



GRAMIN KRISHI MAUSAM SEWA

INDIA METEOROLOGICAL DEPARTMENT

DISTRICT AGROMET UNIT

KRISHI VIGYAN KENDRA CUTTACK

(A Unit of ICAR-National Rice Research Institute)

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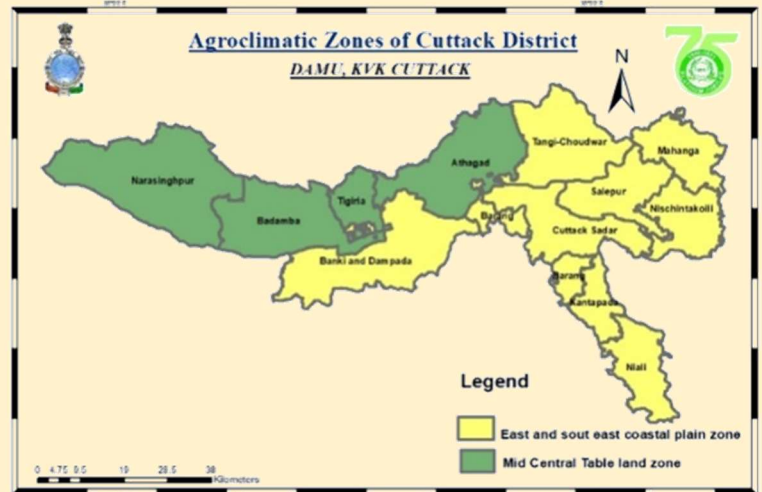


Bulletin No.-489

Date- 26/04/2024

Cuttack District Block Wise Agro-met Advisory Service Bulletin

*Friday, 26th April, 2024
(For the period 26th to 30th April, 2024)*



*Issued by
District Agromet Unit,
KrishiVigyan Kendra Cuttack*

Dr Ranjan kumar Mohanta
(Nodal officer)



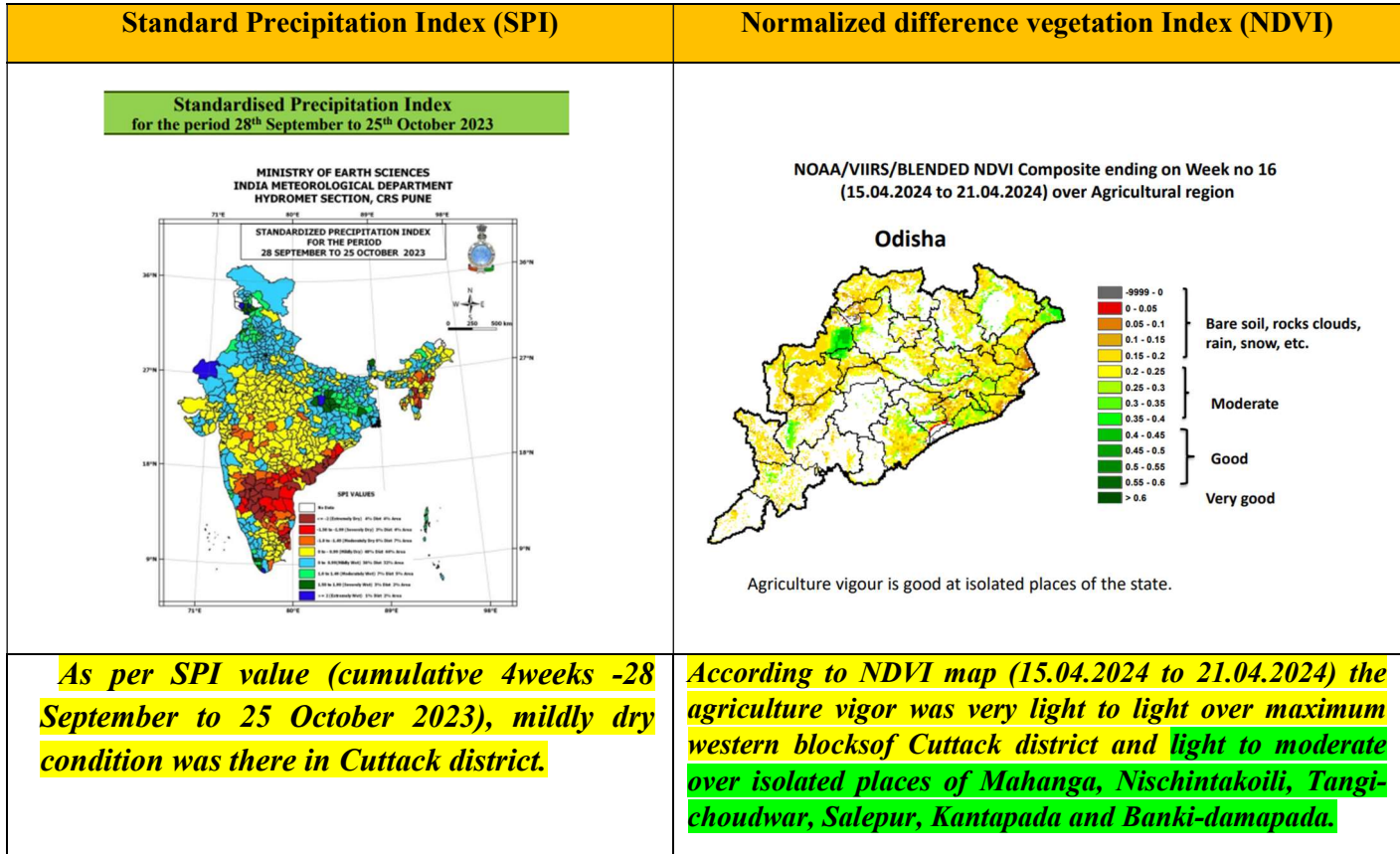
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STANDARD PRECIPITATION INDEX AND NDVI MAP



LEGEND (Medium range block level rainfall forecast)		
	No Rainfall	00 mm
	Very light rainfall	01-05 mm
	Light rainfall	06-10 mm
	Light to moderate rainfall	11-30 mm
	Moderate to heavy rainfall	31-65 mm
	Heavy to very heavy rainfall	66-115 mm
	Extremely heavy rainfall	>116 mm

LEGEND (Past week temperature)		
Color code	Temperature	Departure
	Below Normal	< 2°C from normal
	Normal	-2°C to +2°C from normal
	Above Normal	>2°C from normal



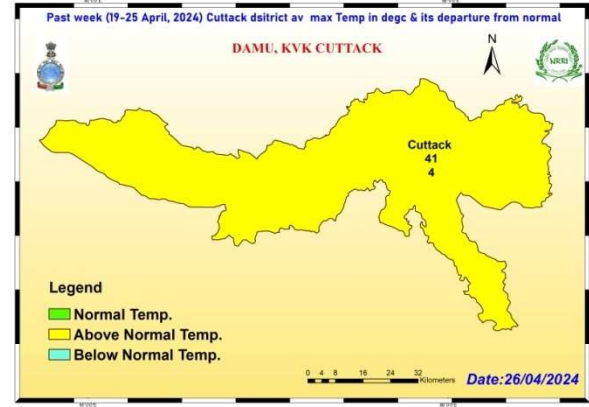
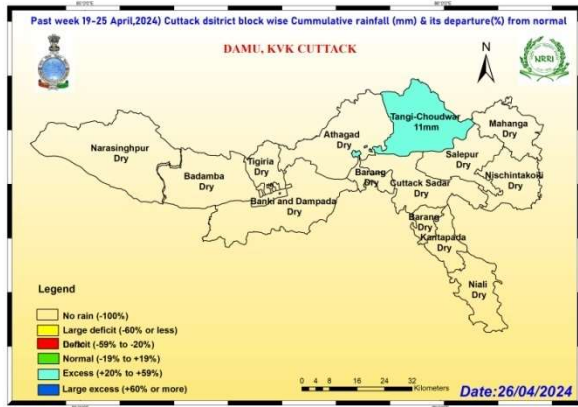


