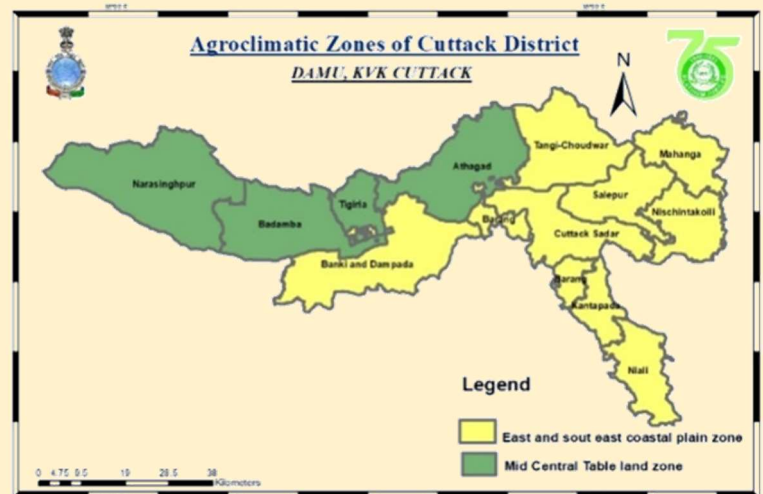




Cuttack District Impact based forecast (Agro-met Advisory) Service Bulletin

*Friday 09th September, 2022
(For the period 09th to 13th
September, 2022)*

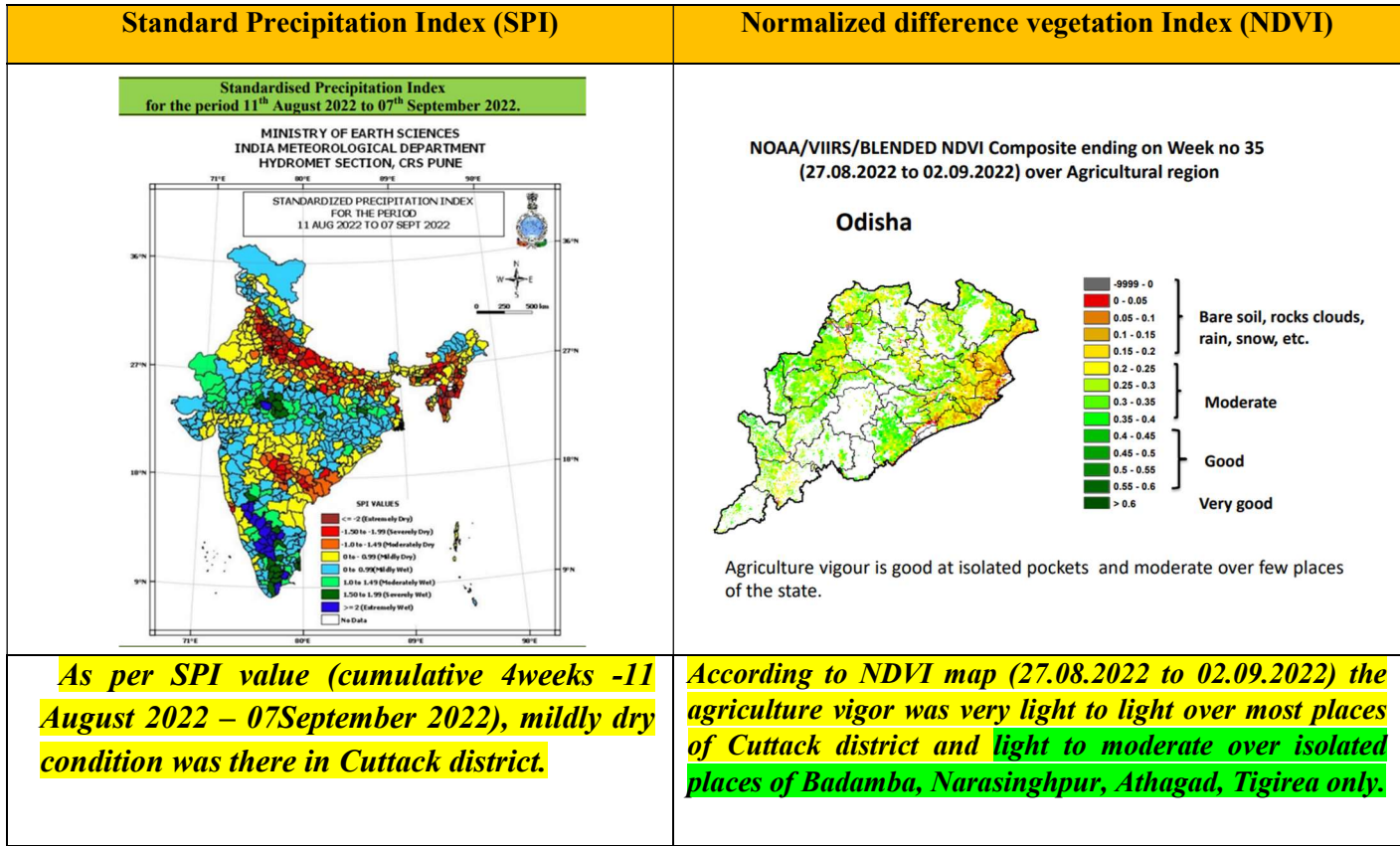


*Issued by
District Agromet Unit,
KrishiVigyan Kendra Cuttack*





