

## Mango Sampling & Growth Stages

**Sample volume:** 20 shoot tips.

**Sampling:** Collect 10 cm of new shoot tips from current season's growth at mid crown height (or shoulder height for large trees). Sample from the same trees for subsequent sampling.

**Fruit Sampling:** 20 Fruitlets are selected from around the whole tree at stage 7.2 to stage 8.7 (harvest) from representative trees. The sample number should remain the same throughout the sampling period. Sampling should occur at the same time as shoot sampling.

Primary Stage	Secondary Stage	Description	Comments
<b>1</b>	January to April		<i>Leaf development</i>
	<b>1.5</b>	Vegetative Flush	Trees usually have between 1 and 4 separate flushes during the year.
	<b>1.9</b>		Main Dormancy, cooler weather stops trees growing. This period is vital for the induction of flowers.
<b>5</b>	July to September		<i>Inflorescence emergence</i>
	<b>5.1</b>	Floral Bud Break	First inflorescence emergence
	<b>5.5</b>		Mid flower emergence
<b>6</b>	July to September		<i>Flowering</i>
	<b>6.4</b>		40% flowering
	<b>6.6</b>		60% flowering
<b>7</b>	August to January		<i>Fruit development</i>
	<b>7.2</b>		Fruit shedding. Fruit takes 4 to 5 months to mature (80-150 days after flower bud burst).
	<b>7.5</b>		Fruit reached 50% of final size
	<b>7.8</b>		Fruit reached 80% of final size
<b>8</b>	August to January		<i>Maturity of fruit</i>
	<b>8.1</b>		Mature but still firm green fruit
	<b>8.9</b>		Fully ripe fruit. After harvest the trees go into a short dormancy period.
<b>9</b>	January to April		<i>Shoot Growth</i>
	<b>9.1</b>	Post Harvest Flush	Most important growth flush, branches need to flush at the same time so that the terminals are of similar age and ready to flower at the same time.

*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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