



Gramin Krishi Mausam Sewa
Experimental Block Level Agromet Advisory Bulletin
(A Joint Initiative of IMD & ICAR)



Agromet Advisory Bulletin

Date : 24-09-2021

Weather Forecast of **KATOL** Block in **NAGPUR**(Maharashtra) Issued On :2021-09-24(Valid Till 08:30 IST of the next 5 days)

Parameter	2021-09-25	2021-09-26	2021-09-27	2021-09-28	2021-09-29
Rainfall	13.4	5.3	7.9	23.7	37.7
Tmax(°C)	32.0	32.1	32.3	32.6	32.8
Tmin(°C)	23.5	23.7	23.9	24.1	23.8
RH-I(%)	94	93	91	95	92
RH-II(%)	84	83	81	85	80
Wind Speed(kmph)	7.0	8.0	9.0	8.0	8.0
Wind Direction(Degree)	264	273	233	318	93
Cloud Cover(Octa)	7	7	8	7	7

Weather Summary/Alert:

In Katol block, as per the block level value added forecast given by, IMD, RMC, Nagpur, sky will be mostly cloudy and light to moderate rain occur during next five days during 25th September, 2021 to 29th September, 2021 as well as thunderstorm accompanied with lightning very likely to occur on 25th September, 2021 is forecasted.

General Advisory:

Drain out excess water stagnated from the Cotton, Soybean, Arhar, Green and black gram, Vegetables, Papaya, Banana, Oranges, Sweet orange and Acid lime orchards and other crop fields immediately as well as by considering the rainfall forecast necessary arrangements should be made to drain out rain water. The spraying of agrochemicals for pest and disease management and intercultural operations in field crops, vegetables and fruit orchards should be carry out by judging the local weather condition within next two day. Farmers, farm laborers should not rush to cross the road if water is flowing from the river & nala and also take care that their other animals do not pass through the flowing water. Harvested mature black gram and early sown/matured soybean crop should be should be stored on elevated field and if threshing is not possible and cover the harvested produce with tarpaulin and allow for sun drying by considering the local weather condition.

SMS Advisory:

Necessary arrangements should be made to drain out rain water.

Crop Specific Advisory:

Crop(Varieties)	Crop Specific Advisory
SOYABEAN	Soybean harvesting and threshing management: Drain out excess water from the Soybean field if rain water stagnated. Farmers who have grown early maturing soybean varieties like JS 95-60, JS 20-34, JS 93-05, NRC 130, NRC 138 etc. are advised to harvest the crop immediately after attaining the physiological maturity (change in pod colour) and the harvested crop should be stored on elevated field and if threshing is not possible and cover the harvested produce with tarpaulin. Because of continued rain during the maturity stage, the soybean crop is likely to be affected in terms of its quality parameters including viability as well as risk of vivipary in the matured pods. Therefore, farmers are advised to harvest their crop at the right time (Physiological maturity indicating change in pod colour). Farmers are suggested to allow the harvested crop for sun-drying for 2-3 days. It is also advised to collect the harvested crop and keep it in safe place, covering with Tarpaulin and thresh the same