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



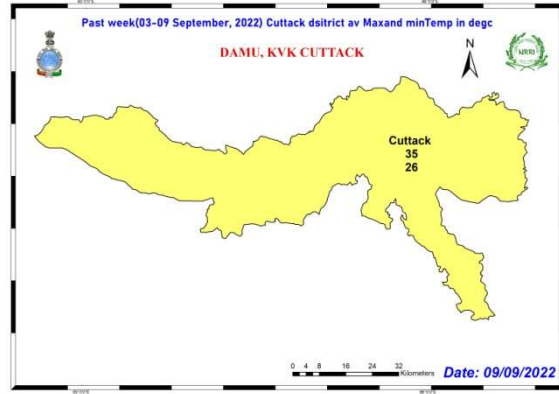
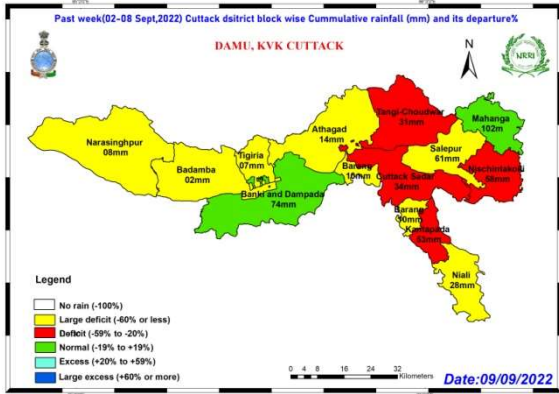


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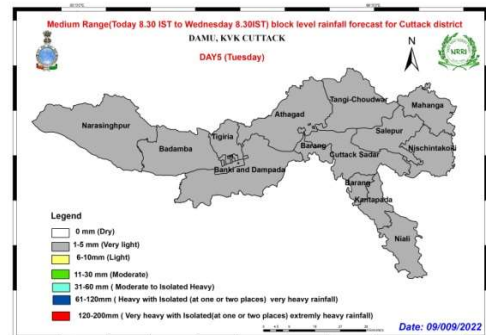
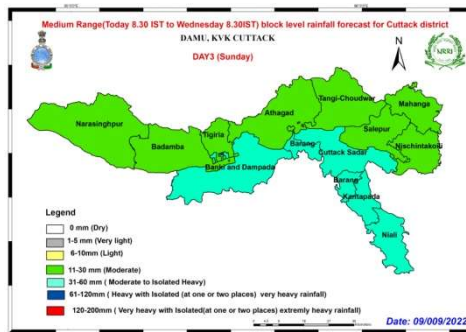
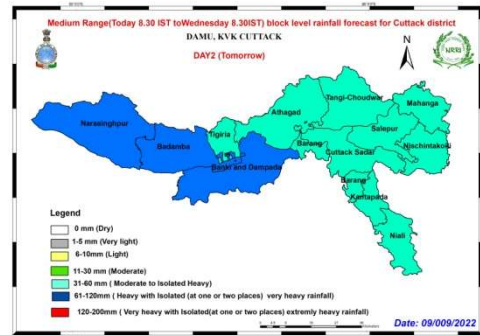
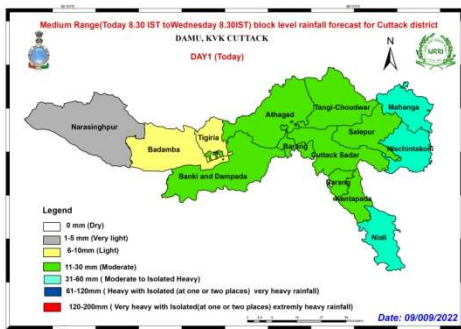


