

Forecast Issuing Authority Agro met. Advisory Service Unit, Met. Centre, Lucknow

**PART-I
WEATHER**

Bulletin No- 31/18

ISSUING DATE: 20.04.2018

<u>Past Weather in different districts of Agro climatic zones for the period From 0830 Significant hrs IST of 17.04.2018 to 0830 hrs IST of 19.04.2018</u>		<u>Weather forecast in different districts Of Agro climatic zones until 0830 hrs IST of 25.04.2018</u>	
(I) <u>NODAL OFFICER, ALLAHABAD:</u> Districts: Fatehpur, Pratapgarh, Allahabad, Chitrakutnagar and Kausambi			
Weather Summary	Weather was dry during the period.	Weather Forecast	Weather was dry during the period.
Max./Min. Temp	Max temp. will be -3 ⁰ C to +4 ⁰ C from normal (Normal max. temp. 39 ⁰ C)	Max./Min. Temp	Max temp. will be 0 ⁰ C to +3 ⁰ C from normal (Normal max. temp. 40 ⁰ C)
Wind Dir./Speed	Westerly to southwesterly wind with speed 5-9 kmph.	Wind Dir./Speed	Westerly to northwesterly with speed 6-15 Kmph.
Relative Humidity	Relative Humidity was approximately normal.	Relative Humidity	Relative Humidity was approximately normal.
Cloud Status	Clear sky.	Cloud Status	Clear to partly cloudy sky.
Chief Amount of R/F (>= 5 cm)	NIL	Weather Warning	Nil
(II) <u>NODAL OFFICER, BAHRAICH:</u> Districts: Bacharach, Shrawasti, Balrampur, Gonda, Kushinagar , Siddharthnagar and Maharajganj			
Weather	Weather was dry during the period.	Weather	Weather was dry during the period.

Summary		Forecast	
Max./Min. Temp	Max temp. will be -1 ⁰ C to +1 ⁰ C from normal (Normal max. temp. 37 ⁰ C)	Max./Min. Temp	Max temp. will be -1 ⁰ C to +1 ⁰ C from normal (Normal max. temp. 38 ⁰ C)
Wind Dir./Sped	Southeasterly to southwesterly wind with speed 6-7 kmph.	Wind Dir./Speed	Northeasterly to northwesterly with speed 5-20 Kmph.
Relative Humidity	Relative Humidity was approximately normal.	Relative Humidity	Relative Humidity was approximately normal.
Cloud Status	Clear to mainly clear sky.	Cloud Status	Clear to mainly clear sky.
Chief Amount of R/F (>= 5 cm)	NIL	Weather Warning	Nil
(III) <u>NODAL OFFICERS (BHARARI):</u> Districts: Jalaun, Jhansi, Lalitpur, Mahoba, Banda and Hamirpur			
Weather Summary	Weather was dry during the period.	Weather Forecast	Weather was dry during the period.
Max./Min. Temp	Max temp. will be -1 ⁰ C to +2 ⁰ C from normal (Normal max. temp. 40 ⁰ C)	Max./Min. Temp	Max temp. will be -1 ⁰ C to +2 ⁰ C from normal (Normal max. temp. 41 ⁰ C)
Wind Dir./Speed	Southerly to northerly wind with speed 4-7 kmph.	Wind Dir./Speed	Northeasterly to northwesterly wind with speed 6-13 kmph.
Relative Humidity	Relative Humidity was approximately normal.	Relative Humidity	Relative Humidity was approximately normal.
Cloud Status	Clear to partly cloudy sky.	Cloud Status	Clear to partly cloudy sky.
Chief Amount of R/F (>= 5 cm)	NIL	Weather Warning	Nil
(IV) <u>NODAL OFFICERS, (FAIZABAD):</u> Districts: Barabanki, Sultanpur, Amethi, Faizabad, Basti, Raebareli,			

Ambedkarnagar, Sant Kabirnagar, Gorakhpur, Deoria and Ballia			
Weather Summary	Weather was dry during the period.	Weather Forecast	Weather was dry during the period.
Max./Min. Temp	Max temp. will be 0 ^o C to +1 ^o C from normal (Normal max. temp. 38 ^o C)	Max./Min. Temp	Max temp. will be -1 ^o C to +3 ^o C from normal (Normal max. temp. 39 ^o C)
Wind Dir./Speed	Southwesterly to northwesterly wind with speed 2-5 kmph.	Wind Dir./Speed	Northeasterly to northwesterly wind with speed 7-15 kmph..
Relative Humidity	Relative Humidity was approximately normal.	Relative Humidity	Relative Humidity was approximately normal.
Cloud Status	Clear to mainly clear sky.	Cloud Status	Clear to partly cloudy sky.
Chief Amount of R/F (>= 5 cm)	NIL	Weather Warning	Nil
(V) <u>NODAL OFFICERS, KANPUR:</u> Districts: Kanauji, Hathras, Mathura, Agra, Etah, Mainpuri, Firozabad, Etawah, Auraiya, Kanpur-Rural, Kanpur-Urban, Unnao, Lucknow, Sitapur, Hardoi, Kheri and Kanshiram Nagar			
Weather Summary	Weather was dry during the period.	Weather Forecast	Weather was dry during the period.
Max./Min. Temp	Max temp. will be +2 ^o C to +3 ^o C from normal (Normal max. temp. 38 ^o C)	Max./Min. Temp	Max temp. will be -1 ^o C to +2 ^o C from normal (Normal max. temp. 39 ^o C)
Wind Dir./Speed	Westerly to northerly wind with speed 2-5 kmph.	Wind Dir./Speed	Northeasterly to northwesterly with speed 6-14 Kmph.
Relative Humidity	Relative Humidity was approximately normal..	Relative Humidity	Relative Humidity was approximately normal.
Cloud Status	Clear to mainly clear sky.	Cloud Status	Clear to mainly clear sky.
Chief Amount	Nil	Weather	Nil

of R/F (≥ 5 cm)		Warning	
(VI) <u>NODAL OFFICER, MODIPURAM:</u> Districts: Meerut, Pilibhit, Saharanpur, Muzaffarnagar, Baghpat, Ghaziabad, Gautambudhnagar, Aligarh, Bulandshahar, Moradabad, Jyotiba phule Nagar, Bijnore, Badaun, Bareilly, Rampur, Shahjahanpur, Farrukhabad, Shamali, Sambhal and Hapur			
Weather Summary	Weather was dry during the period.	Weather Forecast	Weather was dry during the period.
Max./Min. Temp	Max temp. will be $+2^{\circ}\text{C}$ to $+2^{\circ}\text{C}$ from normal (Normal max. temp. 37°C)	Max./Min. Temp	Max temp. will be -1°C to $+2^{\circ}\text{C}$ from normal (Normal max. temp. 38°C)
Wind Dir./Speed	Southeasterly to westerly wind with speed 0-6 kmph.	Wind Dir./Speed	Westerly to northwesterly with speed 4-18 Kmph.
Relative Humidity	Relative Humidity was approximately normal.	Relative Humidity	Relative Humidity was approximately normal.
Cloud Status	Clear to partly cloudy sky.	Cloud Status	Clear to partly cloudy sky.
Chief Amount of R/F (≥ 5 cm)	NIL	Weather Warning	Nil
(VII) <u>NODAL OFFICER, VARANASI: (B.H.U.):</u> Districts: Varanasi, Azamgarh, Ghazipur, Chandauli, Sonbhadra, Mirzapur, Sant Ravidasnagar, Jaunpur and Mau			
Weather Summary	Weather was dry during the period.	Weather Forecast	Weather was dry during the period.
Max./Min. Temp	Max temp. will be $+2^{\circ}\text{C}$ to $+3^{\circ}\text{C}$ from normal (Normal max. temp. 39°C)	Max./Min. Temp	Max temp. will be -1°C to $+3^{\circ}\text{C}$ from normal (Normal max. temp. 39°C)
Wind Dir./Speed	Southwesterly to northwesterly wind with speed 4-7 kmph	Wind Dir./Speed	Northeasterly to northwesterly with speed 4-12 kmph.

Relative Humidity	Relative Humidity was approximately normal.	Relative Humidity	Relative Humidity was approximately normal.
Cloud Status	Clear sky.	Cloud Status	Clear to partly cloudy sky.
Chief Amount of R/F (>= 5 cm)	NIL	Weather Warning	Nil

(R P KURIL)
For DIRECTOR I/C
M.C. LUCKNOW

Forecast Issuing Authority Agro met. Advisory Service Unit,

Met. Centre, Lucknow

PART-II

District wise Agro met Advisories

Bulletin No.31/18

ISSUING DATE: 20.04.2018

Crops	Crop stage	I. <u>NODAL OFFICER, ALLAHABAD :</u> Districts: Fatehpur, Pratapgarh, Allahabad, Chitrakutnagar and Kausambi.
<i>Rabi crop</i>	Emergence	<ul style="list-style-type: none"> ➤ In view of upcoming condition Farmers are advised to undertake irrigation, spray the pesticides ,insecticides and Fertilizers . ➤ Rabi crops will require timely irrigation because in next coming days, day and night temperature will increase gradually and humidity will fall down. ➤ Soil testing is the base for management decisions about fertilizer requirements.. Fertilizer addition, which is based on soil testing, usually leads to an increase in yields and profits by providing the correct amounts of needed nutrients. Regular soil testing also contributes to environmental sustainability as the use of excess

		fertilizers can be avoided.
Jayad crop	Sowing / Emergence	<ul style="list-style-type: none"> ➤ Prepare the field for sowing of jayad crop. ➤ First irrigation of urad and Moong should be done after 30-35 days of sowing otherwise nitrogen stabilization glands will be produce less because of improper growth. ➤ After 15-20 days of sowing and before irrigation of sunflower keep the packaged species of plants at distance of 15 cm from each other and hybrid plants at 25-30 cm from each other by thinning. ➤ Irrigate timely sowing crops of urd after 30-35 days of sowing. ➤ Within the next week complete the sowing operation of Moong .
Wheat	Harvesting	<ul style="list-style-type: none"> ➤ and threshing the wheat crop in clear weather & keep harvested produce in safer place. ➤ Irrigate standing crop as per requirement. ➤ Upon the outbreak of termites in standing crop with irrigation, apply 20 percent Chloropyriphos E.C. with rate of 2.5 litre/ hectare. ➤ Upon the outbreak of the maahu disease in wheat, spray 1 litre of methyl-o-dimethane 25 E.C. or Dimethoate 30 E.C. or emydiclopreed 17.8 S.L. with 600-750 litre of water at the rate of 125 ml/hectare. ➤ To avoid the outbreak of rat in standing crop of wheat, use poisonous husk of zinc phosphate or barium carbonate. ➤ Irrigate standing crop as per requirement on evening hrs in calm winds.
Barley	General	<ul style="list-style-type: none"> ➤ To control of weeds watering as per requirement & top dressing of recommended amount of Nitrogen may be done in Barley. ➤ Upon the outbreak of the maahu disease in barley , spray 1 litre of methyl-o-dimethane 25 E.C. or Dimethoate 30 E.C. or emydiclopreed 17.8 S.L. with 600-750 litre of water at the rate of 125 ml/hectare. ➤ Irrigation should be done at flowering stages. ➤ Harvest and thresh the mature crop.
Yellow gram	General	<ul style="list-style-type: none"> ➤ Weeding, hoeing, thinning & watering as per requirement may be done in early varieties of yellow gram along with top dressing of recommended amount of Nitrogen and undertake plant protection measures as per requirement. ➤ To control leaf roller insect spray the solution of Monocrotophos 36 EC @ 1liter/hectare dissolving in 800 liter of water. ➤ For prevention of pigeon flies spread spray the solution of 1 litre per hectare of Melathian 50 E.C. or Dimethoate 30 E.C.