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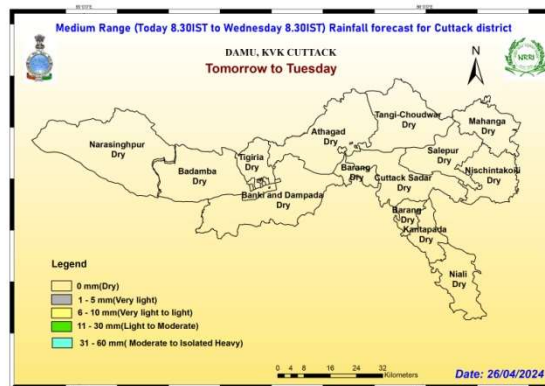
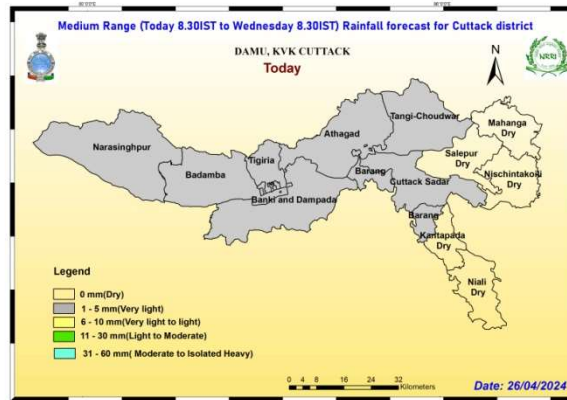


Bulletin No.-489
 Date- 26/04/2024

Past week (19-25 April, 2024) cumulative rainfall (mm) and its departure from normal weekly rainfall and (19-25 April, 2024) average maximum temperature and its departure from normal for Cuttack district



Medium range (Today (8.30IST) to Wednesday (8.30IST)) Rainfall (mm) forecast for Cuttack district



Dr Ranjan kumar Mohanta
 (Nodal officer)



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Bulletin No.-489
Date- 26/04/2024

AGROMET ADVISORY BULLETIN FOR ATHAGAD

District Past week average weather condition and Block past week average Rainfall condition

The block received average 0mm and district received average trace mm rainfall during the last week. The mean daily maximum and minimum temperature was 41.1°C (+3.5 from normal) and 26.7°C (2.5 from normal), respectively. The mean relative humidity was 51-61%.

Forecasted period: Today(8.30IST) to 01st May(8.30IST)2024

Weather advisory: *Very light to rainfall is forecasted for today and Dry weather is forecasted for next 4 days in the block.* The day temperature will be 41-43°C and night temperature will be 26-29°C for upcoming 5 days. Maximum and minimum relative humidity will be 47-73% and 10-14% respectively. There will be clear sky for next 5 days.

Block	Athagad (VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
Date	26/04/2024	27/04/2024	28/04/2024	29/04/2024	30/04/2024
Rainfall (mm)	2	0	0	0	0
T-Max (°C)	41	42	41	41	43
T-Min (°C)	26	26	29	27	26
Cloud Cover (octa)	2	2	2	1	2
RH Max (%)	72	67	47	66	73
RH Min (%)	14	10	11	13	10
Wind Speed (kmph)	13	13	10	14	14
Wind Direction (deg)	203	199	214	208	207

Special agro-met advisory for anticipated heat wave condition in Cuttack district.

Isolated heat wave to severe heat wave (Day time temperature above normal 5-6°C or more) condition likely to prevail over Cuttack district with temperature range of 40-43°C in between next 5 days, which will have adverse impact on crops/vegetables/animals, so farmers should follow the contingency measures for heat wave condition which are mentioned below.

Crops and vegetables:

- Where Maize is a standing crop now, at their critical growth stage of soil moisture/irrigation i.e tasseling to silking stage to grain formation which stage demands high water/soil moisture content due to high LAI. Water deficit at that stage will negatively affect the fertilization, grain number per cob, and as a result, the final yield of maize is reduced, so Farmers are advised to maintain proper moisture in the maize crop by giving light irrigation as per requirement.
- Two sprays of plant growth substances such as Salicylic acid (250 µmol/ lit) or Sodium nitroprusside (SNP @ 25 µmol/ lit) is also helpful in improving fruit set and size in tomato.
- If the orchard is more than 6 years age, 150-240 litres water/day/tree is required. Drip irrigation with organic mulch should be preferred.
- Mulching helps in maintaining the soil moisture for long period. Mulch the soil with paddy straw or locally available organic or inorganic material. Black polythene material would be essential to prevent excess evaporation.
- Foliar spray of 2% DAP + 1% KCl (MOP) during critical stages of flowering and grain formation.
- Foliar spray of 2-4% Kaolin is recommended depending on the severity to reduce the transpiration. Two foliar sprays of Potassium nitrate 1 – 1.5% may also be done at an interval of 15 days during April-May. Foliar spray of 500 ppm Cycocel (1 ml of commercial product per litre of water).
- Spray of 40 ppm NAA to check flower and fruit drop (4 ml of Planofix in 4.5 litres of water).
- Foliar spray of 100 ppm salicylic acid for increasing stem reserve utilization under high moisture stress and also spray of 0.3 % Boric acid + 0.5 % ZnSO₄ + 0.5 % FeSO₄ + 1.0 % urea during critical stages of the stress.
- Use shading net of 50% (1.5-2.0 m above the field surface) to reduce the intensity of solar radiation in vegetable crops.
- In Mango due to high temperature stress in many areas leaf fall is observed. To overcome the leaf fall and to enhance the turgidity spray 0.2 % cent Potassium Sulphate.
- In Banana, as a mitigation measure, 0.1mM salicylic acid (140 mg/litre of water with surfactant) foliar spray can be given to the plant @ 250 ml/plant. Foliar application of Kaolinite (5%) during vegetative state reduces the transpiration water loss.
- In Banana Application of 5kg Rice husk ash or composted coir pith in the pit at the time of planting is recommended to increase the water holding capacity in the rhizosphere.

Animal husbandry:

As THI likely to be above 72, to escape dairy animals from thermal stress, make necessary arrangement for clean and sufficient drinking water with sufficient fodder crops for the animals. Keep farm animals indoor during the day time period.

Dr Ranjan kumar Mohanta
 (Nodal officer)



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Bulletin No.-489
Date- 26/04/2024

AGROMET ADVISORY BULLETIN FOR BADAMBBA

District Past week average weather condition and Block past week average Rainfall condition

The block received average 0mm and district received average trace mm rainfall during the last week. The mean daily maximum and minimum temperature was 41.1°C (+3.5 from normal) and 26.7°C (2.5 from normal), respectively. The mean relative humidity was 51-61%.

Forecasted period: Today(8.30IST) to 01st May(8.30IST)2024

Weather advisory: *Very light to rainfall is forecasted for today and Dry weather is forecasted for next 4 days in the block.* The day temperature will be 42-43°C and night temperature will be 25-28°C for upcoming 5 days. Maximum and minimum relative humidity will be 31-64% and 10-13% respectively. **There will be clear sky for next 5 days.**

Block	Badamba (VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
	26/04/2024	27/04/2024	28/04/2024	29/04/2024	30/04/2024
Rainfall(mm)	2	0	0	0	0
T-Max(°C)	42	43	42	42	43
T-Min(°C)	25	27	28	26	26
Cloud Cover(octa)	2	2	2	1	2
RH Max (%)	64	56	31	60	61
RH Min (%)	13	10	11	13	11
Wind Speed (Kmph)	11	11	9	13	12
Wind Direction (deg)	203	199	255	203	207

Special agro-met advisory for anticipated heat wave condition in Cuttack district.

Isolated heat wave to severe heat wave (Day time temperature above normal 5-6°C or more) condition likely to prevail over Cuttack district with temperature range of 40-43°C in between next 5 days, which will have adverse impact on crops/vegetables/animals, so farmers should follow the contingency measures for heat wave condition which are mentioned below.

Crops and vegetables:

- Where Maize is a standing crop now, at their critical growth stage of soil moisture/irrigation i.e tasseling to silking stage to grain formation which stage demands high water/soil moisture content due to high LAI. Water deficit at that stage will negatively affect the fertilization, grain number per cob, and as a result, the final yield of maize is reduced, so Farmers are advised to maintain proper moisture in the maize crop by giving light irrigation as per requirement.
- Two sprays of plant growth substances such as Salicylic acid (250 µmol/ lit) or Sodium nitroprusside (SNP @ 25 µmol/ lit) is also helpful in improving fruit set and size in tomato.
- If the orchard is more than 6 years age, 150-240 litres water/day/tree is required. Drip irrigation with organic mulch should be preferred.
- Mulching helps in maintaining the soil moisture for long period. Mulch the soil with paddy straw or locally available organic or inorganic material. Black polythene material would be essential to prevent excess evaporation.
- Foliar spray of 2% DAP + 1% KCl (MOP) during critical stages of flowering and grain formation.
- Foliar spray of 2-4% Kaolin is recommended depending on the severity to reduce the transpiration. Two foliar sprays of Potassium nitrate 1 – 1.5% may also be done at an interval of 15 days during April-May. Foliar spray of 500 ppm Cycocel (1 ml of commercial product per litre of water).
- Spray of 40 ppm NAA to check flower and fruit drop (4 ml of Planofix in 4.5 litres of water).
- Foliar spray of 100 ppm salicylic acid for increasing stem reserve utilization under high moisture stress and also spray of 0.3 % Boric acid + 0.5 % ZnSO₄ + 0.5 % FeSO₄ + 1.0 % urea during critical stages of the stress.
- Use shading net of 50% (1.5-2.0 m above the field surface) to reduce the intensity of solar radiation in vegetable crops.
- In Mango due to high temperature stress in many areas leaf fall is observed. To overcome the leaf fall and to enhance the turgidity spray 0.2 % cent Potassium Sulphate.
- In Banana, as a mitigation measure, 0.1mM salicylic acid (140 mg/litre of water with surfactant) foliar spray can be given to the plant @ 250 ml/plant. Foliar application of Kaolinite (5%) during vegetative state reduces the transpiration water loss.
- In Banana Application of 5kg Rice husk ash or composted coir pith in the pit at the time of planting is recommended to increase the water holding capacity in the rhizosphere.

