

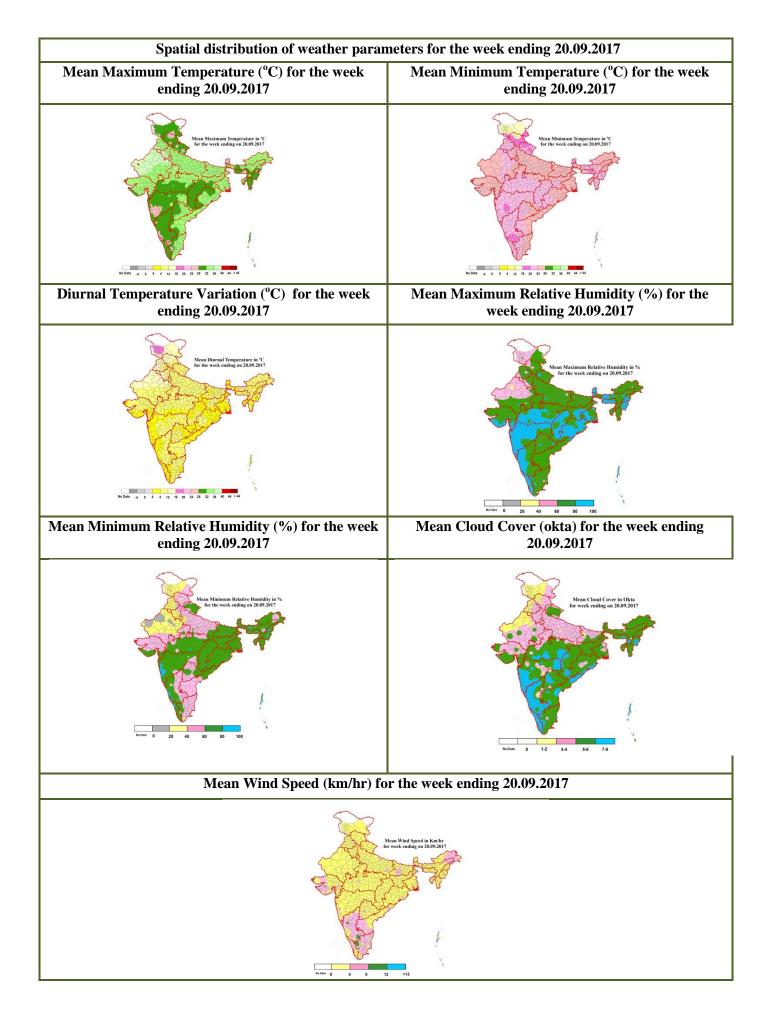
National Agromet Advisory Service Bulletin

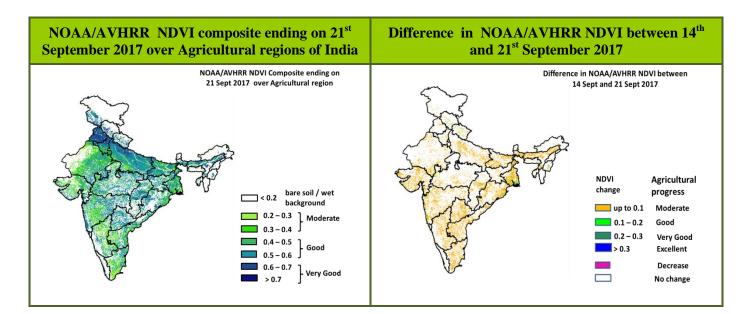
Friday 22nd September 2017 (For the period 22nd to 27th September 2017)

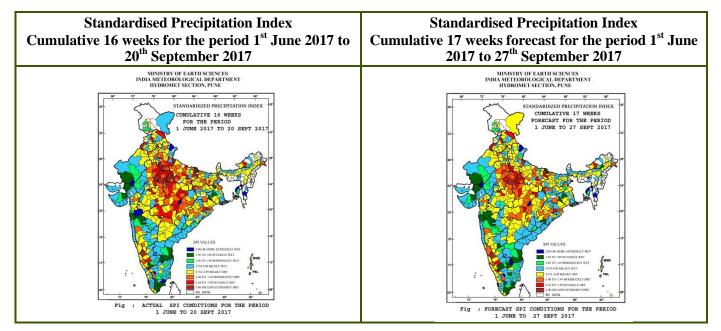
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Weather Forecast for next 5 days valid upto 0830 hours of 27th September 2017

- Meteorological sub-division wise detailed 5 day rainfall forecast is given below.
- No significant change in maximum temperatures over northwest India during next 24 hours and fall by 2-4°C thereafter. No significant change in maximum and minimum temperatures over rest parts of the country during next 2-3 days.

5 Day Rainfall Forecast (Mid-day) 22nd September 2017

Met-Sub-Division		22-S Tod		23Sep Sat	24Sep Sun	25Sep Mon	26Sep Tue
1. Andaman & Nicobar Islands		WS		WS	WS	WS	WS
2. Arunachal Pradesh		FW	S	SCT	SCT	SCT	SCT
3. Assam & Meghalaya		FW	s	SCT	SCT	SCT	SCT
4. N. M. M. & T.		FW	s	FWS	SCT	SCT	FWS
5. S.H. West Bengal & Sikkim		WS		FWS	FWS	SCT	SCT
6. Gangetic West Bengal		SC	r I	SCT	SCT	SCT	SCT
7. Odisha		SC	Г	SCT	SCT	SCT	SCT
8. Jharkhand		SC	r	SCT	SCT	ISOL	ISOL
9. Bihar		FW	s	SCT	SCT	ISOL	ISOL
10. East Uttar Pradesh		FW	s	FWS	FWS	FWS	SCT
11. West Uttar Pradesh		WS		FWS	FWS	ISOL	DRY
12. Uttarakhand		WS		WS	FWS	SCT	ISOL
13. Haryana, Chd & Delhi		WS		FWS	SCT	ISOL	DRY
14. Punjab		ISO	L	ISOL	DRY	DRY	DRY
15. Himachal Pradesh		WS		WS	FWS	ISOL	DRY
16. Jammu & Kashmir		ISO	L	SCT	SCT	DRY	DRY
17. West Rajsthan		ISO	L	ISOL	DRY	DRY	DRY
18. East Rajasthan		SC	r - 1	SCT	ISOL	DRY	DRY
19. West Madhya Pradesh		WS		SCT	ISOL	ISOL	DRY
20. East Madhya Pradesh		SC	r I	ISOL	ISOL	ISOL	ISOL
21. Gujarat Region		ISO	L	ISOL	DRY	DRY	DRY
22. Saurashtra & Kutch		DR	Y	DRY	DRY	DRY	DRY
23. Konkan & Goa		WS		SCT	SCT	SCT	SCT
24. Madhya Maharashtra		SC	ſ	SCT	SCT	FWS	FWS
25. Marathawada		FW	S	ISOL	ISOL	ISOL	SCT
26. Vidharbha		SC	r -	ISOL	ISOL	ISOL	ISOL
27. Chhattisgarh		SC	r	SCT	ISOL	SCT	ISOL
28. Coastal Andhra Pradesh		SC	r I	SCT	FWS	FWS	FWS
29. Telangana		SC	r - 1	SCT	FWS	FWS	FWS
30. Rayalaseema		SC	r	SCT	FWS	FWS	FWS
31. Tamilnadu & Puducherry		SC	r I	SCT	FWS	FWS	FWS
32. Coastal Karnataka		WS		FWS	FWS	FWS	FWS
33. North Interior Karnataka		SC	r	SCT	FWS	FWS	FWS
34. South Interior Karnataka		SC	r	SCT	FWS	FWS	WS
35. Kerala		FW	S	FWS	FWS	FWS	FWS
36. Lakshadweep			r -	SCT	FWS	FWS	FWS
	% Station	Repo	ortin	g Rainfa	all		
% Stations	% Stations Category		% Stations Category				
76-100			26-50		Scattered (SCT/ A Few Places)		

