



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



WEATHER DATA FOR THE PREVAILING WEEK

Thursday (21/05/2026) – Wednesday (27/05/2026)

Location	Temperature (°C)		Possibility of Rain	Cloud Cover	Wind Speed (Km/hr) Min-Max	R H%
	Min	Max				
Nashik	23-24	35-36	Nashik, Ozar, Kalwan, Pimpalgaon Baswant, Dindori, Palkhed- Fri- Drizzling rain. Loni, Vani - Thu – Wed – No Rain	Clear to cloudy	23-28	31-40
Pune	23-25	33-36	Pune, Phursungi, Loni Kalbhor, Uruli Kanchan, Patas, Yavat, Narayangaon, Baramati- Thu, Fri, Sat- Drizzling rain. Indapur- Thu – Wed – No Rain	Clear to cloudy	18-26	36-55
Solapur	22-23	33-35	Solapur- Thu, Fri,- Drizzling rain. Barshi, Vairag- Fri, Sat, Sun- Drizzling rain Latur- Thu, Fri, Sat, Sun- Drizzling rain. Nannaj- Sat- Drizzling rain. Pandharpur, Ausa, Tuljapur - Thu–Wed –No Rain	Clear to cloudy	21-27	38-59
Sangli	23-25	34-38	Miraj, Sangli, Shirguppi - Thu, Fri, Sat- Drizzling rain. Palsi, Palus, Kawtha - Thu – Wed – No Rain. Shetphal, Walva - Fri, Sa- Drizzling rain. Khanapur Vita– Tue- Drizzling rain.	Clear to cloudy	22-30	33-50
Vijayapura	24-25	36-39	Chadchan, Tikota, Telsang, Vijayapura – Thu, Fri, Sat- Drizzling rain.	Clear to cloudy	20-31	27-41
Hyderabad	25-28	40-41	Hyderabad, Medchal- Fri, Sat, Sun- Drizzling rain. Zahirabad- Wed - Drizzling rain	Clear to cloudy	20-24	24-30
Satara	22-23	33-35	Khatav, Satara Thu, Fri - Drizzling to Light rain. Phaltan- Thu, Fri, Sat, Sun - Drizzling to Light rain.	Clear to cloudy	21-27	38-59
Ahmednagar	23-25	36-39	Ahmednagar, Shrigonda- Fri, Sat- Drizzling rain. Sangamner, Rahata, Kopargaon- Fri- Light rain. Akole-Fri- Drizzling rain., Jamkhed– Wed- Drizzling rain. Karjat-- Thu – Wed – No Rain.	Clear to cloudy	10-27	24-37
Jalna	25-27	40-42	Ambad, Jalna, Ghansavangi, Mantha, Jafrabad – Thu – Wed – No Rain.	Clear to cloudy	19-27	18-25
Buldhana	25-26	38-41	Buldana, Chikhli, D. Raja, Sindkhed	Clear to	28-38	21-27

			raja – Thu – Wed – No Rain.	cloudy		
Kolhapur	22-24	33-36	Kagal, Karveer, Gagan-bavada – Thu, Fri, Sat, Sun - Drizzling rain.	Clear to cloudy	22-29	39-57
Bengaluru Rural	21-22	29-33	Anekal, Doddaballapur, Bengaluru - east, Bengaluru-north, Bengaluru – Thu, Fri, Sat, Sun, Mon, Tue, Wed- Drizzling to heavy rain	Clear to cloudy	14-23	45-57
Belagavi	22-23	30-32	Belagavi, Gokak- Thu, Fri, Sat, Sun, Mon- Drizzling rain Chikodi, Athni - Thu, Fri, Sat - Drizzling rain.	Clear to cloudy	19-24	49-67
Bidar	27-30	41-42	Basavakalyan, Humanabad- - Thu, Fri, Sat, Sun- Drizzling rain. Bidar-Wed - Drizzling rain.	Clear to cloudy	19-25	19-25
Bagalkot	24-25	36-39	Bagalkot, Jamkhandi, Hungund, Mudhol - Thu, Fri, Sat - Drizzling rain..	Clear to cloudy	20-31	27-38

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

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

<https://imdagrmet.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

भारतीय कृषी संशोधन परिषद-राष्ट्रीय द्राक्ष संशोधन केंद्र, पुणे
ICAR-National Research Centre for Grapes, Pune

