



Gramin Krishi Mausam Sewa
District Level Agromet Advisory Bulletin
 Orissa University of Agriculture & Technology,
 Bhubaneswar



Agromet Advisory Bulletin

Date : 12-12-2023

Weather Forecast of District MAYURBHANJ(Odisha) Issued On : 2023-12-12(Valid Till 08:30 IST of the next 5 days)

Parameter	2023-12-13	2023-12-14	2023-12-15	2023-12-16	2023-12-17
Rainfall(mm)	0.0	0.0	0.0	0.0	0.0
Tmax(°C)	27.0	27.0	27.0	26.0	26.0
Tmin(°C)	12.0	12.0	12.1	11.1	11.3
RH-I(%)	60	61	46	46	43
RH-II(%)	35	36	32	27	25
Wind Speed(kmph)	6	6	7	8	8
Wind Direction(Degree)	248	240	202	245	245
Cloud Cover(Octa)	1	0	2	0	0

Weather Summary/Alert:

The district is likely to remain dry with clear to mainly cloudy sky. The wind speed will remain within 6.0 to 8.0 kmph up to next five days. The daily maximum temperature may range between 26.0°C to 27.0°C. The minimum temperature may rise between 11.1°C to 12.0°C. Relative humidity during morning may range between 43 to 61 percent and that during the afternoon may range between 25 to 36 percent.

General Advisory:

If harvesting of paddy is completed then its should be collected and stored in a safer place. Make facility for drainage in the field. If the wilt disease incidence seen in early transplanted vegetable crops than drench the soil and root zone with mixture of Streptocycline @ 1.5 gram and Copper Oxychloride 25-gram by mixing it in 10-litre of water. Dry the rain affected harvested paddy under sun for better storage. Drain out the water from paddy field, 15 days before harvesting of the crop. Harvest the rice crop at physiological maturity (85% grains matured in a panicle) and looks pale yellow in colour. Harvest the crop by leaving one metre from the bund if grain is to be kept for seed purpose. Keep the harvested products in safe place.

SMS Advisory:

Go for the sowing of rabi crops like blackgram, greengram, horsegram, sesame, sunflower and cucurbits in up-medium land. Go for sowing of vegetable crops like Pea, carrot, radish etc.

Crop Specific Advisory:

Crop(Varieties)	Crop Specific Advisory
RICE	Harvest the paddy if 85% of grains are matured. Keep the harvested products in safe place. Make provision for draining out rain water in standing rice crop by making alleys (Pahi) and keep the drain ends open. Do not leave harvested paddy in field. If paddy is lodged then it should be tied together in standing condition in the field.
MUSTARD	Optimum time for sowing of Rabi mustard has come, use varieties like T-9, PT-303, Nirmal black gold, ultra and 3-5 kg of seed for line sowing. Use 3 gram of Captan or Thiram per 1 kg of seed. Give spacing of 20*10 cm in late varieties and 30*10 cm in early sown varieties.
GREEN GRAM	Treat the seeds with Carbendazim 50% WP @ 2-gram/ kg of seeds or Carboxin 37.5 % + Thiram 37.5% D.S @ 3-gram/ kg of seeds one week before sowing. Before sowing, treat the seeds with Rhizobium culture @ 20-gram/ kg of seeds. Apply 2 ton of FYM or Compost at the time of last ploughing along with 35 kg DAP, 13 kg MOP, 4 kg of Urea per acre as basal fertilizer.
AMARANTH	October to March is suitable for greens amaranth. Amaranth are of two types- White or Red. Use 3 kg seeds/acre. Layout 5 ft long beds of 4 ft wide with bunds. Pulverise the beds, remove the weeds and apply 1 to 2 baskets of FYM/ bed. Because of small size seeds, mix some coarse sands with the seeds for easy and uniform sowing. After sowing cover the seeds with thin layer of soil and cover it with straw followed by light irrigation. Remove the straw after emergence.

Crop(Varieties)	Crop Specific Advisory
SUNFLOWER	Sunflower is a profitable rabi oilseed crop. Now the time is optimum for sowing of sunflower. Grow high yielding varieties like Morden, Sunrise, Surya and Hybrid varieties like KBSH-1, KBSH-3 and MSFH. Use 4 kg seeds/acre for high yielding varieties for rainfed condition, 3.5 kg for irrigated condition, 2-2.5 kg seeds/acre for hybrid varieties under rainfed condition and 1.5-2 kg seeds for irrigated condition. Before sowing treat the seeds with 2 g Carbendazim/kg seeds. To protect the crop from fungal wilt, treat the seeds with 4 g Trichoderma/kg. Soak the seeds for 10-12 hours for better germination. Use 600 g PSB culture per acre after draining out the water. Apply 2 ton FYM along with 8:16:12 kg NPK per acre for high yielding varieties and double of it for hybrid varieties before sowing. Sow the seeds 30 cm apart maintaining a row spacing of 45 cm for loamy soil and 60 cm for clayey soil.

