

Chickpea Sampling & Growth Stages

Timing: Begin sampling stage 2, and monitor until the end of flowering as required.

Sample volume: 40-50 plants; from large plants the sampling volume may be reduced 20-30 plants.

Sampling: Select the youngest fully expanded leaf (YFEL, the tallest leaf at rosette stage, or later, the 3rd or 4th leaf down from the growing tip of the plant). For seedlings, send entire plants. Remove the leaf blade, retaining the midrib/petiole for analysis. Remove roots and leaf blades from seedlings.

Primary Stage	Secondary Stage	Description	Comments
2			<i>Side Shoots</i>
	2.3	Vegetative	3 Side shoots detected
	2.5		5 Side shoots detected
6			<i>Flowering</i>
	6.1	Flowering	10% of flowers on main raceme open. Each flower producing a short pod.
	6.5		Full flowering: 50% flowers on main raceme open.
	6.6		Lower pods starting to fill (green pod)
	6.9		Flowering complete
7			<i>Expanded Pod</i>
	7.1	Pod Development	10% of pods have reached final size
	7.3		30% of pods have reached final size
	7.5		50% of pods have reached final size
	7.7		70% of pods have reached final size
8			<i>Mature Pod</i>

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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