Weather Warning during next 5 days

1-25

Isolated (ISOL)

Fairly Widespred (FWS/ Many Places)

Dry

51-75 No Rain

• 22 September (Day 1): Heavy to very heavy rain with extremely heavy falls at isolated places very likely over Uttarakhand and West Uttar Pradesh; heavy to very heavy at isolated places over Himachal Pradesh and West Madhya Pradesh; heavy at isolated places over Assam & Meghalaya, Haryana, Chandigarh & Delhi, East Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Konkan & Goa and Andaman & Nicobar Islands. Thunderstorm very likely at isolated places over Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

- 23 September (Day 2): Heavy to very heavy rain at a few places over Uttrakhand and at isolated places over West Uttar Pradesh; heavy at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, East Uttar Pradesh Andaman & Nicobar Islands and Tamilnadu & Puducherry.
- **24 September (Day 3):** Heavy to very heavy rain at isolated places very likely over Andaman & Nicobar Islands; Heavy rain at isolated places over Rayalaseema, Interior Karnataka and Tamilnadu & Puducherry.
- **25 September (Day 4):** Heavy rain at isolated places very likely over Andaman & Nicobar Islands, coastal Andhra Pradesh, Rayalaseema, Interior Karnataka and Tamilnadu & Puducherry.
- 26 September (Day 5): Heavy rain at isolated places very likely over Andaman & Nicobar Islands, coastal Andhra Pradesh, Rayalaseema, Interior Karnataka and Tamilnadu & Puducherry.

Weather Outlook for subsequent 2 days from 27th to 29th September 2017

- A favourable interaction is taking place between the western disturbance and the well marked low pressure area over northern parts of central Madhya Pradesh.
- Conditions are likely to become favourable for commencement of withdrawal of south west monsoon from parts of northwest India around 28th September 2017.
- Rain at many places likely over Andaman & Nicobar Islands, northeast, east and peninsular India.
- Isolated to scattered rain likely over central and adjoining west India.
- Weather likely to be dry over most parts of northwest India.

Salient Advisories

- As per the forecast table and weather warning given above, the regions likely to receive rainfall at most/many places and heavy/heavy to very heavy rainfall, avoid intercultural operation and application of plant protection measures and fertilizers to the standing crops. Provide adequate drainage in in standing crop fields to avoid water stagnation.
- As thunderstorm very likely at isolated places over Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura on 22nd September, provide support to banana, young fruit plants and vegetables to prevent the crops from lodging due to strong winds. Undertake propping in sugarcane in Odisha.
- In Central Plain Zone of Uttar Pradesh, as rain is expected during the period, avoid irrigation in the paddy, maize and red gram crops.
- In the North and Southern Zone of Kerala, drain out excess water from vegetable and banana fields and ensure good drainage in the fields. In the Central Zone, due to continuous rain, there is chance of sigatoka disease in banana. As a precautionary measure, spray Pseudomonas 20g/litre of water. In case of severe attack, spray Bavistin @ 1 gm/litre of water on lower surface of leaf (by mixing with gum). If yellowing symptom due to downy mildew is observed in cucurbitaceous vegetables, apply Mancozeb @ 3g/litre of water. Undertake plant protection methods after current spells of rain.
- In Gujarat, as mainly dry weather is prevailing, maintain water level of 5-7 cm in rice fields and apply irrigation in cotton, castor and vegetables in Bhal and Coastal Zone. In South Saurashtra Zone, apply irrigation in sugarcane crop and vegetables. Undertake harvesting of sesame, pearl millet, green gram and cowpea.
- In Western Zone of **Punjab**, in the prevailing weather, there is chance of attack of leaf folder and plant hoppers in rice. Control leaf folder when leaf damage reaches 10 per cent by spraying 20 ml Fame 480 SC or 170g Mortar 75 SG or 350 ml Sutathion/ 40 EC in 100L of water /acre. The plant hoppers can be controlled by spraying 40 ml of Confidor/Crocodile 17.8 SL or 800 ml of Ekalux/Quinalmass 25 EC in 100 litres of water per acre.
- In Central Dry Zone of Karnataka, due to cloudy weather and drizzle, there is possibility of incidence of purple blotch in onion, to control, spray Chlorothalanin or Mancozeb @ 2 gram per liter with adhesive gum to the spraying mixture on a non rainy day.

Detailed Zonewise Agromet Advisories

SOUTH INDIA [TAMIL NADU, TELANGANA, ANDHRA PRADESH, KARNATAKA, KERALA]

Realised Rainfall: Rainfall occurred in all the districts of Kerala, all districts of Coastal Karnataka, Koppal, Raichur and Yadgir districts of North Interior Karnataka, all districts of South Interior Karnataka except Chikkamagaluru, Chitradurga, Davangere and Shivamogga, in Coimbatore, Kanyakumari, Nilgiris, Perambalur, Theni and Thirunelveli districts of Tamil Nadu, all districts of Coastal Andhra Pradesh except Guntur, Prakasam and Krishna, in all districts of Rayalaseema, in Hyderabad, Mahbubnagar, Medak, Nalgonda, Warangal and Rangareddy districts of Telangana during the week and weather remained mainly dry over rest of the region.

Advisories:

As rainfall is very likely at most/many places over Coastal Karnataka during the period, over South Interior Karnataka from 24th to 26th, at many places over and Kerala during the period, over North Interior Karnataka, Coastal Andhra Pradesh, Telangana, Rayalaseema and Tamil Nadu from 24th to 26th September, along with heavy rain at isolated places over Tamil Nadu and Puducherry from 23rd to 26th, over Rayalaseema and Interior Karnataka from 24th to 26th and over Coastal Andhra Pradesh on 25th and 26th September, avoid intercultural operation and application of plant protection measures and fertilizers to the standing crops. Provide adequate drainage in in standing crop fields to avoid water stagnation.

