Agromet Advisory Service Bulletin for Ratnagiri District
(Issued jointly by GKMS, Dr. B.S. Konkan Krishi Vidyapeeth,
& Regional India Meteorological Department, Mumbai)
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Significant past weather for the preceding week (Period –03/10/2020 to 09/10/2020)							Weather Parameters	Weather forecast until 08.30 hrs of 14/10/2020				
03/10	04/10	05/10	06/10	07/10	08/10	09/10		10/10	11/10	12/10	13/10	14/10
0.0	21.4	0.0	0.0	0.0	0.0	6.4	Rainfall (mm)	15	8	8	4	15
30.5	29.0	29.5	30.0	31.5	31.3	32.5	Maximum temperature (°C)	34	34	33	33	32
24.0	22.3	23.2	22.5	22.5	23.4	23.0	Minimum temperature (°C)	26	25	26	26	26
8	8	8	4	2	4	4	Cloud cover (Octa)	5	8	8	8	8
97	98	95	95	93	98	95	Relative Humidity Max. (%)	90	94	96	95	95
87	83	78	75	79	80	-	Relative Humidity Min. (%)	67	69	79	79	79
3.1	3.0	1.2	2.0	3.2	3.9	3.6	Wind speed (Km/hr)	4	5	3	4	3
Calm	Calm	Calm	Calm	Calm	Calm	Calm	Wind direction	ESE	SE	S	S	S

Rainfall (mm) in last week	Rainfall (mm) from 01/01/2020 to till dated	Total Rainfall (mm) in last year
27.8	3999.5	5130.9

Weather summary

Weather forecast	**As per the forecast received from Regional Meteorological Centre Mumbai, there is possibility of light to moderate rainfall from 10th to 14th October, 2020 at a many place over Ratnagiri district. Also, sky will remain cloudy.**
Warning	**Thunderstorm accompanied with lighting likely to occur from 9th to 13th October, 2020 along with possibility of heavy rainfall on 12th and 13th October,2020 at isolated places in Ratnagiri district.**
ERFS	**As per ERFS products above normal rainfall may occur in Konkan division during 14th to 20th October, 2020.**

Crop	Stage	Agromet Advisory based on weather forecast
Kharif rice	**Grain filling (late varieties), grain filling to maturity (midlate varieties) and maturity (early varieties)**	• As per warning received from RMC, Mumbai for heavy rainfall at isolated place on 12th and 13th October, 2020, if possible, avoid harvesting of rice. • There is forecast of light to moderate rainfall, however generally rainfall occurrence during evening hours during withdrawal period hence, harvest the matured rice varieties during morning hours, keep threshed grains in protective shed for drying after immediate threshing. • Maintain the optimum water level of 5 cm in late rice varieties field and make arrangement to drain out water from mid-late rice field 8 -10 days before harvesting. • If false smut disease symptoms observed in rice field then collect and destroy all infected panicle before harvesting. • Due to forecast of intermittent rainfall and increase in temperature, there is possibility of incidence of army worm in early rice varieties, hence immediate harvest the matured early rice varieties.
Finger millet	**Grain filling to Maturity**	• Due to forecast of light to moderate rainfall, harvest the matured varieties of finger millet crop in morning by cutting of ear head with sickle and dry in the safe and protective shed. Follow threshing after drying.
Mango	**Vegetative**	• Due to forecast of light to moderate rainfall and increase in temperature which favours congenial condition for vegetative flush in mango, for protection of vegetative flush of mango from hoppers and midge fly incidence, spray Deltamethrin 2.8%EC @ 9 ml per 10 liter of water. Before insecticide application, clean orchard by removing weeds, diseased infected branches. • Intermittent rainfall and comparatively increase in humidity, there is possibility for incidence of anthracnose fungal disease on new vegetative flush of mango, to control the disease spray, 1% bordomixture or Carbendazim 12% + Mancozeb 63% combination fungicide @ 10 gms per 10 liter of water. • Water stress in root zone favors the induction of flowering, hence clean the mango orchard as soon as possible to facilitate the evaporation of water from mango orchard at faster rate. • Increase in temperature, comparative reduction in humidity and sufficient available soil moisture create condition for pruning in old unproductive and high-density mango orchard. In high density (5X5 m or 6X4 m) mango orchard carryout pruning operation regularly, it includes detopping, pruning of cross branches and removing of dead wood. The height of tree in high density orchard should be maintained at 80% of row distance.

		• In the old unproductive mango orchard, for penetration of solar radiation into canopy carryout central opening and pruning operation. While performing operation, old tall mango trees should be prune at 2/3rd height from base. In younger mango trees, pruning operation should be done at 12-15 ft height from base. After pruning spray chloropyriphos insecticide 5 ml per liter of water on to whole tree also pour solution into base of stem. After that apply bavistin 5 gm by mixing with 1 liter of coaltar to the cut portion of branches. Provide irrigation 150-200 liter of water at 10-15 days interval immediately after pruning. Thin excess sprouting after two months of pruning.
Cashewnut	**Vegetative**	• Due to forecast of light to moderate rainfall and increase in temperature, there is possibility of incidence of tea mosquito bug on new flush of cashewnut. If incidence is noticed spray Monocrotophos 36%SL @ 15 ml or Lambda cyhalothrin 5%EC @ 6 ml per 10 liter.(The insecticide are not under label claim). • Before insecticide application, clean orchard by removing weeds, diseased infected branches to help to manage tea mosquito bug infestation.
Coconut	**Fruiting**	• For control of eriophyid mite on coconut, neem-based insecticide neemazal 5% @ 7.5 ml be mixed in equal quantity of water apply through root feeding during month of October-November. Harvesting is avoided at least 45 days after treatment. In addition to this spray neem-based insecticide (neemazal) 1% @4 ml per liter of water on bunch of nuts. Collect and destroy all infected inflorescence and nuts before spraying. • There is possibility of incidence of rugose spiraling white fly on coconut, Nymphs and adults suck the sap from lower surface of leaves and produce honey dew sugary substance which develop growth of sooty mould fungus. If incidence is noticed spray 50 ml Neem oil 0.5% @30 ml per 10 liters of water. If incidence is noticed on young plantation, spray Imidacloprid 17.8% SL @ 3 ml per 10 liter of water.
Water melon	**Land preparation**	• Due to favorable climate for the cultivation of watermelon crop, undertake primary tillage operation.
Okra	**Land preparation**	• Due to favorable climate for the cultivation of okra crop, undertake primary tillage operation.
Milch animals/Goat	**--**	• To protect the farm animals from Crimean Congo Hemorrhagic Fever viral disease transmitted by tick worm, keep cattle shed clean and follow control measure of tick-worm in consultation with veterinary officer. • Preserve the available green fodder by adopting silage method which helps to feed animals during the period when green fodder is not available. For this, sprinkle the prepared solution of 2 kg jaggery +half kg urea+ 2kg salt in 5-6 liter of water onto 100kg finely chopped grasses. then this treated grass is filled layer wise in plastic silos readily available in market. Keep the silos in shade to protect from rain and heat. In this way, the feed is ready within 2-3 months to feed the farm animals.
Poultry	**-**	• There is suitable weather condition for raring of birds for egg and meat purpose. The brooders should be prepared before the chicks are brought as they need proper temperature and protection till the sixth week after hatching. The temperature of the brooder should be kept around 30 to 35ºC. When the chicks are brought, place them in a brooder and feed the grind corn along with drinking water.
Note : Spray insecticide or fungicide solution and apply fertilizers during clear weather (no rainfall). Mix sticker into spraying solution.		
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.		