

Pea Sampling & Growth Stages

Timing: Begin sampling at stage 3 (stem elongation). Continue through to stage 7.5 (Pod set) as required

Sample volume: 50 plants until stage 3.9; later 30-40 plants

Sampling: Select the 3 youngest side shoots per plants, retain the entire shoot for analysis

Primary Stage	Secondary Stage	Description	Comments
1			<i>Leaf development</i>
	1.5	Vegetative growth	5 leaves (with stipules) unfolded or 5 tendrils have developed.
3			<i>Stem elongation (Main shoot)</i>
	3.2		2 visibly extended internodes
	3.5		5 visibly extended internodes.
5			<i>Inflorescence emergence</i>
	5.1	Early flower budding	First flower buds visible outside leaves.
	5.5		First separated flower buds visible outside leaves But still closed.
	5.9		First petals visible, flowers still closed.
6			<i>Flowering</i>
	6.1	First flowers	Beginning of flowering: 10% of flowers open.
	6.5		Full flowering: 50% of flowers open.
	6.9		End of flowering.
7			<i>Development of fruit</i>
	7.1	Pod set	10% of pods have reached typical length; juice exudes if pressed.
	7.3		30% of pods have reached typical length; juice exudes if pressed. Tenderometer value: 80 TE
	7.4		40% of pods have reached typical length; juice exudes if pressed. Tenderometer value: 95 TE
	7.5		50% of pods have reached typical length; juice exudes if pressed. Tenderometer value: 105 TE
	7.6		60% of pods have reached typical length; juice exudes if pressed. Tenderometer value: 115 TE
	7.7		70% of pods have reached typical length; juice exudes if pressed. Tenderometer value: 130 TE
	7.9	Pod expansion	Pods have reached typical size (green ripe). Peas fully formed.

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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