		<ul style="list-style-type: none"> ➤ Harvest and thresh the matured crops of yellow gram.
Gram	General	<ul style="list-style-type: none"> ➤ Irrigate the crops timely. ➤ For weeding, cazielofas ethyl may be sprayed. ➤ Spray solution of B. Powder 1 kg/hect. Or H.A.N.P.V. 250mi/hect. with 350-400 litre of water to control pest attack. ➤ To protect whole helcoverpa armigera to spray quonolophas 25 EC @ 2.0 il/ha in 500-600 water solution on chickpea. ➤ Harvest and thresh the matured crops of gram. ➤ Separate husk from matured crops of gram after threshing and harvesting.
Pea	Maturity	<ul style="list-style-type: none"> ➤ Weeding, hoeing & watering as per requirement on the stage blossoming along with use of recommended fertilizers may be done in Vegetable Pea and to control Bukni disease spray solution of Tridomarf 80 E.C. @ 500-800 ml/hectare dissolving in 800 liter of water at least two times duration of 10-12 days. ➤ Watchful insect and pest due to cloudy weather and high temperature.
Lentil	Sowing / Emergence	<ul style="list-style-type: none"> ➤ Weeding, hoeing and watering as per requirement along with top dressing of recommended amount of Nitrogen may be done. ➤ Watchful insect and pest due to cloudy weather and high temperature. ➤ Within the next week complete the sowing operation of lentil.
Barseen	Sowing / Emergence	<ul style="list-style-type: none"> ➤ To control of weeds watering & top dressing of recommended amount of Nitrogen may be done in Barseen.
Rai & Mustard	General	<ul style="list-style-type: none"> ➤ To control Mahu and bug insect attack apply methyl-o-demeton 25 percent E.C. or Chloropayrifos 20 percent E.C. at rate of 1 litre per hectare with 600-750 litre of water. ➤ Harvest the mature crop. ➤ Watchful insect and pest due to cloudy weather and high temperature. ➤ Farmers are advised for harvesting of mustard crop followed by threshing.
Jwar & Bazra	Sowing / Emergence	<ul style="list-style-type: none"> ➤ Weeding & watering as per requirement may be done along with top dressing of recommended amount of Nitrogen. ➤ Sow the recommended varieties of bajara i.e. I.C.M.V.-221, I.C.T.P.-8203, RAJ-171, PUSA COMPOSITE-383 and hybrid varieties

		<p>are 86 M.-52, G.H.B.-526, G.H.B.-558 and P.B.-180.</p> <ul style="list-style-type: none"> ➤ For single cutting of Jawar, sow the recommended varieties Op.c.-6,9,23, h.c.-171,260, u.p. chari-1,2 and of multi cutting varieties.
Maize & Lobia	Sowing / Emergence	<ul style="list-style-type: none"> ➤ Control of weeds along with top dressing of recommended amount of Nitrogen may be done in Maize-Lobia as a green food for cattle. ➤ Sow the advanced varieties of lobia i.e. Kohinoor, sweta, B.L.-1, bundeli lobia-2,3, G.F.C.-1,2,3, &4, U.P.C.-618,622 and E.C.-4216. ➤ Sow the advanced varieties of maize i.e. African taal, vision composite, moti composite, jacamar composite, B.L.-52, A.P.F.M.-8 and pratap makka chari-6.
Toria	Vegetative	<ul style="list-style-type: none"> ➤ Weeding, hoeing and light watering as per requirement on the stage of blossoming may be done along with top dressing of recommended amount of Nitrogen may be done in Toria and to control Mahu insect, sawfly spray the solution of Malatheaon 50E.C @1.5 litre/Hectare dissolving in 800 litre water & harvesting of Toria may be done as per maturity of crop . ➤ Farmers are advised for harvesting of Toria crop followed by threshing.
Alsi	Vegetative	<ul style="list-style-type: none"> ➤ To control of weeds top dressing of recommended amount of Nitrogen may be done in Alsi after 25-30 days of sowing.
Jayad-Maize	Emergence	<ul style="list-style-type: none"> ➤ Farmers are advised to arrange the seeds of any one of recommended package species of maize-navjyoti, kanchan, gaurav, surya, naveen, shweta, azad uttam and hybrid species –prakash, dakkan-115, MMH-135, pro-4212, ganga-11, pusha, early hybrid maize-2, JH-3459 etc. ➤ Top dressing of urea at optimum moisture during knee height. ➤ <i>Thinning of maize should be done after 10-15 days of sowing.</i> ➤ <i>Weeding and hoeing should be done ,if crop is one month old.</i> ➤ <i>First irrigation of timely sown maize should be done after 20-25 days of sowing.</i>
Sugarcane	Sowing/ Emergence	<ul style="list-style-type: none"> ➤ Start sowing of sugarcane as soon as possible. ➤ Irrigate the winter sugarcane and top dressed with recommended nitrogen. ➤ Moong, urad and lobia can be sow as co-crops with spring sugarcane before this treat them with risobium culture. ➤ In the water logging areas sowing should be done in the months of February and march in any circumstances. ➤ Undertake planting of spring season crop.

		<ul style="list-style-type: none"> ➤ Undertake sowing of certified seed of recommended disease resistant variety after proper field preparation and manure and fertilizers application.
Turmeric & Ginger	Vegetative	<ul style="list-style-type: none"> ➤ Weeding hoeing and watering as per requirement may be done in Turmeric and to control stem borer insect spray the solution of Dimethoate @1.5 ml/liter in water. ➤ Digging & Marketing work in Ginger may be done as per maturity.
Potato	Vegetative	<ul style="list-style-type: none"> ➤ Digging should be done for matured potatoes and kept them at safe and dark place. ➤ For seeds, store the medium size budded potatoes immediately. ➤ Before storage of potatoes, remove, grade the bud of potatoes and treat them with 3 percent of boric acid for 30 minutes.
Rabi Vegetables	Emergence	<ul style="list-style-type: none"> ➤ Weeding, hoeing, use of recommended fertilizers and watering as per requirement may be done in transplanted plants of Rabi vegetables.
Early varieties Vegetables	Emergence	<ul style="list-style-type: none"> ➤ Undertake sowing of cucurbits crops. ➤ The farmers are advised for sowing of chilli, tomato and brinjal crops in the nursery and transplantation of young seedlings may be done in this week. ➤ Undertake sowing in vacant field. Undertake irrigation intercultural operations and plant protection measures to already sown crops. ➤ Upon the outbreak of red insect in cucurbits vegetables spray Melathian 5 percent dust around the stem of plants in the soil. ➤ Prepare seedlings of cucurbitaceous vegetables in polythene bags under net house for getting early produce. ➤ To avoid the outbreak of miete , spray daikophal at the rate of 1-1.5 litre per hectare. ➤ Undertake intercultural operations and irrigation in standing crop as per requirement. ➤ Undertake sowing of certified seed of recommended disease resistant variety after proper field preparation and manure and fertilizers application.
Vegetable Pea	Maturity/ Harvesting	<ul style="list-style-type: none"> ➤ Weeding, hoeing & watering as per requirement on the stage blossoming along with use of recommended fertilizers may be done in Vegetable Pea and to control Bukni disease spray solution of Tridomarf 80 E.C. @ 500 ml/hectare dissolving in 800 liter of water at least two times duration of 10-12 days & plucking/marketing of ready Pea may be done.
Garlic	General	<ul style="list-style-type: none"> ➤ Undertake irrigation and inter-cultural operations as per requirement.

Onion	General	<ul style="list-style-type: none"> ➤ Complete transplantation of ready onion as soon as possible and irrigate immediately after transplanting. ➤ If damping off disease is visible in nursery of onion, spray solution of Thirum 2.5 gm/sq.metre or carbendazim 1gm/sq.m or maikozeb 2.5gm/sq.m . ➤ Spray Macozeb 2 gm./l for the prevention of purple bright disease in onions. ➤ Undertake intercultural operations and irrigation in standing crop as per requirement. ➤ Weeding, hoeing and irrigation should be done as per recommendation.
Banana	Transplant/ Pest control	<ul style="list-style-type: none"> ➤ Use appropriate quantity of fertilizers to newly transplanted plants and transplant the new plants. ➤ Mix 50-60 gram Urea & 200-250 gram Murate of Potash in soil around per plant in Banana by hoeing and watering as per requirement may be done in interval of 10-12 days along with cutting of unwanted leaves. ➤ Use recommended fertilizer in ready transplanted plants may be done & transplant the new plants of Banana. ➤ If leaf spot and rotten disease are being seen in banana ,to control such diseases use bovestin or carbondazim 1 gm/litre mix in water and spray the solution. ➤ In the orchards of banana, mix 100-125 gram D.A.P. fertilizer per plant and after flowering give them wooden support.
Mango	Flowering/ Pest control	<ul style="list-style-type: none"> ➤ To control branch insect & Shulk insect in mango tree, spray the solution of Diazenon 2 ml per litre in water or Di-Methoate30 EC@ 1.5 ml per liter in two times, in the interval of 15 days. ➤ Transplant the Mango plants in pits, digged earlier for transplant of new gardens of all fruits along with hoeing work. ➤ Farmers are advice for grafting in mango to change the Desi varieties to improve varieties. ➤ Pest attack may be seen at time of flowering, to protect it from attack spread Dimethoate 1.5 ml/l with water. ➤ For protection from Kharra and Dahiya disease ,spray 0.2 soluble sulphur and Tridomarf 0.1 percent after 10-15 days. ➤ At present mango crop is at flowering/ fruit setting stage, at this stage infestation of mango hopper are commonly observed. Therefore farmers are advised to keep the mango orchards clean. ➤ To prevent the outbreak of Bhunga disease , spray varticilium lekenai at the rate of 3 ml per litre. ➤ Remove the perverted flowers / manjaries of mango. ➤ In the prevailing weather condition, there is a possibility of the increased attack of Anthracnose leading to black spot in mango. To control it, spray 1 ml Carbendazim per lt. of water.
Lemon	Maturity	<ul style="list-style-type: none"> ➤ Plucking, marketing of ready fruits of Lemon class may be done & to control Bug-inset spray the solution of Cunolphos 25EC@ 1ml per litre in water in clear weather condition Farmers are advice for grafting in Lemon class fruits to change the Desi varieties to improve varieties.

(R.P.KURIL)
For DIRECTOR I/C
M.C.LUCKNOW

Forecast Issuing Authority Agro met. Advisory Service Unit,
Met. Centre, Lucknow
PART-II

Bulletin No.31/18

ISSUING DATE: 20.04.2018

Crops	Crop stage	<u>I. NODAL OFFICER, BAHRAICH:</u> Districts: Baharaich, Shrawasti, Balrampur, Gonda, Kushinagar , Siddharthnagar and Maharajganj,
<i>Rabi crop</i>	Emergence	<ul style="list-style-type: none">➤ In view of upcoming condition Farmers are advised to undertake irrigation, spray the pesticides ,insecticides and Fertilizers.➤ Rabi crops will require timely irrigation because in next coming days, day and night temperature will increase gradually and humidity will fall down.➤ Soil testing is the base for management decisions about fertilizer requirements.. Fertilizer addition, which is based on soil testing, usually leads to an increase in yields and profits by providing the correct amounts of needed nutrients. Regular soil testing also contributes to environmental sustainability as the use of excess fertilizers can be avoided.
<i>Jayad crop</i>	Sowing / Emergence	<ul style="list-style-type: none">➤ Prepare the field for sowing of jayad crop.➤ First irrigation of urad and Moong should be done after 30-35 days of sowing otherwise nitrogen stabilization glands will be produce less because of improper growth.➤ After 15-20 days of sowing and before irrigation of sunflower keep the packaged species of plants at distance of 15 cm from

		<p>each other and hybrid plants at 25-30 cm from each other by thinning.</p> <ul style="list-style-type: none"> ➤ Irrigate timely sowing crops of urd after 30-35 days of sowing. ➤ Within the next week complete the sowing operation of Moong .
Wheat	Harvesting	<ul style="list-style-type: none"> ➤ Irrigate standing crop as per requirement. ➤ Upon the outbreak of termites in standing crop with irrigation, apply 20 percent Chloropyriphos E.C. with rate of 2.5 litre/ hectare. ➤ Upon the outbreak of the maahu disease in wheat, spray 1 litre of methyl-o-dimethane 25 E.C. or Dimethoate 30 E.C. or emydiclopreed 17.8 S.L. with 600-750 litre of water at the rate of 125 ml/hectare. ➤ To avoid the outbreak of rat in standing crop of wheat, use poisonous husk of zinc phosphate or barium carbonate. ➤ Irrigate standing crop as per requirement on evening hrs in calm winds. ➤ Harvest and thresh the mature crop.
Barley	General	<ul style="list-style-type: none"> ➤ To control of weeds watering as per requirement & top dressing of recommended amount of Nitrogen may be done in Barley. ➤ Upon the outbreak of the maahu disease in barley , spray 1 litre of methyl-o-dimethane 25 E.C. or Dimethoate 30 E.C. or emydiclopreed 17.8 S.L. with 600-750 litre of water at the rate of 125 ml/hectare. ➤ Irrigation should be done at flowering stages. ➤ Harvest and thresh the mature crop.
Yellow gram	General	<ul style="list-style-type: none"> ➤ Weeding, hoeing, thinning & watering as per requirement may be done in early varieties of yellow gram along with top dressing of recommended amount of Nitrogen and undertake plant protection measures as per requirement. ➤ To control leaf roller insect spray the solution of Monocrotophos 36 EC @ 1liter/hectare dissolving in 800 liter of water. ➤ For prevention of pigeon flies spread spray the solution of 1 litre per hectare of Melathian 50 E.C. or Dymethoate 30 E.C. ➤ Harvest and thresh the matured crops of yellow gram.
Gram	General	<ul style="list-style-type: none"> ➤ Irrigate the crops timely. ➤ For weeding, cazilofas ethyl may be sprayed. ➤ Spray solution of B. Powder 1 kg/hect. Or H.A.N.P.V. 250mi/hect. with 350-400 litre of water to control pest attack. ➤ To protect whole helcoverpa armigera to spray quonolophas 25 EC @ 2.0 il/ha in 500-600 water solution on chickpea. ➤ Harvest and thresh the matured crops of gram.