Animal husbandry:

As THI likely to be above 72, to escape dairy animals from thermal stress, make necessary arrangement for clean and sufficient drinking water with sufficient fodder crops for the animals. Keep farm animals indoor during the day time period.

Dr Ranjan kumar Mohanta
(Nodal officer)



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Bulletin No.-489
Date- 26/04/2024

AGROMET ADVISORY BULLETIN FOR BANKI

District Past week average weather condition

The block received average 0mm and district received average trace mm rainfall during the last week. The mean daily maximum and minimum temperature was 41.1°C (+3.5from normal) and 26.7°C (2.5from normal), respectively. The mean relative humidity was 51-61%.

Forecasted period: Today(8.30IST) to 01st May(8.30IST)2024

Weather advisory: *Very light to rainfall is forecasted for today and Dry weather is forecasted for next 4 days in the block.* The day temperature will be 41-43°C and night temperature will be 25-28°C for upcoming 5 days. Maximum and minimum relative humidity will be 39-69% and 11-15% respectively. There will be clear sky for next 5days.

Block	Banki(VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
Date	26/04/2024	27/04/2024	28/04/2024	29/04/2024	30/04/2024
Rainfall(mm)	3	0	0	0	0
T-Max(°C)	41	42	42	42	43
T-Min(°C)	25	27	28	27	26
Cloud Cover(octa)	2	2	2	1	2
RH Max (%)	69	64	39	65	69
RH Min (%)	15	11	12	14	11
Wind Speed (Kmph)	14	13	10	14	14
Wind Direction (deg)	207	208	234	205	203

Special agro-met advisory for anticipated heat wave condition in Cuttack district.

Isolated heat wave to severe heat wave (Day time temperature above normal 5-6°C or more) condition likely to prevail over Cuttack district with temperature range of 40-43°C in between next 5 days, which will have adverse impact on crops/vegetables/animals, so farmers should follow the contingency measures for heat wave condition which are mentioned below.

Crops and vegetables:

- Where Maize is a standing crop now, at their critical growth stage of soil moisture/irrigation i.e tasseling to silking stage to grain formation which stage demands high water/soil moisture content due to high LAI. Water deficit at that stage will negatively affect the fertilization, grain number per cob, and as a result, the final yield of maize is reduced, so Farmers are advised to maintain proper moisture in the maize crop by giving light irrigation as per requirement.
- Two sprays of plant growth substances such as Salicylic acid (250 µmol/ lit) or Sodium nitroprusside (SNP @ 25 µmol/ lit) is also helpful in improving fruit set and size in tomato.
- If the orchard is more than 6 years age, 150-240 litres water/day/tree is required. Drip irrigation with organic mulch should be preferred.
- Mulching helps in maintaining the soil moisture for long period. Mulch the soil with paddy straw or locally available organic or inorganic material. Black polythene material would be essential to prevent excess evaporation.
- Foliar spray of 2% DAP + 1% KCl (MOP) during critical stages of flowering and grain formation.
- Foliar spray of 2-4% Kaolin is recommended depending on the severity to reduce the transpiration. Two foliar sprays of Potassium nitrate 1 – 1.5% may also be done at an interval of 15 days during April-May. Foliar spray of 500 ppm Cycocel (1 ml of commercial product per litre of water).
- Spray of 40 ppm NAA to check flower and fruit drop (4 ml of Planofix in 4.5 litres of water).
- Foliar spray of 100 ppm salicylic acid for increasing stem reserve utilization under high moisture stress and also spray of 0.3 % Boric acid + 0.5 % ZnSO4 + 0.5 % FeSO4 + 1.0 % urea during critical stages of the stress.
- Use shading net of 50% (1.5-2.0 m above the field surface) to reduce the intensity of solar radiation in vegetable crops.
- In Mango due to high temperature stress in many areas leaf fall is observed. To overcome the leaf fall and to enhance the turgidity spray 0.2 % cent Potassium Sulphate.
- In Banana, as a mitigation measure, 0.1mM salicylic acid (140 mg/litre of water with surfactant) foliar spray can be given to the plant @ 250 ml/plant. Foliar application of Kaolinite (5%) during vegetative state reduces the transpiration water loss.
- In Banana Application of 5kg Rice husk ash or composted coir pith in the pit at the time of planting is recommended to increase the water holding capacity in the rhizosphere.

Animal husbandry:

As THI likely to be above 72, to escape dairy animals from thermal stress, make necessary arrangement for clean and sufficient drinking water with sufficient fodder crops for the animals. Keep farm animals indoor during the day time period.

Dr Ranjan kumar Mohanta
 (Nodal officer)



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Bulletin No.-489
Date- 26/04/2024

AGROMET ADVISORY BULLETIN FOR BANKI-DAMPADA

District Past week average weather condition and Block past week average Rainfall condition

The block received average 0mm and district received average trace mm rainfall during the last week. The mean daily maximum and minimum temperature was 41.1°C (+3.5from normal) and 26.7°C (2.5from normal), respectively. The mean relative humidity was 51-61%.

Forecasted period: Today(8.30IST) to 01st May(8.30IST)2024

Weather Advisory: *Very light to rainfall is forecasted for today and Dry weather is forecasted for next 4 days in the block.* The day temperature will be 41-43°C and night temperature will be 26-28°C for upcoming 5 days. Maximum and minimum relative humidity will be 41-70% and 11-16% respectively. There will be clear sky for next 5days.

Block	Banki-Dampada (VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
	26/04/2024	27/04/2024	28/04/2024	29/04/2024	30/04/2024
Rainfall(mm)	2	0	0	0	0
T-Max(°C)	41	42	43	42	43
T-Min(°C)	26	26	28	27	26
Cloud Cover(octa)	2	2	2	1	2
RH Max (%)	70	65	41	66	70
RH Min (%)	16	11	12	14	11
Wind Speed (Kmph)	14	13	10	14	14
Wind Direction (deg)	207	208	234	205	205

Special agro-met advisory for anticipated heat wave condition in Cuttack district.

Isolated heat wave to severe heat wave (Day time temperature above normal 5-6°C or more) condition likely to prevail over Cuttack district with temperature range of 40-43°C in between next 5 days, which will have adverse impact on crops/vegetables/animals, so farmers should follow the contingency measures for heat wave condition which are mentioned below.

Crops and vegetables:

- Where Maize is a standing crop now, at their critical growth stage of soil moisture/irrigation i.e tasseling to silking stage to grain formation which stage demands high water/soil moisture content due to high LAI. Water deficit at that stage will negatively affect the fertilization, grain number per cob, and as a result, the final yield of maize is reduced, so Farmers are advised to maintain proper moisture in the maize crop by giving light irrigation as per requirement.
- Two sprays of plant growth substances such as Salicylic acid (250 µmol/ lit) or Sodium nitroprusside (SNP @ 25 µmol/ lit) is also helpful in improving fruit set and size in tomato.
- If the orchard is more than 6 years age, 150-240 litres water/day/tree is required. Drip irrigation with organic mulch should be preferred.
- Mulching helps in maintaining the soil moisture for long period. Mulch the soil with paddy straw or locally available organic or inorganic material. Black polythene material would be essential to prevent excess evaporation.
- Foliar spray of 2% DAP + 1% KCl (MOP) during critical stages of flowering and grain formation.
- Foliar spray of 2-4% Kaolin is recommended depending on the severity to reduce the transpiration. Two foliar sprays of Potassium nitrate 1 – 1.5% may also be done at an interval of 15 days during April-May. Foliar spray of 500 ppm Cycocel (1 ml of commercial product per litre of water).
- Spray of 40 ppm NAA to check flower and fruit drop (4 ml of Planofix in 4.5 litres of water).
- Foliar spray of 100 ppm salicylic acid for increasing stem reserve utilization under high moisture stress and also spray of 0.3 % Boric acid + 0.5 % ZnSO₄ + 0.5 % FeSO₄ + 1.0 % urea during critical stages of the stress.
- Use shading net of 50% (1.5-2.0 m above the field surface) to reduce the intensity of solar radiation in vegetable crops.
- In Mango due to high temperature stress in many areas leaf fall is observed. To overcome the leaf fall and to enhance the turgidity spray 0.2 % cent Potassium Sulphate.
- In Banana, as a mitigation measure, 0.1mM salicylic acid (140 mg/litre of water with surfactant) foliar spray can be given to the plant @ 250 ml/plant. Foliar application of Kaolinite (5%) during vegetative state reduces the transpiration water loss.
- In Banana Application of 5kg Rice husk ash or composted coir pith in the pit at the time of planting is recommended to increase the water holding capacity in the rhizosphere.