Horticulture Specific Advisory:

Horticulture(Varieties)	Horticulture Specific Advisory
TOMATO	There are chances of wilt and root rot disease incidence in vegetable crops after the rain. To manage wilt disease in vegetable crops, drench the root zone with a solution of 1.5-gram Streptocycline and 20-gram Metalaxyl 8% + Mancozeb 64 % WP mixed in 10 litres of water.
CAULIFLOWER	Apply 25-kg of Urea per acre after hoeing and hand weeding at 15-20 DAT and 25 kg of urea and 25-kg of MOP per acre as last top-dressing fertilizer at 30-35 DAT. If Borax was not applied during transplanting of seedlings than spray Borax @ 4 kg/acre or Folibor /Solubor @ 1.5 gram/litre. Spraying of Boron micronutrient should be done after two weeks of transplanting and two weeks before curd formation.
Menacinakahi	Irrigation is very much crucial in Chilli crop, especially at flowering. Irrigation should be done at 10-12 days interval. To check flower drop in chilli spray Alpha Naphthyl Acetic Acid 4.5 % SL (NAA) @ 3.5 ml/15 litre twice at flower initiation stage and 20-30 Days later of first spray.
CHILLI	Irrigation is very much crucial in Chilli crop, especially at flowering. Irrigation should be done at 10-12 days interval. To check flower drop in chilli spray Alpha Naphthyl Acetic Acid 4.5 % SL (NAA) @ 3.5 ml/15 litre twice at flower initiation stage and 20-30 Days later of first spray.
ONION	Varieties like Agrifound light Red, Agrifound Dark Red, Bhima Shakti, Bhima Super, Arka Niketan etc are suitable for our Odisha condition during winter season. For one acre of Onion cultivation 4-Kg of seeds require to raise the nursery. Before

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	sowing, seed treatment should be done with Carbendazim 50% WP @ 2-gram/ per kg of seeds or Carboxin 37.5 % + Thiram 37.5% D.S @ 3-gram/ kg of seeds. To prevent Damping off disease in nursery, drench the nursery bed with Carbendazim @ 2-gram/litre of water at 15 days interval. Seedlings of 8-weeks old are planted in the main field.
BRINJAL	For Brinjal apply 30 kg of Urea and 20 kg of Murate of potash per acre after hoeing and hand weeding at 30 DAT and 30 kg of rest urea as last top-dressing fertilizer at 45 DAT. For better yield spray mixture of micronutrient @ 3-gram/litre twice at 30 and 60 DAT.
OKRA/ LADYFINGER	To manage sucking pest like aphids, Jassids, thrips and whiteflies in Okra spray neembased pesticide (Neem Oil 1500 PPM Azadiractin @600-ml/acre by mixing it in 200-litre of water or install 8-10 Nos of Yellow sticky traps per acre to control the pest. Spray Thiamethoxam 25 % WG @ 40-gram/acre or Acetamiprid 20 % SP @ 50-gram/acre or Fenobucarb @ 400-ml/acre or Tolfenpyrad 15 % EC @ 400-ml/acre by mixing it in 200-litre of water when infestation is severe.
MARIGOLD	To manage Red Spider Mites in flower like Marigold and rose spray wettable sulphur 80 % WP (Sulfex/Balwan/Sulfadex) @ 2-gram/litre of water or Propargite 57 % EC (Omite/Mitekill/Super Dynamite) @ 2-ml/litre of water or Fenpyroximate 5 % EC (Seagate/Mitigate/Formite) @ 2-ml/litre of water.
BANANA	To manage stem weevil, install Cosmolure pheromone traps @ 10/acre in banana garden. Dip the banana stem in warm water for 30 minutes before planting. Fill the pit with 25 g neem pedia or 25-50 g any granular insecticide before planting. Cut the affected plant into pieces and dry under sun. Keep the banana garden neat and clean.
PAPAYA	To manage mealy bug at early stage of infestation spray neem-based pesticide (Neem Oil 1500 PPM @30- ml/10-litre of water or insecticidal soap. In case of severe infestation spray Profenphos 50 % EC @ 20-ml/10-litre of water or Thiamethoxam 25 % WG @ 3-gram/10-litre of water.
GARLIC	The weather is optimum for sowing of garlic in irrigated upland and medium land Grow HYV like Phawari, Jamnagar and G-282. Use 150 kg seed material per acre. Apply 24:24:24 kg NPK per acre as basal along with 15 tons of FYM. Sow the seeds at 8 cm apart, maintaining a row spacing of 20 cm.
GARDEN PEA	Now it is optimum time for sowing of green pea in the fallow uplands. High Yielding varieties suitable for Odisha such as Rachana, Arkel and T -163 Use 25-30 kg seeds/acre. Before sowing seeds are to be treated with 2 g Carbendazim/kg seeds. Apply 10:16:10 kg NPK/acre during final land preparation. Sow the seeds in line 30 cm apart with 10 cm plant to plant distance.

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PUMPKIN	To manage fruit fly in cucurbits, prepare a poison bait by mixing 400- gram Jaggery and 8-ml Malathion or DDVP in 4-litre of water. Keep this mixture in Plastic cups or clay pots @80-nos/acre. The fruit flies will be attracted to this and eventually get killed by falling into the poison baits.

Live Stock Specific Advisory:

Live Stock(Varieties)	Live Stock Specific Advisory
COW	Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10%-20% in the daily ration during winter season to meet the energy requirement of the animals.

Fisheries Specific Advisory:

Fisheries(Varieties)	Fisheries Specific Advisory
COMMON CARP	During winters, various fungal, bacterial and parasitic diseases may appear in the fish. Treat the pond with CIFAX @ 400 ml/acre just before the onset of winters. Also treat the pond with potassium permanganate @ 1-2 kg/acre or limestone @ 50-100 kg/acre. Salt application @ 100 kg/acre also helps in protecting fish against disease outbreak during winters.

Poultry Specific Advisory:

Poultry(Varieties)	Poultry Specific Advisory
CHICK	If the Poultry bird is 3-4 weeks old then go for Vaccination against Ranikhet disease.