Pea	Maturity	<ul style="list-style-type: none"> ➤ Weeding, hoeing & watering as per requirement on the stage blossoming along with use of recommended fertilizers may be done in Vegetable Pea and to control Bukni disease spray solution of Tridomarf 80 E.C. @ 500-800 ml/hectare dissolving in 800 liter of water at least two times duration of 10-12 days. ➤ Watchful insect and pest due to cloudy weather and high temperature.
Lentil	Sowing / Emergence	<ul style="list-style-type: none"> ➤ Weeding, hoeing and watering as per requirement along with top dressing of recommended amount of Nitrogen may be done. ➤ Watchful insect and pest due to cloudy weather and high temperature.
Barseen	Sowing / Emergence	<ul style="list-style-type: none"> ➤ To control of weeds watering & top dressing of recommended amount of Nitrogen may be done in Barseen.
Rai & Mustard	General	<ul style="list-style-type: none"> ➤ To control Mahu and bug insect attack apply methyl-o-demeton 25 percent E.C. or Chloropyrifos 20 percent E.C. at rate of 1 litre per hectare with 600-750 litre of water. ➤ Harvest the mature crop. ➤ Watchful insect and pest due to cloudy weather and high temperature. ➤ Farmers are advised for harvesting of mustard crop followed by threshing.
Jwar & Bazra	Sowing / Emergence	<ul style="list-style-type: none"> ➤ Weeding & watering as per requirement may be done along with top dressing of recommended amount of Nitrogen. ➤ Sow the recommended varieties of bajara i.e. I.C.M.V.-221, I.C.T.P.-8203, RAJ-171, PUSA COMPOSITE-383 and hybrid varieties are 86 M.-52, G.H.B.-526, G.H.B.-558 and P.B.-180. ➤ For single cutting of Jawar, sow the recommended varieties Op.c.-6,9,23, h.c.-171,260, u.p. chari-1,2 and of multi cutting varieties.
Maize & Lobia	Sowing / Emergence	<ul style="list-style-type: none"> ➤ Control of weeds along with top dressing of recommended amount of Nitrogen may be done in Maize-Lobia as a green food for cattle. ➤ Sow the advanced varieties of lobia i.e. Kohinoor, sweta, B.L.-1, bundeli lobia-2,3, G.F.C.-1,2,3, &4, U.P.C.-618,622 and E.C.-4216. ➤ Sow the advanced varieties of maize i.e. African taal, vision composite, moti composite, jawahar composite, B.L.-52, A.P.F.M.-8

		and pratap makka chari-6.
Toria	Vegetative	<ul style="list-style-type: none"> ➤ Weeding, hoeing and light watering as per requirement on the stage of blossoming may be done along with top dressing of recommended amount of Nitrogen may be done in Toria and to control Mahu insect, sawfly spray the solution of Malatheaon 50E.C @1.5 litre/Hectare dissolving in 800 litre water & harvesting of Toria may be done as per maturity of crop . ➤ Farmers are advised for harvesting of toria crop followed by threshing.
Alsi	Vegetative	<ul style="list-style-type: none"> ➤ To control of weeds top dressing of recommended amount of Nitrogen may be done in Alsi after 25-30 days of sowing.
Jayad-Maize	Emergence	<ul style="list-style-type: none"> ➤ Farmers are advised to arrange the seeds of any one of recommended package species of maize-navjyoti, kanchan, gaurav, surya, naveen, shweta, azad uttam and hybrid species –prakash, dakkan-115, MMH-135, pro-4212, ganga-11, pusha, early hybrid maize-2, JH-3459 etc. ➤ Top dressing of urea at optimum moisture during knee height. ➤ <i>Thinning of maize should be done after 10-15 days of sowing.</i> ➤ <i>Weeding and hoeing should be done ,if crop is one month old.</i>
Sugarcane	Sowing/ Emergence	<ul style="list-style-type: none"> ➤ Start sowing of sugarcane as soon as possible. ➤ Irrigate the winter sugarcane and top dressed with recommended nitrogen. ➤ Moong, urad and lobia can be sow as co-crops with spring sugarcane before this treat them with risobium culture. ➤ In the water logging areas sowing should be done in the months of February and march in any circumstances. ➤ Undertake planting of spring season crop. ➤ Undertake sowing of certified seed of recommended disease resistant variety after proper field preparation and manure and fertilizers application.
Turmeric & Ginger	Vegetative	<ul style="list-style-type: none"> ➤ Weeding hoeing and watering as per requirement may be done in Turmeric and to control stem borer insect spray the solution of Dimethoate @1.5 ml/liter in water. ➤ Digging & Marketing work in Ginger may be done as per maturity.
Potato	Vegetative	<ul style="list-style-type: none"> ➤ Digging should be done for matured potatoes and kept them at safe and dark place. ➤ For seeds, store the medium size budded potatoes immediately. ➤ Before storage of potatoes, remove, grade the bud of potatoes and treat them with 3 percent of boric acid for 30 minutes.
Rabi	Emergence	<ul style="list-style-type: none"> ➤ Weeding, hoeing, use of recommended fertilizers and watering as per requirement may be done in transplanted plants of

Vegetables		Rabi vegetables.
Early varieties Vegetables	Emergence	<ul style="list-style-type: none"> ➤ Undertake sowing of cucurbits crops. ➤ The farmers are advised for sowing of chilli, tomato and brinjal crops in the nursery and transplantation of young seedlings may be done in this week. ➤ Undertake sowing in vacant field. Undertake irrigation intercultural operations and plant protection measures to already sown crops. ➤ Upon the outbreak of red insect in cucurbits vegetables spray Melathian 5 percent dust around the stem of plants in the soil. ➤ Prepare seedlings of cucurbitaceous vegetables in polythene bags under net house for getting early produce. ➤ To avoid the outbreak of miete , spray daikophal at the rate of 1-1.5 litre per hectare. ➤ Undertake intercultural operations and irrigation in standing crop as per requirement. ➤ Undertake sowing of certified seed of recommended disease resistant variety after proper field preparation and manure and fertilizers application.
Vegetable Pea	Maturity/ Harvesting	<ul style="list-style-type: none"> ➤ Weeding, hoeing & watering as per requirement on the stage blossoming along with use of recommended fertilizers may be done in Vegetable Pea and to control Bukni disease spray solution of Tridomarf 80 E.C. @ 500 ml/hectare dissolving in 800 liter of water at least two times duration of 10-12 days & plucking/marketing of ready Pea may be done.
Garlic	General	<ul style="list-style-type: none"> ➤ Undertake irrigation and inter-cultural operations as per requirement.
Onion	General	<ul style="list-style-type: none"> ➤ Complete transplantation of ready onion as soon as possible and irrigate immediately after transplanting. ➤ If damping off disease is visible in nursery of onion, spray solution of Thiram 2.5 gm/sq.metre or carbendazim 1gm/sq.m or maikozeb 2.5gm/sq.m . ➤ Spray Macozeb 2 gm./l for the prevention of purple bright disease in onions. ➤ Undertake intercultural operations and irrigation in standing crop as per requirement. ➤ Weeding, hoeing and irrigation should be done as per recommendation.
Banana	Transplant/ Pest control	<ul style="list-style-type: none"> ➤ Use appropriate quantity of fertilizers to newly transplanted plants and transplant the new plants. ➤ Mix 50-60 gram Urea & 200-250 gram Murate of Potash in soil around per plant in Banana by hoeing and watering as per requirement may be done in interval of 10-12 days along with cutting of unwanted leaves. ➤ Use recommended fertilizer in ready transplanted plants may be done & transplant the new plants of Banana.

		<ul style="list-style-type: none"> ➤ If leaf spot and rotten disease are being seen in banana ,to control such diseases use bovestin or carbondazim 1 gm/litre mix in water and spray the solution. ➤ In the orchards of banana, mix 100-125 gram D.A.P. fertilizer per plant and after flowering give them wooden support.
Mango	Flowering/ Pest control	<ul style="list-style-type: none"> ➤ To control branch insect & Shulk insect in mango tree, spray the solution of Diazenon 2 ml per litre in water or Di-Methoate30 EC@ 1.5 ml per liter in two times, in the interval of 15 days. ➤ Transplant the Mango plants in pits, digged earlier for transplant of new gardens of all fruits along with hoeing work. ➤ Farmers are advice for grafting in mango to change the Desi varieties to improve varieties. ➤ Pest attack may be seen at time of flowering, to protect it from attack spread Dimethoate 1.5 ml/l with water. ➤ For protection from Kharra and Dahiya disease ,spray 0.2 soluble sulpher and Tridomarf 0.1 percent after 10-15 days. ➤ At present mango crop is at flowering/ fruit setting stage, at this stage infestation of mango hopper are commonly observed. Therefore farmers are advised to keep the mango orchards clean. ➤ To prevent the outbreak of Bhunga disease , spray varticilium lekenai at the rate of 3 ml per litre. ➤ Remove the perverted flowers / manjaries of mango.
Lemon	Maturity	<ul style="list-style-type: none"> ➤ Plucking, marketing of ready fruits of Lemon class may be done & to control Bug-inset spray the solution of Cunolphos 25EC@ 1ml per litre in water in clear weather condition Farmers are advice for grafting in Lemon class fruits to change the Desi varieties to improve varieties.

(R.P.KURIL)
For DIRECTOR I/C
M.C.LUCKNOW

Forecast Issuing Authority Agro met. Advisory Service Unit,

Met. Centre, Luck now

PART-II

Bulletin No.31/18

ISSUING DATE: 20.04.2018

Crops	Crop stage	II. <u>NODAL OFFICER, BARARI :</u> Districts: Jalaun, Jhansi, Lalitpur, Mahoba, Banda, Hamirpur.
<i>Rabi crop</i>	Emergence	<ul style="list-style-type: none">➤ In view of upcoming condition Farmers are advised to undertake irrigation, spray the pesticides ,insecticides and Fertilisers .➤ Rabi crops will require timely irrigation because in next coming days, day and night temperature will increase gradually and humidity will fall down.➤ Soil testing is the base for management decisions about fertilizer requirements.. Fertilizer addition, which is based on soil testing, usually leads to an increase in yields and profits by providing the correct amounts of needed nutrients. Regular soil testing also contributes to environmental sustainability as the use of excess fertilizers can be avoided.
<i>Jayad crop</i>	Sowing / Emergence	<ul style="list-style-type: none">➤ Prepare the field for sowing of jayad crop.➤ First irrigation of urad and moong should be done after 30-35 days of sowing otherwise nitrogen stabilization glands will be produce less because of improper growth.➤ After 15-20 days of sowing and before irrigation of sunflower keep the packaged species of plants at distance of 15 cm from each other and hybrid plants at 25-30 cm from each other by thinning.➤ Irrigate timely sowing crops of urd after 30-35 days of sowing.➤ Within the next week complete the sowing operation of Moong .
<i>Wheat</i>	Harvesting	<ul style="list-style-type: none">➤ Irrigate standing crop as per requirement.➤ Upon the outbreak of termites in standing crop with irrigation,apply 20 percent Chloropyrifos E.C. with rate of 2.5 litre/ hectare.➤ Upon the outbreak of the maahu disease in wheat, spray 1 litre of methyl-o-dimethane 25 E.C. or Dimetheoate 30

		<p>E.C. or emydiclopreed 17.8 S.L. with 600-750 litre of water at the rate of 125 ml/hectare.</p> <ul style="list-style-type: none"> ➤ To avoid the outbreak of rat in standing crop of wheat, use poisonous husk of zinc phosphide or barium carbonate. ➤ Irrigate standing crop as per requirement on evening hrs in calm winds. ➤ Harvest and thresh the mature crop.
Barley	General	<ul style="list-style-type: none"> ➤ To control of weeds watering as per requirement & top dressing of recommended amount of Nitrogen may be done in Barley. ➤ Upon the outbreak of the maahu disease in barley , spray 1 litre of methyl-o-dimethane 25 E.C. or Dimethoate 30 E.C. or emydiclopreed 17.8 S.L. with 600-750 litre of water at the rate of 125 ml/hectare. ➤ Irrigation should be done at flowering stages. ➤ Harvest and thresh the mature crop.
Yellow gram	General	<ul style="list-style-type: none"> ➤ Weeding, hoeing, thinning & watering as per requirement may be done in early varieties of yellow gram along with top dressing of recommended amount of Nitrogen and undertake plant protection measures as per requirement. ➤ To control leaf roller insect spray the solution of Monocrotophos 36 EC @ 1liter/hectare dissolving in 800 liter of water. ➤ For prevention of pigeon flies spread spray the solution of 1 litre per hectare of Melathian 50 E.C. or Dymethoate 30 E.C. ➤ Harvest and thresh the matured crops of yellow gram.
Gram	General	<ul style="list-style-type: none"> ➤ Irrigate the crops timely. ➤ For weeding, cazilofas ethyl may be sprayed. ➤ Spray solution of B. Powder 1 kg/hect. Or H.A.N.P.V. 250mi/hect. with 350-400 litre of water to control pest attack. ➤ To protect whole helcoverpa armigera to spray quonolophas 25 EC @ 2.0 il/ha in 500-600 water solution on chickpea. ➤ Harvest and thresh the matured crops of gram.
Pea	Maturity	<ul style="list-style-type: none"> ➤ Weeding, hoeing & watering as per requirement on the stage blossoming along with use of recommended fertilizers may be done in Vegetable Pea and to control Bukni disease spray solution of Tridomarf 80 E.C. @ 500-800 ml/hectare dissolving in 800 liter of water at least two times duration of 10-12 days. ➤ Watchful insect and pest due to cloudy weather and high temperature.
Lentil	Sowing / Emergence	<ul style="list-style-type: none"> ➤ Weeding, hoeing and watering as per requirement along with top dressing of recommended amount of Nitrogen may be done. ➤ Watchful insect and pest due to cloudy weather and high temperature.