Animal husbandry:

As THI likely to be above 72, to escape dairy animals from thermal stress, make necessary arrangement for clean and sufficient drinking water with sufficient fodder crops for the animals. Keep farm animals indoor during the day time period.

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Bulletin No.-489
Date- 26/04/2024

AGROMET ADVISORY BULLETIN FOR BARANGA

District Past week average weather condition and Block past week average Rainfall condition

The block received average 0mm and district received average trace mm rainfall during the last week. The mean daily maximum and minimum temperature was 41.1°C (+3.5 from normal) and 26.7°C (2.5 from normal), respectively. The mean relative humidity was 51-61%.

Forecasted period: Today(8.30IST) to 01st May(8.30IST)2024

Weather advisory: *Very light to rainfall is forecasted for today and Dry weather is forecasted for next 4 days in the block.* The day temperature will be 39-42°C and night temperature will be 26-29°C for upcoming 5 days. Maximum and minimum relative humidity will be 63-76% and 12-18% respectively. There will be clear sky for next 5 days.

Block	Baranga (VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
	26/04/2024	27/04/2024	28/04/2024	29/04/2024	30/04/2024
Rainfall(mm)	2	0	0	0	0
T-Max(°C)	39	41	42	41	42
T-Min(°C)	26	26	29	27	27
Cloud Cover	1	2	2	1	1
RH Max (%)	75	74	63	72	76
RH Min (%)	18	12	13	15	13
Wind Speed (Kmph)	18	17	13	18	19
Wind Direction (deg)	203	208	208	205	205

Special agro-met advisory for anticipated heat wave condition in Cuttack district.

Isolated heat wave to severe heat wave (Day time temperature above normal 5-6°C or more) condition likely to prevail over Cuttack district with temperature range of 40-43°C in between next 5 days, which will have adverse impact on crops/vegetables/animals, so farmers should follow the contingency measures for heat wave condition which are mentioned below.

Crops and vegetables:

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- If the orchard is more than 6 years age, 150-240 litres water/day/tree is required. Drip irrigation with organic mulch should be preferred.
- Mulching helps in maintaining the soil moisture for long period. Mulch the soil with paddy straw or locally available organic or inorganic material. Black polythene material would be essential to prevent excess evaporation.
- Foliar spray of 2% DAP + 1% KCI (MOP) during critical stages of flowering and grain formation.
- Foliar spray of 2-4% Kaolin is recommended depending on the severity to reduce the transpiration. Two foliar sprays of Potassium nitrate 1 – 1.5% may also be done at an interval of 15 days during April-May. Foliar spray of 500 ppm Cycocel (1 ml of commercial product per litre of water).
- Spray of 40 ppm NAA to check flower and fruit drop (4 ml of Planofix in 4.5 litres of water).
- Foliar spray of 100 ppm salicylic acid for increasing stem reserve utilization under high moisture stress and also spray of 0.3 % Boric acid + 0.5 % ZnSO₄ + 0.5 % FeSO₄ + 1.0 % urea during critical stages of the stress.
- Use shading net of 50% (1.5-2.0 m above the field surface) to reduce the intensity of solar radiation in vegetable crops.
- In Mango due to high temperature stress in many areas leaf fall is observed. To overcome the leaf fall and to enhance the turgidity spray 0.2 % cent Potassium Sulphate.
- In Banana, as a mitigation measure, 0.1mM salicylic acid (140 mg/litre of water with surfactant) foliar spray can be given to the plant @ 250 ml/plant. Foliar application of Kaolinite (5%) during vegetative state reduces the transpiration water loss.
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Animal husbandry:

As THI likely to be above 72, to escape dairy animals from thermal stress, make necessary arrangement for clean and sufficient drinking water with sufficient fodder crops for the animals. Keep farm animals indoor during the day time period.

Dr Ranjan kumar Mohanta
 (Nodal officer)



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Bulletin No.-489
Date- 26/04/2024

AGROMET ADVISORY BULLETIN FOR CUTTACK SADAR

District Past week average weather condition and Block past week average Rainfall condition

The block received average 0mm and district received average trace mm rainfall during the last week. The mean daily maximum and minimum temperature was 41.1°C (+3.5from normal) and 26.7°C (2.5from normal), respectively. The mean relative humidity was 51-61%.

Forecasted period: Today(8.30IST) to 01st May (8.30IST)2024

Weatheradvisory: *Very light to rainfall is forecasted for today and Dry weather is forecasted for next 4 days in the block.* The day temperature will be 40-42°C and night temperature will be 26-29°Cforupcoming 5 days. Maximum and minimum relative humidity will be 62-77% and 10-17% respectively. There will be clear sky for next 5days.

Block	Cuttack sadar(VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
Date	26/04/2024	27/04/2024	28/04/2024	29/04/2024	30/04/2024
Rainfall(mm)	2	0	0	0	0
T-Max(°C)	40	41	41	40	42
T-Min(°C)	26	26	29	27	27
Cloud Cover(octa)	1	2	2	1	1
RH Max (%)	74	73	62	70	77
RH Min (%)	17	10	11	13	10
Wind Speed (Kmph)	17	15	12	16	17
Wind Direction (deg)	206	210	210	208	208

Special agro-met advisory for anticipated heat wave condition in Cuttack district.

Isolated heat wave to severe heat wave (Day time temperature above normal 5-6°C or more) condition likely to prevail over Cuttack district with temperature range of 40-43°C in between next 5 days, which will have adverse impact on crops/vegetables/animals, so farmers should follow the contingency measures for heat wave condition which are mentioned below.

Crops and vegetables:

- Where Maize is a standing crop now, at their critical growth stage of soil moisture/irrigation i.e tasseling to silking stage to grain formation which stage demands high water/soil moisture content due to high LAI. Water deficit at that stage will negatively affect the fertilization, grain number per cob, and as a result, the final yield of maize is reduced, so Farmers are advised to maintain proper moisture in the maize crop by giving light irrigation as per requirement.
- Two sprays of plant growth substances such as Salicylic acid (250 µmol/ lit) or Sodium nitroprusside (SNP @ 25 µmol/ lit) is also helpful in improving fruit set and size in tomato.
- If the orchard is more than 6 years age, 150-240 litres water/day/tree is required. Drip irrigation with organic mulch should be preferred.
- Mulching helps in maintaining the soil moisture for long period. Mulch the soil with paddy straw or locally available organic or inorganic material. Black polythene material would be essential to prevent excess evaporation.
- Foliar spray of 2% DAP + 1% KCI (MOP) during critical stages of flowering and grain formation.
- Foliar spray of 2-4% Kaolin is recommended depending on the severity to reduce the transpiration. Two foliar sprays of Potassium nitrate 1 – 1.5% may also be done at an interval of 15 days during April-May. Foliar spray of 500 ppm Cycocel (1 ml of commercial product per litre of water).
- Spray of 40 ppm NAA to check flower and fruit drop (4 ml of Planofix in 4.5 litres of water).
- Foliar spray of 100 ppm salicylic acid for increasing stem reserve utilization under high moisture stress and also spray of 0.3 % Boric acid + 0.5 % ZnSO₄ + 0.5 % FeSO₄ + 1.0 % urea during critical stages of the stress.
- Use shading net of 50% (1.5-2.0 m above the field surface) to reduce the intensity of solar radiation in vegetable crops.
- In Mango due to high temperature stress in many areas leaf fall is observed. To overcome the leaf fall and to enhance the turgidity spray 0.2 % cent Potassium Sulphate.
- In Banana, as a mitigation measure, 0.1mM salicylic acid (140 mg/litre of water with surfactant) foliar spray can be given to the plant @ 250 ml/plant. Foliar application of Kaolinite (5%) during vegetative state reduces the transpiration water loss.
- In Banana Application of 5kg Rice husk ash or composted coir pith in the pit at the time of planting is recommended to increase the water holding capacity in the rhizosphere.