Pan evaporation: 6.0 – 9.0 mm



Amount of irrigation advised:

- There is possibility of drizzling in many regions. In case the soil is under wapsa (field capacity) condition, donot irrigate the vineyard.
- 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.
- After foundation pruning, during shoot growth stage, apply 10,200 – 16,150 L/acre per day of irrigation water. If EC of the irrigation water is less than 1 dS/m, then apply 8,160 – 12,920 L/acre per day.
- In case vigour is more than desired, then reduce irrigation water application to 5,100 – 8,000 L/ acre. Still if you are not able to control the vigour, stop irrigation till such time growth is controlled.
- Cover the cordons of the pruned vines with shadenet**, if available, for uniform sprouting as well as reducing the irrigation water needs by 20-25 %. Shadenet coverage will reduce the temperature impact on the cordons. However, remove shadenet after 3-5 leaf stage. If shadenet is not available, spray the cordons with water during the peak heat period i.e. 2-3 pm to reduce the heat effect on the buds.

- f. In case there is **probability of less irrigation water availability**, then flood the bund (not whole vineyard) at pruning and mulch the bunds. Flooding the bund will reduce the accumulated salt load in the root zone and mulching will reduce the evaporation of water from soil surface. Thus, this will reduce the salt load in the soil and at the same time saturate the soil leading to proper sprouting. Further, in case less irrigation water is available still the newly emerging shoots will not be damaged due to salinity.
- g. During fruit bud differentiation stage, shoot vigour to be controlled and hence, the irrigation water applied should be from 3500 to 6000 L/ acre/ day.
- h. For fruit bud differentiation stage, stress needs to be given. In clayey soil as the water holding capacity is higher, please note that stress needs to be imposed early else fruitfulness will be affected.
- i. Whenever the temperatures crosses 41-42°C during fruit bud differentiation stage, the irrigation water application should be near field capacity or wapsa condition. However, reduce/ stop water , if new growth is observed.

Soil and Nutrient management :

Shoot growth stage:

1. Apply 50 kg urea/ acre in 5-6 splits after sprouting. In calcareous soils, donot apply urea, instead use Ammonium sulphate @ 85 kg/acre in atleast 7-8 splits from sprouting onwards.
2. In case of vigorous growth of shoots, stop nitrogen application and wait for the growth to stabilize before resuming nitrogen application. If still the growth continues, then reduce irrigation. Then resume when growth is maintained at desired level.
3. Based upon soil test value, apply Zinc sulphate @10 kg/acre along with Ferrous sulphate @10kg/acre followed by Magnesium sulphate @15kg/acre in atleast 2 splits from 5-7 leaf stage onwards. Boron application should be strictly based upon soil and petiole test.
4. In calcareous soils, spray magnesium sulphate and potassium sulphate @2 gm each/ L during active growing stage.
5. Possibility of leaf curling, check the leaf margins, if slight to more yellow, possibility of potassium deficiency. Foliar spray of SOP @ 3g/L followed by fertigation of 20-25 kg SOP/acre in 2 to 3 splits.

Fruit bud differentiation stage

1. Based upon soil test values, apply 20 – 25 kg/ acre phosphoric acid or 150 kg/ acre SSP in case the soils are deficient in phosphorus. Phosphoric acid application is desirable in

calcareous soils. Do not apply beyond this until and unless the soil and petiole tests show low phosphorus availability.

2. Do not apply any water soluble fertilizer having nitrogen.
3. At 45 DAP, perform petiole test to know the nutrient content of the vines. The petioles should be collected from 5th leaf from the base of the shoot even counting the leaves that have been removed.
4. Apply Magnesium sulphate @ 15kg/ acre in at least 2 splits from 45 to 55 DAP.
5. In calcareous soils, spray magnesium sulphate and potassium sulphate @ 3 gm each/ L once only during 45 to 55 DAP.
6. Keep a close watch on the development of leaf blackening symptoms if irrigation water contains sodium more than 100ppm.
7. 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.
8. 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.



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III. Canopy Management

Based on the present weather condition, following suggestions are offered.

1) Foundation pruning and its management:

The vineyard after the grape harvest needs another operation called foundation pruning. It is generally done after harvest of fruits. Before foundation pruning, the vineyard needs rest for about 20 to 30 days. Trench opening is done at least 15 days before foundation pruning. A trench of 3-to-4-inch depth and about 2 feet wide need to be opened. Application of nutrients to be done as per the recommendations. Immediately after the application fertilizer, trench should be closed to avoid damage of roots. The exposure of roots to the sun for longer time may lead to formation of dead arms in the vineyard.

