



ICAR-NATIONAL RESEARCH CENTRE FOR GRAPES, Manjri, Pune.



WEATHER DATA FOR THE PREVAILING WEEK

Thursday (24/09/2026) – Wednesday (30/09/2026)

Location	Temperature (°C)		Possibility of Rain	Cloud Cover	Wind Speed (Km/hr) Min-Max	R H%
	Min	Max				
Nashik	19-22	27-30	Nashik, Ozar, Kalwan, Pimpalgaon Baswant, Dindori, Palkhed- Thu, Fri, Sat Sun, Wed- Drizzling rain. Loni- Thu, Fri, Sat, Sun, Mon, Wed - Drizzling to Moderate rain Vani- Thu, Fri, Sat, Sun, Mon, Tue, Wed - Drizzling to Light rain.	Clear to cloudy	19-23	63-75
Pune	18-22	28-30	Pune, Phursungi, Loni Kalbhor, Uruli Kanchan, Patas, Yavat, Narayangaon, - Thu, Fri, Sat, - Drizzling to Light rain. Indapur- Thu, Fri, Sat, Sun, Mon, Tue, Wed - Drizzling to Moderate rain Baramati- Thu, Fri, Sat, Sun, Wed- Drizzling rain	Clear to cloudy	16-19	63-74
Solapur	17-21	28-30	Solapur- Thu, Fri, Sat- Drizzling to Light rain. Nannaj- Thu, Sat, Sun, Tue, Wed- Drizzling to Light rain. Vairag, AUSA, Barshi- Thu, Fri, Sat, Sun, Wed- Drizzling to Light rain. Latur, Tuljapur, Pandharpur- Thu, Fri, Sat, Sun, Mon, Tue, Wed - Drizzling to Light rain.	Clear to cloudy	12-15	58-68
Sangli	18-22	29-33	Miraj, Sangli, Walva, Shirguppi, Palsi, Palus- Thu to Wed - No rain. Kawtha- Thu, Fri, Sat, Sun, Mon, Tue, Wed- Drizzling to Very High rain. Khanapur Vita- Thu, Fri, Sat, Sun, Mon, Tue, Wed- Drizzling to Moderate rain. Shetphal- Thu, Fri, Sat, Sun, Wed - Drizzling to Light rain.	Clear to cloudy	20-25	43-70
Vijayapura	20-23	28-31	Vijayapura, Chadchan, Tikota, Telsang- - Thu, Fri, Sat, Sun, Mon, Tue, Wed – Drizzling to Moderate rain.	Clear to cloudy	19-32	42-74
Hyderabad	21-23	27-30	Hyderabad, Medchal, Zahirabad - Thu, Fri, Sat, Sun, Mon, Tue, Wed- Drizzling to Moderate rain.	Clear to cloudy	18-28	62-82
Satara	17-21	28-30	Khatav, Satara, Phaltan - Thu, Fri, Sat, Sun, Mon, Tue, Wed- Drizzling to Moderate rain.	Clear to cloudy	08-13	53-69

Ahmednagar	19-23	30-32	Ahmednagar, Shrigonda- Thu, Sat, Wed- Drizzling rain. Karjat- Thu, Fri, Sat, Sun, Mon, Tue, Wed- Drizzling to Light rain. Kopargaon, Rahata, Sangamner- Thu, Sat Sun, Wed - Drizzling to Light rain. Jamkhed, Akole- Thu, Fri, Sat Sun, Wed- Drizzling rain.	Clear to cloudy	22-30	44-55
Jalna	21-24	31-32	Jalna, Ambad, Ghansawangi- Thu, Sun- Drizzling to Light rain. Jafrabad - Thu, Fri, Sat, Sun, Mon, Tue, Wed- Drizzling to Very High rain. Mantha- Thu, Sat, Sun, Mon- Drizzling to light rain.	Clear to cloudy	11-28	47-58
Buldhana	20-22	28-30	Buldhana- Thu, Fri, Sat, Sun, Mon, Wed- Drizzling to Moderate rain. D. Raja, Sindkhed raja- Thu, Sun- Drizzling to Light rain. Chikhli- Thu, Fri, Sat Sun, Mon, - Drizzling to Light rain.	Clear to cloudy	29-41	59-70
Kolhapur	17-22	28-30	Kagal, Karveer, Gagan-bavada- Thu, Fri, Sat Sun, Mon, - Drizzling to Light rain.	Clear to cloudy	14-20	49-76
Bengaluru Rural	19-21	27-34	Anekal, Doddaballapur, Bengaluru - east, Bengaluru-north, Bengaluru-Thu, Fri, Sat, Sun, Mon, Tue- Drizzling to Light rain.	Clear to cloudy	10-30	41-67
Belagavi	16-21	26-30	Belagavi, Gokak- Thu, Fri, Sat, Sun- Drizzling to Light rain. Athni- Thu, Sun, Wed- Drizzling rain. Chikodi- Thu, Fri- Drizzling rain	Clear to cloudy	13-19	53-83
Bidar	20-23	27-30	Bidar- Thu, Fri, Sat, Sun, Mon, Tue- Light to Very High rain. Humanabad, Basavakalyan- Thu, Fri, Sat, Sun, Mon, Tue - Drizzling to Light rain.	Clear to cloudy	17-30	65-75
Bagalkot	21-23	28-31	Bagalkot, Jamkhandi, Mudhol- - Thu, Fri, Sat, Sun, Mon, Tue, Wed- Drizzling to Light rain. Hungund- Thu, Fri, Sun, Mon, - Drizzling to Light rain.	Clear to cloudy	15-36	42-69