Crop(Varieties)	Crop Specific Advisory
	as per the convenience.
SORGHUM (JOWAR/GREAT MILLET)	Rabi sorghum land preparation, seed treatment, nutrient and sowing management: Medium to deep / heavy, high water holding capacity and well-drained soil should be selected for rabi sorghum sowing. After harvesting black gram and green gram crops in kharif season, carry out preparation of the land by giving 3 to 4 harrowing. Apply 10 to 15 carts of well decomposed FYM or compost manure before the last harrowing. The land should be prepared for sowing by removing weeds and stubbles. Use 10 kg certified seed per hectare for sowing of rabi sorghum. For sowing, the spacing between two rows should be 45 cm and between two plants 15 cm. For expected yield of irrigated rabi sorghum, the spacing between two rows should be 45 cm and between two plants 12 cm. For sowing use C.S.H. – 15 R hybrid variety while improved / pure variety PKV Kranti (AKSV 13 R), Parbhani Moti, CSV-18 (Rabbi Irrigated Variety), CSV- 12, CSV- 29, Phule Vasudha, Phule Suchitra, Phule Revati, Parbhani Super Moti and local varieties are Maldandi: 35-1 and Ringani should be used. Sorghum seeds should be treated with 25 g of Azotobacter, 20 g of Phosphorus Solubilizing Bacteria (PSB) and 4 g of Trichoderma viride per kg of seed. For dryland rabi sorghum, apply 50 kg Nitrogen (N), 25 kg Phosphorous (P) and 25 kg Potassium (K) per hectare at the time of sowing. Sowing should be done across the slope. Considering the available soil moisture and after arrival of Wafsa condition, sowing of rabi sorghum should be done between 25th September to 15th October.
BLACK GRAM	Black gram harvesting and threshing management: Timely sown, mature black gram crop should be harvested immediately and the harvested crop should be stored on elevated field and if threshing is not possible, cover the harvested produce with tarpaulin. In late sown crop, excess water should be drained immediately if rain water is stagnant in Black gram field.
COTTON	Cotton disease management: Drain out excess water from the cotton field if rain water stagnated. As precautionary measure, prophylactic spraying should be done in clear weather after current spell of rain with Copper oxychloride 50 WP @25 g+ [Streptomycin sulphate IP 90% w/w+ Tetracycline hydrochloride IP 10% w/w] @ 1 g in 10 litres of water is suggested during early boll developmental stages for the management of internal boll rot of cotton. If symptoms of para wilting observed in cotton, farmers are advised to undertake drenching of carbendazim 50 WP @25g + Urea @100g in 10 litres of water after current spell of rain. Cotton sucking pest management: Install yellow sticky traps 8/acre for white fly and Jassid, blue sticky traps 8/acre for thrips, spray NKE 5% or neem-based insecticides @ 5ml/l of water. For the management of sucking pests of cotton above ETL, it is advised to spray Imidachloprid 17.8%SL @3ml or Flonicamid 50 WG @4 g or Dinotefuran 20 SG @3 g/ 10 litres of water after current spell of rain. Thiamethoxam 25 WG @2 g or Spinetoram 11.7 SC @8.5 g or Dinotefuran 20 SG @3 g/10 litres of water can be sprayed against thrips after current spell of rain. Cotton pink boll worm management: In order to monitor the pink bollworm moth's activity in cotton, used two pheromone trap per acre with active ingredient of pectinolure or gossyplure. Regular observations of moths trapped in pheromone traps should be recorded. As soon as it is observed that the moths have crossed economic threshold level (8 moths per trap per night for three consecutive nights), the recommended chemical pesticides should be applied. Infected rosette flower should be removed and destroyed immediately (Economic Threshold Level– 10 % infested inflorescence flowers). After formation of green bolls, 20 bolls per acre (1 boll per tree) should be monitored randomly every week. (Economic Threshold Level- 10 % affected bolls). Depending on availability, Trichogramma bacterium, a parasitic friendly insect that feeds on eggs, should be release three times at an interval of 15 days during the square formation and flowering stage at the rate of 60,000 per acre. Chemical pesticides should not be used at least one week before and one week after use of biological agents for pest control. Apply neem-based insecticides @50 ml or Chlorpyrifos 20% EC @25 ml or Quinalphos 20 AF @20 ml or Thiodicarb 75 WP @20 g or Profenophos 50 EC @30 ml or Indoxacarb 14.5 SC @5 ml or Emamectin benzoate 5 SG @5 g per 10 litres of water wherever pink bollworm crosses ETL after current spell of rain. Cotton nutrient management: Spray 2% urea at flowering stage and 2% DAP at boll development stage of cotton after current spell of rain. Apply second split of 90 kg urea per ha for irrigated hybrid Bt after arrival of Wafsa condition. Cotton square & flower dropping and excess vegetative growth management: It is suggested to spray alpha-NAA 4.5 SL @ 5 ml /10 litres of water to avoid natural shedding of squ

