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Week no-16

Date: 16.04.2024

West Central Table Land Zone

Sambalpur

According to medium range weather forecast of IMD, MC, Bhubaneswar, there is very less chance of occurrence of rainfall along with clear to mainly clear sky is expected during the upcoming days. The maximum and minimum temperature is likely to be ranges between 40-43°C and 26°C respectively during this week. The maximum and minimum relative humidity may vary between 24-59% and 10-16% respectively. The NW/SE wind with a speed of 7-9 km/hr is predicted during upcoming days.

Date	17-04-2024	18-04-2024	19-04-2024	20-04-2024	21-04-2024
Rainfall (mm)	0	0	0	0	0
Max Temperature (° C)	40	41	42	43	43
Min Temperature (° C)	26	26	26	26	26
Total cloud cover (okta)	0	0	0	0	1
Max Relative Humidity (%)	35	24	29	34	59
Min Relative Humidity (%)	16	11	10	10	11
Wind speed (km/h)	8	9	8	7	7
Wind direction (deg)	289	292	292	292	135

For further information, contact the IMD, Bhubaneswar, Tel. # 0674-2596116

General Advisory

- There is a chance of increase in temperature along with heat wave condition is expected in upcoming four days, so farmer are advised to apply light and frequent irrigation to the standing crops, increase the frequency of irrigation at critical growth stages, irrigate only during the evening or early morning and use sprinkler irrigation if possible. Mulching should be done with crop residue, straw / polythene to conserve soil moisture as well as maintain soil temperature. Avoid grazing of animal during noon hours in open place
- Prevailing weather condition is favourable for increasing the insects and diseases population in both field and vegetable crops so its regular monitoring should be advised.
- As per Long Range Forecast of IMD for Southwest Monsoon Season Rainfall (June to September, 2024), rainfall over the country as a whole is most likely to be above normal (>104% of the Long Period Average (LPA)). Quantitatively, the seasonal rainfall over the country as a whole is likely to be 106% of LPA with a model error of ± 5%.

Crop and livestock Specific Agromet Advisory

Name of the crop	Crop Stage	Agromet Advisories
Rice	Panicle initiation / 50% flowering	<ul style="list-style-type: none"> • Farmers are advised to maintain adequate moisture in paddy field because heat wave condition may prevail during upcoming days. • To control yellow stem borer, spraying of Chlorantraniliprole 18.5% SC @ 0.3ml or Fipronil 5% @ 2.5ml per liter of water should be advised under clear sky. • For BLB control, farmer should spray Plantomycin @ 1g/liter of water using 200 liters of water per acre or Streptocycline (150 mg) + Copper oxychloride 1g/litre of water twice at an interval of 8 days.
Green Gram (Summer)	flowering / Pod formation stage	<ul style="list-style-type: none"> • This is the critical stage of water requirement for green gram crop and water stress at this stage may lead to poor pod filling so maintenance of adequate moisture should be advised. • To control aphids attack in pulse crop, spraying of imidacloprid @ 0.3 ml or Thiamethoxam @ 0.3 g per liter of water should be

		<p>advised under clear weather.</p> <ul style="list-style-type: none"> For pod borer attack, spraying of Chlorantraniliprole 18.5% SC @ 0.3ml or Emamectin Benzoate @ 0.4 g or Prophenofos @ 2ml per liter of water should be advised when sky is clear.
Maize	Vegetative/ Tasseling stage	<ul style="list-style-type: none"> Farmers should apply top dressing of nitrogen fertilizer under proper soil moisture condition at this stage. To control stem borer in Maize field, spraying of Fipronil 5% SC or Profenophos 50% EC @ 2ml and for fall army worm, Emamectin Benzoate @ 0.4 g per liter of water should be advised.
Groundnut	Peak flowering/ Peg and Pod formation	<ul style="list-style-type: none"> Application of Gypsum @ 200 kg per acre should be advised at flowering stage on soil surface near to the base of the plant under adequate moisture condition so that calcium is picked up by the peg and the developing pods.
Mango	Fruiting stages	<ul style="list-style-type: none"> To control mango hopper in Mango tree, spraying of insecticides like Acephate (1g/L) or Chloropyriphos (0.5 ml/L) or Thiomethoxam (0.3-0.4 g/L) and for powdery mildew disease, spraying of soluble sulphur (2 g/ L) should be advised under clear weather condition. To control fruit fly attack, use of fruit fly trap should be advised. This month is very crucial for fruit growth in Mango orchard and water scarcity at this stage may lead poor fruit development therefore farmers are advised to maintain moisture by applying irrigation at 10-15 days interval at early morning or evening hours. Avoid water stress in upcoming days because there is a chance of occurrence heat wave condition at that period.
Vegetable crops	Vegetative stage / flowering/ Fruiting	<ul style="list-style-type: none"> Prevailing weather condition is favourable for increasing the sucking insect pest population in vegetable crops so its regular monitoring should be advised. To control leaf eating caterpillar and fruit borer / shoot and fruit borer in Tomato, Brinjal and Okra spraying of Emamectin Benzoate @ 0.4 g per liter of water should be advised under clear weather. Spraying of Tebuconazole 50% + Trifloxystrobin 25% @ 0.4g per liter water should be advised to control purple blotch disease in Onion and in case of thrips attack, spraying of imidacloprid @ 0.3 ml or Thiamethoxam @ 0.3 g per liter of water or Acetamiprid 20% SP @ 1g per 4 liters of water should be advised. Maintain adequate moisture in field because dry weather is prevail for upcoming four days.
Cow/Buffalo		<ul style="list-style-type: none"> There is a chance of increase in temperature along with heat wave condition in upcoming week so to protect the animal from heat, farmers should make provision to provide fresh clean and cold drinking water to the animal along with green grass, protein-fat bypass supplement, mineral mixture and salt because temperature is expected to be increased after some days. Keep animals in shade and don't make them work between 11 am to 4 pm. Cover the shed roof with straw, paint it white or plaster with dung-mud to reduce temperature. In extreme heat condition, spray water and take the animal to a water body to cool off. Make them graze during cooler hours.

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