



The Miyazaki mango is an exclusive, luxury fruit cultivated in Miyazaki Prefecture, Japan, renowned as one of the world's most expensive mango varieties. A subset of this fruit is branded as *Taiyo no Tamago* ("Egg of the Sun"), which fetches the highest prices at auction due to its immaculate appearance and superior quality

The packages of practices for growing Miyazaki mango furnished below

1	Scientific Name	The scientific name for the Miyazaki mango is <i>Mangifera indica</i> 'Miyazaki'
2	Characteristics of fruit	<ul style="list-style-type: none"><li>• Appearance: Unlike the common yellow mangoes, the Miyazaki variety has a striking, deep red-to-purple skin and is typically larger than standard mangoes. The highest-grade <i>Taiyo no Tamago</i> is perfectly colored, with a flawless red</li></ul>

		<p>surface.</p> <ul style="list-style-type: none"> <li>• Taste and texture: The golden-yellow flesh is known for its intense sweetness, rich flavor, and fragrant aroma. It has a creamy, juicy, and almost fiber less texture that melts in the mouth.</li> <li>• Grading: To qualify as a premium Taiyo no Tamago, the mango must meet strict standards:</li> <li>• Weigh at least 350 grams (12.35 ounces).</li> <li>• Have a high sugar content of 15% or more.</li> <li>• Be perfectly shaped with a blemish-free, deep red color covering at least two-thirds of the skin.</li> </ul>
3	Soil type	<p>Miyazaki mangoes thrive in well-draining, loamy or sandy-loam soil with a slightly acidic to neutral pH (around 5.5-7.5) and high organic content. The soil needs good drainage to prevent root rot and should be amended with compost to improve fertility</p>
4	Climatic requirements	<ul style="list-style-type: none"> <li>• Temperature: Maintain daytime temperatures between 25–35°C (77–95°F) and nighttime temperatures around 20°C (68°F). The variety cannot tolerate frost.</li> <li>• Sunlight: Provide at least 6–8 hours of direct sunlight daily for optimal growth and the development of the fruit's signature red color.</li> <li>• Growing environment: For commercial</li> </ul>

		<p>production or in non-ideal climates, cultivating the trees in a vinyl or poly greenhouse is essential to control temperature and humidity and protect the fruit from harsh weather.</p> <ul style="list-style-type: none"> <li>• <b>Humidity:</b> High humidity is favorable, but good air circulation is important</li> <li>• <b>Reflectors:</b> Use reflective panels or foil placed beneath the developing fruit to ensure uniform sunlight exposure. This technique helps the mangoes achieve their bright, even color</li> </ul>
5	Propagation and planting	<p>Propagation: Use grafted saplings for planting. Grafting ensures the tree will be "true-to-type" and bear fruit much faster than trees grown from seed (as early as 3 to 4 years)</p>
6	Plant spacing	<p>Spacing: In an orchard, space trees approximately 10–15 feet apart to allow for proper canopy spread.</p> <p>Pots: For container growing, use a pot or grow bag at least 18 inches in diameter to provide sufficient space for root development</p> <p>The number of Miyazaki mango plants per acre in India can range from approximately 40-60 for traditional orchards to over 600 for ultra-high-density plantations. The exact number depends on the farmer's chosen spacing, with common spacings including 10x10 meters (around 82</p>

		trees/acre), 5x5 meters (higher density), and much closer spacings like 3x2 meters (674 plants/acre) for ultra-high-density farming.
7	Fertilization:	<p>Use a balanced fertilizer, or one formulated for fruit-bearing trees, during the growing season (spring and summer).</p> <p>Apply a potassium-rich organic fertilizer to support fruit development.</p> <p>Fertilize every 6–8 weeks during the growing season. Reduce or stop fertilization in the winter when the tree goes dormant.</p> <p>Organic compost: A rich, organic soil mix can be created using well-rotted cow dung, sheep manure, and vegetable waste to provide essential nutrients</p>
8	Training and canopy management	<p>Fruit thinning: To produce large, high-quality fruit, thin the crop early in the season. Farmers in Japan may remove up to 80% of the budding fruit, leaving only a few per tree to concentrate the plant's nutrients.</p> <p>Pruning:</p> <p>Prune the tree immediately after harvesting to remove dead, diseased, or weak branches.</p> <p>Cut the terminal growth just below the last node to encourage new fruiting shoots for the next season.</p>

		<p>Prune regularly to maintain the tree's shape and open the canopy, allowing sunlight and air to penetrate.</p> <p>Fruit support: As the fruits develop, enclose them in nets and suspend them from the greenhouse ceiling. This prevents them from falling and protects them from bruising, allowing them to fully ripen on the branch</p>
9	Watering and pollination	<p>Watering: Water regularly, keeping the soil moist but not soggy, especially during the dry season and when fruits are developing. Reduce watering in the winter.</p> <p>Pollination: Renting bees for pollination is a practice used in Japan to ensure proper pollination and high-quality fruit set.</p>
10	Pest and disease management	<p>Pest control: Use organic pesticides like neem oil to deter common pests such as aphids, mealy bugs, hoppers, and fruit flies.</p> <p>Disease control:</p> <p>Maintain good sanitation by collecting and destroying infected leaves, flowers, and fruits.</p> <p>Use fungicides to control diseases like anthracnose and powdery mildew, especially during the flowering and fruiting stages.</p> <p>Ensure good air circulation within the canopy and greenhouse to prevent fungal diseases</p>
11	Harvesting	<p>Harvesting: The most unique harvesting practice for Miyazaki mangoes is never picking</p>