Barseen	Sowing / Emergence	<ul style="list-style-type: none"> ➤ To control of weeds watering & top dressing of recommended amount of Nitrogen may be done in Barseen.
Rai & Mustard	General	<ul style="list-style-type: none"> ➤ To control Mahu and bug insect attack apply methyl-o-demeton 25 percent E.C. or Chloropyrifos 20 percent E.C. at rate of 1 litre per hectare with 600-750 litre of water. ➤ Harvest the mature crop. ➤ Watchful insect and pest due to cloudy weather and high temperature. ➤ Farmers are advised for harvesting of mustard crop followed by threshing.
Jwar & Bazra	Sowing / Emergence	<ul style="list-style-type: none"> ➤ Weeding & watering as per requirement may be done along with top dressing of recommended amount of Nitrogen. ➤ Sow the recommended varieties of bajara i.e. I.C.M.V.-221, I.C.T.P.-8203, RAJ-171, PUSA COMPOSITE-383 and hybrid varieties are 86 M.-52, G.H.B.-526, G.H.B.-558 and P.B.-180. ➤ For single cutting of Jwar, sow the recommended varieties Op.c.-6,9,23, h.c.-171,260, u.p. chari-1,2 and of multi cutting varieties.
Maize & Lobia	Sowing / Emergence	<ul style="list-style-type: none"> ➤ Control of weeds along with top dressing of recommended amount of Nitrogen may be done in Maize-Lobia as a green food for cattle. ➤ Sow the advanced varieties of lobia i.e. Kohinoor, sweta, B.L.-1, bundeli lobia-2,3, G.F.C.-1,2,3, &4, U.P.C.-618,622 and E.C.-4216. ➤ Sow the advanced varieties of maize i.e. African taal, vision composite, moti composite, jawahar composite, B.L.-52, A.P.F.M.-8 and pratap makka chari-6.
Toria	Vegetative	<ul style="list-style-type: none"> ➤ Weeding, hoeing and light watering as per requirement on the stage of blossoming may be done along with top dressing of recommended amount of Nitrogen may be done in Toria and to control Mahu insect, sawfly spray the solution of Malatheaon 50E.C @1.5 litre/Hectare dissolving in 800 litre water & harvesting of Toria may be done as per maturity of crop . ➤ Farmers are advised for harvesting of toria crop followed by threshing.
Alsi	Vegetative	<ul style="list-style-type: none"> ➤ To control of weeds top dressing of recommended amount of Nitrogen may be done in Alsi after 25-30 days of sowing.
Jayad-	Emergence	<ul style="list-style-type: none"> ➤ Farmers are advised to arrange the seeds of any one of recommended package species of maize-navjyoti, kanchan, gaurav, surya, naveen, shweta, azad uttam and hybrid species –prakash, dakkan-115, MMH-135, pro-4212, ganga-11, pusha, early

Maize		<p>hybrid maize-2, JH-3459 etc.</p> <ul style="list-style-type: none"> ➤ Top dressing of urea at optimum moisture during knee height. ➤ <i>Thinning of maize should be done after 10-15 days of sowing.</i> ➤ <i>Weeding and hoeing should be done ,if crop is one month old.</i>
Sugarcane	Sowing/ Emergence	<ul style="list-style-type: none"> ➤ Start sowing of sugarcane as soon as possible. ➤ Irrigate the winter sugarcane and top dressed with recommended nitrogen. ➤ Moong, urad and lobia can be sow as co-crops with spring sugarcane before this treat them with risobium culture. ➤ In the water logging areas sowing should be done in the months of February and march in any circumstances. ➤ Undertake planting of spring season crop. ➤ Undertake sowing of certified seed of recommended disease resistant variety after proper field preparation and manure and fertilizers application.
Turmeric & Ginger	Vegetative	<ul style="list-style-type: none"> ➤ Weeding hoeing and watering as per requirement may be done in Turmeric and to control stem borer insect spray the solution of Dimethoate @1.5 ml/liter in water. ➤ Digging & Marketing work in Ginger may be done as per maturity.
Potato	Vegetative	<ul style="list-style-type: none"> ➤ Digging should be done for matured potatoes and kept them at safe and dark place. ➤ For seeds, store the medium size budded potatoes immediately. ➤ Before storage of potatoes, remove, grade the bud of potatoes and treat them with 3 percent of boric acid for 30 minutes.
Rabi Vegetables	Emergence	<ul style="list-style-type: none"> ➤ Weeding, hoeing, use of recommended fertilizers and watering as per requirement may be done in transplanted plants of Rabi vegetables.
Early varieties Vegetables	Emergence	<ul style="list-style-type: none"> ➤ Undertake sowing of cucurbits crops. ➤ The farmers are advised for sowing of chilli, tomato and brinjal crops in the nursery and transplantation of young seedlings may be done in this week. ➤ Undertake sowing in vacant field. Undertake irrigation intercultural operations and plant protection measures to already sown crops. ➤ Upon the outbreak of red insect in cucurbits vegetables spray Melathiyam 5 percent dust around the stem of plants in the soil. ➤ Prepare seedlings of cucurbitaceous vegetables in polythene bags under net house for getting early produce.

		<ul style="list-style-type: none"> ➤ To avoid the outbreak of miete , spray daikophal at the rate of 1-1.5 litre per hectare. ➤ Undertake intercultural operations and irrigation in standing crop as per requirement. ➤ Undertake sowing of certified seed of recommended disease resistant variety after proper field preparation and manure and fertilizers application.
Vegetable Pea	Maturity/ Harvesting	<ul style="list-style-type: none"> ➤ Weeding, hoeing & watering as per requirement on the stage blossoming along with use of recommended fertilizers may be done in Vegetable Pea and to control Bukni disease spray solution of Tridomarf 80 E.C. @ 500 ml/hectare dissolving in 800 liter of water at least two times duration of 10-12 days & plucking/marketing of ready Pea may be done.
Garlic	General	<ul style="list-style-type: none"> ➤ Undertake irrigation and inter-cultural operations as per requirement.
Onion	General	<ul style="list-style-type: none"> ➤ Complete transplantation of ready onion as soon as possible and irrigate immediately after transplanting. ➤ If damping off disease is visible in nursery of onion, spray solution of Thirum 2.5 gm/sq.metre or carbendazim 1gm/sq.m or maikozeb 2.5gm/sq.m . ➤ Spray Macozeb 2 gm./l for the prevention of purple bright disease in onions. ➤ Undertake intercultural operations and irrigation in standing crop as per requirement. ➤ Weeding, hoeing and irrigation should be done as per recommendation.
Banana	Transplant/ Pest control	<ul style="list-style-type: none"> ➤ Use appropriate quantity of fertilizers to newly transplanted plants and transplant the new plants. ➤ Mix 50-60 gram Urea & 200-250 gram Murate of Potash in soil around per plant in Banana by hoeing and watering as per requirement may be done in interval of 10-12 days along with cutting of unwanted leaves. ➤ Use recommended fertilizer in ready transplanted plants may be done & transplant the new plants of Banana. ➤ If leaf spot and rotten disease are being seen in banana ,to control such diseases use bovestin or carbondazim 1 gm/litre mix in water and spray the solution. ➤ In the orchards of banana, mix 100-125 gram D.A.P. fertilizer per plant and after flowering give them wooden support.
Mango	Flowering/ Pest control	<ul style="list-style-type: none"> ➤ To control branch insect & Shulk insect in mango tree, spray the solution of Diazenon 2 ml per litre in water or Di-Methoate30 EC@ 1.5 ml per liter in two times, in the interval of 15 days. ➤ Transplant the Mango plants in pits, digged earlier for transplant of new gardens of all fruits along with hoeing work. ➤ Farmers are advice for grafting in mango to change the Desi varieties to improve varieties. ➤ Pest attack may be seen at time of flowering, to protect it from attack spread dimethoate 1.5 ml/l with water. ➤ For protection from Kharra and Dahiya disease ,spray 0.2 soluble sulphur and Tradomarf 0.1 percent after 10-15 days.

		<ul style="list-style-type: none"> ➤ At present mango crop is at flowering/ fruit setting stage, at this stage infestation of mango hopper are commonly observed. Therefore farmers are advised to keep the mango orchards clean. ➤ To prevent the outbreak of Bhunga disease , spray varticilium lekenai at the rate of 3 ml per litre. ➤ Remove the perverted flowers / manjaries of mango.
Lemon	Maturity	<ul style="list-style-type: none"> ➤ Plucking, marketing of ready fruits of Lemon class may be done & to control Bug-inset spray the solution of Cunolphos 25EC@ 1ml per litre in water in clear weather condition Farmers are advice for grafting in Lemon class fruits to change the Desi varieties to improve varieties.

(R.P.KURIL)
For DIRECTOR I/C
M.C.LUCKNOW

Forecast Issuing Authority Agro met. Advisory Service Unit,

Met. Centre, Luck now

PART-II

Bulletin No.31/18

ISSUING DATE: 20.04.2018

Crops	Crop stage	<p><u>I. NODAL OFFICERS, (FAIZABAD) :</u> Districts: Barabanki, Sultanpur, Amethi, Faizabad, Basti, Raebareli, Ambedkarnagar, Sant Kabirnagar, Gorakhpur, Deoria, and Ballia.</p>
Rabi crop	Emergence	<ul style="list-style-type: none"> ➤ In view of upcoming condition Farmers are advised to undertake irrigation, spray the pesticides ,insecticides and Fertilizers. ➤ Rabi crops will require timely irrigation because in next coming days, day and night temperature will increase gradually and

		<p>humidity will fall down.</p> <ul style="list-style-type: none"> ➤ Soil testing is the base for management decisions about fertilizer requirements.. Fertilizer addition, which is based on soil testing, usually leads to an increase in yields and profits by providing the correct amounts of needed nutrients. Regular soil testing also contributes to environmental sustainability as the use of excess fertilizers can be avoided.
Jayad crop	Sowing / Emergence	<ul style="list-style-type: none"> ➤ Prepare the field for sowing of jayad crop. ➤ First irrigation of urad and Moong should be done after 30-35 days of sowing otherwise nitrogen stabilization glands will be produce less because of improper growth. ➤ After 15-20 days of sowing and before irrigation of sunflower keep the packaged species of plants at distance of 15 cm from each other and hybrid plants at 25-30 cm from each other by thinning. ➤ Irrigate timely sowing crops of urd after 30-35 days of sowing. ➤ Within the next week complete the sowing operation of Moong .
Wheat	Harvesting	<ul style="list-style-type: none"> ➤ Irrigate standing crop as per requirement. ➤ Upon the outbreak of termites in standing crop with irrigation, apply 20 percent Chloropyrifos E.C. with rate of 2.5 litre/ hectare. ➤ Upon the outbreak of the maahu disease in wheat, spray 1 litre of methyl-o-dimethane 25 E.C. or Dimethoate 30 E.C. or emydiclopreed 17.8 S.L. with 600-750 litre of water at the rate of 125 ml/hectare. ➤ To avoid the outbreak of rat in standing crop of wheat, use poisonous husk of zinc phosphate or barium carbonate. ➤ Irrigate standing crop as per requirement on evening hrs in calm winds. ➤ Harvest and thresh the mature crop.
Barley	General	<ul style="list-style-type: none"> ➤ To control of weeds watering as per requirement & top dressing of recommended amount of Nitrogen may be done in Barley. ➤ Upon the outbreak of the maahu disease in barley , spray 1 litre of methyl-o-dimethane 25 E.C. or Dimethoate 30 E.C. or emydiclopreed 17.8 S.L. with 600-750 litre of water at the rate of 125 ml/hectare. ➤ Irrigation should be done at flowering stages. ➤ Harvest and thresh the mature crop.