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PIGEON PEA (RED GRAM/ARHAR)	Drain out excess water from the Pigeon pea field if rain water stagnated. Due to continued rainy weather/waterlogging, wilting symptoms may be observed in pigeon pea crop, for its management undertake drenching with copper oxychloride 50 % WP@ 25 g in 10 litres of water during clear weather. Install pheromone traps @ 5/ha for monitoring of Helicoverpa. Monitor for presence of eggs & small larvae.
CITRUS	Management of fruit dropping in Nagpur mandarin and sweet orange in rainy season: Excess water should be drained immediately if water is stagnant in orange and sweet orange orchards. Remove water shoots from the plant and all shoots below the bud union of the graft. Keep the orchards weed free. Foliar spray application of GA3 1.5 g + KNO3 1.5 kg in 100 litres of water has already be done in first week of September, Foliar spray application of 2,4-D or NAA 1.5 g + monopotassium phosphate (00:52:34) 1.5 kg/100 litres of water in third week of September. Application of 50 g FeSO4 and 50g ZnSO4/plant mixed with 5 kg FYM or vermicompost along with remaining dose of recommended fertilizers should be applied with in the basin of these trees. Application of tetracycline hydrochloride 600 ppm (60 g / 100 litres of water) followed by Streptocycline or K-cycline 150 ppm (1.5g / 10 litres of water) after 21 days in case of severely greening-infected trees (showing typical greening fruit symptoms with reddening of fruit button tissue). Foliar spraying of fosetyl Al 2.5 g per litre of water (twice during August and September at 40 days interval) should be undertaken for Phytophthora brown rot of fruits. Soil drenching + foliar spraying of mefenoxam MZ @ 2.5 g/lit (5-10 litres depending on the tree size) per plant or, foliar spraying of fosetyl Al /Aliette @ 2.5 g/lit (twice at 40 days interval) for management of root rot. All the fruits should be removed followed by soil drenching with mefenoxam MZ (2.5 g/ L) + carbendazim (1 g/ L) solution for root rot affected trees showing severe wilting -type symptoms. For the fruit drop associated with Colletotrichum and Botryodiplodia, the affected trees should be sprayed (twice) with carbendazim or thiophanate methyl at the concentration of 0.1 % (i.e. 1 g /lt). The second spray should be repeated after 10 days of first spraying. Spraying of (azoxystrobin + difenoconazole) combination fungicide @ 0.5 ml/lit can be taken up as an alternative. Installation of methyl eugenol traps at the rate of 20-25 traps per hectare for mass trapping of fruit flies and for effective mass trapping change the lure at every 15-20 days interval. Foliar application of neem oil 1% or petroleum spray oil (Horticulture Mineral Oil) @ 2% at 10-15 days interval during colour break stage, till the harvest for management of fruit sucking moth. Collection of fallen fruits and their destruction at regular intervals would prevent the development of puparia and thus reduce the fruit fly population for next year. All spraying operation should be done after current spell rain and fertilizer operations should be done after arrival of Wafsa condition.
RICE	Paddy stem borer & gall midge management: If Stem borer and Gall midge crossing ETL, Apply Carbofuran 3% G or Fipronil 0.3 % G @ 25 kg per hectare by maintaining water level 7 to 10 cm. Do not remove water from paddy bunds for 4 to 5 days. These pesticides should be used again after 30 days as required. Paddy leaf roller/folder management: For management of Leaf roller/folder nitrogenous fertilizers should be used in a balanced manner. Infected leaves wrapped by larvae should be collected and destroyed with larvae. Spray Azadiractin 0.15 % (1500 ppm) @ 30 ml. or lambda cyhalothrin 5 E. C. @ 6 ml. or Chlorantraniliprole 18.5 % SC. @ 3 ml or Thiamethoxam 25 W. G. @ 2 gm by mixing in 10 liters of water. Paddy plant hoppers management: For management of plant hoppers, although rice crop is prone to plant hoppers, Azadiractin 0.15% (1500 ppm) @ 30 ml or Metarhizium anisopliae as a bio-insecticide @ 2.5 kg/ha. or Imidacloprid 17.8 SL.@ 2.2 ml. or Fipronil 5 SC@ 20 ml. or Flonicamid 50 WG @ 3.0 gm Mix in 10 liters of water and spray. Paddy nutrient management: Apply 100 kg Nitrogen, 50 kg Phosphorus and 50 kg Potash per hectare. Apply whole phosphorus and potash and half the amount of nitrogen in the mud (Puddled field) and the remaining half nitrogen in two equal instalments (usually tillering stage which comes at 30 days and panicle initiation stage which comes about 60 days). Paddy blast disease management: For management of blast of paddy spray Hexaconazole 5% EC @ 20 ml. or Isoprothiolane 40% EC @ 15 ml or Tebuconazole 25.9% EC @ 15 ml per 10 liters of water during clear weather condition. Paddy bacterial lean blight disease management: For management of Bacterial leaf blight spray Streptocycline 1 to 1.5 gm per 10 liters of water. Paddy sheath blight disease management: For management of Sheath blight spray Tebuconazole 25.9 % EC @ 15 ml or Propiconazole 25% EC @ 10 ml or Hexaconazole 5 EC @ 20 ml by mixing in 10 liters of water. Paddy sheath rot disease management: For management of sheath rot, Spray Hexaconazole