Note: Above weather information is summary of weather forecasting given in following websites

https://www.wunderground.com/?cm_ven=cgi

<https://imdagrimet.gov.in/weatherdata/BlockWindow.php>

<https://www.timeanddate.com/weather/india>

ICAR-National Research Centre for Grapes does not claim accuracy of it.

II. Water management (Dr. A.K. Upadhyay):

Pan evaporation: 5.5 to 7.0 mm

Amount of irrigation advised :

1. All the grape growing regions are forecasted to receive from drizzling to moderate rains. In case the soil is under wapsa (field capacity) condition, donot irrigate the vineyard.
2. If the soils especially medium and heavy, are saturated with water, then, do not irrigate for atleast 5-7 days till the soil comes to wapsa condition.
3. **Cane maturity stage:** Apply irrigation through surface drip upto 3000 - 4000 L/acre per day.
4. In case of monsoon rains, remove mulch cover on the bund and allow the rain water to seep into the soil. This will leach the accumulated salts in the rootzone. The mulch so removed can be mixed with the soil to improve the soil porosity.
5. During **shoot growth stage** (Fruit pruning season), apply irrigation through drip @ 9350 - 11900 L/ acre/ day for all grape growing regions. In case vigour is more than desired, then reduce irrigation water application by half to 4700 - 6000L/ acre and stop nitrogen application. Still if growth is more, stop the irrigation till such time the growth is brought under control and then start irrigation.

Soil and Nutrient management :



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1. In many of the grape growing areas, continuous spells of rains have been received and further also possibility of rains are there. The soils are already saturated. This has affected the rooting activity. Due to prolonged saturation, the roots may have started decaying. **Donot disturb the soil in the root zone. Wait for the soil to come to the wapsa condition before any soil related intervention has to be done.** Growth will be slow and cane maturity will be affected but donot worry. Only after wapsa, fertilizer application should be done.
2. Due to continuous sprays the leaf will not look healthy, need based sprays should be followed as the leaf health is bound to affect the photosynthate formation. This will impact cane maturity.
3. After current rains, give foliar spray of SOP @ 3-5 g/L depending upon canopy size.
4. In case of calcareous soils where acute iron deficiency is observed, repeatedly spray 2-3g/L Ferrous sulphate two to three times at 3 days interval followed by 15-20 kg/ acre Ferrous sulphate application through drip. The fertigation dose should be split into atleast 3 doses of 5kg each. Apply 5kg/ acre soluble sulphur through drip every week. Also spray magnesium sulphate and potassium sulphate @ 3 gm each/ L once only.

5. Possibility of leaf curling, check the leaf margins, if slight to more yellow, possibility of potassium deficiency. Foliar spray of SOP @ 3-4g/L followed by fertigation of 20-25 kg SOP/acre in 2 to 3 splits.
6. In coloured varieties like Jumbo, Nanasaheb Purple etc., leaf curling along with reddening/bronzing of the leaf margin can be observed if potassium deficiency is there. Foliar spray of SOP @ 3g/L followed by fertigation of 20-25 kg SOP/acre in 2 to 3 splits.
7. In case due to rains and for preventive control, if bordeaux or copper sprays are given, then there is possibility of leaf reddening in coloured varieties like Krishna Seedless etc. No specific pattern will be there. This may be due to copper toxicity. Regulate copper sprays.
8. After cane maturity, raise Sunnhemp or Dhaincha for green manuring purpose.
9. The light intensity is reduced due to cloudy conditions, management of canopy to improve light penetration is important for cane maturity.