Bulletin No.-329
Date- 09/09/2022

Past week (02-08 September, 2022) cumulative rainfall departure% from normal and (03-09 September) average maximum and minimum temperature for Cuttack district



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



Dr Sujata Sethy
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Details Forecast as follows:

Rainfall Forecast for Cuttack District:

Day-1(Today 8.30 AM to Tomorrow 8.30 AM): Light to moderate rainfall is forecasted for most of the blocks with isolated heavy rainfall is forecasted for today.

Day-2(Tomorrow 8.30 AM to Sunday 8.30 AM): Moderate to isolated heavy rainfall very likely occur at most blocks and **heavy with isolated very heavy rainfall** very likely to occur at some western blocks of Cuttack district on Tomorrow.

Day-3(Sunday 8.30 AM to Monday 8.30 AM): Moderate rainfall very likely occur at most blocks and moderate with **isolated heavy rainfall** very likely to occur at some blocks of Cuttack district on Sunday.

Day-4(Monday 8.30 AM to Tuesday 8.30 AM): Light to Moderate rainfall very likely occur at some western blocks and light rainfall very likely to occur at most blocks of Cuttack district on Monday.

Day-5(Tuesday 8.30 AM to Tuesday 8.30 AM): Very light to light rainfall very likely occur at most blocks of Cuttack district on Tuesday.

Met Sub division	Extended range outlook for subsequent 1 week (6 th to 12 th days) (14-20 September 2022)		
Odisha	<i>Parameter</i>	<i>Departure (%)</i>	<i>Category</i>
	Rainfall	41.49	Above Normal
	<i>Parameter</i>	<i>Anomaly</i>	<i>Category</i>
	Maximum temperature	NA	NA
	Minimum temperature	NA	NA

General Agromet Advisory:- There will be **above normal rainfall is forecasted in subsequent week after 5 days in Odisha condition**, so farmers are advised to drainout excess water in the subsequent week .

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Impact based Agro-met advisories due to heavy rain

District	Crop/vegetables /fruits	Stage of Crop/Vegetable s/ Fruits at Cuttack district	Likely Impact on crop/vegetables/fruits due to rain	Before Rain Agro-met Advisory
Cuttack	Kharif Rice	Reproductive stage	<ul style="list-style-type: none"> Water logging situation may lead to different disease and pest infestation Disease infestation may occur like Sheath blight, bacterial leaf blight, stem rot, blast. Pest infestation may occur like Gall mildge, BPH, leaf folder, swarming catterpillar 	<ul style="list-style-type: none"> Drain out excess water in standing rice crop by making alleys (Pahi). Maintain 5-10 cm water level during reproductive Stage. Take proper plant protection measure after receding of heavy rainfall. Forecasted cloudy and humid weather favors incidence of blast disease in rice to control disease spray Tebuconazole 50%+ Trifloxystrobin 25% @ 0.4g/litre or, Carbendazim 50 WP @ 2g/litre of water. Due to water logging situation in Cuttack district as well as in the blocks sheath blight will be found in early transplanted rice then apply carbendazim 2g/ltr or propiconazole 1ml/ltr of water. In case of Foot rot, spray the basal portion of the crop with 0.4% mancozeb or 0.2% carbendazim after drying the weather. To control bacterial leaf blight spray Plantomycin @ 1 g + Copper oxychloride @ 2 g/litre of water when sky becomes clear. If Brown Plant Hopper (BPH) infestation will