Kerala:

- In the North and Southern Zone, drain out excess water from vegetable fields and banana fields and ensure good drainage in the fields.
- In the Problem Area Zone, Nendran bunches are nearing harvest. Covering banana bunches especially Nendran varieties helps to improve the quality of bunches. As rain is expected, care should be taken to do harvest the bunches before noon. Give propping to protect the plants from lodging. Keep good quality sword suckers for next season.
- In the Central Zone, due to continuous rain, there is a chance of sigatoka disease in banana. As a precaution measure, spray Pseudomonas 20g/litre of water. In case of severe attack, spray Bavistin @ 1 gm/litre of water on lower surface of leaf (by mixing with gum). If yellowing symptom due to downy mildew is observed incucurbitaceous vegetables, apply Mancozeb @ 3g/litre of water. undertake plant protection methods after current spells of rain.

Karnataka:

- > In Central Dry Zone, undertake sowing of cotton.
- In Eastern Dry Zone, continue sowing of medium to short duration crops like ragi (Indaf-5, 9, MR-6, GPU-28, 48, ML-365), groundnut (JL-24, KCG-2, GBBD-4), cowpea (C-152, KM-5 and PKB-4 for vegetable purpose).
- ▶ In North Transition Zone, undertake weed control in groundnut, maize, soybean on a non rainy day.
- Incidence of leaf eating caterpillar is noticed in Soybean in North East Transition Zone; for effective management, application of Chlorpyrifos @ 2 ml / liter of water is recommended.
- In Central Dry Zone, due to cloudy weather and drizzle, there is possibility of incidence of purple blotch in onion, to control spray Chlorothalanin or Mancozeb @ 2 gram per liter with adhesive gum to the spraying mixture on a non rainy day.

Andhra Pradesh:

- In the Krishna Godavari Zone, prevailing rains create excess moisture field condition which will lead to iron chlorosis in younger red gram crop. To manage, spray FeSo4+citric acid on the standing crop. There is possibility of flowers square and early fruit drops in cotton. This can be managed by spraying Naphthalene acetic acid (N A A) 10 ppm by mixing with 1-2 % DAP twice within 10-15 days interval based on the need.
- In Chittoor and Kadapa districts of the Southern Zone, farmers are advised to take up sowing of crops like red gram, castor, green gram, cowpea, sorghum, bajra and horsegram utilizing the realized and expected rainfall.
- In Chittoor and Kadapa districts of the Southern Zone, continuous cloudy weather along with rain /drizzle is favourable for bacterial leaf blight in rice. To control, temporarily avoid Nitrogen application and drain out the water.

Telangana:

- In North Telangana Zone, undertake sowing of jowar(Magi Jower)
- In South Telangana Zone, prevailing weather conditions are congenial for the incidence of gray mould in castor. To control, spray Carbendazim @ 1g or Propiconazole @ 1 ml/litre of water. Incidence of Fusarium wilt was noticed in cotton. To control, drench the soil with Copper-Oxy-Chloride @ 30g and Plantamycin @ 2 g or Streptomycin @ 1 g/10 litres of water after current spells of rain.

Tamil Nadu:

- > In the Cauvery Delta Zone, continue transplanting of thaladi /samba rice.
- In the Western Zone, in cotton, to avoid flower shedding, spray NAA 40 PPM in 60 90 days after sowing. By utilizing realized rainfall, sowing of millets and maize can be initiated in the ploughed land. Harvest the rain water into farm pond to reuse the same during scarce period. Provide propping for early season and midseason planted

canes against lodging with heavy wind anticipated. Also protect banana crop against lodging by giving support. Prevailing cloudy weather with high relative humidity with drizzling is favorable for the sigatoka leaf spot in turmeric. Monitor the crop and spray Cholorothalanil @ 2g/litre of water after current spells of rain.

- > In the North Western Zone, undertake cultivation of small onions utilizing the realized rainfall.
- In the High Altitude Hilly Zone, to manage leaf rust disease in coffee plantation, foliar spray of Bordeaux mixture @ 5 g/litre of water can be done after current spells of rain.

• Animal Husbandry

- > In the Problem Area Zone of Kerala, avoid moist conditions in cattle shed to prevent incidence of foot rot.
- In the Central Zone of Kerala, adopt mosquito control measures. Cattle should not be allowed graze in water logged areas for avoiding diseases.
- In the Cauvery Delta Zone of Tamil Nadu, a lot of green fodder is available at this time, hence, to protect animals from problems associated with excess grazing like Enterotoxaemia disease, lambs should be vaccinated against Enterotoxaemia. To avoid green diarrhoea and a problem of Acidosis dry grasses can be mixed with green fodder and mix essential salts in the feed of the animals.
- > In Eastern Dry Zone of Karnataka, maintain optimum room temperature in poultry and sericulture unit.

NORTHEAST INDIA [ARUNACHAL PRADESH, NMM&T, ASSAM, MEGHALAYA]

Realised Rainfall: Rainfall occurred in Dibang Valley, East Kameng, Papumpara and Tawang districts of Arunachal Pradesh; Baksa, Barpeta, Bongaigaon, Cachar, Chirang, Gopalpara, Kamrup(Metro), Kamrup (Rural), Karimganj, Kokrajhar, Lakhimpur, Morigaon, N.C.Hills, Nagaon, Nalbari and Timsukia districts of Assam, East Garo Hills, East Khasi Hills, Ri-Bhoi and West Garo districts of Meghalaya, Aizwal, Lunglei and Serchip districts of Mizoram; Imphal East, Imphal West, Senapati and Thoubal districts of Manipur, Kohima and Phek districts of Nagaland and Dhalai, North Tripura, South Tripura and West Tripura districts of Tripura during the week and weather remained mainly dry over rest of the region.

Advisories:

- As rainfall is very likely at many places over Nagaland, Manipur, Mizoram & Tripura from 22nd, 23rd and 26th, over Arunachal Pradesh and Assam & Meghalaya on 22nd September, along with heavy rain at isolated places over Assam & Meghalaya on 22nd September, avoid intercultural operation and application of plant protection measures and fertilizers to the standing crops.
- As thunderstorm very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 22nd September, provide support to banana, young fruit plants and vegetables to prevent the crops from lodging due to strong winds.
- Assam & Meghalaya, Arunachal Pradesh:
- In the North Bank Plain Zone of Assam, undertake sowing of brinjal, tomato, carrot, spinach beet, knol khol, cabbage, cauliflower and radish. Maintain proper drainage in the pulses fields and carry out weeding and thinning operations.Present weather condition is favourable for attack of leaf folder and rice hispa at the tillering stage of paddy field. Spray Chloropyriphos 20EC or Monocrotophos 40EC @ 1.5ml per litre of wateron a non rainy day.
- In the Lower Brahmaputra Valley Zone, undertake sowing of bottle gourd varieties like Pusa Summer Prolific Long, Pusa Summer Prolific Round, Pusa Meghdoot and Pusa Manjiri with seed rate @ 2.2-3.2 kg/ha. Undertake sowing of improved varieties of Black gram such as T9, T27, Pant U 19, T122, Saonia mah (SB123), KU 301, USJD113 and of Green gram such as T44, Kopergaon, K851,ML56, ML131, SG1 (Pratap), SG21-5, etc. in areas having well-drained sandy loam soil. Undertake land preparation and sowing of brinjal and potato. Undertake nursery sowing of early cauliflower varieties like Early Kunwari, Pusa Dipali, Pusa Katki etc. in the seedbed. Treat the seeds before sowing with fungicides like Thiram or Captan @ 3 gm/kg of seeds.
- In Barak Valley Zone of Assam, undertake nursery bed preparation for winter vegetables. Prevent water logging in the banana field. For controlling mosaic and leaf curl disease in papaya plant, either rouge out the affected plants or spray with Rogar @ 0.1% after current spells of rain. For leaf miner and stem borer attack in the Sali rice field, apply Chlorpyriphos @ 2ml per litter of water.
- In the North Bank Plain Zone, repair the field bunds to reserve water in the paddy field. Apply 2nd dose of top dressing of urea @ 3 kg per bigha for semi dwarf and 1.5 kg per bigha for indigenous varieties of 25-30 days old paddy crop. Undertake sowing of brinjal, tomato, carrot, spinach beet, knol khol, cabbage, cauliflower and radish. Maintain proper drainage in the pulses fields.Present weather condition is favourable for attack of leaf folder and rice hispa at the tillering stage of paddy field. Spray Chloropyriphos 20EC or Monocrotophos 40 EC @ 1.5ml per litre of water for management.
- In Arunachal Pradesh, undertake harvesting of matured Jhum ricein clear weather. Undertake nursery sowing of hybrid tomato, cabbage and cauliflower on raised nursery beds. Remove excess sucker from Banana in mother plant and give support to banana bunches to protect them from falling due to heavy rain. Do not carry out spading/hoeing operations in the ground nut field as it may disturb the soil structure. Apply need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/litre against rice skipper & leaf folder using sticker. Spray

Carbendazim/Mancozeb @ 1-2 ml/lit of water for leaf spot/tikka disease in groundnut.

- In Meghalaya, maintain water level of 2-5 cm in paddy field from transplanting to maturity. The level should not exceed 5 cm particularly during tillering stage. Sow seeds of broccoli (var. pushpa, aiswarya, fiesta, lucky), cabbage (H-139) & cauliflower (local) in the nursery at 5-7cm spacing. Undertake sowing of French beans, dolichos beans, rajmash and cowpea during September at 30cm row to row 15cm plant to plant. Provide proper drainage to ginger, turmeric and soybean crops. Apply Bordeaux mixture (5:5:50) after 4 5weeks of sowing or Captan @ 1.5 g/l of water to prevent Leaf Spot disease in ginger. Spray Dichlorvos 100 EC @ 0.5 ml/litre or Chlorpyriphos 20 EC @ 1 ml/litre for hairy caterpillar, semilooper, leaf roller and flea beetle in soybean crop.
- Nagaland, Mizoram, Manipur and Tripura:
- In Nagaland, monitor constantly for leaf folder in TRC/WRC rice fields and use mechanical methods such as rope method for its management. Fix dead crabs, frogs or even pieces of jackfruit to bamboo sticks and place them in rice fields to attract/divert pests from sucking milk of rice grain. Carry out timely harvesting of cucurbits and okra. Carry out timely weeding and earthing up operation in brinjal, Naga king chilli and groundnut crops. Remove and destroy wilt affected brinjal plants. Provide proper drainage to soybean crop. Spray Neem oil @5ml/litre of water for aphids and white flies in ginger and turmeric crops.
- In Manipur, undertake land preparation for planting potato for early crop and also for production of seed after the rains in foothills and upland areas. Undertake sowing/planting of onions in upland areas. Undertake land preparation for sowing of French beans, broad beans and pea in fields having proper drainage facility. In kharif rice, spray Fipronil @ 2g/pump or Imidachloprid 17.8 SL @ 7 ml/ 15 litres for control of aphids and Coragen @ 3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water for control of borer, leaf folder & plant hopper after current spells of rain.
- In Tripura, carry out harvesting of groundnut crop in clear weather. Undertake sowing of winter vegetable like tomato, cauliflower, cabbage, broccoli, etc. on raised nursery beds. Give a foilar spray of Zinc Sulphate and spray of Boran @ 2gm per liter for better grain filling. Spray Penconazole 10% EC @ 1ml per liter of water or Dinocap 48% EC @ 2ml or Triadimefon 25% WP @ 0.3gm per liter of water after current spells of rain to manage the attack of powdery mildew in bitter gourd and pointed gourd.

Animal Husbandry

- In Northeastern states, immunizations against FMD, Anthrax, HS and BQ in cattle & buffaloes and swine fever in pigs may be carried out during monsoon season. Vaccination (RDF1) against Ranikhet disease in one week old chicks and against Gamboro disease in two weeks old chicks may be carried out.
- Fishery
- > In Assam, in fish ponds, apply fish feed (mustard oil cake) for achieving higher yield.

WEST INDIA [GOA, MAHARASHTRA, GUJARAT]

- Realised Rainfall: Rainfall occurred in all districts of Konkan & Goa, all districts of Madhya Maharashtra, all disricts of Marathwada except Beed and Parbhani, all districts of Vidarbha; Bharuch, Chota Udepur, Dahod, Daman, Dangs, Gandhinagar, Narmada, Navsari, Panchmahal, Surat, Tapi and Valsad districts of Gujarat Region, Bhavnagar, Diu, Gir Somnath, Junagadh, Porbandar and Rajkot districts of Saurashtra & Kutch during the week and weather remained mainly dry over rest of the region.
- Advisories:
 - As rainfall is very likely at most places over Konkan & Goa on 22nd, at many places over Madhya Maharashtra on 25th and 26th, over Marathwada on 22nd, along with heavy rain at isolated places over Konkan & Goa on 22nd September, avoid intercultural operation and application of plant protection measures and fertilizers to the standing crops.
 - Maharashtra:
 - In North Konkan, maintain 5-7 cm water level in rice fields at tillering / panicle initiation stage. There is a possibility for incidence of blue beetle in rice, if it is noticed; spray Quinalphos 25% EC @ 2 litre or or Triazophos 40% EC @ 625 ml in 500 litre water per ha after current spells of rain. Install Methyl ugenol 'Rakshak tarp' @ 4 per ha in cucurbitaceous vegetable crops, for effective control of fruit fly.
 - In South Konkan, rice crop is in initiation of flowering stage in some parts of the district. Regularly supervise the field and maintain water level of 5-8 cm in the field. Drain out excess water from rice field wherever necessary. If the incidence of rice ear head bug is observed in rice crop, dust 2% Methyl parathion dust @ 20 kg/ha for its control after current spells of rain. The incidence of rice leaf folder and blue beetle has been observed in the rice crop in some parts of the district, for control of rice leaf folder spray 25 % Quinalphos @ 18 ml or 40% Triazophos @13 ml per 10 liters of water and for control of blue beetle spray Quinalphos 25 EC @ 40 ml or Triazophos 40 EC @ 12.5 ml per 10 liters of water on the whole crop.
 - In Sub-Monate Zone, for control of brown hoppers in rice, spray Cypermethrin @ 4 ml/10 litre on the lower region (stem portion) of rice crop. To control brown spot spray Carbendenzim @ 10g per 10 litre water. For control of woolly aphid in sugarcane use predators like Conobatha, Micromes, Defa. Incidence of rust is likely, if noticed

spray Mancozeb 0.3 % (3g/ lit) or 0.1 % Tebuconazole (1 g/litre water) on a non-rainy day.

