



# Mango

## Basic Details

- It is Also Known As King of fruits. ( $2n=40$ )
- Botanical name: *Mangifera indica*
- It is a highly heterozygous and cross-pollinated crop.
- It grows well in soils with slightly acidic PH. It does not perform well in soils having pH beyond 7.5. Tropical Plant, Can be grown up to 1100 mean sea level.
- Life of Seed: 30 Days

## Climatic Condition

Rainfall requirement - 25-250 cm.

The temperature between 24 and 27°C is ideal for its cultivation.

## Area and Production:

Area wise: AP > UP > Odisha

Production wise: UP > AP > Bihar

## Water Needed

The young mango plants require 9-12 litre/day/plant water for better growth.

The plants of 3-6 years, 6-10 years, 9-12 years and full grown trees require approximately 30-35 litre, 50-60 litre, 80-90 litre and 120 litre/day/plant.

## Preferred Soil

Alluvial to lateritic soils having acidic pH less than 7.5.

except in black cotton soil having poor drainage.

## Best time for plantation

Planting is usually done in the month of July-August in rainfed areas and during February-March in irrigated areas. In case of heavy rainfall zones, planting is taken up at the end of rainy season.

## Harvesting

8 tonnes/ha. , 1000-2000 fruit per tree.

## Storage

Temp. : 5 – 160 degree C

Mature green fruits can be stored for 4-10 days at room temp.

For exports, Harvested fruits are precooled to 10-120 Degree Celsius



The fruits of Dashehari, Mallika and Amrapali should be stored at 12°C, Langra at 14°C and Chausa at 8°C with 85- 90% relative humidity.

## State wise availability of mango in india

Andhrapradesh	March - Mid August
MH, GJ	April to July
Tamilnadu	April to August
MP	Mid April to July
KN, RAJ.	May to July
West Bengal	May to august
Bihar	May to mid august
UP	Mid May to August
Haryana	June to August
HP	Mid june to august

## Grafting Techniques

1. **Inarching:** It is one of the most widely practiced methods of grafting. It has a 95% success rate.
2. **Veneer and side grafting:** These can be utilized for preparing a grafted plant material i.e. for the rootstocks which are already planted.  
Veneer grafting popular method in Northern India.
3. **Epicotyl /stone grafting:** This method is widely practiced in the Konkan region of Maharashtra. The germinated seedlings of 8-15 days old are used for grafting.
4. **Soft-Wood Grafting :** Need seedlings of 8-10 months old . Best Time : July and August

## Types of Mango Variety

Variety	Characteristics	Grown in State
Alphonso (Happus)	Fruit medium in size orange yellow in colour	Maharashtra, Gujarat, Karnataka and Madhya Pradesh
Bangalora (Totapuri)	Fruits medium-large, pointed base with golden yellow colour	Andhra Pradesh, Karnataka, and Tamil Nadu.
Banganapalli (Baneshan, Safeda)	Variety suited for dry areas; fruit large sized	: Andhra Pradesh and Tamil Nadu.
Bombai (Malda)	Variety is alternate bearer; fruit medium	: Bihar, West Bengal and Madhya Pradesh.
Bombay Green	Fruit size is medium, shape ovate oblong with spinach green colour	: Uttar Pradesh and Haryana
Dashehari	Best varieties of the country; fruit size is small-medium	Uttar Pradesh, Haryana and Punjab
Fernandin	Fruit size medium-large, fruit shape oval to obliquely oval and fruit colour is yellow with a blush of red on shoulders	Goa



Himsagar	Fruit is medium sized ovate fruit with yellow colour	West Bengal and Bihar.
Kesar	Fruit medium oblong with a red blush on the shoulders	Gujarat
Kishen Bhog	Fruit medium oval oblique with yellow colour	West Bengal and Bihar
Langra	Trees vigorous and spreading; fruit medium, ovate in shape with lettuce green colour	Uttar Pradesh, Bihar, Haryana, Madhya Pradesh, Orissa, West Bengal and Punjab.
Mankur	The variety develops black spots on the skin in rainy season. Fruit is medium ovate and yellow in colour.	Goa and Maharashtra.
Mulgoa	Fruit is large roundish-oblique in shape and yellow in colour	Tamil Nadu, Karnataka
Neelum	Fruit is medium ovate-oblique in shape and saffron yellow in colour	Tamil Nadu, Karnataka and Orissa.
Samarbehisht Chausa	Fruit large, ovate to oval oblique in shape and light yellow in colour	Uttar Pradesh and Punjab
Suvernarekha	Fruit medium ovate oblong fruit, green in colour with prominent red blush on the shoulders	Andhra Pradesh and Orissa
Vanraj	Fruit medium, ovate oblong in shape with a blush of jasper red on the shoulder	Gujarat

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