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				<p>observe in rice, go for alternate wetting and drying. Make a gape after 8 to 10 rows for entry of sunlight and air. Whenever the number of hoppers/hill reaches 5-10, spray Pymetrozine 50% WG @ 120 g or Buprofezin 25% SC @ 330 ml or Imidacloprid 17.8% SL @ 50 ml per acre in the base of the plant. Before spraying remove water from the field.</p> <ul style="list-style-type: none"> • In Gall midge affected due to continuous cloudy and rainy weather in late transplanted rice apply Thiamethoxam 25% WG @ 40g/acre or Fipronil 5% SC @ 400ml/acre or Chlorpyrifos 20EC @500ml/acre to manage the pest. • If swarming caterpillar observed in field, spray Chloropyrifos 20% EC @ 2.5 ml/litre of water sky becomes clear. • There is chance for leaf folder infestation due to the prevalence of cloudy weather. If observe in field then spray Chlorantraniliprole 18.5% SC @ 3 ml/10 litre of water
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<p>Sugarcane</p>	<p>Grand growth</p>	<ul style="list-style-type: none"> • water logging due to heavy rainfall  <ul style="list-style-type: none"> • Red rot , wilt disease due to high soil moisture  	<ul style="list-style-type: none"> • Maintain proper drainage in the field. • Avoid irrigation and any kind of chemical spray. • Wrapping and propping should be done. • For Red rot and wilt disease, spray the crop with Mancozeb 0.3% or carbendazim 0.1% or Azoxystrobin 18.2%SC/ Difenconazole 11.45SC @ 1ml per liter water in dry days.
<p>Maize</p>	<p>Tasseling to silking stage</p>	<ul style="list-style-type: none"> • Water logging due to heavy rainfall  <ul style="list-style-type: none"> • Less dry matter/yield • Reduction in plant canopy height • Stem rot, Banded leaf blight, fall army worm infestation due to rain 	<ul style="list-style-type: none"> • Drain out excess water from the field. • Do not keep the stagnant water. • Reduce nitrogen application and apply recommended dose of P and K as basal to increase water logging resistance. • To control fall armyworm in maize erect 4 pheromone traps /acre and spray 5 ml of 1500ppmneem oil /1 lit water. If more severe incidence observed spray Emamectin benzoate @ 0.5 g / lit of water. • Forecasted rainy and humid weather favors infestation of bandedleaf blight, to control this spray Validamycin 3.0% SL or Hexaconazole5.0%EC 400ml/200ltr water for one acre. • Standing water promotes

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				bacterial stalk rot .To prevent this disease applyCopper oxychloride 50% WP @ 3 g/litre of water.
Pulses : Green gram, Black gram	Flowering to pod development/ Maturity	<ul style="list-style-type: none"> Water logging due to heavy rainfall Pod loss Wilting, blight, Rust diseases and pod borer infection 	<ul style="list-style-type: none"> Harvest the crop by today and keep the harvested produce at safer place. Maintain proper drainage in the field. Rust infestation likely to occur in pulses, if observe spray Mancozeb 35.0%SC 3gram/ltr of water. If wilting will be observed after rainfall, then spray Carbendazim 2g/ltr of water to control. A protective spray with Mancozeb @ 0.3% may be given to pulse crops (green gram and black gram) against Cercosporrellablight disease. 	
Kharif Groundnut	Flowering to pegging	<ul style="list-style-type: none"> Water logging may affect pod quality Disease infestation like alternaria leaf spot and foot/collar rot and pest infestation like leaf minor due to cloudy and humid weather 	<ul style="list-style-type: none"> Make proper arrangement of drainage of excess water. To control foot/collar rot and alternaria leaf spot farmers may Spray Metalyxyl+Mancozeb/ @2g/litre or Copper oxychloride@2.5g/litre of water. To control leaf minor they may spray Deltamethrin 2.8% EC or lambda cyhalothrin 5.0%EC 1ml/ltr water. 	







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	<p>Cucurbits (Cucumber, Pumpkin, Watermelon, Pointed gourd, Ridgegourd)</p>	<p>Flowering to fruiting/ Harvesting</p>	<ul style="list-style-type: none"> • Flower drop • Fruit rot • Water logging situation • Fungal disease infestation 	<ul style="list-style-type: none"> • Pick fruits as soon as earlier and send to market. • Provide bamboo or wooden stake to prevent lodging of plants. • Maintain proper drainage in the field. • Avoid irrigation and any kind of chemical and fertilizer spray from Today. • Foliar spray of 2% DAP + 1% KCl (MOP). • Spray of 40 ppm NAA for controlling excessive premature fall of flowering/buds/young developing fruits and pods. • Spray chlorothalonil or 0.2%Metalaxyl 8% + Mancozeb 64% @ 0.2% against downy mildew diseases of cucurbit crops. • To control phytopthera blight in cucurbits spray pyroclostrobin 5%+ metiram 55% WG 3-4 gram per liter water.