- In Western Ghat Zone, maintain 5-8 cm water level in rice field at panicle initiation/ flowering stage. To control rust & tikka leaf spot diseases in groundnut, spray Mancozeb @ 25 g + Carbendazim @ 10 g per 10 liters of water on a non-rainy day.Black spots are observed due to incidence of fungal disease in pomegranate, spray Hexaconazole@ 1 ml per liter of water on a non-rainy day.
- In Western Maharashtra Plain Zone, there may be attack of thrips and white flies in cotton, spray Fipronil 500 ml per acre in 200 litre water.Undertake sowing of rabi sorghum at vapsa condition. Select varieties like Phule Mauli, Phule Anuradha for low fertile soil, Phule Chitra, Phule Suchitra, Phule Mauli, Maldandi-35-1 for medium quality soil and Phule Vasudha, Phule Yashoda, C.S.V.-22 for black soil. Undertake land preparation and sowing of safflower with varieties like Bhima & Phule Kusuma.Cold and dry weather is suitable for gram. Undertake sowing after 25th September in dry land.
- In Marathwada, harvesting of matured soybean may be done in clear weather. Keep harvested produce in safer places. To control bacterial blight disease on fruit in pomegranate, spray copper oxychloride @ 25 g per 10 liter of water on a non-rainy day. Undertake land preparation for sowing of rabi jowar, safflower and gram.
- In Vidarbha, maintain water level upto 5-7 cm in the rice field.Infestation of blast and bacterial leaf blight is noticed in rice, spray Hinosan @ 6 ml or Copper Oxychloride @ 25g along with Streptocycline @ 0.5 g in 10 liter of water. Under present weather situation stem borer infestation found in rice, spray Quinalphos @ 32 ml per 10 liter of water. Sucking pest observed in cotton, for the control spray Dimethoate 30% @10 ml or Methyl Dematon 25% @ 8 ml per 10 liter of water.
- Gujarat:
- In Bhal and Coastal Zone, maintain water level of 5-7 cm in rice fields. Apply irrigation in cotton, castor and vegetables. Undertake harvesting of sesame, pearl millet, green gram and cowpea.
- > In South Gujarat Zone, undertake nursery preparation for rabi vegetables like chilli, brinjal and tomato.
- In North Gujarat Zone, undertake harvesting of green gram and bajra. As mainly dry weather is prevailing, apply irrigation in cotton, castor and vegetables.
- > In South Saurashtra Zone, apply irrigation in sugarcane crop and vegetables.
- In South Gujarat Heavy Rainfall Zone, undertake sowing seeds of bottle gourd, ridge gourd, sponge gourd, bitter gourd, cucumber at the distance of 1.5m × 1m. Undertake nursery preparation for brinjal and chilli.Apply irrigation in sugarcane crop.
- > In North Saurashtra Zone, undertake transplanting of cabbage and cauliflower.
- In Middle Gujarat Zone, due to cloudy weather there are chances of infestation of heliothis in pulses, spray Quinalphos 25 EC 20ml in 10 litres of water or Renaxypyr 3 ml in 10 liters of water.
- In South Gujarat Zone, for effective control of cotton jassids, spray Acetamiprid 20 % SP- 2 gm or Thiamithoxam 25 % WG- 3-4 gm in 10 liters of water.
- In South Saurashtra Zone, for the control of sucking pest in pulses, spray 10 ml Dimethoate or Methyl-O-Demeton in 10 litre of water.
- In North Saurashtra Zone, infestation of semilooper is observed in castor, spray Chlorpyrophos 30 ml in 10 liters of water.

EAST INDIA [JHARKHAND, BIHAR, ODISHA, WEST BENGAL & SIKKIM, ANDAMAN & NICOBAR ISLANDS]

- **Realised Rainfall:** Rainfall occurred in all Districts of Andaman & Nicobar Islands, all districts of Gangetic West Bengal except 24 Paraganas, all districts of Sub-Himalayan West Bengal & Sikkim except North dinajpur and South Dinajpur; Araria, Banka, Bhagalpur, Gaya, Gopalganj, Kishanganj, Lakhisari, Monghyr, Nawada, Purnea and West Champaran districts of Bihar, all districts of Jharkhand except Bokaro, Chatra, Garhwa, Khunti, Latehar, Palamu and Ramgarh, all districts of Odisha during the week and weather remained mainly dry over rest of the region.
- Advisories:
 - As rain/thundershowers very likely at most places over Andaman & Nicobar Islands during the period, at most/many places over Sub-Himalayan West Bengal & Sikkim from 22nd to 24th and at many places over Bihar on 22nd September, along with heavy rain isolated places over Andaman & Nicobar Islands during the period, avoid intercultural operation and application of plant protection measures and fertilizers to the standing crops.
 - Odisha:
 - As thunderstorm very likely at isolated places over Odisha on 22nd September, provide support to banana, young fruit plants and vegetables to prevent the crops from lodging due to strong winds. Undertake propping in sugarcane.
 - ➢ In North Central Plateau Zone, now the weather is optimum for sowing of green gram, black gram and cowpea.
 - In West Central Table Land Zone, red and black hairy caterpillar has been found in groundnut and pulses. Apply 10-12 kg Chloropyriphs or spray 400 ml quinalphos and endosulphan in 200 liter water after current spells of rain.
 - In South Eastern Ghat Zone, current weather may favour blast disease in rice. Spray Carbendazim 50% WP @ 1g/litre of water or Tricyclazole 75% WP @ 0.6 g/litre of water after current spells of rain.
 - ▶ In South Eastern Ghat Zone, due to the high humidity and cloudy weather there is chance of bacterial leaf blight in

paddy, spray the crop with 1 g Streptocycline along with 20 g Copper oxychloride in 10 litres of water after current spells of rain.