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	75 WP @ 1.33gm by mixing in 10 liters of water. Paddy grain discolouration management: For management of grain discoloration, While the crop is in flowering stage, spray any one of the following fungicides in the afternoon. Hexaconazole 4% + Zyneb 68% W.P.@ 20 to 25 gm or Tebuconazole 50% + Trifloxystrobin 25% WG. @ 4 gm per 10 liters of water. All spraying operation should be done after current spell rain.

Horticulture Specific Advisory:

Horticulture(Varieties)	Horticulture Specific Advisory
CHILLI	In chilli crop undertake spray of Difenconazole 25 EC@ 5 ml OR Azoxystrobin 23% SC@ 10 ml in 10 litres of water for control of dieback and fruit rot disease. Undertake spray after current spell of rains.

Live Stock Specific Advisory:

Live Stock(Varieties)	Live Stock Specific Advisory
GOAT	Due to rainy season, in goat helminthic parasites and coccidia protozoa infection is on rising trend. Therefore, it is recommended to administer anthelmintic and anticoccidial medication.

Poultry Specific Advisory:

Poultry(Varieties)	Poultry Specific Advisory
HEN	Tulsi leaves powder @ 2 gram per days upto 15 days given to poultry to increase immunization power.

Others (Soil / Land Preparation) Specific Advisory:

Others (Soil / Land Preparation) (Varieties)	Others (Soil / Land Preparation) Specific Advisory
GENERAL ADVICE	Farmers should take care of thunder and lightning in the sky: If you are working in the field, take shelter immediately near the field. After taking shelter in a safe place in the field, keep dry wood, plastic, gonapath, dry mulch under the feet. Sit with both feet together and both hands on your knees. Make sure that no part of your body touches the ground except your feet. Individuals working in ponds, such as places where there is moisture in the soil or water sources, should go to a safe and dry place immediately. If there are tall trees nearby, take shelter at a distance twice the height of that tree. A pucca house is the safest place to avoid lightning. Farmers should plant trees as low as possible around their houses and livestock sheds. Moist, swampy places and water sources (wells, lakes, rivers, farm ponds etc.) should be avoided as much as possible. If traveling in a four-wheeler, stop in the vehicle. Farmers should take care that they do not have any metal tools. When working in the field, do not let more people work together at the same time. Care should be taken to keep a distance of at least 15-20 feet between two persons. Do not use an umbrella with a metal rod. Stay away from other electric tools made by farmers as well as metal ones.
GENERAL ADVICE	It should be noted that the validity of the dates mentioned in the Weather Based Advisory Bulletins will be valid from 08:30 AM on the previous day to 08:30 AM on the said date.