Pre-pruning operations – Fruit pruning season

1. In case pruning is planned during October, raise Sunnhemp or Dhaincha for green manuring purpose.
2. The vineyards where sodicity problems are there, apply gypsum to the soil for removal of sodium from the soil exchange complex. In case of calcareous soils, use sulphur for similar purpose. The application should be alongwith FYM/compost etc. They should be mixed in the soil and not left on the top.
3. In case of calcareous soils, if SSP is applied as basal dose, mix with FYM/compost etc. to avoid phosphorus fixation.
4. Test the soil and irrigation water, to plan for nutrient and water management during fruit pruning season.
5. In areas where rains have not been received and the irrigation water availability is less, it is suggested to flood the rootzone(only) with water to leach out the salts and wet the entire soil depth before pruning and then cover with mulch. Thereafter irrigate as per availability of water.

Shoot Growth stage

1. In case organic fertilizers are applied, check the C:N ratio. Lower the ratio more the nitrogen release, hence possibility of enhanced growth. Control nitrogen application based upon growth of vine.

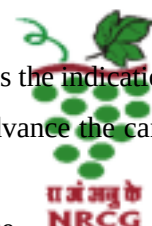
2. Based upon the soil test value, during shoot growth stage apply urea @ 15kg / acre this week in two splits. If the soil is calcareous, instead of urea apply ammonium sulphate @ 25 kg/ acre in three splits this week. Depending upon the crop vigour, regulate nitrogen application.
3. If sodicity problem is there, apply 10 kg Sulphate of potash per acre in 2 splits this week.
4. Until and unless leaves are fully developed donot go for any foliar application of nutrients. It will lead to wastage of spray.
5. The quantity of nutrients to be applied through foliar, depends upon canopy size.

III. Canopy Management (Dr. P. H. Nikumbhe):

Based on the weather data and growth stages, following suggestions are offered for vineyard management during this week as follows.

A) Old vineyard:

- 1) Early cane maturity is important. Hence, canopy management practices like shoot pinching and shoot training should be given priority. This will help to receive sunlight and proper aeration in the canopy.
- 2) Application of potash and reduction of irrigation water will also help to attain cane maturity in the vineyard.
- 3) In the vineyard the growers may experience milky white color of shoots at bottom. This is the indication of cane maturity initiation. Reduction of irrigation and potassium spray will help to advance the cane maturity.
- 4) Spraying of biologicals during humid conditions can help to control the disease incidence.
- 5) Training of shoots on foliage wire will help for sufficient aeration in the canopy thereby reducing the chances of diseases. This will also help for uniform spray coverage of insecticides/ fungicides used for the control of pest and diseases.
- 6) Application of potash (0.0.50 @ 1.0 to 1.25 kg per acre or 0.52.34 @ 1.00 kg/acre or 0.9.46 @ 1.0 kg/acre through drip) and spray @ 3.5 to 5.0 g/L water will help to advance cane maturity.
- 7) Yellowing of leaf is observed in many of the grape vineyard. This situation is seen after the excess rains. This is basically due to leaching of fertilizers from the soil that has also created the deficiency of ferrous, magnesium and potash. Hence, application of sulphur will help to overcome the problem.
- 8) Before forward pruning, the leaf fall should be done well in advance. For leaf removal spray of ethephon @ 2.5 to 3.0 ml/L water + 0:52:34 @ 5 g/L water is suggested.
- 9) Before attending the above spray, the vineyard should be sprayed with biological agents like *Trichoderma*, *Pseudomonas*, *Bacillus*, etc.
- 10) Before ethephon spray, the grapevine should be in stress. Hence, irrigation to be stopped at least 5-6 days before the ethephon spray.



- 11) Bud testing 1-2 days before the forward pruning is suggested. This will help to know actual bud position for pruning.
- 12) Selection of 5-6 canes in different cane sizes should be done. The canes should be kept in wet gunny cloth to maintain freshness. This will support for identification of fruitful buds on a cane.

B) New vineyard:

- 1) Due to recent rains in vineyard, there will be vigorous growth of new shoots. Under the situation of delayed cordon development, spraying of cytokinin based PGR (6BA @ 10 ppm) will help to increase cytokinin and reduce gibberellin level in the vine.
- 2) Control of shoot vigour is most important to achieve fruit bud differentiation. Hence, potash to be sprayed at minimum concentration of 2.0 to 2.5 g/L water.
- 3) Considering the bud differentiation, 2 to 3 sprays of 0.52.34 @ 2.0 to 2.5 g/L water can be given.
- 4) Extension of cordon will help to develop fruitful canes. At this stage, application of soluble fertilizer like 12:61:0 @ 1.25 to 1.5 kg/acre should be applied. In addition, DAP @ 25kg/acre as a basal dose should also be applied.
- 5) Once the new shoots are of 5-6 leaf stage, pinching should be done at 4-5 leaf. This should be followed by spraying of 0:52:34 @ 2.0 to 2.5 g/L water.