Yellow gram	General	<ul style="list-style-type: none"> ➤ Weeding, hoeing, thinning & watering as per requirement may be done in early varieties of yellow gram along with top dressing of recommended amount of Nitrogen and undertake plant protection measures as per requirement. ➤ To control leaf roller insect spray the solution of Monocrotophos 36 EC @ 1liter/hectare dissolving in 800 liter of water. ➤ For prevention of pigeon flies spread spray the solution of 1 litre per hectare of Melathian 50 E.C. or Dymethoate 30 E.C. ➤ Harvest and thresh the matured crops of yellow gram.
Gram	General	<ul style="list-style-type: none"> ➤ Irrigate the crops timely. ➤ For weeding, cazilofas ethyl may be sprayed. ➤ Spray solution of B. Powder 1 kg/hect. Or H.A.N.P.V. 250mi/hect. with 350-400 litre of water to control pest attack. ➤ To protect whole helcoverpa armigera to spray quonolophas 25 EC @ 2.0 il/ha in 500-600 water solution on chickpea. ➤ Harvest and thresh the matured crops of gram.
Pea	Maturity	<ul style="list-style-type: none"> ➤ Weeding, hoeing & watering as per requirement on the stage blossoming along with use of recommended fertilizers may be done in Vegetable Pea and to control Bukni disease spray solution of Tridomarf 80 E.C. @ 500-800 ml/hectare dissolving in 800 liter of water at least two times duration of 10-12 days. ➤ Watchful insect and pest due to cloudy weather and high temperature.
Lentil	Sowing / Emergence	<ul style="list-style-type: none"> ➤ Weeding, hoeing and watering as per requirement along with top dressing of recommended amount of Nitrogen may be done. ➤ Watchful insect and pest due to cloudy weather and high temperature.
Barseen	Sowing / Emergence	<ul style="list-style-type: none"> ➤ To control of weeds watering & top dressing of recommended amount of Nitrogen may be done in Barseen.
Rai & Mustard	General	<ul style="list-style-type: none"> ➤ To control Mahu and bug insect attack apply methyl-o-demeton 25 percent E.C. or Chloropyrifos 20 percent E.C. at rate of 1 litre per hectare with 600-750 litre of water. ➤ Harvest the mature crop. ➤ Watchful insect and pest due to cloudy weather and high temperature. ➤ Farmers are advised for harvesting of mustard crop followed by threshing.
Jwar & Bazra	Sowing / Emergence	<ul style="list-style-type: none"> ➤ Weeding & watering as per requirement may be done along with top dressing of recommended amount of Nitrogen. ➤ Sow the recommended varieties of bajara i.e. I.C.M.V.-221, I.C.T.P.-8203, RAJ-171, PUSA COMPOSITE-383 and hybrid varieties are 86 M.-52, G.H.B.-526, G.H.B.-558 and P.B.-180.

		<ul style="list-style-type: none"> ➤ For single cutting of Jawar, sow the recommended varieties Op.c.-6,9,23, h.c.-171,260, u.p. chari-1,2 and of multi cutting varieties.
Maize & Lobia	Sowing / Emergence	<ul style="list-style-type: none"> ➤ Control of weeds along with top dressing of recommended amount of Nitrogen may be done in Maize-Lobia as a green food for cattle. ➤ Sow the advanced varieties of lobia i.e. Kohinoor, sweta, B.L.-1, bundeli lobia-2,3, G.F.C.-1,2,3, &4, U.P.C.-618,622 and E.C.-4216. ➤ Sow the advanced varieties of maize i.e. African taal, vision composite, moti composite, jawahar composite, B.L.-52, A.P.F.M.-8 and pratap makka chari-6.
Toria	Vegetative	<ul style="list-style-type: none"> ➤ Weeding, hoeing and light watering as per requirement on the stage of blossoming may be done along with top dressing of recommended amount of Nitrogen may be done in Toria and to control Mahu insect, sawfly spray the solution of Malatheaon 50E.C @1.5 litre/Hectare dissolving in 800 litre water & harvesting of Toria may be done as per maturity of crop . ➤ Farmers are advised for harvesting of toria crop followed by threshing.
Alsi	Vegetative	<ul style="list-style-type: none"> ➤ To control of weeds top dressing of recommended amount of Nitrogen may be done in Alsi after 25-30 days of sowing.
Jayad-Maize	Emergence	<ul style="list-style-type: none"> ➤ Farmers are advised to arrange the seeds of any one of recommended package species of maize-navjyoti, kanchan, gaurav, surya, naveen, shweta, azad uttam and hybrid species –prakash, dakkan-115, MMH-135, pro-4212, ganga-11, pusha, early hybrid maize-2, JH-3459 etc. ➤ Top dressing of urea at optimum moisture during knee height. ➤ <i>Thinning of maize should be done after 10-15 days of sowing.</i> ➤ <i>Weeding and hoeing should be done ,if crop is one month old.</i>
Sugarcane	Sowing/ Emergence	<ul style="list-style-type: none"> ➤ Start sowing of sugarcane as soon as possible. ➤ Irrigate the winter sugarcane and top dressed with recommended nitrogen. ➤ Moong, urad and lobia can be sow as co-crops with spring sugarcane before this treat them with risobium culture. ➤ In the water logging areas sowing should be done in the months of February and march in any circumstances. ➤ Undertake planting of spring season crop. ➤ Undertake sowing of certified seed of recommended disease resistant variety after proper field preparation and manure and fertilizers application.

Turmeric & Ginger	Vegetative	<ul style="list-style-type: none"> ➤ Weeding hoeing and watering as per requirement may be done in Turmeric and to control stem borer insect spray the solution of Dimethoate @1.5 ml/liter in water. ➤ Digging & Marketing work in Ginger may be done as per maturity.
Potato	Vegetative	<ul style="list-style-type: none"> ➤ Digging should be done for matured potatoes and kept them at safe and dark place. ➤ For seeds, store the medium size budded potatoes immediately. ➤ Before storage of potatoes, remove, grade the bud of potatoes and treat them with 3 percent of boric acid for 30 minutes.
Rabi Vegetables	Emergence	<ul style="list-style-type: none"> ➤ Weeding, hoeing, use of recommended fertilizers and watering as per requirement may be done in transplanted plants of Rabi vegetables.
Early varieties Vegetables	Emergence	<ul style="list-style-type: none"> ➤ Undertake sowing of cucurbits crops. ➤ The farmers are advised for sowing of chilli, tomato and brinjal crops in the nursery and transplantation of young seedlings may be done in this week. ➤ Undertake sowing in vacant field. Undertake irrigation intercultural operations and plant protection measures to already sown crops. ➤ Upon the outbreak of red insect in cucurbits vegetables spray Melathiyam 5 percent dust around the stem of plants in the soil. ➤ Prepare seedlings of cucurbitaceous vegetables in polythene bags under net house for getting early produce. ➤ To avoid the outbreak of mite, spray daikophal at the rate of 1-1.5 litre per hectare. ➤ Undertake intercultural operations and irrigation in standing crop as per requirement. ➤ Undertake sowing of certified seed of recommended disease resistant variety after proper field preparation and manure and fertilizers application.
Vegetable Pea	Maturity/Harvesting	<ul style="list-style-type: none"> ➤ Weeding, hoeing & watering as per requirement on the stage blossoming along with use of recommended fertilizers may be done in Vegetable Pea and to control Bukni disease spray solution of Tridomarf 80 E.C. @ 500 ml/hectare dissolving in 800 liter of water at least two times duration of 10-12 days & plucking/marketing of ready Pea may be done.
Garlic	General	<ul style="list-style-type: none"> ➤ Undertake irrigation and inter-cultural operations as per requirement.
Onion	General	<ul style="list-style-type: none"> ➤ Complete transplantation of ready onion as soon as possible and irrigate immediately after transplanting. ➤ If damping off disease is visible in nursery of onion, spray solution of Thiram 2.5 gm/sq.metre or carbendazim 1gm/sq.m or

		<p>maikozeb 2.5gm/sq.m .</p> <ul style="list-style-type: none"> ➤ Spray Macozeb 2 gm./l for the prevention of purple bright disease in onions. ➤ Undertake intercultural operations and irrigation in standing crop as per requirement. ➤ Weeding, hoeing and irrigation should be done as per recommendation.
Banana	Transplant/ Pest control	<ul style="list-style-type: none"> ➤ Use appropriate quantity of fertilizers to newly transplanted plants and transplant the new plants. ➤ Mix 50-60 gram Urea & 200-250 gram Murate of Potash in soil around per plant in Banana by hoeing and watering as per requirement may be done in interval of 10-12 days along with cutting of unwanted leaves. ➤ Use recommended fertilizer in ready transplanted plants may be done & transplant the new plants of Banana. ➤ If leaf spot and rotten disease are being seen in banana ,to control such diseases use bovestin or carbondazim 1 gm/litre mix in water and spray the solution. ➤ In the orchards of banana, mix 100-125 gram D.A.P. fertilizer per plant and after flowering give them wooden support.
Mango	Flowering/ Pest control	<ul style="list-style-type: none"> ➤ To control branch insect & Shulk insect in mango tree, spray the solution of Diazenon 2 ml per litre in water or Di-Methoate30 EC@ 1.5 ml per liter in two times, in the interval of 15 days. ➤ Transplant the Mango plants in pits, digged earlier for transplant of new gardens of all fruits along with hoeing work. ➤ Farmers are advice for grafting in mango to change the Desi varieties to improve varieties. ➤ Pest attack may be seen at time of flowering, to protect it from attack spread Dimethoate 1.5 ml/l with water. ➤ For protection from Kharra and Dahiya disease ,spray 0.2 soluble sulpher and Tridomarf 0.1 percent after 10-15 days. ➤ At present mango crop is at flowering/ fruit setting stage, at this stage infestation of mango hopper are commonly observed. Therefore farmers are advised to keep the mango orchards clean. ➤ To prevent the outbreak of Bhunga disease , spray varticilium lekenai at the rate of 3 ml per litre. ➤ Remove the perverted flowers / manjaries of mango.
Lemon	Maturity	<ul style="list-style-type: none"> ➤ Plucking, marketing of ready fruits of Lemon class may be done & to control Bug-inset spray the solution of Cunolphos 25EC@ 1ml per litre in water in clear weather condition Farmers are advice for grafting in Lemon class fruits to change the Desi varieties to improve varieties.

(R.P.KURIL)

For DIRECTOR I/C
M.C.LUCKNOW

Forecast Issuing Authority Agro met. Advisory Service Unit,

Met. Centre, Luck now

PART-II

District wise Agro met Advisories

Bulletin No.31/18

ISSUING DATE: 20.04.2018

Crops	Crop stage	<u>I. NODAL OFFICERS, KANPUR</u> Districts: Kanauji, Hathras, Mathura, Agra, Etah, Mainpuri, Firozabad, Etawah, Auraiya, Kanpur-Rural, Kanpur-Urban, Unnao, Lucknow, Sitapur, Hardoi, Kheri and Kanshiram Nagar.
<i>Rabi crop</i>	Emergence	<ul style="list-style-type: none">➤ In view of upcoming condition Farmers are advised to undertake irrigation, spray the pesticides ,insecticides and Fertilizers.➤ Rabi crops will require timely irrigation because in next coming days, day and night temperature will increase gradually and humidity will fall down.➤ Soil testing is the base for management decisions about fertilizer requirements.. Fertilizer addition, which is based on soil testing, usually leads to an increase in yields and profits by providing the correct amounts of needed nutrients. Regular soil testing also contributes to environmental sustainability as the use of excess fertilizers can be avoided.
<i>Jayad crop</i>	Sowing / Emergence	<ul style="list-style-type: none">➤ Prepare the field for sowing of jayad crop.➤ First irrigation of urad and Moong should be done after 30-35 days of sowing otherwise nitrogen stabilization glands will be produce less because of improper growth.➤ After 15-20 days of sowing and before irrigation of sunflower keep the packaged species of plants at distance of 15 cm from