- In South Eastern Ghat Zone, leaf folder reported in rice field, spray Chlorpyriphos 20% EC 2 ml/litre of water or Chlorantraniliprole 18.5% SC 0.3 ml/litre of water after current spells of rain.
- Bihar:
- In North East and North West Alluvial Zone of Bihar, to protect from damping off of vegetable seedlings in nursery bed, spray Copper oxychloride 50WP @ 3g/litre of water +Streptocycline @ 1g/10 litres of water on a non rainy day.
- In South Bihar Alluvial Zone, maintain 3-5 cm water level in rice fields and undertake weeding and hoeing in vegetables. Present weather conditions are highly favourable for incidence of Blast disease in rice. Monitoring at 2-3 days interval is advised. Early symptoms include development of eye shaped spot in the leaf sheath with light center and dark boundaries. If symptoms appear, spraying of Bavistin 2 g/litre of water 2-3 times with an interval of 10 day is advised for effective control. Also in maize fields, constant monitoring of stem borer should be done, if insect population is above ETL, spray Carbrayl @ 2 gm/ litre of water. Undertake plant protection measures on a non rainy day.

Jharkhand:

- In South Eastern Plateau Zone, undertake intercultural operation in standing crop of horsegram, safflower, lobia, Urd and Moong bean at 15 DAS. Farmers may start preparation of land for the cultivation of short duration early potato varities viz. Kufri Ashoka and Kufri Pukhraj, Kufri Surya and Kufri Puskar of 80-90 days crop.
- In Western Plateau Zone, undertake land preparation for sowing of toria. Recommended varities of toria are T.-9, B.R.-23 and P.T.-303. Timely sown direct seeded rice crops are at flowering stage and this stage is susceptible to the attack of the insect Gandhi bug. To control the insects, dusting of Chlorpyriphos / Quinolphos / Methyl Parathion dust @ 10 kg per acre is recommended. However, dusting should be carried during clear weather.
- In South Eastern Plateau Zone, in the prevailing weather, chance of occurrence and spreading of Blast disease in rice is more. Hence, spraying of Bavistin @ 1 g or Beam (Tricyclazole) @ 6 g per 10 liter of water by mixing Teepol @ 0.5 ml per liter of water is advised on a non rainy day. Timely sown crops (Last week of June) are at flowering stage and this stage is susceptible to the attack of the insect Gandhi bug. To control the insects, dusting of Chlorpyriphos/Quinolphos/Methyl Parathion dust @ 10 kg per acre is recommended. However, dusting should be performed during clear weather.

• West Bengal:

- In the New Alluvial Zone, apply second top dressing of urea @ 4.5 kg per bigha at panicle initiation stage in medium and late varieties of kharif rice. grow sesame (Tilottoma & Rama variety) and black gram as contingent crops in case rice crop fails due to low rainfall. Spray 0.75ml Nuvan/Vapona per litre of water to control brown plant hopper. Spray 2.5 g Indofil-M-45 or koboj per litre of water for leaf spot disease in cauliflower. Apply 1 ml Dimecron per litre of water for management of leaf cutting caterpillar in Amrapali mango.
- ➢ In the Old Alluvial Zone, undertake seedbed preparation and sowing of cabbage and cauliflower. Spray Propoconazole @ 0.75 ml/litre of water to control sheath blight, Tricyclozole @ 0.5 gm/litre of water to control blast and Chlorpyphos @ 2 ml/litres of water to control leaf folder/case worm in paddy.
- In the Hill Zone of West Bengal, harvest early maturity large cardamom crop/capsules. Maintain 2-3 cm of water in the rice field. Drainage system should be maintained properly to remove excess water from rice field. Carry out regular harvesting of bhindi and round chilli crop. Spray Azadirachtin 0.03% (300PPM) neem oil based WSP @ 2000gm/ ha in 1000 litres of water, if 10% dead heart or 2 egg mass / m2 of yellow stem borer is found in rice and spray Validamycin 3%L @ 0.75 ml/lit of water for incidence of blast and sheath blight disease in rice crop.
- In Coastal Saline Zone, carry out hand weeding in the Aman paddy field. Spray Trizophos @ 1.5 ml/litre of water for stem borer attack and Chlorpyriphos @1.5 ml/ litre of water for leaf roller attack in Aman paddy.
- In the New Alluvial Zone, grow sesame (Tilottoma & Rama variety) and black gram as contingent crops in case rice crop fails due to low rainfall. Spray 1.5ml Monocrotophos or 0.75ml Nuvan/Vapona per litre of water to control caseworm, leaf roller & BPH; 1 gm Carbendazim or 1 ml Hinosan per litre of water for sheath rot and 0.5gm Bim or 1ml Hinosan per litre of water for Blast disease on a non rainy day.

• Fishery

the New Alluvial Zone of West Bengal, apply Rice bran & Mustered oil cake (1:1) @ 3-2% of the total body weight of fish stocked in the fish culture pond as a supplementary feed.

• Animal Husbandry

- In West Bengal, protect animals from parasites. Lambs should be vaccinated against Enterotoxemia.Prepare silage from the abundantly available green fodder. Also, green fodder can be mixed with dry grasses and fed to the animals.
- In North Central Plateau Zone of Odisha, periodic vaccination viz. FMD, HS & BQ may be carried out to protect the dairy animals. Keep the animal sheds clean and dry. RD vaccine should be given immediately to the chicks which are 7 days old. To prevent coxidiosis disease spray antibiotic solution named Kohrsolin-TH in the poultry house.

In Jharkhand, for milch animals, provide mineral mixture and concentrates of groundnut/mustard/linseed, salt with clean green and dry fodder. Keep animal shelter clean and dry. Vaccinate poultry for the protection against ranikhet disease.

CENTRAL INDIA [M.P., CHHATTISGARH]

Realised Rainfall: Rainfall occurred in all districts of East Madhya Pradesh except Chhatarpur, Rewa, Satna, Sidhi, Tikamgarh and Umaria, all districts of West Madhya Pradesh except Bhind, Datia, Gwalior, Morena, Sheopur and Shivpuri, all districts of Chhattisgarh except Balrampur, Mungeli and Surajpur during the week.

Advisories:

As rain/thundershowers very likely at most places over West Madhya Pradesh on 22^{nd} along with heavy to very heavy rain at isolated places over West Madhya Pradesh and heavy rain at isolated places over East Madhya Pradesh on 22^{nd} September, avoid intercultural operation and application of plant protection measures and fertilizers to the standing crops.

Madhya Pradesh:

- In Kymore Plateau and Satpura Hill Zone, undertake nursery preparation of cauliflower. Maintain optimum soil moisture level in rice fields.
- In Malwa Plateau Zone, continue transplanting of onion, brinjal, tomato, chilli, cauliflower and cabbage on raised bed. Continue nursery preparation of cauliflower for mid season (Oct-Nov.). Continue harvesting of matured early soybean variety and green cobs of maize in clear weather.
- > In Jhabua Hill Zone, undertake harvesting of matured pods of black gram and green gram in clear weather.
- ▶ In Gird Zone, undertake sowing of toria. Undertake land preparation for sowing of mustard.
- In Jhabua Hill Zone, due to cloudy weather there are chances of attack of shoot and fruit borer in okra, tomato & brinjal, spray Triazophos @ 2.0 ml/litre of water on a non rainy day.
- In Malwa Plateau Zone, in long duration soybean varieties to control the white fly spray of neem oil 5 ml/5 litre of water after current spells of rain.
- In Central Narmada Valley Zone, infestation of stem borers and gundhi bug can be seen in the rice fields, apply Quinalphos 25 EC or 20 EC @ 1-1.25 litre per hectare on a non rainy day.

