AGROMET ADVISORY SERVICE BULLETIN FOR RATNAGIRI DISTRICT

(Issued jointly by GKMS, Dr. B.S. Konkan Krishi Vidyapeeth, & India Meteorological Department)

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Significant past weather for the preceding week (Period –09/01/2021 to 15/01/2021)							Weather Parameters	Weather forecast until 08.30 hrs of 20/01/2021				
(Source: Agromet observatory, Dept of Agronomy, College of Agril, Dapoli)								(Source: Regional Meteorological Centre, Mumbai)				
09/01	**10/01**	**11/01**	**12/01**	**13/01**	**14/01**	**15/01**		**16/01**	**17/01**	**18/01**	**19/01**	**20/01**
10.8	0.4	0.0	0.0	0.0	0.0	0.0	Rainfall (mm)	0	0	0	0	0
29.5	31.5	33.0	34.2	35.0	34.3	34.4	Max.Temp. (°C)	36	36	35	33	33
21.4	21.5	19.5	17.9	16.4	16.8	14.9	Min.Temp. (°C)	21	22	21	22	21
6	6	0	6	4	6	4	Cloud cover (Octa)	1	3	2	0	0
95	96	96	96	86	96	96	Max. RH (%)	68	62	69	70	68
76	73	59	50	48	46	-	Min. RH (%)	33	34	37	41	38
1.6	2.2	2.9	2.9	2.1	3.2	2.7	Wind speed(Km/hr)	6	3	3	4	4
Calm	Calm	Calm	Calm	Calm	Calm	Calm	Wind direction	ENE	ENE	ENE	ENE	ENE

Rainfall (mm) in last week	Rainfall (mm) from 01/01/2021 to till dated	Total Rainfall (mm) in last year
11.2	**16.4**	**4145.4**

Weather summary/alert

Weather forecast	As per the forecast received from Regional Meteorological Centre Mumbai, there is possibility of slightly decrease in maximum and minimum temperature by 1 – 2 °C and sky remain clear from 16th to 20th January, 2021 over Ratnagiri district.

Agromet advisory based on weather forecast

Crop	Stage	Agro advisory
Mango	Flowering to fruiting	• There is possibility incidence of hoppers and powdery mildew disease on flower bud stage in mango. To protect the flower bud from pest and powdery mildew diseases, spray Lambda cyhalothrin 5%EC @ 6 ml + hexaconazole 5% @ 5 ml or wettable Sulphur 80% @ 20 gm per 10 liter in water during clear weather. • There is possibility incidence of hoppers, midge fly and powdery mildew disease on mango inflorescence. For management of pest and disease, spray of Imidacloprid 17.8% SL @ 6 ml per 10 liter of water before the flower opening to avoid the adverse effect on pollinators. Also add Hexaconazole 5% @ 5 ml or wettable Sulphur 80% @ 20 gm per 10 liter in water for control of powdery mildew disease during clear weather. Note: avoid spraying during flowering to fruit setting period for effective pollination. If it is not possible to postpone the spraying till fruit set due to heavy incidence of insect and pest, then avoid spraying during morning hours (9.00 am to 12.00 pm) which is active period of pollinators for pollination. • To protect the pea size fruits of mango from hoppers, thrips and powdery mildew diseases, as per blossom protection schedule for mango crop, take a fourth spray of Thiomethoxam 25%WG @ 1 gm per 10 liter of water (15 days after 3rd spray) Also add Hexaconazole 5% @ 5 ml or wettable Sulphur 80% @ 20 gm per 10 liter in water for control of powdery mildew. for control premature fruit drop add 2% urea @20 gms per liter of water in to the insecticide solution. • The recommended dose of insecticides is applicable for manually operating sprayer. • There is forecast for decrease in humidity during next five days, hence to

		minimize the pre-mature fruit drop of mango, apply 150 to 200 liter of water per tree after fruit setting at 15 days interval for 3 to 4 times also use straw mulch to reduce evaporation losses.
Cashewnut	Flowering to fruiting	• There is possibility of incidence of tea mosquito bugs and thrips on the inflorescence of cashewnut, to protect the cashew inflorescence, spray Profenophos 50% EC @10 ml per 10 liter of water during clear weather. • There is possibility of incidence of tea mosquito bugs and thrips on the fruits of cashewnut, to protect the cashew during fruit bearing stage, spray Lambda cyhalothrin 5% EC @6 ml or Acetamiprid 20%SP @ 5 gms per 10 liter of water during clear weather. (insecticide is not under label claim).
Coconut	Fruiting	• To control the attack of red palm weevil on coconut, collect and destroy the grubs from whole appear on infected trunk. Apply bordopaste to infected portion. Install pheromone trap 1 trap per acre in coconut orchard.
Arecanut	Fruiting	• For 3-year-old arecanut palm apply 2nd split dose 160 g urea and 125 g muriate of potash per tree. by digging circular ring about 1 meter from base of tree and fill the circular ring with soil after application of fertilizer. Apply 1/3rd and 2/3rd of abovementioned fertilizers dose per tree for 1 and 2-years old arecanut plantation, respectively. • Due forecast for decrease in humidity during next five days, provide irrigation to arecanut orchard at 6-8 days interval.
Black paper	Maturity	• Carryout harvesting of black paper by hand picking the whole spikes when few berries in the spike start turning yellow or red. The berries are separated and dipped in hot water (80°C) for one minute and sun dried for 3 to 4 days.
Summer rice	Seedling	• Prepare field for transplanting by puddling. At the time of puddling apply 35 kg urea, 125 kg single super phosphate and 34 kg muriate of potash per acre. Transplant rice seedling with 5 to 6 leaves with height of 12 to 15 cm and 35 to 40 days old. Transplant 3 rice seedling per hill at a spacing of 20 x 15 cm. follow upright and shallow (2.5 to 3.5 cm) transplanting of seedling. Maintain optimum water level of 2.5- 5 cm upto 30 days after transplanting.
Sweet corn	Vegetative	• There is possibility for incidence of fall army worm on sweetcorn. If incidence is noticed spray Chlorantraniliprole 18.5%SC @ 4 ml per 10 liter of water.
Lablab bean	Flowering to pod development	• Provide irrigation to lablab bean crop where crop is in flowering to pod filling stage.
Groundnut	Vegetative to flowering	• follow weeding after 30-35 DAS as per requirement and then follow earthing up. Roll the empty drum over the groundnut crop 15 days after earthing up for better penetration of pegs & pod setting. • Provide irrigation to groundnut crop at 10 to 12 days interval.
Water melon	Fruiting	• Provide irrigation to water melon crops at 3-4 days interval regularly as to protect fruits from cracking. • Cover the water melon fruits with paddy straw or grasses to protect fruits from sunlight. • Install cue lure 'Rakshak' trap @ 2 nos. per acre at the time of initiation of in watermelon crop for effective control of fruit fly. Collect and destroy all infected fruits.
Poultry	-	• For prevention of bird flu disease in poultry, it is advise to use spray of 1% Sodium hypochloride to sanitized the poultry shed and surrounding areas. In deep litter system of rearing of poultry birds, mix 2% calcium carbonate (Chunna) into bed. • provide clean and hygienic water for drinking.

This Agro Advisory Bulletin (AAB) is prepared and published with the consultation and recommendation of SMS committees of "Gramin Krishi Mausam Sewa (GKMS)" Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli. For more information contact nearby SAU research station or Agriculture officers of Agriculture Department, Maharashtra state.