		<p>each other and hybrid plants at 25-30 cm from each other by thinning.</p> <ul style="list-style-type: none"> ➤ Irrigate timely sowing crops of urd after 30-35 days of sowing. ➤ Within the next week complete the sowing operation of Moong .
Wheat	Harvesting	<ul style="list-style-type: none"> ➤ Irrigate standing crop as per requirement. ➤ Upon the outbreak of termites in standing crop with irrigation, apply 20 percent Chloropyrifos E.C. with rate of 2.5 litre/ hectare. ➤ Upon the outbreak of the maahu disease in wheat, spray 1 litre of methyl-o-dimethane 25 E.C. or Dimethoate 30 E.C. or emydiclopreed 17.8 S.L. with 600-750 litre of water at the rate of 125 ml/hectare. ➤ To avoid the outbreak of rat in standing crop of wheat, use poisonous husk of zinc phosphate or barium carbonate. ➤ Irrigate standing crop as per requirement on evening hrs in calm winds. ➤ Harvest and thresh the mature crop.
Barley	General	<ul style="list-style-type: none"> ➤ To control of weeds watering as per requirement & top dressing of recommended amount of Nitrogen may be done in Barley. ➤ Upon the outbreak of the maahu disease in barley , spray 1 litre of methyl-o-dimethane 25 E.C. or Dimethoate 30 E.C. or emydiclopreed 17.8 S.L. with 600-750 litre of water at the rate of 125 ml/hectare. ➤ Irrigation should be done at flowering stages. ➤ Harvest and thresh the mature crop.
Yellow gram	General	<ul style="list-style-type: none"> ➤ Weeding, hoeing, thinning & watering as per requirement may be done in early varieties of yellow gram along with top dressing of recommended amount of Nitrogen and undertake plant protection measures as per requirement. ➤ To control leaf roller insect spray the solution of Monocrotophos 36 EC @ 1liter/hectare dissolving in 800 liter of water. ➤ For prevention of pigeon flies spread spray the solution of 1 litre per hectare of Melathian 50 E.C. or Dimethoate 30 E.C. ➤ Harvest and thresh the matured crops of yellow gram.
Gram	General	<ul style="list-style-type: none"> ➤ Irrigate the crops timely. ➤ For weeding, cazilofas ethyl may be sprayed. ➤ Spray solution of B. Powder 1 kg/hect. Or H.A.N.P.V. 250mi/hect. with 350-400 litre of water to control pest attack. ➤ To protect whole helcoverpa armigera to spray quonolophas 25 EC @ 2.0 il/ha in 500-600 water solution on chickpea. ➤ Harvest and thresh the matured crops of gram.

Pea	Maturity	<ul style="list-style-type: none"> ➤ Weeding, hoeing & watering as per requirement on the stage blossoming along with use of recommended fertilizers may be done in Vegetable Pea and to control Bukni disease spray solution of Tridomarf 80 E.C. @ 500-800 ml/hectare dissolving in 800 liter of water at least two times duration of 10-12 days. ➤ Watchful insect and pest due to cloudy weather and high temperature.
Lentil	Sowing / Emergence	<ul style="list-style-type: none"> ➤ Weeding, hoeing and watering as per requirement along with top dressing of recommended amount of Nitrogen may be done. ➤ Watchful insect and pest due to cloudy weather and high temperature.
Barseen	Sowing / Emergence	<ul style="list-style-type: none"> ➤ To control of weeds watering & top dressing of recommended amount of Nitrogen may be done in Barseen.
Rai & Mustard	General	<ul style="list-style-type: none"> ➤ To control Mahu and bug insect attack apply methyl-o-demeton 25 percent E.C. or Chloropyrifos 20 percent E.C. at rate of 1 litre per hectare with 600-750 litre of water. ➤ Harvest the mature crop. ➤ Watchful insect and pest due to cloudy weather and high temperature. ➤ Farmers are advised for harvesting of mustard crop followed by threshing.
Jwar & Bazra	Sowing / Emergence	<ul style="list-style-type: none"> ➤ Weeding & watering as per requirement may be done along with top dressing of recommended amount of Nitrogen. ➤ Sow the recommended varieties of bajara i.e. I.C.M.V.-221, I.C.T.P.-8203, RAJ-171, PUSA COMPOSITE-383 and hybrid varieties are 86 M.-52, G.H.B.-526, G.H.B.-558 and P.B.-180. ➤ For single cutting of Jawar, sow the recommended varieties Op.c.-6,9,23, h.c.-171,260, u.p. chari-1,2 and of multi cutting varieties.
Maize & Lobia	Sowing / Emergence	<ul style="list-style-type: none"> ➤ Control of weeds along with top dressing of recommended amount of Nitrogen may be done in Maize-Lobia as a green food for cattle. ➤ Sow the advanced varieties of lobia i.e. Kohinoor, sweta, B.L.-1, bundeli lobia-2,3, G.F.C.-1,2,3, &4, U.P.C.-618,622 and E.C.-4216. ➤ Sow the advanced varieties of maize i.e. African taal, vision composite, moti composite, jawahar composite, B.L.-52, A.P.F.M.-8

		and pratap makka chari-6.
Toria	Vegetative	<ul style="list-style-type: none"> ➤ Weeding, hoeing and light watering as per requirement on the stage of blossoming may be done along with top dressing of recommended amount of Nitrogen may be done in Toria and to control Mahu insect, sawfly spray the solution of Malatheaon 50E.C @1.5 litre/Hectare dissolving in 800 litre water & harvesting of Toria may be done as per maturity of crop . ➤ Farmers are advised for harvesting of toria crop followed by threshing.
Alsi	Vegetative	<ul style="list-style-type: none"> ➤ To control of weeds top dressing of recommended amount of Nitrogen may be done in Alsi after 25-30 days of sowing.
Jayad-Maize	Emergence	<ul style="list-style-type: none"> ➤ Farmers are advised to arrange the seeds of any one of recommended package species of maize-navjyoti, kanchan, gaurav, surya, naveen, shweta, azad uttam and hybrid species –prakash, dakkan-115, MMH-135, pro-4212, ganga-11, pusha, early hybrid maize-2, JH-3459 etc. ➤ Top dressing of urea at optimum moisture during knee height. ➤ <i>Thinning of maize should be done after 10-15 days of sowing.</i> ➤ <i>Weeding and hoeing should be done ,if crop is one month old.</i>
Sugarcane	Sowing/ Emergence	<ul style="list-style-type: none"> ➤ Start sowing of sugarcane as soon as possible. ➤ Irrigate the winter sugarcane and top dressed with recommended nitrogen. ➤ Moong, urad and lobia can be sow as co-crops with spring sugarcane before this treat them with risobium culture. ➤ In the water logging areas sowing should be done in the months of February and march in any circumstances. ➤ Undertake planting of spring season crop. ➤ Undertake sowing of certified seed of recommended disease resistant variety after proper field preparation and manure and fertilizers application.
Turmeric & Ginger	Vegetative	<ul style="list-style-type: none"> ➤ Weeding hoeing and watering as per requirement may be done in Turmeric and to control stem borer insect spray the solution of Dimethoate @1.5 ml/liter in water. ➤ Digging & Marketing work in Ginger may be done as per maturity.
Potato	Vegetative	<ul style="list-style-type: none"> ➤ Digging should be done for matured potatoes and kept them at safe and dark place. ➤ For seeds, store the medium size budded potatoes immediately. ➤ Before storage of potatoes, remove, grade the bud of potatoes and treat them with 3 percent of boric acid for 30 minutes.
Rabi	Emergence	<ul style="list-style-type: none"> ➤ Weeding, hoeing, use of recommended fertilizers and watering as per requirement may be done in transplanted plants of

Vegetables		Rabi vegetables.
Early varieties Vegetables	Emergence	<ul style="list-style-type: none"> ➤ Undertake sowing of cucurbits crops. ➤ The farmers are advised for sowing of chilli, tomato and brinjal crops in the nursery and transplantation of young seedlings may be done in this week. ➤ Undertake sowing in vacant field. Undertake irrigation intercultural operations and plant protection measures to already sown crops. ➤ Upon the outbreak of red insect in cucurbits vegetables spray Melathiyam 5 percent dust around the stem of plants in the soil. ➤ Prepare seedlings of cucurbitaceous vegetables in polythene bags under net house for getting early produce. ➤ To avoid the outbreak of mite, spray daikophal at the rate of 1-1.5 litre per hectare. ➤ Undertake intercultural operations and irrigation in standing crop as per requirement. ➤ Undertake sowing of certified seed of recommended disease resistant variety after proper field preparation and manure and fertilizers application.
Vegetable Pea	Maturity/Harvesting	<ul style="list-style-type: none"> ➤ Weeding, hoeing & watering as per requirement on the stage blossoming along with use of recommended fertilizers may be done in Vegetable Pea and to control Bukni disease spray solution of Tridomarf 80 E.C. @ 500 ml/hectare dissolving in 800 liter of water at least two times duration of 10-12 days & plucking/marketing of ready Pea may be done.
Garlic	General	<ul style="list-style-type: none"> ➤ Undertake irrigation and inter-cultural operations as per requirement.
Onion	General	<ul style="list-style-type: none"> ➤ Complete transplantation of ready onion as soon as possible and irrigate immediately after transplanting. ➤ If damping off disease is visible in nursery of onion, spray solution of Thirum 2.5 gm/sq.metre or carbendazim 1gm/sq.m or maikozeb 2.5gm/sq.m . ➤ Spray Macozeb 2 gm./l for the prevention of purple bright disease in onions. ➤ Undertake intercultural operations and irrigation in standing crop as per requirement. ➤ Weeding, hoeing and irrigation should be done as per recommendation.
Banana	Transplant/Pest control	<ul style="list-style-type: none"> ➤ Use appropriate quantity of fertilizers to newly transplanted plants and transplant the new plants. ➤ Mix 50-60 gram Urea & 200-250 gram Murate of Potash in soil around per plant in Banana by hoeing and watering as per requirement may be done in interval of 10-12 days along with cutting of unwanted leaves.

		<ul style="list-style-type: none"> ➤ Use recommended fertilizer in ready transplanted plants may be done & transplant the new plants of Banana. ➤ If leaf spot and rotten disease are being seen in banana ,to control such diseases use bovestin or carbondazim 1 gm/litre mix in water and spray the solution. ➤ In the orchards of banana, mix 100-125 gram D.A.P. fertilizer per plant and after flowering give them wooden support.
Mango	Flowering/ Pest control	<ul style="list-style-type: none"> ➤ To control branch insect & Shulk insect in mango tree, spray the solution of Diazenon 2 ml per litre in water or Di-Methoate30 EC@ 1.5 ml per liter in two times, in the interval of 15 days. ➤ Transplant the Mango plants in pits, digged earlier for transplant of new gardens of all fruits along with hoeing work. ➤ Farmers are advice for grafting in mango to change the Desi varieties to improve varieties. ➤ Pest attack may be seen at time of flowering, to protect it from attack spread dimethoate 1.5 ml/l with water. ➤ For protection from Kharra and Dahiya disease ,spray 0.2 soluble sulphur and Tradomarf 0.1 percent after 10-15 days. ➤ At present mango crop is at flowering/ fruit setting stage, at this stage infestation of mango hopper are commonly observed. Therefore farmers are advised to keep the mango orchards clean. ➤ To prevent the outbreak of Bhunga disease , spray varticilium lekenai at the rate of 3 ml per litre. ➤ Remove the perverted flowers / manjaries of mango.
Lemon	Maturity	<ul style="list-style-type: none"> ➤ Plucking, marketing of ready fruits of Lemon class may be done & to control Bug-inset spray the solution of Cunolphos 25EC@ 1ml per litre in water in clear weather condition Farmers are advice for grafting in Lemon class fruits to change the Desi varieties to improve varieties.

(R.P.KURIL)
For DIRECTOR I/C
M.C.LUCKNOW

Forecast Issuing Authority Agro met. Advisory Service Unit,

Met. Centre, Lucknow

PART-II

District wise Agro met Advisories

Bulletin No.31/18

ISSUING DATE: 20.04.2018

Crops	Crop stage	
		<u>I.</u> <u>NODAL OFFICER, MODIPURAM:</u> Districts: Meerut, Pilibhit, Saharanpur, Muzaffarnagar, Baghpat, Ghaziabad, Gautambudhnagar, Aligarh, Bulandshahar, Moradabad, Jyotiba phule Nagar, Bijnore, Badaun, Bareilly, Rampur, Shahjahanpur, Farrukhabad, Shamali, Sambhal and Hapur
<i>Rabi crop</i>	Emergence	<ul style="list-style-type: none">➤ In view of upcoming condition Farmers are advised to undertake irrigation, spray the pesticides ,insecticides and Fertilisers .➤ Rabi crops will require timely irrigation because in next coming days, day and night temperature will increase gradually and humidity will fall down.➤ Soil testing is the base for management decisions about fertilizer requirements.. Fertilizer addition, which is based on soil testing, usually leads to an increase in yields and profits by providing the correct amounts of needed nutrients. Regular soil testing also contributes to environmental sustainability as the use of excess fertilizers can be avoided.
<i>Jayad crop</i>	Sowing / Emergence	<ul style="list-style-type: none">➤ Prepare the field for sowing of jayad crop.➤ First irrigation of urad and Moong should be done after 30-35 days of sowing otherwise nitrogen stabilization glands will be produce less because of improper growth.➤ After 15-20 days of sowing and before irrigation of sunflower keep the packaged species of plants at distance of 15 cm from each other and hybrid plants at 25-30 cm from each other by thinning.➤ Irrigate timely sowing crops of urd after 30-35 days of sowing.➤ Within the next week complete the sowing operation of Moong .
<i>Wheat</i>	Harvesting	<ul style="list-style-type: none">➤ Irrigate standing crop as per requirement.