Chhattisgarh:

- > In North Hill Zone, raise the seedlings of winter vegetables like cauliflower, cabbage, chilli, tomato, brinjal.
- > In Bastar Plateau Zone, undertake harvesting of matured rice. Undertake nursery preparation for *rabi* vegetables.
- In Chhattisgarh Plain Zone, continue nursery sowing of medium duration cauliflower. In areas of deficient rainfall continue sowing of the Kulthi (Horsegram), moong, urad, toria, maize, sunflower, vegetables and forage crops.
- In North Hill Zone, attack of blast is observed in rice crop, spray Tricyclazole @ 120 gram per acre on a non rainy day and repeat after 10-12 days as per requirement.

• Animal Husbandry

- > In Madhya Pradesh, vaccinate the poultry birds to prevent Ranikhet disease.
- In Chhattisgarh, provide concentrate feed to milch animals mix with dry and green fodder and insure for enrich diet having protein, carbohydrate, fat, vitamins etc.

NORTH INDIA [JAMMU & KASHMIR, HIMACHAL PRADESH, UTTARAKHAND, PUNJAB, HARYANA, DELHI, UTTAR PRADESH & RAJASTHAN]

Realised Rainfall: Rainfall occurred in Samba district of Jammu & Kashmir, in Champawat, Udhamsingh Nagar districts of Uttarakhand, Varanasi district of East Uttar Pradesh, Bareilly, Lalitpur districts of West Uttar Pradesh, Banswara, Chittorgarh, Dungarpur, Jhalawar, Pratapgarh, Rajasmand, Udaipur districts of East Rajasthan during the week and weather remained mainly dry/dry over rest of the region.

Advisories:

As rain/thundershowers very likely at most/many places over Himachal Pradesh, Uttarakhand, West Uttar Pradesh, from 22nd to 24th, over Haryana, Chandigarh and Delhi on 22nd and 23rd, at many places over East Uttar Pradesh from 22nd to 25th, along with heavy to very heavy rain with extremely heavy falls at isolated places very likely over Uttarakhand and West Uttar Pradesh, heavy to very heavy/heavy rain at isolated places over Himachal Pradesh on 22nd and 23rd, heavy rain at isolated places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, East Rajasthan on 22nd and 23rd, heavy to very heavy rain at a few places over Uttrakhand and at isolated places over West Uttar Pradesh on 23rd September, avoid intercultural operation and application of plant protection measures and fertilizers to the standing crops. Provide adequate drainage in standing crop fields.

Jammu& Kashmir:

In Sub Tropical Zone, undertake sowing of toria (RSPT-1, RSPT-2, RSPR-3) intercropped with gobi sarson (GSS-1) can be done under conserved moisture condition. Weather is favourable for the attack of Blast and Brown spot disease and plant hopper attack in rice. Spray Trycyclozole @ 0.06% to control blast and spray Mancozeb @ 0.25% to control brown spot. Give 2-3 sprays at 15 days interval. To control plant hopper, install pheromone traps @

1/kanal or spray Imidacloprid 200SL @ 0.25 ml/litre of water/Kanal.

- In Valley Temperate Zone, as mainly dry weather would prevail, continue harvesting of matured rice, maize and pulses. Continue planting of saffron corms and transplanting of cole crops.
- In Rajouri, Ramban, Poonch and Udhampur districts of Intermediate Zone, undertake land preparation and sowing of toria and continue nursery raising of main season cole crops (cauliflower, cabbage and Knol khol). Sowing of root crops like carrot and radish can be done on ridges. Light irrigation with sprinkler should be provided to nursery beds. Apply need based irrigation in maize crop.
- In Intermediate Zone, prevailing weather is congenial for attack of stem borer in rice. If attack of stem borer is observed, look for egg mass on flag leaf of paddy plant and destroy the mass, if any. Fields with records of infestation during previous years should be applied Carbofuron 3G @ 20 kg/ha in standing water and do not drain or irrigate the field for 72 hours after application. Those farmers who installed pheromone traps for management of stem borer are advised to replace lure (use yellow stem borer lure) after every 30 days. Also, farmers are advised to keep vigil on blister beetle attack in maize crop. If observed, apply Carbofuron 3G @ 20 kg/ha (apply 3- 4 granules/leaf whorls to control the blister beetle).

• Uttarakhand:

- In Central Plain Zone of Uttar Pradesh, as heavy to very heavy rain is expected during next 2 days, avoid sowing of toria. Keep mustard seeds ready (kanti, narendra mustard ageti-4) and fertilizers for early sowing of mustard after current spells of heavy rain.
- In Udham Singh district of Bhabar and Tarai Zone, in irrigated areas sowing of radish and turnip and in unirrigated mid hills, radish varieties like Meenu early, Japanese white, Pusa Himani and early varieties of Saljam like Parpiltop, white glow should be sown after current spells of heavy rain.

Punjab, Haryana and Delhi:

- In Delhi, continue sowing of carrot in the raised bed. Recommended cultivars: Pusa Rudhira with Seed rate-4 kg/acre. Application of FYM, potash and phosphorus fertilizer is recommended. Seed treatment with Captan @ 2 gm per kilogram is advised. Field preparation should be started for early pea and arrangement for quality seeds should be done. In vegetables (brinjal, cauliflower, cabbage, tomato etc) constant monitoring of borers by using pheromone traps 4-6 per acre is advised, If insect population is above ETL than spraying of Spinosad 1.0 ml/4 litre of water is advised against fruit borer, diamond back moth. Undertake transplanting of onion, brinjal, tomato, chilli cauliflower and cabbage are advised on raised bed for those farmers whose seedlings are ready. It is suitable time for preparation of nurseries on raised bed for mid season cauliflower (Nov.-Dec.). Varieties: Pusa sharad, Pusa hybrid-2, Pant shubra. In present weather condition, constant monitoring for brown plant hopper in paddy field is advised. Farmers are advised to enter into the middle of the crop field and see mosquito like insect at the basal portion of the plant. If insect population is above ETL, spray of Imidacloprid 17.8 % SC@ 1.0 ml / 3 lit of water is recommended. In paddy crop constant monitoring of stem borer is advised by using pheromone traps 4-6 per acre is advised ETL, than broadcast of Cartap 4% granules @ 10 kg/acre for effective control is recommended.
- In Western Zone of Punjab, continue sowing of early potato and "desi" varieties of radish (Punjab Pasand), turnip (L-1) and carrot (Punjab Black Beauty, Punjab Carrot Red and PC 34), using 4-5 kg seed rate of radish and carrot and 2-3 kg seed rate of turnip per acre. Keep ridges 45 cm and plants 7.5 cm apart.
- In Western Zone of Punjab, in the prevailing weather, there is chance of attack of leaf folder and plant hoppers in rice. Control leaf folder when leaf damage reaches 10 per cent by spraying 20 ml Fame 480 SC or 170g Mortar 75 SG or 350 ml Sutathion/ 40 EC in 100L of water /acre. □ The plant hoppers can be controlled by spraying 40 ml of Confidor/Crocodile 17.8 SL or 800 ml of Ekalux/Quinalmass 25 EC in 100 litres of water per acre.

