hours or in the evening hours.**

- **Under hot weather a. Avoid heat exposure. b. Wear light weight, light coloured, loose cotton clothes. c. Cover your head. d. Keep the animal under tree shade or shed during noon hours.**
- **As per 1<sup>st</sup> stage forecast of IMD in Southwest monsoon seasonal (June to September-2020) rainfall over the country as a whole is likely to be normal (96-104%). So plan accordingly for kharif sowing.**
- **For the ensuing kharif season ensure the availability of seeds as per the crop/cultivar planning and ensure other inputs in advance. For use of own/private party seeds for crop like groundnut advise to test seed viability conduct a sample germination test.**

Crops	Stage	Insect/Pest/ Variety	Advisory
<b>Farm compost/ FYM</b>	Turning of well rotted compost & FYM	-	Dig out completely composted material made from animal dung, urine, litter and farm waste. 
<b>Green gram, Black Gram</b>	Physiological Maturity	-	Harvest in time at ripening stage before seed shattering.
<b>Summer Groundnut</b>	Physiological Maturity	-	Harvest in time at maturity stage.
<b>Summer Sesame</b>	Physiological Maturity	-	Harvest in time at maturity stage before seed shattering.
<b>Kharif groundnut</b>	Pre-sowing	GG-20, GG-11	Pre-sowing of groundnut may be done in this week. Apply 156 kg/ha SSP, 62 kg/ha Ammonium sulphate and 500 kg/ha Castor cake as basal dose. <b>Seed treatment with Dithane M-45/Captan/vitavax @ 2 grams per kg of seeds before sowing for the control of seed born diseases is advised.</b> As preventive measure for white grub infestation in groundnut crop treat the seed with Chlorpyrifos 20 % EC OR Quinalfos 25 % EC @ 25 ml/kg seed at the time of sowing.
	Onset of monsoon	Semi spreading, GG-20, GG-22 Bunch, GG-2,GJG-31, GJG-32, GG-5, TG-51, TAG-24, TG-37 A, TPG-41, TLG-45,	
<b>Cotton</b>	-	<b>Early:</b> Bg-II GCH-8, GTHH-	<b>Procure good quality of seeds for kharif .</b> Preswoing should not be done to prevent pink ball worm

		49, ATM, Jay, First Class, 7576, V-333, Neo, Beejdhan-2, Sarju, Atom, Bhakti, Bhadra  <b>Medium Late:</b> Bg-II GCH-6, RCH-659, Agritop-777, Agritop-444, Solar- 76, Swapna, Mallika, Ajit-155	infestation. <b>Farmers are kindly advised to sow non-BT cotton seeds (Refuse) given with cotton BT-II seeds to prevent resistance in boll worms against BT-II technology.</b> <b>Timely sowing should be done after sufficient rainfall.</b> Apply 20 kg nitrogen/ha as basal for rainfed cotton. Adopt inter crop like sesame, groundnut, soybean, pulses and maize in cotton crop for risk management under rainfed & partial irrigation.
<b>Sesame</b>	-	GT-2, GT-3 or GT-6variety.	<b>Procure good quality of seeds for kharif sowing</b>
<b>Pearl millet</b>	-	GHB- 558,577,538,719,7 32,744	<b>Procure good quality of seeds for kharif sowing</b>
<b>Pulses</b>	-	Farmers growing pulses are advised to select variety GM-4, K-851 for green gram, Guj. Adud-1 for black gram, Gujarat cowpea-1,2,4, Pusa Falguni for cowpea , BDN-2, GT-100, GTH-1 for pigeon pea and <b>Procure good quality of seeds irrespective of crops for kharif sowing.</b>	
<b>Drum stick/ Moringa</b>	Flowering & fruiting	Bud worm & leaf caterpillar	<b>Monitor the crop for infestation of Bud worm &amp; leaf caterpillar, if require spray 500 ml of 5 % neem seed extract (Azadirachtin) or neem seed oil (Azadirachtin 1500 ppm) 50 ml with / 10 lit of water.</b> <b>Use light trap 1-2/ha to attract &amp; kill the adult.</b> <b>Under heavy infestation make spray of Malathion 50 EC 20 ml/10 litre of water.</b>
<b>Lady finger</b>	Flowering/fruit ing	Mites	Constant monitoring of lady finger crop against attack of mite is advised. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water is advised. Due to prevailing high temperature, light irrigation at short interval is advised. After harvesting of mature okra, urea should be applied @ 15-20 kg/ha.
<b>Ridge gourd, Bottle gourd, Sponge guard, Bitter gourd, Cluster</b>	Flowering & fruiting	White flies/  Mites	In all vegetable crops whitefly infestation observed above ETL. Spray 500 ml of 5 % <b>neem seed extract</b> or neem seed oil 50 ml with acetamiprid 20 % SP@ 5.0 gm or <b>imidacloprid 30.5 SC</b> 3 ml/10 lit of water for whiteflies control. If population is found more, then spraying of Ethion @ 1.5-2 ml/litre of water for the control of Mites in cucurbiteous . For the control of downy mildew spray mencozeb

<b>bean, Water melon</b>		Downy mildew	40g/pump. Optimum moisture level should be maintained in cucurbitaceous crops by light and frequent irrigation to increase pollination and thus increase yield of the crop.
<b>Brinjal</b>	Flowering/ fruiting	<b>Sucking pest</b> →  <b>Shoot &amp; Fruit borer</b>   <b>Mites</b>	<b>Monitor the crop for infestation of white fly in brinjal, if require spray 500 ml of 5 % neem seed extract or neem seed oil 50 ml with diafenthion 50 %wp @ 16 gm / 10 lit of water. In brinjal and tomato constant monitoring of borers by using pheromone traps 4-6 per acre is advised. To control shoot and fruit borer in brinjal and tomato crops, infested fruits and shoots should be collected and buried inside the soil. 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>  <b>If infestation of mites found above ETL in brinjal, then make spraying of Propargite 57 % EC @ 10 ml/ 10 litre of water for the control of Mites under clear sky.</b>
<b>Chili</b>	Flowering & fruiting	<b>Thrips</b> → 	<b>Under present weather conditions severe attack of thrips has been reported. Spray 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 make spray of spinosad or spinetoram 3 ml per 10 liter of water.</b>
<b>Mango</b>	Fruit development	Fruit fly	Spray mixture of DDVP 4 ml and Methyleugenol 10 ml in 10 litres of water for control of fruit fly. Apply irrigation as per need.
<b>Lemon</b>	Fruit development	<b>Mite</b>  	Due to high temperature mites infestation in lemon orchard observed. To control mite infestation spray propargite 57 % EC 10/10 liter of water.  To prevent cracking of fruits apply irrigation in time at regular interval.
<b>Livestock &amp; poultry</b> 	Under present weather condition keep animals under shade or in sheds during noon hours, provide plenty of cool water mixed with minerals for drinking and shower the animals with cold water two to three times in a day. Hang curtains around the shed and sprinkle it with water. Applying gunny bags/grass on roof of shed with sprinkling of water is also advisable to reduce heat impact Do Vaccination for <b>Foot &amp; mouth, Haemorrhagic septicemia (H.S.)</b> disease and <b>Blue Quarter (B.Q.)</b> in animals & PPR vaccination in goats. Feed green fodder/silage with concentrated minerals to animals.		

	Udder of milking animals must be properly clean with zinc oxide or boric powder. Also give deworming tablet to younger animals. For control of ticks and mites spray Deltamethrin or Amitral 2 ml/liter of water.
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**Technical Officer, GKMS Unit, DFRS, JAU, Targhadia.**