C) Rootstock plots:

- 1) The period of grafting new varieties on rootstock is approaching. Selection of specific scion is more important considering the life span of any variety.
- 2) Considering the export potential, the colour variety like Crimson Seedless and Red Globe can be selected for grafting.
- 3) For raisin making, the variety Manjari Kishmish has good performance on Dogridge rootstock in terms of raisin recovery and raisin quality.
- 4) Preparation of rootstock 10 days before grafting is required. Retention of 3-4 straight growing, vigorous, and healthy rootstock shoots should be done before the grafting. In case of excess shoots available, shoot thinning to be done. In addition, the removal of side shoots in at least two instalments can be done to achieve straight and thick shoot (approx. 8.0 mm) at 1.0 feet height above the ground.
- 5) For grafting, select the matured scion where the pith is completely developed. This will have sufficient reserve food material. Selection of green/ immature shoot for grafting may lead to early bud sprouts and subsequent drying of sprouted leaf.
- 6) The selected scion should be free from pest and diseases and from the healthy and high yielding vines which has proven record.
- 7) Before grafting, the selected scion should be dipped into Bavistin @ 3-4 g/L water. This will help to remove the inoculum of earlier diseases available on the cane.



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- 8) During the grafting, the temperature between 30-35°C and relative humidity above 80% will help for easy callus formation and graft success.

IV. Disease management (Dr. Sujoy Saha):

Days after fruit pruning	Risk of diseases			
	Downy mildew	Powdery mildew	Anthracnose	Others (specify)
09	Low	Nil	Moderate	Bacterial spot- High Rust- Low

Drip application of Trichoderma before fruit pruning or immediately after fruit pruning may be done. After pruning cordon wash with Mancozeb and sulphur should be done to remove the primary inoculum if any. At 'ponga' stage application of copper hydroxide @ 1.5g/L may be given. No systemic fungicides are to be applied prior to 3-5 leaf stage.



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N.B: The date of foundation pruning is assumed to be on 15.09.26



V. Insect and Mite Pest Management (Dr. D.S. Yadav)

Growth Stage: Cane maturity and afterwards stage after foundation pruning

- High flea beetle incidence may be noticed in the vineyards now. If not controlled it will cause serious damage after fruit pruning. Remove weeds from inside and around the vineyards. Harrowing may be done in inter row space once the rainy spell is over. Give soil drenching with clothianidin 50 WDG @ 200 gram per acre in the root zone to kill flea beetle grubs in the soil (not for vineyards for export). Thereafter, foliar application of lambda cyhalothrin 4.9 CS @ 200 ml per acre or imidacloprid 17.8 SL @ 160 ml per acre at night after 7 pm may be given. Give two applications of insecticides at 7 and 15 days before ethrel spraying for flea beetle management.
- In case of caterpillar infestation, application of fipronil 80 WG @ 0.0625 g per litre or emamectin benzoate 5 SG @ 0.22 g per litre or cyantraniliprole 10 OD @ 0.7 ml per litre water is effective. Installation of light traps outside vineyards is the best strategy to manage caterpillar population.
- Use of broad-spectrum insecticides should be avoided for mealybug control. Buprofezin 25 SC @ 1.25 ml per litre water may be given to manage mealybugs. Preventive plant wash, on stem and cordons, of

biocontrol agents such as *Verticillium*, *Metarhizium*, *Beauveria* may be given. Remove loose bark from main trunk and cordons, if not done already.

- ◆ In case of thrips infestation, remove excess shoot growth.
- ◆ Red colour stem borer (*Dervishiya cadambae*) may have infestation under bark in grape areas. Install light traps near the vineyards to manage moths of this stem borer. Remove loose bark from stem and cordons and give preventive wash on stem and cordons with biocontrol agent *Metarhizium* @ 3-5 ml per litre water minimum once in the month during July to September months. If infestation is observed, remove the loose bark and give stem and cordon wash with *Metarhizium* @ 3-5 ml per litre water and 1.5-2 litres water per plant.
- ◆ In new vineyards after grafting, flea beetle infestation may be observed. In case of heavy infestation, give soil drenching with imidacloprid 17.8 SL @ 1.5 ml per plant and foliar application with spinosad 45 SC @ 0.25 ml per litre or spinetoram 11.7 SC @ 0.3 ml per litre or fipronil 80 WG @ 0.0625 g per litre water.



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