		<p>them by hand. The ripe mango is allowed to fall naturally from the tree into its protective net. This technique ensures the fruit is perfectly ripe and retains its flavor.</p>
12	<b>Maturity:</b>	<p>Miyazaki trees take about 3.5 to 5 years to start yielding high-quality, marketable fruit</p>
13	<b>Life span of tree</b>	<p>Miyazaki mango trees, like other mango trees, have a long lifespan, with a potential to live over 100 years, and some reaching over 300 years, while continuing to produce fruit throughout their lives with proper care. The lifespan of a specific tree depends on the cultivar, its growing conditions, and the care it receives.</p>
14	<b>Yield per tree</b>	<p>A Miyazaki mango tree's yield varies significantly with age, but mature trees (12-15 years old) can produce 150-200 kg (approximately 330-440 lbs) of fruit per year, while a younger 7-year-old tree might yield about 20 kg. Early yields are much lower, with a 3-4 year old tree producing only 2-3 kg.</p> <p>Here's a breakdown of yield by tree age:</p> <p><b>3-4 years old:</b> 2-3 kg (4-7 lbs)</p> <p><b>7 years old:</b> Around 20 kg (44 lbs)</p> <p><b>12-15 years old:</b> 150-200 kg (330-440 lbs)</p> <p><b>20-40 years old:</b> 200-600 kg (440-1,300 lbs) in an "on" (good production) year</p> <p>Factors influencing yield:</p>

		<p><b>Tree Age:</b> Yield increases significantly as the tree matures.</p> <p><b>Biennial Bearing:</b> Mango trees can alternate between "on" (high yield) and "off" (low yield) years, meaning you'll have a good crop one year and a poorer one the next.</p> <p><b>Cultivar:</b> There can be variation in yield depending on the specific type of mango.</p> <p><b>Environmental Conditions:</b> Optimal conditions, including climate and proper care, contribute to a better yield.</p> <p>Specifics of Miyazaki Mangoes</p> <p><b>High Value, Not High Volume:</b> Miyazaki mangoes are known for their premium status and high cost per kilogram, rather than their yield.</p> <p><b>Profitability:</b> High prices lead to significant potential profits for farmers.</p>
15	Source of planting material	<p>Online Options</p> <p><b><u>Salem Mango:</u></b></p> <p>A nursery offering premium-quality Miyazaki mango saplings with direct delivery across India, known for its dedication to quality.</p> <p><b><u>Rudra Agro Nursery:</u></b></p> <p>A well-known source in Pune, Maharashtra, providing high-quality Miyazaki mango saplings and offering detailed care instructions.</p> <p><b><u>Peppy Flora:</u></b></p>

		<p>An online nursery that offers Miyazaki mango trees among other fruit-bearing plants, with shipping to cities like Mumbai and Bengaluru.</p> <p><b><u>Amazon India:</u></b></p> <p>A convenient platform to purchase Miyazaki mango seeds and saplings from various sellers, offering fast delivery.</p> <p><b><u>Exotic Flora:</u></b></p> <p>An online store specializing in the Miyazaki mango, offering a specially grafted live plant for purchase.</p>
16	Cost per acre	<p>The cost of establishing a Miyazaki mango orchard can be high, estimated around ₹1.5 lakhs per acre in some cases. Other costs include high-quality saplings (which can also be expensive, with some sellers offering them at ₹2,500 each), specialized soil preparation (sandy loam with lime dust and neem powder), and meticulous care, all contributing to the overall investment for growing this luxury fruit.</p> <p>Key Factors Influencing the Cost</p> <p><b>Establishment Costs:</b></p> <p>Preparing the land, purchasing high-quality Miyazaki saplings (if available), and initial planting can represent a significant upfront investment.</p> <p><b>Soil Preparation:</b></p> <p>The recommended soil for Miyazaki mangoes</p>



		<p>is sandy loam enriched with lime dust and neem powder, adding to the overall preparation cost.</p> <p><b>Care and Maintenance:</b></p> <p>As a luxury and rare variety, Miyazaki mangoes require intensive and specialized care to maintain their unique quality and high standards.</p> <p><b>Specialized Farming Practices:</b></p> <p>Farmers often use advanced techniques, such as ultra-high density planting, which might further increase the investment but can lead to higher returns</p>
17	Profit per acre	<p>Profit per acre for Miyazaki mango farming can be exceptionally high, with reports in India of farmers earning ₹3 to ₹5 lakh from a typical selling price of ₹40-50 per kg, or even over ₹13 lakh in some cases, though a more realistic average might be in the range of 2.5 to 3 tonnes of yield per acre, translating to potentially high but variable returns. Actual profit depends heavily on local market prices, yield, and management practices.</p>
18	Weight of one fruit	<p>Weight Criteria</p> <p><b>Minimum Weight:</b> To be classified as a "Taiyo no Tamago," a Miyazaki mango must weigh at least 350 grams.</p> <p><b>General Range:</b> While the premium quality requires 350g, typical Miyazaki</p>

		<p>mangoes can vary in size, with reported ranges from 200 grams to over 650 grams.</p> <p><b>Maximum Potential:</b> Some sources indicate that Miyazaki mangoes can weigh up to 900 grams.</p>
19	Marketing	<p>Miyazaki mango marketing in India is primarily a niche luxury market, relying on a few high-profile luxury channels like gourmet stores, five-star hotels, and e-commerce platforms, with export to markets like Japan and the UAE also a possibility through agencies like APEDA</p>
20	Suitable for growing miyazi mango in Telangana	<p>Yes, Miyazaki mango cultivation is suitable and being successfully grown in Telangana, with farmers reporting breakthroughs in growing the world's most expensive mangoes in the state. While the region's climate and fertile soils are conducive to mango growth, specific care is required to manage the plant's susceptibility to pests and diseases, ensure proper drainage, and provide the necessary high humidity and sunlight for optimal yield</p>

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