		<ul style="list-style-type: none"> ➤ Upon the outbreak of termites in standing crop with irrigation, apply 20 percent Chloropyrifos E.C. with rate of 2.5 litre/ hectare. ➤ Upon the outbreak of the maahu disease in wheat, spray 1 litre of methyl-o-dimethane 25 E.C. or Dimethoate 30 E.C. or emydiclopreed 17.8 S.L. with 600-750 litre of water at the rate of 125 ml/hectare. ➤ To avoid the outbreak of rat in standing crop of wheat, use poisonous husk of zinc phosphate or barium carbonate. ➤ Irrigate standing crop as per requirement on evening hrs in calm winds. ➤ Harvest and thresh the mature crop.
Barley	General	<ul style="list-style-type: none"> ➤ To control of weeds watering as per requirement & top dressing of recommended amount of Nitrogen may be done in Barley. ➤ Upon the outbreak of the maahu disease in barley , spray 1 litre of methyl-o-dimethane 25 E.C. or Dimethoate 30 E.C. or emydiclopreed 17.8 S.L. with 600-750 litre of water at the rate of 125 ml/hectare. ➤ Irrigation should be done at flowering stages. ➤ Harvest and thresh the mature crop.
Yellow gram	General	<ul style="list-style-type: none"> ➤ Weeding, hoeing, thinning & watering as per requirement may be done in early varieties of yellow gram along with top dressing of recommended amount of Nitrogen and undertake plant protection measures as per requirement. ➤ To control leaf roller insect spray the solution of Monocrotophos 36 EC @ 1liter/hectare dissolving in 800 liter of water. ➤ For prevention of pigeon flies spread spray the solution of 1 litre per hectare of Melathian 50 E.C. or Dimethoate 30 E.C. ➤ Harvest and thresh the matured crops of yellow gram.
Gram	General	<ul style="list-style-type: none"> ➤ Irrigate the crops timely. ➤ For weeding, cazilofas ethyl may be sprayed. ➤ Spray solution of B. Powder 1 kg/hect. Or H.A.N.P.V. 250mi/hect. with 350-400 litre of water to control pest attack. ➤ To protect whole helcoverpa armigera to spray quonolophas 25 EC @ 2.0 il/ha in 500-600 water solution on chickpea. ➤ Harvest and thresh the matured crops of gram.
Pea	Maturity	<ul style="list-style-type: none"> ➤ Weeding, hoeing & watering as per requirement on the stage blossoming along with use of recommended fertilizers may be done in Vegetable Pea and to control Bukni disease spray solution of Tridomarf 80 E.C. @ 500-800 ml/hectare dissolving in 800 liter of water at least two times duration of 10-12 days. ➤ Watchful insect and pest due to cloudy weather and high temperature.

Lentil	Sowing / Emergence	<ul style="list-style-type: none"> ➤ Weeding, hoeing and watering as per requirement along with top dressing of recommended amount of Nitrogen may be done. ➤ Watchful insect and pest due to cloudy weather and high temperature.
Barseen	Sowing / Emergence	<ul style="list-style-type: none"> ➤ To control of weeds watering & top dressing of recommended amount of Nitrogen may be done in Barseen.
Rai & Mustard	General	<ul style="list-style-type: none"> ➤ To control Mahu and bug insect attack apply methyl-o-demeton 25 percent E.C. or Chloropyrifos 20 percent E.C. at rate of 1 litre per hectare with 600-750 litre of water. ➤ Harvest the mature crop. ➤ Watchful insect and pest due to cloudy weather and high temperature. ➤ Farmers are advised for harvesting of mustard crop followed by threshing.
Jwar & Bazra	Sowing / Emergence	<ul style="list-style-type: none"> ➤ Weeding & watering as per requirement may be done along with top dressing of recommended amount of Nitrogen. ➤ Sow the recommended varieties of bajara i.e. I.C.M.V.-221, I.C.T.P.-8203, RAJ-171, PUSA COMPOSITE-383 and hybrid varieties are 86 M.-52, G.H.B.-526, G.H.B.-558 and P.B.-180. ➤ For single cutting of Jawar, sow the recommended varieties Op.c.-6,9,23, h.c.-171,260, u.p. chari-1,2 and of multi cutting varieties.
Maize & Lobia	Sowing / Emergence	<ul style="list-style-type: none"> ➤ Control of weeds along with top dressing of recommended amount of Nitrogen may be done in Maize-Lobia as a green food for cattle. ➤ Sow the advanced varieties of lobia i.e. Kohinoor, sweta, B.L.-1, bundeli lobia-2,3, G.F.C.-1,2,3, &4, U.P.C.-618,622 and E.C.-4216. ➤ Sow the advanced varieties of maize i.e. African taal, vision composite, moti composite, jacamar composite, B.L.-52, A.P.F.M.-8 and pratap makka chari-6.
Toria	Vegetative	<ul style="list-style-type: none"> ➤ Weeding, hoeing and light watering as per requirement on the stage of blossoming may be done along with top dressing of recommended amount of Nitrogen may be done in Toria and to control Mahu insect, sawfly spray the solution of Malatheaon 50E.C @1.5 litre/Hectare dissolving in 800 litre water & harvesting of Toria may be done as per maturity of crop . ➤ Farmers are advised for harvesting of Toria crop followed by threshing.

Alsi	Vegetative	<ul style="list-style-type: none"> ➤ To control of weeds top dressing of recommended amount of Nitrogen may be done in Alsi after 25-30 days of sowing.
Jayad-Maize	Emergence	<ul style="list-style-type: none"> ➤ Farmers are advised to arrange the seeds of any one of recommended package species of maize-navjyoti, kanchan, gaurav, surya, naveen, shweta, azad uttam and hybrid species –prakash, dakkan-115, MMH-135, pro-4212, ganga-11, pusha, early hybrid maize-2, JH-3459 etc. ➤ Top dressing of urea at optimum moisture during knee height. ➤ <i>Thinning of maize should be done after 10-15 days of sowing.</i> ➤ <i>Weeding and hoeing should be done ,if crop is one month old.</i>
Sugarcane	Sowing/ Emergence	<ul style="list-style-type: none"> ➤ Start sowing of sugarcane as soon as possible. ➤ Irrigate the winter sugarcane and top dressed with recommended nitrogen. ➤ Moong, urad and lobia can be sow as co-crops with spring sugarcane before this treat them with risobium culture. ➤ In the water logging areas sowing should be done in the months of February and march in any circumstances. ➤ Undertake planting of spring season crop. ➤ Undertake sowing of certified seed of recommended disease resistant variety after proper field preparation and manure and fertilizers application.
Turmeric & Ginger	Vegetative	<ul style="list-style-type: none"> ➤ Weeding hoeing and watering as per requirement may be done in Turmeric and to control stem borer insect spray the solution of Dimethoate @1.5 ml/liter in water. ➤ Digging & Marketing work in Ginger may be done as per maturity.
Potato	Vegetative	<ul style="list-style-type: none"> ➤ Digging should be done for matured potatoes and kept them at safe and dark place. ➤ For seeds, store the medium size budded potatoes immediately. ➤ Before storage of potatoes, remove, grade the bud of potatoes and treat them with 3 percent of boric acid for 30 minutes.
Rabi Vegetables	Emergence	<ul style="list-style-type: none"> ➤ Weeding, hoeing, use of recommended fertilizers and watering as per requirement may be done in transplanted plants of Rabi vegetables.
Early varieties Vegetables	Emergence	<ul style="list-style-type: none"> ➤ Undertake sowing of cucurbits crops. ➤ The farmers are advised for sowing of chilli, tomato and brinjal crops in the nursery and transplantation of young seedlings may be done in this week. ➤ Undertake sowing in vacant field. Undertake irrigation intercultural operations and plant protection measures to already sown crops.

		<ul style="list-style-type: none"> ➤ Upon the outbreak of red insect in cucurbits vegetables spray Melathian 5 percent dust around the stem of plants in the soil. ➤ Prepare seedlings of cucurbitaceous vegetables in polythene bags under net house for getting early produce. ➤ To avoid the outbreak of miete , spray daikophal at the rate of 1-1.5 litre per hectare. ➤ Undertake intercultural operations and irrigation in standing crop as per requirement. ➤ Undertake sowing of certified seed of recommended disease resistant variety after proper field preparation and manure and fertilizers application.
Vegetable Pea	Maturity/ Harvesting	<ul style="list-style-type: none"> ➤ Weeding, hoeing & watering as per requirement on the stage blossoming along with use of recommended fertilizers may be done in Vegetable Pea and to control Bukni disease spray solution of Tridomarf 80 E.C. @ 500 ml/hectare dissolving in 800 liter of water at least two times duration of 10-12 days & plucking/marketing of ready Pea may be done.
Garlic	General	<ul style="list-style-type: none"> ➤ Undertake irrigation and inter-cultural operations as per requirement.
Onion	General	<ul style="list-style-type: none"> ➤ Complete transplantation of ready onion as soon as possible and irrigate immediately after transplanting. ➤ If damping off disease is visible in nursery of onion, spray solution of Thiram 2.5 gm/sq.metre or carbendazim 1gm/sq.m or maikozeb 2.5gm/sq.m . ➤ Spray Macozeb 2 gm./l for the prevention of purple bright disease in onions. ➤ Undertake intercultural operations and irrigation in standing crop as per requirement. ➤ Weeding, hoeing and irrigation should be done as per recommendation.
Banana	Transplant/ Pest control	<ul style="list-style-type: none"> ➤ Use appropriate quantity of fertilizers to newly transplanted plants and transplant the new plants. ➤ Mix 50-60 gram Urea & 200-250 gram Murate of Potash in soil around per plant in Banana by hoeing and watering as per requirement may be done in interval of 10-12 days along with cutting of unwanted leaves. ➤ Use recommended fertilizer in ready transplanted plants may be done & transplant the new plants of Banana. ➤ If leaf spot and rotten disease are being seen in banana ,to control such diseases use bovestin or carbondazim 1 gm/litre mix in water and spray the solution. ➤ In the orchards of banana, mix 100-125 gram D.A.P. fertilizer per plant and after flowering give them wooden support.
Mango	Flowering/ Pest control	<ul style="list-style-type: none"> ➤ To control branch insect & Shulk insect in mango tree, spray the solution of Diazenon 2 ml per litre in water or Di-Methoate30 EC@ 1.5 ml per liter in two times, in the interval of 15 days. ➤ Transplant the Mango plants in pits, digged earlier for transplant of new gardens of all fruits along with hoeing work. ➤ Farmers are advice for grafting in mango to change the Desi varieties to improve varieties.

		<ul style="list-style-type: none"> ➤ Pest attack may be seen at time of flowering, to protect it from attack spread Dimethoate 1.5 ml/l with water. ➤ For protection from Kharra and Dahiya disease ,spray 0.2 soluble sulphur and Tridomarf 0.1 percent after 10-15 days. ➤ At present mango crop is at flowering/ fruit setting stage, at this stage infestation of mango hopper are commonly observed. Therefore farmers are advised to keep the mango orchards clean. ➤ To prevent the outbreak of Bhunga disease , spray varticilium lekenai at the rate of 3 ml per litre. ➤ Remove the perverted flowers / manjaries of mango.
Lemon	Maturity	<ul style="list-style-type: none"> ➤ Plucking, marketing of ready fruits of Lemon class may be done & to control Bug-inset spray the solution of Cunolphos 25EC@ 1ml per litre in water in clear weather condition Farmers are advice for grafting in Lemon class fruits to change the Desi varieties to improve varieties.

