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**Integrated Agromet Advisory Services
(Project Sponsored by India Meteorological Department)
District: Raipur**

**Weather parameters recorded 30 July to 05 August, 2022 at
Agromet-Observatory, IGKV Raipur**

Date	Maximum Temp. (°C)		Minimum Temp. (°C)		Rainfall (mm)		Relative Humidity (%)		Wind Speed Kmph	Evaporation (mm)	Sun Shine (hrs)	Soil Temp. (°C) 5 cm depth(°C)	
	2022	Normal	2022	Normal	2022	Normal	Max	Min				07:00 hr	14:00 hr
30-July	33.8	30.5	25.0	24.1	0.0	9.5	83	59	1.9	4.0	5.0	28.0	35.4
31-July	33.6	30.3	25.5	24.3	32.4	9.3	89	60	0.6	3.6	5.6	28.0	36.2
01-Aug.	34.2	30.2	26.0	24.1	0.0	13.0	94	66	0.9	4.0	6.6	29.0	36.3
02-Aug.	33.5	30.4	26.0	24.0	0.6	11.8	87	56	0.4	2.6	1.9	28.0	37.4
03-Aug.	33.6	30.0	27.0	24.1	0.0	8.5	89	58	0.3	2.5	0.6	28.6	39.0
04-Aug.	34.0	30.6	25.0	24.0	7.6	15.3	95	77	0.8	3.8	5.7	28.0	33.2
05-Aug.	31.4	30.0	25.6	23.9	0.0	7.0	84		0.5	3.0	0.6	28.0	
	33.4	30.3	25.7	24.1			89	63	0.8	3.4	3.7	28.2	36.3
					40.6	74.4							

As per the observations recorded at Agromet Observatory, IGKV, Raipur total quantity of rainfall received 40.6 mm in last week and Maximum temperature varied between 31.4°C to 34.2°C as against the normal of 30.3°C. Similarly minimum temperature varied between 25.0°C to 27.0°C as against the normal of 24.1°C. Fluctuations in other weather parameters were also reported during the week. Bright sunshine hour during this period varied between 0.6 to 6.6 hours/day. Average wind speed and evaporation for the week remained 0.8 kmph and 3.4 mm/day, respectively.

Medium Range Weather Forecast from, IMD, Raipur

District	DATE	Rainfall	Max temp	Min Temp	Cloud	Max RH	Min RH	Wind	
								Speed (Kmph)	Direction
RAIPUR	06-08-2022	2	33	25	4	85	65	4	SE
RAIPUR	07-08-2022	15	33	25	8	90	65	3	SW
RAIPUR	08-08-2022	15	32	25	8	90	70	4	SW
RAIPUR	09-08-2022	15	32	25	8	95	70	4	NW
RAIPUR	10-08-2022	15	31	25	8	95	70	5	SW

Weather Based Agro-advisories

S. No.	Crop name	Crop stage	Agricultural activities	Weather Based Advisory
01	Paddy	20-25 days stage	Biasi should be done in rice crops after completion of 20-25 days age of rice seeding.	Farmers are advised for storage of rain water and excess water should be drained out.
		18-20 days stage	Weed control should be done in the rice crop which has been sown by dry sowing (khurra boni) method and achieved 18-20 days age. Weed control can be done by Bispyribac sodium (10%) @ 250 ml /ha. or Phenoxypop-p- ethyl 9.3% @ 625 ml per ha	The farmers are advised that they should go for spray of herbicides only in clear weather and when there is no forecasting of rains.
		Transplanting method	At the time of transplanting, 2-3 seedlings should be transplanted per hill. Seedlings should be straight and planted at a depth of 2-3 cms. The spacings should be maintained 15 cms x10 cms (early vars) and should be 20 cms x 10 cms (for medium to late duration vars) If green manuring crop has been taken, then mixing of that crop should be done 4-6 days before transplanting.	Farmers are advised that they should not go for transplanting operation in case of continuous rains and proper water drainage measures should be adopted. .
		SRI method	The row to row and plant to plant distance is maintained 25 cms x 25 cms. Distance can be increased or decreased as per soil and plant types.	Farmers are advised that they should not go for transplanting operation in case of continuous rains and proper water drainage measures should be adopted. .
		Lehi method	Field should be prepared like transplanting method and germinated seeds should be sown through drum seeder in lines or broadcast method should be followed	In case of continuous rainfall situation and to avoid sowing delays in direct seeding and nursery sowing, lehi method should be adopted. There should not be submerge condition in the fields otherwise germinated seeds will get rotten/ destroyed
02	Soybean	20-25 days stage	Control weeds by weeding when the soybean crop is at the stage of 20-25 days.	Due to the possibility of light to moderate rainfall at some places in the coming days in CG Plains, farmers are advised that proper water drainage channels should be prepared .
		Insect	For management of defoliators and white fly in soybean spray per-mixed insecticides like Betacyfluthrin+ Imidacloprid@ 350 ml/ha or Thimethoxam+Lembdacyhelothrin @ 125 ml/ha. This will also help in control of stem fly.	Due to the possibility of light to moderate rainfall at some places in the coming days in CG Plains, the farmers are advised that they should go for spray of Insecticide in clear weather.
03	Pulses Crops	20-25 days stage	When the crop of black gram, green gram and pigeon pea is at the stage of 20-25 days, control weeds by weeding.	Due to the possibility of light to moderate rainfall at some places in the coming days in CG Plains, farmers are advised that proper water drainage channels should be prepared .
04	Groundnut	15-20 days stage	Control weeds by weeding when the groundnut crop is at the stage of 15-20 days.	Due to the possibility of light to moderate rainfall at some places in the coming days in CG Plains, farmers are advised that proper water drainage channels should be prepared .
05	Sunflower	15-20 days stage	After 15-20 days of sowing in sunflower, the unnecessary plants should be removed and the distance of the plants in the line should be made 20 cm.	Due to the possibility of light to moderate rainfall at some places in the coming days in CG Plains, farmers are advised that proper water drainage channels should be prepared .
06	Maize	20-25 days stage	When the maize crop sown on time is at the stage of 20-25 days, control weeds by weeding.	Due to the possibility of light to moderate rainfall at some places in the coming days in CG

