

मौसम पूर्वानुमान आधारित साप्ताहिक सलाह

Weather Forecast Based Weekly Advisory

(Assumption: Fruit Pruning date - 15/09/2018)

I. Weather Data for the Prevailing Week

Thursday (14/02/2019) -- Thursday (21/02/2019)

Location	Temperature (°C)		Possibility of Rain	Cloud Cover	Wind Speed (Km/hr)	R H%	
	Min	Max				Min	Max
Nashik	13-17	31-35	No Rain	Clear	00-18	15-25	41-71
Pune	15-19	33-36	No Rain	Clear	01-19	13-20	47-69
Solapur	18-24	35-37	No Rain	Clear	02-16	15-24	42-72
Sangli	16-21	34-36	No Rain	Clear	02-18	13-25	45-71
Bijapur	18-23	34-36	No Rain	Clear	04-15	11-20	41-54
Hyderabad	18-22	33-35	Hyderabad, Zahirabad, Medchal Drizzling- Tue	Partly cloudy to Clear	03-11	24-40	76-86

Note: Above weather information is summary of weather forecasting given in following websites
<http://www.imd.gov.in/>, <http://wxmaps.org/pix/prec6.html>, <http://www.fallingrain.com/world/IN/>,
<http://www.wunderground.com/>, <http://www.bbcweather.com-weather/1269750>, etc..

II. a) Days after pruning: 150 days

b) Expected growth stage of the crop: - Post-veraison stage after October pruning

III. Water management (Dr. A.K. Upadhyay)

Expected pan evaporation: 5.0 to 7.5 mm

Amount of irrigation advised:

1. From Berry development stage onwards till maturity, apply irrigation through drip @ 8,500 to 10,200 L/ acre/ day for Nasik and Pune region and 10,200 – 12,750 L/acre/day for Sangli, Solapur, Bijapur and Hyderabad region.
2. Remember that if the soil is at field capacity (wapsa) then donot irrigate.
3. Flooding the vineyard is not advised as it will lead to wastage of water. Concentrate irrigation water application in the root zone only.
4. Practice mulching to keep the bunds moistened. This will reduce the salinity build up in the root zone due to evaporation of the moisture from the surface of the bund.

IV. Soil and Nutrient requirement (Dr. A.K. Upadhyay)

Berry Development stage:

1. Apply Sulphate of potash or 0-0-50 @ 25 kg/ acre in 3-4 splits for next two weeks. Total potassium application (SOP) should be approx. 60 kg/acre during this stage.
2. In calcareous soil, apply zinc sulphate @ 10 kg/acre along with Ferrous sulphate @ 10kg/ acre after 8-10 mm berry size and before Veraison initiation.
3. Apply Magnesium sulphate @ 10kg/acre in two splits

Ripening to Harvest stage:

1. Apply Sulphate of potash or 0-0-50 @ 25 kg/ acre in 3-4 splits for next two weeks. Total potassium application (SOP) should be approx. 60 kg/acre during this stage. Follow this up with Magnesium sulphate @ 10 kg/acre in two splits. Spray Magnesium sulphate in calcareous soil.

V. Requirement of growth regulators (Dr. S.D. Ramteke)

1. This week weather is clear and temperature is above 10 degree centigrade that means if the POP are good the sugar development will be faster in grapes in all the grape growing areas.
2. If less sugar is the case then go for application potassium shoenite @ 2g per litre.

VII. Disease management (Dr. S.D. Sawant and Dr. Sujoy Saha)

Days after pruning	Risk of diseases			
	Downy mildew	Powdery mildew	Anthracnose	Others (specify)
150	Low	Moderate	Nil	Nil

For powdery mildew management, application of sulphur 80WP@2g/L and *Ampelomyces quisqualis* @6-8g/L (where there is low temperature) will be beneficial. In Solapur and Sangali regions where temperature may be higher, instead of *Ampelomyces*, application of *Trichoderma* or *Bacillus* may be preferred.

VIII. Insect and Mite management. (Dr. D.S. Yadav)

Days after pruning	Risk of pests			
	Mealybug	Mite	Thrips/leafhopper	Caterpillar
150	High	High	Low	Nil

- Spot plant wash with trisiloxane polyether surfactant @ 0.3 ml per litre water with 10-12 litre water per plant to remove mealybug and honeydew from plant and bunches in the field.
- Sulphur 80 WDG @ 1.5-2.0 g/L water may be applied if mite infestation is observed.

Crop advisory relevant to different places is prepared by experts, considering forecasted weather, crop growth stages in majority of vineyards and ground information on incidence of different conditions in different grape growing areas received from regular interaction with progressive grape growers. No claims are made on its correctness.

Usefulness of this information may be communicated to us at director.nrcg@icar.gov.in.