Animal husbandry:

As THI likely to be above 72, to escape dairy animals from thermal stress, make necessary arrangement for clean and sufficient drinking water with sufficient fodder crops for the animals. Keep farm animals indoor during the day time period.

Dr Ranjan kumar Mohanta
 (Nodal officer)



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Bulletin No.-489
Date- 26/04/2024

AGROMET ADVISORY BULLETIN FOR KANTAPADA

District Past week average weather condition and Block past week average Rainfall condition

The block received average 0mm and district received average trace mm rainfall during the last week. The mean daily maximum and minimum temperature was 41.1°C (+3.5from normal) and 26.7°C (2.5from normal), respectively. The mean relative humidity was 51-61%.

Forecasted period: Today(8.30IST) to 01st May(8.30IST)2024

Weather advisory: Dry weather is forecasted for upcoming 5 days in the block. The day temperature will be 38-41°C and night temperature will be 27-28°C for upcoming 5 days. Maximum and minimum relative humidity will be 71-78% and 18-23% respectively. There will be clear sky for next 5days.

Block	Kantapada (VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
Date	26/04/2024	27/04/2024	28/04/2024	29/04/2024	30/04/2024
Rainfall(mm)	0	0	0	0	0
T-Max(°C)	38	40	40	40	41
T-Min(°C)	27	27	28	28	28
Cloud Cover(octa)	0	2	1	0	0
RH Max (%)	78	76	71	75	77
RH Min (%)	23	18	19	19	18
Wind Speed (Kmph)	21	20	16	22	23
Wind Direction (deg)	204	212	207	207	204

Special agro-met advisory for anticipated heat wave condition in Cuttack district.

Isolated heat wave to severe heat wave (Day time temperature above normal 5-6°C or more) condition likely to prevail over Cuttack district with temperature range of 40-43°C in between next 5 days, which will have adverse impact on crops/vegetables/animals, so farmers should follow the contingency measures for heat wave condition which are mentioned below.

Crops and vegetables:

- Where Maize is a standing crop now, at their critical growth stage of soil moisture/irrigation i.e tasseling to silking stage to grain formation which stage demands high water/soil moisture content due to high LAI. Water deficit at that stage will negatively affect the fertilization, grain number per cob, and as a result, the final yield of maize is reduced, so Farmers are advised to maintain proper moisture in the maize crop by giving light irrigation as per requirement.
- Two sprays of plant growth substances such as Salicylic acid (250 µmol/ lit) or Sodium nitroprusside (SNP @ 25 µmol/ lit) is also helpful in improving fruit set and size in tomato.
- If the orchard is more than 6 years age, 150-240 litres water/day/tree is required. Drip irrigation with organic mulch should be preferred.
- Mulching helps in maintaining the soil moisture for long period. Mulch the soil with paddy straw or locally available organic or inorganic material. Black polythene material would be essential to prevent excess evaporation.
- Foliar spray of 2% DAP + 1% KCI (MOP) during critical stages of flowering and grain formation.
- Foliar spray of 2-4% Kaolin is recommended depending on the severity to reduce the transpiration. Two foliar sprays of Potassium nitrate 1 – 1.5% may also be done at an interval of 15 days during April-May. Foliar spray of 500 ppm Cycocel (1 ml of commercial product per litre of water).
- Spray of 40 ppm NAA to check flower and fruit drop (4 ml of Planofix in 4.5 litres of water).
- Foliar spray of 100 ppm salicylic acid for increasing stem reserve utilization under high moisture stress and also spray of 0.3 % Boric acid + 0.5 % ZnSO₄ + 0.5 % FeSO₄ + 1.0 % urea during critical stages of the stress.
- Use shading net of 50% (1.5-2.0 m above the field surface) to reduce the intensity of solar radiation in vegetable crops.
- In Mango due to high temperature stress in many areas leaf fall is observed. To overcome the leaf fall and to enhance the turgidity spray 0.2 % cent Potassium Sulphate.
- In Banana, as a mitigation measure, 0.1mM salicylic acid (140 mg/litre of water with surfactant) foliar spray can be given to the plant @ 250 ml/plant. Foliar application of Kaolinite (5%) during vegetative state reduces the transpiration water loss.
- In Banana Application of 5kg Rice husk ash or composted coir pith in the pit at the time of planting is recommended to increase the water holding capacity in the rhizosphere.

Animal husbandry:

As THI likely to be above 72, to escape dairy animals from thermal stress, make necessary arrangement for clean and sufficient drinking water with sufficient fodder crops for the animals. Keep farm animals indoor during the day time period.

Dr Ranjan kumar Mohanta
 (Nodal officer)



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Bulletin No.-489
Date- 26/04/2024

AGROMET ADVISORY BULLETIN FOR MAHANGA

District Past week average weather condition and Block past week average Rainfall condition

The block received average 0mm and district received average trace mm rainfall during the last week. The mean daily maximum and minimum temperature was 41.1°C (+3.5 from normal) and 26.7°C (2.5 from normal), respectively. The mean relative humidity was 51-61%.

Forecasted period: Today(8.30IST) to 01st May(8.30IST)2024

Weather advisory: Dry weather is forecasted for upcoming 5 days in the block. The day temperature will be and it will be 39-42°C and night temperature will be 27-29°C for upcoming 5 days. Maximum and minimum relative humidity will be 68-75% and 09-20% respectively. There will be clear sky for next 5 days.

Block	Mahanga (VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
	26/04/2024	27/04/2024	28/04/2024	29/04/2024	30/04/2024
Rainfall(mm)	0	0	0	0	0
T-Max(°C)	39	41	42	41	42
T-Min(°C)	27	27	29	28	27
Cloud Cover(octal)	1	3	2	1	1
RH Max (%)	74	72	68	70	75
RH Min (%)	20	10	13	13	9
Wind Speed (Kmph)	20	17	13	19	20
Wind Direction (deg)	206	210	208	208	205

Special agro-met advisory for anticipated heat wave condition in Cuttack district.

Isolated heat wave to severe heat wave (Day time temperature above normal 5-6°C or more) condition likely to prevail over Cuttack district with temperature range of 40-43°C in between next 5 days, which will have adverse impact on crops/vegetables/animals, so farmers should follow the contingency measures for heat wave condition which are mentioned below.

Crops and vegetables:

- Where Maize is a standing crop now, at their critical growth stage of soil moisture/irrigation i.e tasseling to silking stage to grain formation which stage demands high water/soil moisture content due to high LAI. Water deficit at that stage will negatively affect the fertilization, grain number per cob, and as a result, the final yield of maize is reduced, so Farmers are advised to maintain proper moisture in the maize crop by giving light irrigation as per requirement.
- Two sprays of plant growth substances such as Salicylic acid (250 µmol/ lit) or Sodium nitroprusside (SNP @ 25 µmol/ lit) is also helpful in improving fruit set and size in tomato.
- If the orchard is more than 6 years age, 150-240 litres water/day/tree is required. Drip irrigation with organic mulch should be preferred.
- Mulching helps in maintaining the soil moisture for long period. Mulch the soil with paddy straw or locally available organic or inorganic material. Black polythene material would be essential to prevent excess evaporation.
- Foliar spray of 2% DAP + 1% KCI (MOP) during critical stages of flowering and grain formation.
- Foliar spray of 2-4% Kaolin is recommended depending on the severity to reduce the transpiration. Two foliar sprays of Potassium nitrate 1 – 1.5% may also be done at an interval of 15 days during April-May. Foliar spray of 500 ppm Cycocel (1 ml of commercial product per litre of water).
- Spray of 40 ppm NAA to check flower and fruit drop (4 ml of Planofix in 4.5 litres of water).
- Foliar spray of 100 ppm salicylic acid for increasing stem reserve utilization under high moisture stress and also spray of 0.3 % Boric acid + 0.5 % ZnSO₄ + 0.5 % FeSO₄ + 1.0 % urea during critical stages of the stress.
- Use shading net of 50% (1.5-2.0 m above the field surface) to reduce the intensity of solar radiation in vegetable crops.
- In Mango due to high temperature stress in many areas leaf fall is observed. To overcome the leaf fall and to enhance the turgidity spray 0.2 % cent Potassium Sulphate.
- In Banana, as a mitigation measure, 0.1mM salicylic acid (140 mg/litre of water with surfactant) foliar spray can be given to the plant @ 250 ml/plant. Foliar application of Kaolinite (5%) during vegetative state reduces the transpiration water loss.
- In Banana Application of 5kg Rice husk ash or composted coir pith in the pit at the time of planting is recommended to increase the water holding capacity in the rhizosphere.