(R.P.KURIL)
For DIRECTOR I/C
M.C.LUCKNOW

Forecast Issuing Authority Agro met. Advisory Service Unit,
Met. Centre, Luck now
PART-II
District wise Agro met Advisories

Bulletin No.31/18

ISSUING DATE: 20.04.2018

Crops	Crop stage	<u>I.</u> <u>NODAL OFFICER, VARANASI (B.H.U.):</u> Districts: Varanasi, Azamgarh, Ghazipur, Chandauli, Sonbhadra, Mirzapur, Sant Ravidasnagar, Jaunpur and Mau
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Rabi crop	Emergence	<ul style="list-style-type: none"> ➤ In view of upcoming condition Farmers are advised to undertake irrigation, spray the pesticides ,insecticides and Fertilizers. ➤ Rabi crops will require timely irrigation because in next coming days, day and night temperature will increase gradually and humidity will fall down. ➤ Soil testing is the base for management decisions about fertilizer requirements.. Fertilizer addition, which is based on soil testing, usually leads to an increase in yields and profits by providing the correct amounts of needed nutrients. Regular soil testing also contributes to environmental sustainability as the use of excess fertilizers can be avoided.
Jayad crop	Sowing / Emergence	<ul style="list-style-type: none"> ➤ Prepare the field for sowing of jayad crop. ➤ First irrigation of urad and Moong should be done after 30-35 days of sowing otherwise nitrogen stabilization glands will be produce less because of improper growth. ➤ After 15-20 days of sowing and before irrigation of sunflower keep the packaged species of plants at distance of 15 cm from each other and hybrid plants at 25-30 cm from each other by thinning. ➤ Irrigate timely sowing crops of urd after 30-35 days of sowing. ➤ Within the next week complete the sowing operation of Moong .
Wheat	Harvesting	<ul style="list-style-type: none"> ➤ Irrigate standing crop as per requirement. ➤ Upon the outbreak of termites in standing crop with irrigation, apply 20 percent Chloropyrifos E.C. with rate of 2.5 litre/ hectare. ➤ Upon the outbreak of the maahu disease in wheat, spray 1 litre of methyl-o-dimethane 25 E.C. or Dimethoate 30 E.C. or emydiclopreed 17.8 S.L. with 600-750 litre of water at the rate of 125 ml/hectare. ➤ To avoid the outbreak of rat in standing crop of wheat, use poisonous husk of zinc phosphate or barium carbonate. ➤ Irrigate standing crop as per requirement on evening hrs in calm winds. ➤ Harvest and thresh the mature crop.
Barley	General	<ul style="list-style-type: none"> ➤ To control of weeds watering as per requirement & top dressing of recommended amount of Nitrogen may be done in Barley. ➤ Upon the outbreak of the maahu disease in barley , spray 1 litre of methyl-o-dimethane 25 E.C. or Dimethoate 30 E.C. or emydiclopreed 17.8 S.L. with 600-750 litre of water at the rate of 125 ml/hectare. ➤ Irrigation should be done at flowering stages.

		➤ Harvest and thresh the mature crop.
Yellow gram	General	<ul style="list-style-type: none"> ➤ Weeding, hoeing, thinning & watering as per requirement may be done in early varieties of yellow gram along with top dressing of recommended amount of Nitrogen and undertake plant protection measures as per requirement. ➤ To control leaf roller insect spray the solution of Monocrotophos 36 EC @ 1liter/hectare dissolving in 800 liter of water. ➤ For prevention of pigeon flies spread spray the solution of 1 litre per hectare of Melathian 50 E.C. or Dimethoate 30 E.C. ➤ Harvest and thresh the matured crops of yellow gram.
Gram	General	<ul style="list-style-type: none"> ➤ Irrigate the crops timely. ➤ For weeding, cazilofas ethyl may be sprayed. ➤ Spray solution of B. Powder 1 kg/hect. Or H.A.N.P.V. 250mi/hect. with 350-400 litre of water to control pest attack. ➤ To protect whole helcoverpa armigera to spray quonolophas 25 EC @ 2.0 il/ha in 500-600 water solution on chickpea. ➤ Harvest and thresh the matured crops of gram.
Pea	Maturity	<ul style="list-style-type: none"> ➤ Weeding, hoeing & watering as per requirement on the stage blossoming along with use of recommended fertilizers may be done in Vegetable Pea and to control Bukni disease spray solution of Tridomarf 80 E.C. @ 500-800 ml/hectare dissolving in 800 liter of water at least two times duration of 10-12 days. ➤ Watchful insect and pest due to cloudy weather and high temperature.
Lentil	Sowing / Emergence	<ul style="list-style-type: none"> ➤ Weeding, hoeing and watering as per requirement along with top dressing of recommended amount of Nitrogen may be done. ➤ Watchful insect and pest due to cloudy weather and high temperature.
Barseen	Sowing / Emergence	<ul style="list-style-type: none"> ➤ To control of weeds watering & top dressing of recommended amount of Nitrogen may be done in Barseen.
Rai & Mustard	General	<ul style="list-style-type: none"> ➤ To control Mahu and bug insect attack apply methyl-o-demeton 25 percent E.C. or Chloropayrifos 20 percent E.C. at rate of 1 litre per hectare with 600-750 litre of water. ➤ Harvest the mature crop. ➤ Watchful insect and pest due to cloudy weather and high temperature. ➤ Farmers are advised for harvesting of mustard crop followed by threshing.
Jwar &	Sowing /	<ul style="list-style-type: none"> ➤ Weeding & watering as per requirement may be done along with top dressing of recommended amount of Nitrogen.

Bazra	Emergence	<ul style="list-style-type: none"> ➤ Sow the recommended varieties of bajara i.e. I.C.M.V.-221, I.C.T.P.-8203, RAJ-171, PUSA COMPOSITE-383 and hybrid varieties are 86 M.-52, G.H.B.-526, G.H.B.-558 and P.B.-180. ➤ For single cutting of Jawar, sow the recommended varieties Op.c.-6,9,23, h.c.-171,260, u.p. chari-1,2 and of multi cutting varieties.
Maize & Lobia	Sowing / Emergence	<ul style="list-style-type: none"> ➤ Control of weeds along with top dressing of recommended amount of Nitrogen may be done in Maize-Lobia as a green food for cattle. ➤ Sow the advanced varieties of lobia i.e. Kohinoor, sweta, B.L.-1, bundeli lobia-2,3, G.F.C.-1,2,3, &4, U.P.C.-618,622 and E.C.-4216. ➤ Sow the advanced varieties of maize i.e. African taal, vision composite, moti composite, jacamar composite, B.L.-52, A.P.F.M.-8 and pratap makka chari-6.
Toria	Vegetative	<ul style="list-style-type: none"> ➤ Weeding, hoeing and light watering as per requirement on the stage of blossoming may be done along with top dressing of recommended amount of Nitrogen may be done in Toria and to control Mahu insect, sawfly spray the solution of Malatheaon 50E.C @1.5 litre/Hectare dissolving in 800 litre water & harvesting of Toria may be done as per maturity of crop . ➤ Farmers are advised for harvesting of toria crop followed by threshing.
Alsi	Vegetative	<ul style="list-style-type: none"> ➤ To control of weeds top dressing of recommended amount of Nitrogen may be done in Alsi after 25-30 days of sowing.
Jayad-Maize	Emergence	<ul style="list-style-type: none"> ➤ Farmers are advised to arrange the seeds of any one of recommended package species of maize-navjyoti, kanchan, gaurav, surya, naveen, shweta, azad uttam and hybrid species –prakash, dakkan-115, MMH-135, pro-4212, ganga-11, pusha, early hybrid maize-2, JH-3459 etc. ➤ Top dressing of urea at optimum moisture during knee height. ➤ <i>Thinning of maize should be done after 10-15 days of sowing.</i> ➤ <i>Weeding and hoeing should be done ,if crop is one month old.</i>
Sugarcane	Sowing/ Emergence	<ul style="list-style-type: none"> ➤ Start sowing of sugarcane as soon as possible. ➤ Irrigate the winter sugarcane and top dressed with recommended nitrogen. ➤ Moong, urad and lobia can be sow as co-crops with spring sugarcane before this treat them with risobium culture. ➤ In the water logging areas sowing should be done in the months of February and march in any circumstances. ➤ Undertake planting of spring season crop.

		<ul style="list-style-type: none"> ➤ Undertake sowing of certified seed of recommended disease resistant variety after proper field preparation and manure and fertilizers application.
Turmeric & Ginger	Vegetative	<ul style="list-style-type: none"> ➤ Weeding hoeing and watering as per requirement may be done in Turmeric and to control stem borer insect spray the solution of Dimethoate @1.5 ml/liter in water. ➤ Digging & Marketing work in Ginger may be done as per maturity.
Potato	Vegetative	<ul style="list-style-type: none"> ➤ Digging should be done for matured potatoes and kept them at safe and dark place. ➤ For seeds, store the medium size budded potatoes immediately. ➤ Before storage of potatoes, remove, grade the bud of potatoes and treat them with 3 percent of boric acid for 30 minutes.
Rabi Vegetables	Emergence	<ul style="list-style-type: none"> ➤ Weeding, hoeing, use of recommended fertilizers and watering as per requirement may be done in transplanted plants of Rabi vegetables.
Early varieties Vegetables	Emergence	<ul style="list-style-type: none"> ➤ Undertake sowing of cucurbits crops. ➤ The farmers are advised for sowing of chilli, tomato and brinjal crops in the nursery and transplantation of young seedlings may be done in this week. ➤ Undertake sowing in vacant field. Undertake irrigation intercultural operations and plant protection measures to already sown crops. ➤ Upon the outbreak of red insect in cucurbits vegetables spray Melathiyam 5 percent dust around the stem of plants in the soil. ➤ Prepare seedlings of cucurbitaceous vegetables in polythene bags under net house for getting early produce. ➤ To avoid the outbreak of mite, spray daikophal at the rate of 1-1.5 litre per hectare. ➤ Undertake intercultural operations and irrigation in standing crop as per requirement. ➤ Undertake sowing of certified seed of recommended disease resistant variety after proper field preparation and manure and fertilizers application.
Vegetable Pea	Maturity/ Harvesting	<ul style="list-style-type: none"> ➤ Weeding, hoeing & watering as per requirement on the stage blossoming along with use of recommended fertilizers may be done in Vegetable Pea and to control Bukni disease spray solution of Tridomarf 80 E.C. @ 500 ml/hectare dissolving in 800 liter of water at least two times duration of 10-12 days & plucking/marketing of ready Pea may be done.
Garlic	General	<ul style="list-style-type: none"> ➤ Undertake irrigation and inter-cultural operations as per requirement.

Onion	General	<ul style="list-style-type: none"> ➤ Complete transplantation of ready onion as soon as possible and irrigate immediately after transplanting. ➤ If damping off disease is visible in nursery of onion, spray solution of Thirum 2.5 gm/sq.metre or carbendazim 1gm/sq.m or maikozeb 2.5gm/sq.m . ➤ Spray Macozeb 2 gm./l for the prevention of purple bright disease in onions. ➤ Undertake intercultural operations and irrigation in standing crop as per requirement. ➤ Weeding, hoeing and irrigation should be done as per recommendation.
Banana	Transplant/ Pest control	<ul style="list-style-type: none"> ➤ Use appropriate quantity of fertilizers to newly transplanted plants and transplant the new plants. ➤ Mix 50-60 gram Urea & 200-250 gram Murate of Potash in soil around per plant in Banana by hoeing and watering as per requirement may be done in interval of 10-12 days along with cutting of unwanted leaves. ➤ Use recommended fertilizer in ready transplanted plants may be done & transplant the new plants of Banana. ➤ If leaf spot and rotten disease are being seen in banana ,to control such diseases use bovestin or carbondazim 1 gm/litre mix in water and spray the solution. ➤ In the orchards of banana, mix 100-125 gram D.A.P. fertilizer per plant and after flowering give them wooden support.
Mango	Flowering/ Pest control	<ul style="list-style-type: none"> ➤ To control branch insect & Shulk insect in mango tree, spray the solution of Diazenon 2 ml per litre in water or Di-Methoate30 EC@ 1.5 ml per liter in two times, in the interval of 15 days. ➤ Transplant the Mango plants in pits, digged earlier for transplant of new gardens of all fruits along with hoeing work. ➤ Farmers are advice for grafting in mango to change the Desi varieties to improve varieties. ➤ Pest attack may be seen at time of flowering, to protect it from attack spread dimethoate 1.5 ml/l with water. ➤ For protection from Kharra and Dahiya disease ,spray 0.2 soluble sulphur and Tradomarf 0.1 percent after 10-15 days. ➤ At present mango crop is at flowering/ fruit setting stage, at this stage infestation of mango hopper are commonly observed. Therefore farmers are advised to keep the mango orchards clean. ➤ To prevent the outbreak of Bhunga disease , spray varticilium lekenai at the rate of 3 ml per litre. ➤ Remove the perverted flowers / manjaries of mango.
Lemon	Maturity	<ul style="list-style-type: none"> ➤ Plucking, marketing of ready fruits of Lemon class may be done & to control Bug-inset spray the solution of Cunolphos 25EC@ 1ml per litre in water in clear weather condition Farmers are advice for grafting in Lemon class fruits to change the Desi varieties to improve varieties.

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