

Green Bean Sampling & Growth Stages

Timing: Begin sampling at stage 5 (bud set) and go to stage 7.5

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

Sampling: Collect 1 trifoliolate leaf per plant; select the youngest, fully expanded leaf (YFEL) including the entire petiole. Discard the leaf blades and retain the petioles for analysis. If sampling young plants prior to trifoliolate leaves developing (vegetative stages), collect the entire plant without roots

Primary Stage	Secondary Stage	Description	Comments
1			<i>Leaf development</i>
	1.2	Vegetative growth	2 full leaves, (0 trifoliolate leaves) unfolded
	1.9		9 or more leaves (2 full leaves, 7 or more trifoliolate) unfolded
5			<i>Inflorescence emergence</i>
	5.1	Bud set	First flower buds visible
	5.5		First flower buds enlarged
	5.9		First petals visible, flowers still closed
6			<i>Flowering</i>
	6.1	Early Flowering	Beginning of flowering: 10% of flowers open
	6.5	Flowering	Full flowering: 50% of flowers open
	6.9	Early Bean Set	End of flowering (first pods visible)
7			<i>Development of fruit</i>
	7.0	Bean Set	Individual bean pods easily visible
	7.1	Bean expansion	10% of pods have reached typical length
	7.5		50% of pods have reached typical length, beans beginning to fill out
	7.7		70% of pods have reached typical length, pods still break cleanly
	7.9		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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