Animal husbandry:

As THI likely to be above 72, to escape dairy animals from thermal stress, make necessary arrangement for clean and sufficient drinking water with sufficient fodder crops for the animals. Keep farm animals indoor during the day time period.

Dr Ranjan kumar Mohanta
(Nodal officer)



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Bulletin No.-489
Date- 26/04/2024

AGROMET ADVISORY BULLETIN FOR NARASINGHPUR

District Past week average weather condition and Block past week average Rainfall condition

The block received average 0mm and district received average trace mm rainfall during the last week. The mean daily maximum and minimum temperature was 41.1°C (+3.5 from normal) and 26.7°C (2.5 from normal), respectively. The mean relative humidity was 51-61%.

Forecasted period: Today(8.30IST) to 01st May(8.30IST)2024

Weather advisory: *Very light to rainfall is forecasted for today and Dry weather is forecasted for next 4 days in the block.* The day temperature will be 42-44°C and night temperature will be 24-27°C for upcoming 5 days. Maximum and minimum relative humidity will be 32-57% and 09-12% respectively. There will be clear sky for next 5 days.

Block	Narasinghpur (VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
	26/04/2024	27/04/2024	28/04/2024	29/04/2024	30/04/2024
Rainfall(mm)	4	0	0	0	0
T-Max(°C)	44	43	42	43	43
T-Min(°C)	24	27	27	26	26
Cloud Cover(/octa)	2	1	2	0	2
RH Max (%)	57	40	32	55	50
RH Min (%)	11	10	12	11	9
Wind Speed (Kmph)	9	7	7	10	9
Wind Direction (deg)	199	270	270	203	210

Special agro-met advisory for anticipated heat wave condition in Cuttack district.

Isolated heat wave to severe heat wave (Day time temperature above normal 5-6°C or more) condition likely to prevail over Cuttack district with temperature range of 40-43°C in between next 5 days, which will have adverse impact on crops/vegetables/animals, so farmers should follow the contingency measures for heat wave condition which are mentioned below.

Crops and vegetables:

- Where Maize is a standing crop now, at their critical growth stage of soil moisture/irrigation i.e tasseling to silking stage to grain formation which stage demands high water/soil moisture content due to high LAI. Water deficit at that stage will negatively affect the fertilization, grain number per cob, and as a result, the final yield of maize is reduced, so Farmers are advised to maintain proper moisture in the maize crop by giving light irrigation as per requirement.
- Two sprays of plant growth substances such as Salicylic acid (250 µmol/ lit) or Sodium nitroprusside (SNP @ 25 µmol/ lit) is also helpful in improving fruit set and size in tomato.
- If the orchard is more than 6 years age, 150-240 litres water/day/tree is required. Drip irrigation with organic mulch should be preferred.
- Mulching helps in maintaining the soil moisture for long period. Mulch the soil with paddy straw or locally available organic or inorganic material. Black polythene material would be essential to prevent excess evaporation.
- Foliar spray of 2% DAP + 1% KCI (MOP) during critical stages of flowering and grain formation.
- Foliar spray of 2-4% Kaolin is recommended depending on the severity to reduce the transpiration. Two foliar sprays of Potassium nitrate 1 – 1.5% may also be done at an interval of 15 days during April-May. Foliar spray of 500 ppm Cycocel (1 ml of commercial product per litre of water).
- Spray of 40 ppm NAA to check flower and fruit drop (4 ml of Planofix in 4.5 litres of water).
- Foliar spray of 100 ppm salicylic acid for increasing stem reserve utilization under high moisture stress and also spray of 0.3 % Boric acid + 0.5 % ZnSO₄ + 0.5 % FeSO₄ + 1.0 % urea during critical stages of the stress.
- Use shading net of 50% (1.5-2.0 m above the field surface) to reduce the intensity of solar radiation in vegetable crops.
- In Mango due to high temperature stress in many areas leaf fall is observed. To overcome the leaf fall and to enhance the turgidity spray 0.2 % cent Potassium Sulphate.
- In Banana, as a mitigation measure, 0.1mM salicylic acid (140 mg/litre of water with surfactant) foliar spray can be given to the plant @ 250 ml/plant. Foliar application of Kaolinite (5%) during vegetative state reduces the transpiration water loss.
- In Banana Application of 5kg Rice husk ash or composted coir pith in the pit at the time of planting is recommended to increase the water holding capacity in the rhizosphere.

Animal husbandry:

As THI likely to be above 72, to escape dairy animals from thermal stress, make necessary arrangement for clean and sufficient drinking water with sufficient fodder crops for the animals. Keep farm animals indoor during the day time period.

Dr Ranjan kumar Mohanta
 (Nodal officer)



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Bulletin No.-489
Date- 26/04/2024

AGROMET ADVISORY BULLETIN FOR NIALI

District Past week average weather condition and Block past week average Rainfall condition

The block received average 0mm and district received average trace mm rainfall during the last week. The mean daily maximum and minimum temperature was 41.1°C (+3.5 from normal) and 26.7°C (2.5 from normal), respectively. The mean relative humidity was 51-61%.

Forecasted period: Today(8.30IST) to 01st May(8.30IST)2024

Weather advisory: Dry weather is forecasted for upcoming 5 days in the block. The day temperature will be 38-41°C and night temperature will be 27-28°C for upcoming 5 days. Maximum and minimum relative humidity will be 77-82% and 25-28% respectively. **There will be clear sky for next 5 days.**

Block	Niali (VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
	26/04/2024	27/04/2024	28/04/2024	29/04/2024	30/04/2024
Rainfall(mm)	0	0	0	0	0
T-Max(°C)	38	39	40	40	41
T-Min(°C)	27	27	27	28	28
Cloud Cover(octa)	0	2	1	0	0
RH Max (%)	79	77	82	78	80
RH Min (%)	28	26	25	26	25
Wind Speed(Kmph)	23	23	19	24	26
Wind Direction(deg)	203	212	204	204	204

Special agro-met advisory for anticipated heat wave condition in Cuttack district.

Isolated heat wave to severe heat wave (Day time temperature above normal 5-6°C or more) condition likely to prevail over Cuttack district with temperature range of 40-43°C in between next 5 days, which will have adverse impact on crops/vegetables/animals, so farmers should follow the contingency measures for heat wave condition which are mentioned below.

Crops and vegetables:

- Where Maize is a standing crop now, at their critical growth stage of soil moisture/irrigation i.e tasseling to silking stage to grain formation which stage demands high water/soil moisture content due to high LAI. Water deficit at that stage will negatively affect the fertilization, grain number per cob, and as a result, the final yield of maize is reduced, so Farmers are advised to maintain proper moisture in the maize crop by giving light irrigation as per requirement.
- Two sprays of plant growth substances such as Salicylic acid (250 µmol/ lit) or Sodium nitroprusside (SNP @ 25 µmol/ lit) is also helpful in improving fruit set and size in tomato.
- If the orchard is more than 6 years age, 150-240 litres water/day/tree is required. Drip irrigation with organic mulch should be preferred.
- Mulching helps in maintaining the soil moisture for long period. Mulch the soil with paddy straw or locally available organic or inorganic material. Black polythene material would be essential to prevent excess evaporation.
- Foliar spray of 2% DAP + 1% KCl (MOP) during critical stages of flowering and grain formation.
- Foliar spray of 2-4% Kaolin is recommended depending on the severity to reduce the transpiration. Two foliar sprays of Potassium nitrate 1 – 1.5% may also be done at an interval of 15 days during April-May. Foliar spray of 500 ppm Cycocel (1 ml of commercial product per litre of water).
- Spray of 40 ppm NAA to check flower and fruit drop (4 ml of Planofix in 4.5 litres of water).
- Foliar spray of 100 ppm salicylic acid for increasing stem reserve utilization under high moisture stress and also spray of 0.3 % Boric acid + 0.5 % ZnSO₄ + 0.5 % FeSO₄ + 1.0 % urea during critical stages of the stress.
- Use shading net of 50% (1.5-2.0 m above the field surface) to reduce the intensity of solar radiation in vegetable crops.
- In Mango due to high temperature stress in many areas leaf fall is observed. To overcome the leaf fall and to enhance the turgidity spray 0.2 % cent Potassium Sulphate.
- In Banana, as a mitigation measure, 0.1mM salicylic acid (140 mg/litre of water with surfactant) foliar spray can be given to the plant @ 250 ml/plant. Foliar application of Kaolinite (5%) during vegetative state reduces the transpiration water loss.
- In Banana Application of 5kg Rice husk ash or composted coir pith in the pit at the time of planting is recommended to increase the water holding capacity in the rhizosphere.