Himachal Pradesh:

- ➢ In Mid Hills Sub-Humid Zone of Himachal Pradesh, in Solan, Shimla, Bilaspur, Sirmaur districts, farmers are advised to prepare fields for sowing of garlic, radish, carrot, turnip and other winter vegetables.
- In Mid Hills Sub-Humid Zone of Himachal Pradesh, in Solan, Shimla, Bilaspur, Sirmaur districts, present weather is conducive for attack of late blight disease in tomato crop, for control spray Diethane M-45 or Ridomil Gold @ 250 gram in 100 litres of water after current spells of rain.

Uttar Pradesh:

- In Central Plain Zone of Uttar Pradesh, as rain is expected during the period, avoid irrigation in the paddy, maize and red gram crops.
- In Central Plain Zone of Uttar Pradesh, due to prevailing weather condition, there may be chances of attack of khaira disease in paddy crop, for control apply Zinc Sulphate @ 25kg/ha as basal. For control of stem borer, brown plant hopper, gall midge, leaf folder and jassids, apply Profenophos 50EC @ 2 ml/litre after current spells of rain.
- In Central Plain Zone of Uttar Pradesh, there may be chances of attack of yellow mosaic in moong/urad crop for control spray 2 to 3 times of Dimethoate 30 E.C. @ 1 litre or Methyl-O-Demeton 25 E.C. @ 1 litre per hectare after current spells of rain.

Rajasthan:

> In Sub Humid Southern Plain and Aravali Hill Zone, in Bhilwara, Chittorgarh, Rajsamand, Sirohi and Udaipur

districts, at the time of tasseling and silking, in hybrid maize, broadcast of 40 kg N and in desi and composite maize broadcast 35 kg N. This is the right time for mid-season transplanting of cabbage and cauliflower vegetables.

- In Sub Humid Southern Plain and Aravali Hill Zone, in Bhilwara, Chittorgarh, Rajsamand, Sirohi and Udaipur districts, prevailing weather condition is congenial for attack of stem borer in maize crop for control apply Phorate 10 G 3% granules @ 5-7.5 kg/ha at 15-30 days after sowing.
- In Jaisalmer and Bikaner districts of Arid Western Plain Zone, as day temperature is approx. 40 ° C which leads to rapid removal of water from the plant and soil surface. Therefore, if possible, apply irrigation to kharif crops especially groundnut showing wilting symptoms. If possible provide life saving irrigation to the rainfed pearl millet, cluster bean and moth bean to increase the weight and quality of the grains.
- In Irrigated North Western Plain Zone, Hanumangarh and Sriganganagar, the sowing time of mustard will be start first week of October. Use recommended varieties for timely sowing mustard, RGN 13, RGN 73, Laxmi, Pusa Bold and in rainfed area is RGN 298, RGN 229, RGN 48 and late sowing RGN 145, RGN 236. Seed treatment of mustard with Mancozeb + Metalexil (Apron 36 WS) @ 6 g / kg seed for preventing of white rust.
- In Alwar, Bharatpur, Dhaulpur, Karauli, Sawaimadhopur districts of Flood Prone Eastern Plain Zone, depending upon cropping pattern, soil type and irrigation water facility, select improved mustard varieties. Apply 25 kg/ha.Quinalphos 1.5 % dust during last ploughing to manage soil insects. Under irrigated condition apply 88 kg DAP + 145 kg urea + 50 kg MOP + 250 kg gypsum or 180 kg urea + 250 kg SSP + 50 kg MOP per hectare. Where the soils are deficient in zinc and boron, apply 25 kg zinc sulphate and 10 kg borax /hectare. Half dose of urea and full dose of rest fertilizers give basally at last ploughing and apply half dose of urea at first irrigation. Treat the seed 2g Carbendazim (Bavistin)/kg seed. For the control of white rust treat the seed with Apron (SD 35) 6g/kg seed. Use 2.5-3.5 kg/hectare seed for sowing. Right time for the carrot (Pusa Keshar) sowing. Use 5-6 kg seed/ hectare for sowing, Apply 60 kg nitrogen, 40 kg phosphorus and 120 kg potash/ha as a basal dose.
- In Irrigated North Western Plain Zone, in Sriganganagar, prevailing weather condition is congenial for attack of pink boll worm in desi cotton crop, for control spray Carberyl 50 W.P. @ 4.5 ml/litre of water or Trizophose 40 E.C. @ 2.5 ml per litre of water.
- In Dungarpur, Banswara and Pratapgarh districts of Southern Humid Plain Zone, prevailing weather condition is congenial for attack of blast in paddy crop, for control spray Tebuconazole + Trifloxystrobin @ 0.5 g/litre of water.
- In Dungarpur, Banswara and Pratapgarh districts of Southern Humid Plain Zone, prevailing weather condition is congenial for attack of powdery mildew in black gram, for control spray Kerathane @ 1ml/litre of water.
- In Jaisalmer and Bikaner districts of Arid Western Plain Zone, prevailing weather condition is congenial for attack of tikka in groundnut crop, for control spray Mencozeb or Chlorothalonil @ 2 gram per litre of water.
- In Jaisalmer and Bikaner districts of Arid Western Plain Zone, prevailing weather condition is congenial for attack of bacterial leaf blight in guar crop, for control spray Streptocyclene @ 2.5 g and Copper Oxychloride @ 30 g per 10 litres of water.

• Horticulture:

- In East Rajasthan, In Irrigated North Western Plain Zone, Hanumangarh and Sriganganagar districts, start planting of new seedlings of kinnow in already prepared pit in the field. Purchase kinnow plants from certified nursery, after planting apply light irrigation at regular interval.
- In Alwar, Bharatpur, Dhaulpur, Karauli, Sawaimadhopur districts of Flood Prone Eastern Plain Zone, prevailing weather condition is congenial for attack of fruit fly in guava, for control spray Malathion 50 EC @ 1.0 ml/litre of water.

• Animal Husbandary:

- In Jammu & Kashmir, ensure that the brooder room has been properly disinfected before introduction of new batch. Give broad spectrum antibiotics to avoid different infections in chicks during brooding like Taxim @1g/100 chicks once daily.
- In Punjab, in poultry, light plays an important role in egg production. Provide 14-16 hours of total light to layers, including the day light. Gradually go on increasing the light when egg production starts.
- The Agromet Products in this Bulletin are generated by Agrimet Division, weather forecast issued by NWFC, New Delhi and Agromet Advisories are prepared based on the DAAS Bulletins issued by different Agrometeorological Field Units.