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<p>Un seasonal Vegetables (Cauliflower, Cabbage)</p>	<p>Sowing to Seedling stage</p>	<ul style="list-style-type: none"> • Seed displacement • poor germination due to water logging • Seedling damage • Damping off disease infestation 	<ul style="list-style-type: none"> • Drain out excess water from the field. • Seedling rot and damping off disease are likely to appear in vegetable nursery. Spray Metalyxyl+Mancozeb/Carboxin+Thiram@2g/litre or Copper oxychloride@2.5g/litre of water to control it
<p>Vegetables(Brinjal, Tomato, Cilli)</p>	<p>Vegetative to harvesting</p>	<ul style="list-style-type: none"> • Lodging • Fruit damage/Flower drop • Bacterial wilt • Soil borne fungal diseases 	<ul style="list-style-type: none"> • Pick fruits as soon as earlier and send to market. • Open drain and channels in vegetable fields to facilitate drainage of excess water. • Foliar spray of 2% DAP + 1% KCl (MOP). • Foliar application with antibiotic (Streptocycline (300-500 ppm) and soil drenching with Streptocycline(1g/10 lit)copper oxychloride 0.2% at 10 days interval to control wilt disease. • Seedling rot is likely to appear in vegetable nursery after rain. Spray Metalyxyl+Mancozeb/Carboxin+Thiram@2g/litre or Copper oxychloride@2.5g/litre of water to control it. • Due to rain, Chances of fruit rot infestation in chilli and brinjal, if observe spray Carbendazim 50% WP @ 2 g/litre of water or Copper oxychloride 50% WP @ 3 g/litre of water. If necessary

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				spray second and third round at 15 days interval.
Vegetables(Okra)	Fruting to harvesting	<ul style="list-style-type: none"> Water logging situation Wet rot Fusarium and phytopthera infection due to wet soil condition  <ul style="list-style-type: none"> Cercospora leaf spot. 	<ul style="list-style-type: none"> Pick fruits as soon as earlier and send to market. Open drain and channels in vegetable fields to facilitate drainage of excess water. Spray Metalyxyl+Mancozeb/Carboxin+Thiram@2g/litre to control rot or soil borne fungal disease. Foliar spraying of Trifloxystrobin25% + tebuconazole 50% WG @ 1g/lit or Difenconazole @ 1ml/lit at 15 days interval to control Cercospora leaf spot. 	
Fruits (Banana, Papaya, Lemon)	Vegetative to Fruting	<ul style="list-style-type: none"> Fruit damage Bacterial rot and sigatoka due to rain and humid weather in Banana n crown rot in Papaya Panama wilt and sigatoka due to rain and humid weather in Banana and crown rot in  	<ul style="list-style-type: none"> Provide support to young fruit plants like Papaya and Banana. Open drain and channels in fruit fields to facilitate drainage of excess water. Pick matured fruits as soon as earlier and send to market. Store the harvested produce in well ventilated place temporarily before it can be marketed. In Banana Drain the excess water as soon as possible. Spray 1% KNO3 or Urea 2% solution 2-3 times during vegetative to flowering stage. Topdressing of booster dose of 80 g MOP + 100 g Urea per plant in two to three splits at monthly intervals. 	





			<ul style="list-style-type: none"> • For leaf spot/sigatoka as a precautionary measure spray carbendizim + mancozeb @ 2.0 g / litre of water followed by (15 days after) chlorothalanil@ 2.0 g/ litre of water. • Drenching soil with Metiram 75% WG @1.5g/4 lit or carbendazim 12%+ mancozeb 63% @ 2g/lit to prevent Panama wilt. • Spray application of Copper Oxychloride @3 g/litre of water or Carbendazim @1 g/lit or Thiophanate Methyl @1 g/lit at 15 days interval to control papaya Crown rot.
Livestocks		parasitic problem	<ul style="list-style-type: none"> • Keep the livestock indoors during rainfall .Keep fodder at safe place to avoid spoilage from rainfall. • Keep animal shed and shelter house free from water logging by keeping it dry and free from weed. As parasitic problem is a major headache in current situation, give animals medicine after faecal matter at nearby veterinary hospital and in consultation with nearby veterinarian.







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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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