Animal husbandry:

As THI likely to be above 72, to escape dairy animals from thermal stress, make necessary arrangement for clean and sufficient drinking water with sufficient fodder crops for the animals. Keep farm animals indoor during the day time period.

Dr Ranjan kumar Mohanta
 (Nodal officer)



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Bulletin No.-489
Date- 26/04/2024

AGROMET ADVISORY BULLETIN FOR NISCHINTAKOILI

District Past week average weather condition and Block past week average Rainfall condition

The block received average 0mm and district received average trace mm rainfall during the last week. The mean daily maximum and minimum temperature was 41.1°C (+3.5from normal) and 26.7°C (2.5from normal), respectively. The mean relative humidity was 51-61%.

Forecasted period: Today(8.30IST) to 01st May(8.30IST)2024

Weatheradvisory: *Dry weather is forecasted for upcoming 5 days in the block.* The day temperature will be 39-42°C and night temperature will be 27-29°C for upcoming 5 days. Maximum and minimum relative humidity will be 69-75% and 11-21% respectively. There will be clear sky for next 5days.

Block	Nischintakoili (VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
	26/04/2024	27/04/2024	28/04/2024	29/04/2024	30/04/2024
Rainfall(mm)	0	0	0	0	0
T-Max(°C)	39	41	41	41	42
T-Min(°C)	27	27	29	28	27
Cloud Cover(octa)	1	2	2	1	1
RH Max (%)	74	72	69	72	75
RH Min (%)	21	12	15	15	11
Wind Speed (Kmph)	20	18	14	20	21
Wind Direction (deg)	203	216	208	205	208

Special agro-met advisory for anticipated heat wave condition in Cuttack district.

Isolated heat wave to severe heat wave (Day time temperature above normal 5-6°C or more) condition likely to prevail over Cuttack district with temperature range of 40-43°C in between next 5 days, which will have adverse impact on crops/vegetables/animals, so farmers should follow the contingency measures for heat wave condition which are mentioned below.

Crops and vegetables:

- Where Maize is a standing crop now, at their critical growth stage of soil moisture/irrigation i.e tasseling to silking stage to grain formation which stage demands high water/soil moisture content due to high LAI. Water deficit at that stage will negatively affect the fertilization, grain number per cob, and as a result, the final yield of maize is reduced, so Farmers are advised to maintain proper moisture in the maize crop by giving light irrigation as per requirement.
- Two sprays of plant growth substances such as Salicylic acid (250 µmol/ lit) or Sodium nitroprusside (SNP @ 25 µmol/ lit) is also helpful in improving fruit set and size in tomato.
- If the orchard is more than 6 years age, 150-240 litres water/day/tree is required. Drip irrigation with organic mulch should be preferred.
- Mulching helps in maintaining the soil moisture for long period. Mulch the soil with paddy straw or locally available organic or inorganic material. Black polythene material would be essential to prevent excess evaporation.
- Foliar spray of 2% DAP + 1% KCl (MOP) during critical stages of flowering and grain formation.
- Foliar spray of 2-4% Kaolin is recommended depending on the severity to reduce the transpiration. Two foliar sprays of Potassium nitrate 1 – 1.5% may also be done at an interval of 15 days during April-May. Foliar spray of 500 ppm Cycocel (1 ml of commercial product per litre of water).
- Spray of 40 ppm NAA to check flower and fruit drop (4 ml of Planofix in 4.5 litres of water).
- Foliar spray of 100 ppm salicylic acid for increasing stem reserve utilization under high moisture stress and also spray of 0.3 % Boric acid + 0.5 % ZnSO₄ + 0.5 % FeSO₄ + 1.0 % urea during critical stages of the stress.
- Use shading net of 50% (1.5-2.0 m above the field surface) to reduce the intensity of solar radiation in vegetable crops.
- In Mango due to high temperature stress in many areas leaf fall is observed. To overcome the leaf fall and to enhance the turgidity spray 0.2 % cent Potassium Sulphate.
- In Banana, as a mitigation measure, 0.1mM salicylic acid (140 mg/litre of water with surfactant) foliar spray can be given to the plant @ 250 ml/plant. Foliar application of Kaolinite (5%) during vegetative state reduces the transpiration water loss.
- In Banana Application of 5kg Rice husk ash or composted coir pith in the pit at the time of planting is recommended to increase the water holding capacity in the rhizosphere.

Animal husbandry:

As THI likely to be above 72, to escape dairy animals from thermal stress, make necessary arrangement for clean and sufficient drinking water with sufficient fodder crops for the animals. Keep farm animals indoor during the day time period.

Dr Ranjan kumar Mohanta
 (Nodal officer)



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KRISHI VIGYAN KENDRA CUTTACK
 (A Unit of ICAR-National Rice Research Institute)
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Bulletin No.-489
Date- 26/04/2024

AGROMET ADVISORY BULLETIN FOR SALEPUR

District Past week average weather condition and Block past week average Rainfall condition

The block received average 0mm and district received average trace mm rainfall during the last week. The mean daily maximum and minimum temperature was 41.1°C (+3.5 from normal) and 26.7°C (2.5 from normal), respectively. The mean relative humidity was 51-61%.

Forecasted period: Today(8.30IST) to 01st May(8.30IST)2024

Weather advisory: Dry weather is forecasted for upcoming 5 days in the block. The day temperature will be 39-42°C and night temperature will be 27-29°C for upcoming 5 days. Maximum and minimum relative humidity will be 69-75% and 11-21% respectively. There will be clear sky for next 5 days.

Block	Salepur (VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
	26/04/2024	27/04/2024	28/04/2024	29/04/2024	30/04/2024
Rainfall(mm)	0	0	0	0	0
T-Max(°C)	39	41	41	41	42
T-Min(°C)	27	27	29	28	27
Cloud Cover(octa)	1	3	2	1	1
RH Max (%)	74	73	69	71	75
RH Min (%)	21	11	14	14	11
Wind Speed (Kmph)	20	17	13	19	20
Wind Direction (deg)	203	216	208	205	208

Special agro-met advisory for anticipated heat wave condition in Cuttack district.

Isolated heat wave to severe heat wave (Day time temperature above normal 5-6°C or more) condition likely to prevail over Cuttack district with temperature range of 40-43°C in between next 5 days, which will have adverse impact on crops/vegetables/animals, so farmers should follow the contingency measures for heat wave condition which are mentioned below.

Crops and vegetables:

- Where Maize is a standing crop now, at their critical growth stage of soil moisture/irrigation i.e tasseling to silking stage to grain formation which stage demands high water/soil moisture content due to high LAI. Water deficit at that stage will negatively affect the fertilization, grain number per cob, and as a result, the final yield of maize is reduced, so Farmers are advised to maintain proper moisture in the maize crop by giving light irrigation as per requirement.
- Two sprays of plant growth substances such as Salicylic acid (250 µmol/ lit) or Sodium nitroprusside (SNP @ 25 µmol/ lit) is also helpful in improving fruit set and size in tomato.
- If the orchard is more than 6 years age, 150-240 litres water/day/tree is required. Drip irrigation with organic mulch should be preferred.
- Mulching helps in maintaining the soil moisture for long period. Mulch the soil with paddy straw or locally available organic or inorganic material. Black polythene material would be essential to prevent excess evaporation.
- Foliar spray of 2% DAP + 1% KCI (MOP) during critical stages of flowering and grain formation.
- Foliar spray of 2-4% Kaolin is recommended depending on the severity to reduce the transpiration. Two foliar sprays of Potassium nitrate 1 – 1.5% may also be done at an interval of 15 days during April-May. Foliar spray of 500 ppm Cycocel (1 ml of commercial product per litre of water).
- Spray of 40 ppm NAA to check flower and fruit drop (4 ml of Planofix in 4.5 litres of water).
- Foliar spray of 100 ppm salicylic acid for increasing stem reserve utilization under high moisture stress and also spray of 0.3 % Boric acid + 0.5 % ZnSO₄ + 0.5 % FeSO₄ + 1.0 % urea during critical stages of the stress.
- Use shading net of 50% (1.5-2.0 m above the field surface) to reduce the intensity of solar radiation in vegetable crops.
- In Mango due to high temperature stress in many areas leaf fall is observed. To overcome the leaf fall and to enhance the turgidity spray 0.2 % cent Potassium Sulphate.
- In Banana, as a mitigation measure, 0.1mM salicylic acid (140 mg/litre of water with surfactant) foliar spray can be given to the plant @ 250 ml/plant. Foliar application of Kaolinite (5%) during vegetative state reduces the transpiration water loss.
- In Banana Application of 5kg Rice husk ash or composted coir pith in the pit at the time of planting is recommended to increase the water holding capacity in the rhizosphere.

