

Olive Sampling & Growth Stages

Timing: Begin sampling at stage 3 (shoot growth), and continue through to stage 8.5 (late fruit growth) or as required.

Sample volume: 100 – 150 shoot tips (*the less succulent the shoots are, the more tips are needed to express the required amount of sap*)

Sampling: Collect 20-30 cm of the new shoot tips from current season's growth at mid crown height (or shoulder height for large trees) from around the whole tree. Sample from a representative area of the grove. Return to the same trees for subsequent sampling.

Fruit Sampling: 40 olives are selected from around the whole tree (representative trees). The number of olives should remain the same throughout the sampling period. It is recommended to sample olives at the same time as shoots.

Primary Stage	Secondary Stage	Description	Comments
1			<i>Leaf development</i>
	1.1		First leaves unfolding
	1.9		First leaves fully expanded
3			<i>Shoot development</i>
	3.1		Axes of developing shoots visible
	3.2		Shoots 20% of final length
	3.9		Shoots 90% of final length
5			<i>Inflorescence emergence</i>
	5.1		Inflorescence buds swelling, bud scales elongated with light coloured patches
	5.3		Bud burst: green leaf tips enclosing flowers visible
	5.5		Flower buds closed but visible
	5.7		Red bud stage: flower petals elongating, sepals slightly open, petals just visible
	5.9		Most flowers with petals forming a hollow ball
6			<i>Flowering</i>
	6.1	Fruit set	Beginning of flowering: 10% of flowers open
	6.5		Full flowering: 50% of flowers open, first petals falling
	6.9		All petals fallen, end of flowering
7			<i>Fruit development</i>
	7.1		Fruit size up to 10% of final size, fruit fall after flowering
	7.2		Fruit size up to 20% of final size
	7.3		Fruit size up to 20% of final size, second fruit fall
	7.4		Fruit diameter up to 40% of final size: T stage, underside of fruit and stalk forming a T
	7.5		Fruit about 50% final size
8			<i>Maturity of fruit</i>
	8.1		Beginning of ripening
	8.5		Advanced ripening, increase in intensity of cultivar -specific colour
	8.7		Fruit ripe for harvest

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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