

Mango

Plant Name: Mango

Scientific Name: *Mangifera indica*

Family: Anacardiaceae

Spacing: 12x12, 15x15, 18x18, 12x6, 12x8, 14x8
(plant to plant and row to row distance)

Varieties: In India there are so many varieties cultivation, but Kesar, Alphonso, Totapuri, Dasehari, Nilum, Langra are some varieties used for commercial production.

Properties of Mango: Mango, one of the world's most delicious fruits, occupies a place of pride in this country and is rightly referred to as "King of fruit" and "National Fruit of India". Its sweet taste, pleasant flavor, attractive color, nutritive value and various uses of fresh and preserved products are liked by "all" that is why it is commonly known as "AAM". It is the most important fruit in the tropical and subtropical regions of the world. India is the first largest producer of Mango among the world. and Uttar Pradesh ranks first in India. The ripe fruit pulp contains about 11.8 percent carbohydrates, 4800 IU of vitamin A, and 13 mg/100 mg ascorbic acid. The pulp is a rich source of beta carotene, sucrose, glucose and fructose.

Soil: Mango can be grown on a wide range of soils, but light to medium soil having good drainage with 5.5 7.5 pH suitable for cultivation. Avoid deep black, heavy, hardy rock, calcareous soil which is unsuitable for cultivation.

Climate: Generally Mango can grow all over India but dry weather is required for flowering and fruit setting. Mango crop required optimum temperature 24-27° C for growth and development of plants, 15° C for flowering, and 20° C for fruit setting. Required annual rainfall is 125 cm.

Production: At high density planting commercial production starts after the 4th year of plantation and yields approximately 12-15kg fruit/plant.

Pest: Thrips, Mealy bug, Stem borer, Mango midge, Fruit fly, Red spider mite

Disease: Powdery mildew, Anthracnose, Gummosis

Physiological disorders: Mango malformation (Abnormal growth of leaves, shoots and flowers)



Mango

Kesar

Variety: Kesar

Plantation date: 29-30/10/2023

Spacing: 6 x 12 feet (plant plant and row to row)

Plantation Area: 17 R

No. of plants: 272

Character of Kesar: Irregular bearer and high yielding variety. Fruit size Medium (270 gm), oblong shaped , sweet and fibreless pulp. Good keeping quality, so good for long transport and having good processing quality.

Production: At high density planting commercial production starts after the 4th year of plantation and yields approximately 12-15kg fruit/plant.



(Plantation Distance 14 x 8)

Sr. No	Name of work	Details	First year expenses	Second year expenses	Third year expenses	Fourth year expenses	Fifth year expenses	For all subsequent years
1	Test	Soil and water testing	700	0	0	0	0	0
2	Land preparation	Ploughing and rotavator (spacing, including crop)	4,000	2,000	2,000	2,000	2,000	2,000
3	Digging pit cost	388 x 20 Per pit plantation	7,760	0	0	0	0	0
4	Manure	(Per trolleys 5000)	10,000	0	10,000	0	20,000	20,000
5	Chemical fertilizer	200 Kg	3,000	3,000	3,000	5,000	6,000	7,000
6	The cost of seedlings	388 Plants x 40	15,540	0	0	0	0	0
7	Labour cost	Male & Female	3,000	3,000	3,000	4,000	4,000	5,000
8	Bamboo cost		2,000	0	0	0	0	0
9	Drip irrigation cost		20,000	0	0	0	0	0
10	Spraying cost	Pest and disease control	2,000	2,500	3,000	3,500	4,000	4,500
11	Harvesting cost	Fruit picking and transportation cost	0	0	0	5,000	7,000	9,000
12	Other cost		1,500	2,000	2,500	3,000	3,500	3,500
13	Total cost		69,500	12,500	23,500	21,500	35,500	40,000
14		Total original capital required for production	1,05,500					
15	Production	Fruit weight (tons)	0	0	0	5 Ton (10-12kg/plant)	7 Ton	9 Ton
16	Rate	Rs.	0	0	0	50	50	50
17	Total income	Rs.	0	0	0	2,50,000	3,50,000	4,50,000
18	Net profit	Minimum net profit after an average of two years (Total Production - Total Cost)	0	0	0	2,28,500	3,14,500	4,10,000
19	Intercropping production	Kharif soybean acre production (6 quintals x 4000)	24,000	24,000	24,000	0	0	0
20		Rabi Herbara acre production (4 quintals x 5000)	20,000	20,000	20,000	0	0	0
21		Intercropping production	44,000	44,000	44,000	0	0	0
22	Intercrop production costs	Kharif soybean	14,000	14,000	14,000	0	0	0
23		Rabbi Herbara	9,000	9,000	9,000	0	0	0
24		Intercropping costs	23,000	23,000	23,000	0	0	0
25	Intercrop production - production cost		44000-23000	44000-23000	44000-23000	0	0	0
	Intercropping net profit		21,000	21,000	21,000	0	0	0
26	Main Crop Net Profit After 3 Years		0	0	0	2,28,500	3,14,500	4,10,000
27	Note :The above planting is at a 14 x 8 feet spacing, but changes in spacing, as well as changes in management practices, land, soil-climate, market, etc., may result in higher cost and lower production							