

Wine and Table Grape

Timing: Begin sampling at stage 1.5 (vegetative growth) and go to stage 8.9 (harvest). Sample 3-5 times

Petiole sample volume: Collect 50 petioles

Petiole sampling: Select the youngest fully expanded leaf (YFEL) from healthy shoots at mid canopy.

Return to the same sampling area for subsequent samples. Once bunches have formed you may decide to collect leaves from opposite the basal bunch (bunch at the bottom of the cane) as well, or exclusively, to judge nutrient supply to berries. A berry analysis will provide good information on nutrient translocation to fruit. Nutrient levels in petioles from opposite the basal bunch are expected to be at the higher end of the desirable level range, nutrients in YFL petioles are expected to be at the lower end.

Plant part for analysis: Discard leaf blades, retain petioles for analysis.

Berry sampling: .Sample berries at the same time and from the same vines as petioles. Collect berries from 50 basal bunches (bunch at the bottom of the cane), picking along the length of the bunch.

Alternatively, entire bunches may be collected during early fruit development.

Use leak proof containers for postage.

Eichhorn - Lorenz Stages	BBCH Stages	Description	Comments
			<i>Leaf and early generative development</i>
09	1.3	Vegetative growth and inflorescence forming	3 rd leaf unfolded
12	1.5		5 th leaf unfolded and inflorescence visible
	1.6		6 th leaf unfolded and inflorescence clearly visible
	5		<i>Inflorescence development</i>
15	5.5	Pre flowering	Inflorescence swelling & elongating, flowers closely together
17	5.7		Inflorescence fully developed; flowers separating
	6		<i>Flowering</i>
19	6.1	Flowering	Beginning of flowering: up to 10% of flowerhoods fallen
21	6.3		Early flowering: 30% of flowerhoods fallen
23	6.5		Full flowering: 50% of flowerhoods fallen
25	6.8		Late flowering 80% flowerhoods fallen (80% capfall)
	6.9		End of flowering
	7		<i>Fruit development</i>
27	7.1	Fruit set	Fruit set: fruits begin to swell, all remnants of flowers lost
29	7.3	Fruit growth	Berries small, bunches begin to hang
31	7.5		Berries pea sized, bunches hang
33	7.9		Majority of berries touching, bunch closure
	8		<i>Ripening of berries</i>
35	8.1	Verasion	Beginning of ripening: berries begin to develop variety-specific colours
36	8.3	Maturing	Berries coloured
37	8.5		Softening of berries
38	8.9		Berries ripe for harvest
	9		<i>Senescence</i>
41	9.2	Post harvest	Beginning of leaf discoloration
43	9.3		Beginning of leaf fall
47	9.7		End of leaf fall

Growth Stage numbering system is in accordance to the extended BBCH, a uniform coding of phenologically similar growth stages for all plant species

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