



Cocos nucifera 'Malayan Dwarf' 'Malayan Dwarf' Coconut Palm¹

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INTRODUCTION

One of man's most useful plants (Fig. 1). The heavy crown of long flowing fronds and gently curved trunks of Coconut Palm lend a tropical effect to any landscape setting in which they can grow. A beautiful street tree, Coconut Palm is also ideal as a background tree, framing tree, or as a striking freestanding specimen. Coconut Palms located along streets, walkways or near patios require pruning to remove the flowers or developing fruit so it doesn't fall and cause injury or property damage.

GENERAL INFORMATION

Scientific name: *Cocos nucifera* 'Malayan Dwarf' Pronunciation: KOE-koase noo-SIFF-er-uh Common name(s): 'Malayan Dwarf' Coconut Palm Family: *Arecaceae*

USDA hardiness zones: 10B through 11 (Fig. 2) **Origin:** not native to North America

Uses: fruit tree; wide tree lawns (>6 feet wide); medium-sized tree lawns (4-6 feet wide);

recommended for buffer strips around parking lots or for median strip plantings in the highway; reclamation plant; narrow tree lawns (3-4 feet wide); specimen; sidewalk cutout (tree pit); residential street tree; tree has been successfully grown in urban areas where air pollution, poor drainage, compacted soil, and/or drought are common

Availability: generally available in many areas within its hardiness range

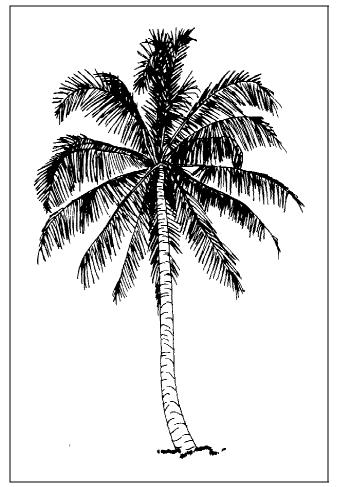


Figure 1. Middle-aged 'Malayan Dwarf' Coconut Palm.

DESCRIPTION

Height: 30 to 60 feet **Spread:** 15 to 25 feet

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Figure 2. Shaded area represents potential planting range.

Crown uniformity: symmetrical canopy with a regular (or smooth) outline, and individuals have more or less identical crown forms Crown shape: palm; upright Crown density: open Growth rate: medium Texture: coarse

Foliage

Leaf arrangement: spiral Leaf type: odd pinnately compound Leaflet margin: entire Leaflet shape: linear Leaflet venation: parallel Leaf type and persistence: evergreen Leaflet blade length: 18 to 36 inches Leaf color: green; yellow Fall color: no fall color change Fall characteristic: not showy

Flower

Flower color: white Flower characteristics: inconspicuous and not showy; spring flowering

Fruit

Fruit shape: oval; round (Fig. 3)
Fruit length: 6 to 12 inches
Fruit covering: dry or hard
Fruit color: brown; green; yellow
Fruit characteristics: does not attract wildlife; suited for human consumption; fruit, twigs, or foliage cause significant litter; persistent on the tree; showy

Trunk and Branches

Trunk/bark/branches: grow mostly upright and will not droop; not particularly showy; should be grown with a single leader; no thorns Pruning requirement: needs little pruning to develop a strong structure Breakage: resistant Crown shaft: no

Culture

Light requirement: tree grows in full sun Soil tolerances: clay; loam; sand; acidic; alkaline; well-drained Drought tolerance: high Aerosol salt tolerance: high Soil salt tolerance: good

Other

Roots: surface roots are usually not a problem Winter interest: no special winter interest Outstanding tree: not particularly outstanding Invasive potential: little, if any, potential at this time Verticillium wilt susceptibility: not known to be susceptible

Pest resistance: long-term health usually not affected by pests

USE AND MANAGEMENT

Due to the widespread devastation of lethal yellowing disease, use the resistant Malayan strains, often called dwarf or pygmy coconuts, and labelled yellow, golden, red, and green, according to the color of their fruits, such as 'Golden Malayan Dwarf'. The Malayan palms are very similar to the Jamaican Tall except for having straight trunks. The red strain is the most rugged of the three (more resistant to lethal yellowing) but has the least attractive foliage. Fronds have a distinct yellow cast to them and many people prefer the green frond types. Unfortunately, the green types are less resistant to lethal yellowing disease. It is best to purchase trees from a nursery that can assure you that the palms were grown from certified Malayan seed. The variety 'Maypan', a hybrid of Malayan x Panama Tall, has the most robust and rapid growth yet retains its resistance to lethal yellowing disease. It also grows well on poor sites. All Coconut Palms are highly salt-tolerant and make nice street trees if planted when they are tall enough. Be aware that falling fruit can damage vehicles or hit pedestrians and the flower stalks (in spring) or developing fruit (summer) may need to be removed.

Coconut Palms grow in full sun on any welldrained soils. Plants respond well to being fertilized. Malayan Dwarf selections require more fertilizer and may be more susceptible to palm aphids than Jamaican Tall coconut palms.

Propagation is by seed. The large coconuts, with outer husk, should be half-buried on their side in soil. Germination can take many months.

Pests

Nematodes may infest this palm.

Diseases

Lethal yellowing disease, virus diseases, and fungi all affect Coconut Palms. Be sure to only plant selections which are resistant to lethal yellowing disease. Ganoderma butt rot can infect the lower trunk and roots, and can kill the palm. Avoid injury to the palm in this area. There is no control for butt rot, only prevention.

