

Faba Bean Sampling & Growth Stages

Timing: Begin sampling at stage 1.9 and go to 6.1. Sample every 2 weeks or at least 3 times during the season.

Sample volume: 50 petioles (if plants are very small more than 50 may have to be collected.)

Sampling: Collect 1 petiole per plant. Select the youngest fully expanded leaf including the entire petiole emerging from the stem. Discard the leaf blades and retain the petiole. For small plants (e.g. to growth stage 3.9) sample the entire stem (approx 10 needed for analysis) and discard the leaves and root system.

Primary Stage	Secondary Stage	Description	Comments
1			Leaf Development
	1.1	Early vegetative growth	Pair of scale leaves visible
	1.3		3 leaves unfolded
	1.5		5 leaves unfolded
	1.9		9 or more leaves unfolded. Stem elongation may have begun
2			Stem elongation
	2.1	Mid vegetative growth	First internodes extend from the scale leaf to the 1st true leaf node
	2.3		3 visibly extended internodes
	2.9		9 or more visibly extended internodes
3			Formation of side shoots
	3.1	Late vegetative growth	Beginning of side shoot development
	3.3		3 side shoots detectable
	3.9		9 or more side shoots detectable
5			Inflorescence emergence
	5.1	Bud set	First flower buds visible outside of leaves
	5.5		First individual flower buds visible outside of leaves but still closed
	5.9		First petal visible, but many individual flower buds still closed
6			Flowering
	6.1	Flowering	Flowers open on first raceme
	6.5		Full flowering: flowers open on 5 racemes per plant
	6.9		End of flowering (first pods visible)
7			Development of fruit
	7.1	Bean expansion	10% of pods have reached final length
	7.5		50% of pods have reached final length
	7.9		Nearly all pods have reached final length
8			Ripening

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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Ph: 03-6420 9600, Fax 03-6427 0230, info@agvita.com.au, www.agvita.com.au