The canes should be pruned leaving single bud. This will help for uniform bud sprout. Application of hydrogen cyanamide @ 20-25 ml per litre water will help to crack the bud on a cordon thus making a way for easy sprout.

2) Shoot thinning:

Shoot thinning is a critical canopy management practice performed after April pruning in to regulate vine vigor. It should be carried out when shoots are 10–30 cm long for easy removal. Proper thinning maintains an optimum shoot density of 0.5 to 0.7 shoots per square foot of grapevine area. This ensures better sunlight penetration and air circulation, significantly reducing diseases.

3) Vineyard after the re-cut:

In the vineyard after re-cut, the development of trunk as well as cordon should be in progress. While developing the trunk, the new growth should be at faster rate. The nutrient management at this stage plays an important role. Application of only nitrogenous and phosphatic fertilizer through soil will help to push vegetative growth. In case of soil report with calcium carbonate availability in the vineyard, sulphur application will help to reduce the soil pH. Sufficient irrigation and nitrogen will help for faster growth.

The trunk should be developed using “stop and go” method. In this method, when the shoot growth is of 8-9 leaf stage, the pinching is done at 6-7 leaf. This will facilitate the growth of side shoots. These shoots are again pinched at 3-4 leaf and the upper sprout is tied to the bamboo and allowed to grow for next stop of trunk. The retention of 3-4 leaf on the shoot will help to store the food material and make the trunk thicker. The development of cordon also been done in the similar way.

4) Rootstock management:

The rootstock planted in the field during Jan-Feb might have been established with development of roots. The establishment of rootstock in the field means not only development of roots in the soil but also development of shoots above ground. The well-balanced rootstock plant in the filed have proper root: shoot ratio. To develop this, irrigation, and nutrition (N and P grade fertilizers) is needed. Under the situation of shortage of irrigation water in the vineyard, mulching should be done. The irrigation can also be done either during early morning or late evening to avoid evaporation losses.

IV. Disease management

Days after Foundation pruning	Risk of diseases			
	Downy mildew	Powdery mildew	Anthracnose	Others (specify)
41 Days	Nil	Nil	Nil	Bacterial spot- Nil Rust- Nil

As temperature is on the rise, watering of cordon can be done. In case of early pruning areas, mancozeb or copper formulations should be mixed with hydrogen cyanide mixture for preventing secondary infections. Drip application of Trichoderma should be commenced as soon as rains start. No systemic fungicides are required at this stage.

V. Insect and Mite Pest Management

Adults of stem borer *Stromatium barbatum* start emerging during first fortnight of June. Installation of light traps will be helpful in monitoring the initiation of emergence of stem borer adults. Run the light traps for 3 hours daily, during evening between 7.00 pm – 10.00 pm and destroy the collected beetles in water mixed with insecticide. Application of neem oil or neem seed kernel extract or hanging neem leaves inside vineyards may act as repellent for adults of *Stromatium barbatum*. Loose bark on main stem and cordons act as hiding places for *Stromatium barbatum*, removing loose bark will reduce egg laying in vineyards.

- Chafer beetles are adults of white grubs. They start emerging after good rains during May-June months. They are active during nighttime and remain hidden during the day. After mating about 50 eggs are laid by a single female in the soil and where they feed on the roots. However, the damage to roots by their grubs in grapes is not a major problem. The major damage is caused by the adults by feeding on leaves. Mostly grape plants at the border of the vineyard are affected. Foliar application of lambda cyhalothrin 4.9 CS @ 0.5 ml per liter water at night is effective to kill the beetles.
- Spraying of imidacloprid 17.8 SL @ 0.4 ml per litre water will help in controlling mealybug on new growth.
- In case of thrips or caterpillar infestation, application of fipronil 80 WG @ 0.0625 g per litre or emamectin benzoate 5 SG @ 0.22 g per litre water is effective.
- Remove excess growth to manage thrips post second pinching.
- Mite infestation may start appearing, therefore, monitor the vineyards carefully. If mite infestation is observed, sulphur 80 WDG @ 1.5-2.0 gram per litre water is effective.