				Plains, farmers are advised that proper water drainage channels should be prepared .
07	Vegetables bitter guard, bottle guard and Cowpea etc	20-25 days after sowing	Intercultural operations should be adopted for weed control and arrange staking for creeper vegetables like bitter gourd, gourd and other pumpkin vegetables	Due to the possibility of light to moderate rainfall at some places in the coming days in CG Plains, farmers are advised that proper water drainage channels should be prepared

Farmers are advised that DAP should be used to meet the recommended nutrients for Kharif crops. Other fertilizers can be used instead. On the basis of crop wise fertilizer recommendation, the following options can be done.

1. Recommended Nutrients for Paddy and Maize Crops:

NPK (Nitrogen 40, Phosphorus 24, Potash 16) kg. The following fertilizers and quantity should be used for quantity supply per acre:

Urea-1 bag (50 Kg.) and NPKS (20:20:0:13)- 2 bags (100 Kg) and Potash- 27 Kg **OR** Urea- 65 Kg. and NPK (12:32:16)- 2 bags (100 Kg) and single super phosphate – 50 Kg 1 bag **OR** Urea- 2 bags 100 Kg and single super phosphate – 150 Kg 3 bags and Potash- 27 Kg along with wormi compost 1 quintal/acre.

2. Recommended Nutrients for Kharif Pulses Crops:

NPK 08:20:08 (Nitrogen 8, Phosphorus 20, Potash 8) Kg. The following fertilizers and quantities should be used to supply the quantity per acre:

Urea- 18 Kg. and Potash 14 Kg and single super phosphate – 125 Kg (2.5 bags) **OR** Urea- 5 Kg. and NPK (12:32:16)- 1 bag (50 Kg) and Potash -14 Kg and single super phosphate – 25 Kg along with wormi compost 1 quintal/acre.

3. Recommended Nutrients for Kharif Oilseed Crops:

Soybean and Groundnut:

NPK (8:20:8) Nitrogen 8, Phosphorus 20, Potash 8 kg. for supply per acre

Urea- 17 Kg. and Potash -13 Kg and single super phosphate – 125 Kg (2.5 bags) along with wormi compost 1 quintal/acre.

Ramtil:

NPK (12:12:8) kg For supply of Nitrogen, Phosphorus and Potash per acre

Urea- 26 Kg. and single super phosphate – 75 Kg and Potash -13 Kg along with wormi compost 1 quintal/acre.

Fruits:

1. Old flowering should be removed from guava and pomegranate so that winter flowering and cropping is possible.
2. The present weather is suitable for planting of fruit crops like papaya, mango, guava and banana etc. and also for agroforestry plants. Therefore, farmers are advised that they should complete planting operation in time
3. Water suckers should be identified and removed periodically in banana. The plants where fruiting/ flowering has come, support should be provided by bamboo sticks.
4. Pruning should be planted in last year planted mango plantations. Pruning in done in the newly formed branches and twigs for proper structure.

Animal husbandry:

1. Livestock should be protected from continuous rains. Cattle shed should be drenched with Phenyl on daily basis to maintain hygienic condition.
2. If animals is consuming less of fodder and there is indigestion, then Himlayan Batisa medicine should be given @ 40-60 gram to cows, buffaloes, ox. For small animals like sheep and goats, this medicine should be given @ 10-15 grams and medicine should be mixed with gud, flour or grain concentrate.
3. Wormicide medicine should be fed to the poultry birds at an interval of 3 months.
4. In the rainy season, stomach upset (Afra) in dairy animals is there due to excess forage consumption. That's why dry livestock and dairy animals should be fed dry straw.

**Nodal Officer
GKMS**