Animal husbandry:

As THI likely to be above 72, to escape dairy animals from thermal stress, make necessary arrangement for clean and sufficient drinking water with sufficient fodder crops for the animals. Keep farm animals indoor during the day time period.

Dr Ranjan kumar Mohanta
 (Nodal officer)



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Bulletin No.-489
Date- 26/04/2024

AGROMET ADVISORY BULLETIN FOR TANGI-CHOUDWAR

District Past week average weather condition and Block past week average Rainfall condition

The block received average 1.6 mm and district received average trace mm rainfall during the last week. The mean daily maximum and minimum temperature was 41.1°C (+3.5 from normal) and 26.7°C (2.5 from normal), respectively. The mean relative humidity was 51-61%.

Forecasted period: Today(8.30IST) to 01st May(8.30IST)2024

Weather advisory: *Very light to rainfall is forecasted for today and Dry weather is forecasted for next 4 days in the block.* The day temperature will be 40-42°C and night temperature will be 29-30°C for upcoming 5 days. Maximum and minimum relative humidity will be 77-83% and 32-41% respectively. **There will be clear sky for next 5 days.**

Block	Tangi-Choudwar (VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
	26/04/2024	27/04/2024	28/04/2024	29/04/2024	30/04/2024
Rainfall(mm)	2	0	0	0	0
T-Max(°C)	40	42	41	41	42
T-Min(°C)	29	30	29	30	30
Cloud Cover(octa)	0	1	1	0	0
RH Max (%)	79	77	83	79	80
RH Min (%)	41	32	35	34	34
Wind Speed (Kmph)	26	26	23	28	30
Wind Direction (deg)	204	207	212	204	203

Special agro-met advisory for anticipated heat wave condition in Cuttack district.

Isolated heat wave to severe heat wave (Day time temperature above normal 5-6°C or more) condition likely to prevail over Cuttack district with temperature range of 40-43°C in between next 5 days, which will have adverse impact on crops/vegetables/animals, so farmers should follow the contingency measures for heat wave condition which are mentioned below.

Crops and vegetables:

- Where Maize is a standing crop now, at their critical growth stage of soil moisture/irrigation i.e tasseling to silking stage to grain formation which stage demands high water/soil moisture content due to high LAI. Water deficit at that stage will negatively affect the fertilization, grain number per cob, and as a result, the final yield of maize is reduced, so Farmers are advised to maintain proper moisture in the maize crop by giving light irrigation as per requirement.
- Two sprays of plant growth substances such as Salicylic acid (250 µmol/ lit) or Sodium nitroprusside (SNP @ 25 µmol/ lit) is also helpful in improving fruit set and size in tomato.
- If the orchard is more than 6 years age, 150-240 litres water/day/tree is required. Drip irrigation with organic mulch should be preferred.
- Mulching helps in maintaining the soil moisture for long period. Mulch the soil with paddy straw or locally available organic or inorganic material. Black polythene material would be essential to prevent excess evaporation.
- Foliar spray of 2% DAP + 1% KCI (MOP) during critical stages of flowering and grain formation.
- Foliar spray of 2-4% Kaolin is recommended depending on the severity to reduce the transpiration. Two foliar sprays of Potassium nitrate 1 – 1.5% may also be done at an interval of 15 days during April-May. Foliar spray of 500 ppm Cycocel (1 ml of commercial product per litre of water).
- Spray of 40 ppm NAA to check flower and fruit drop (4 ml of Planofix in 4.5 litres of water).
- Foliar spray of 100 ppm salicylic acid for increasing stem reserve utilization under high moisture stress and also spray of 0.3 % Boric acid + 0.5 % ZnSO₄ + 0.5 % FeSO₄ + 1.0 % urea during critical stages of the stress.
- Use shading net of 50% (1.5-2.0 m above the field surface) to reduce the intensity of solar radiation in vegetable crops.
- In Mango due to high temperature stress in many areas leaf fall is observed. To overcome the leaf fall and to enhance the turgidity spray 0.2 % cent Potassium Sulphate.
- In Banana, as a mitigation measure, 0.1mM salicylic acid (140 mg/litre of water with surfactant) foliar spray can be given to the plant @ 250 ml/plant. Foliar application of Kaolinite (5%) during vegetative state reduces the transpiration water loss.
- In Banana Application of 5kg Rice husk ash or composted coir pith in the pit at the time of planting is recommended to increase the water holding capacity in the rhizosphere.

Animal husbandry:

As THI likely to be above 72, to escape dairy animals from thermal stress, make necessary arrangement for clean and sufficient drinking water with sufficient fodder crops for the animals. Keep farm animals indoor during the day time period.

Dr Ranjan kumar Mohanta
 (Nodal officer)



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Date- 26/04/2024

AGROMET ADVISORY BULLETIN FOR TIGIRIA

District Past week average weather condition and Block past week average Rainfall condition

The block received average 0mm and district received average trace mm rainfall during the last week. The mean daily maximum and minimum temperature was 41.1°C (+3.5from normal) and 26.7°C (2.5from normal), respectively. The mean relative humidity was 51-61%.

Forecasted period: Today(8.30IST) to 01st May(8.30IST)2024

Weatheradvisory: *Very light to rainfall is forecasted for today and Dry weather is forecasted for next 4 days in the block.* The day temperature will be 41-43°C and night temperature will be 25-29°C for upcoming 5 days. Maximum and minimum relative humidity will be 39-69% and 10-13% respectively. **There will be clear sky for next 5days.**

Block	Tigiria (VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
	26/04/2024	27/04/2024	28/04/2024	29/04/2024	30/04/2024
Rainfall(mm)	3	0	0	0	0
T-Max(°C)	41	43	42	42	43
T-Min(°C)	25	27	29	27	26
Cloud Cover(octa)	2	2	2	2	2
RH Max (%)	69	63	39	63	68
RH Min (%)	13	10	11	13	10
Wind Speed (Kmph)	12	12	9	13	12
Wind Direction (deg)	191	199	240	205	203

Special agro-met advisory for anticipated heat wave condition in Cuttack district.

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- Two sprays of plant growth substances such as Salicylic acid (250 µmol/ lit) or Sodium nitroprusside (SNP @ 25 µmol/ lit) is also helpful in improving fruit set and size in tomato.
- If the orchard is more than 6 years age, 150-240 litres water/day/tree is required. Drip irrigation with organic mulch should be preferred.
- Mulching helps in maintaining the soil moisture for long period. Mulch the soil with paddy straw or locally available organic or inorganic material. Black polythene material would be essential to prevent excess evaporation.
- Foliar spray of 2% DAP + 1% KCl (MOP) during critical stages of flowering and grain formation.
- Foliar spray of 2-4% Kaolin is recommended depending on the severity to reduce the transpiration. Two foliar sprays of Potassium nitrate 1 – 1.5% may also be done at an interval of 15 days during April-May. Foliar spray of 500 ppm Cycocel (1 ml of commercial product per litre of water).
- Spray of 40 ppm NAA to check flower and fruit drop (4 ml of Planofix in 4.5 litres of water).
- Foliar spray of 100 ppm salicylic acid for increasing stem reserve utilization under high moisture stress and also spray of 0.3 % Boric acid + 0.5 % ZnSO₄ + 0.5 % FeSO₄ + 1.0 % urea during critical stages of the stress.
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MEGHDOOT APP	DAMINI APP	FACEBOOK (Damu Cuttack)	BLOCK SPECIFIC WHAT'S APP GROUPS	@DAMUCUTTACK

- Kindly install and use **“Meghdoot mobile App”** for Cuttack district weather forecast, warnings and weather based agromet advisory services.
<https://play.google.com/store/apps/details?id=com.aas.meghdoot>
- Kindly install and use **“Damini mobile App”** for location specific for lightening forecast and warnings.
<https://play.google.com/store/apps/details?id=com.lightening.live.damini>
- Follow the **block specific whats app groups** and join in your block wise groups for getting weather based agromet advisory services twice in a week (Tuesday and Friday) and other weather warning based farm management advisories.
- Follow the **Official Website links** to get the weather based agromet advisory service bulletins (**English & Odia**) twice in a week (Tuesday and Friday).

1	ICAR-NRRI, Cuttack, Odisha	https://icar-nrri.in/agromate/	
2	Agrimet division, IMD, Pune	https://imdagrmet.gov.in/imdproject/AGIndex.php	

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