

Cooperative Extension Service Institute of Food and Agricultural Sciences

Tagetes erecta¹

Edward F. Gilman, Teresa Howe²

Introduction

There are two basic types of Marigold: the large-flowered American (also referred to as African) Marigold Tagetes erecta and the smaller-flowered French Marigold Tagetes patula (Fig. 1). A less well known species, Tagetes tenuifolia has small flowers and leaves than most other marigolds. Yellow, orange, golden or bicolored flowers are held either well above the finetextured, dark green foliage or tucked in with the foliage, depending on the cultivar. They brighten up any sunny area in the landscape and attract attention. As flowers die, they hang on the plants and detract from the appearance of the landscape bed. Cut them off periodically to enhance appearance. Marigolds may be used as a dried flower and are planted 10 to 14 inches apart to form a solid mass of color. Some of the taller selections fall over in heavy rain or in windy weather.

General Information

Scientific name: *Tagetes erecta* Pronunciation: tuh-JEE-teez ee-RECK-tuh Common name(s): American Marigold, African Marigold Family: *Compositae* Plant type: annual USDA hardiness zones: all zones (Fig. 2) Planting month for zone 7: Jun Planting month for zone 8: May; Jun Planting month for zone 9: Mar; Apr; Sep; Oct; Nov Planting month for zone 10 and 11: Feb; Mar; Oct; Nov; Dec Origin: native to North America Uses: container or above-ground planter; edging; cut flowers; border; attracts butterflies Fact Sheet FPS-569 October, 1999

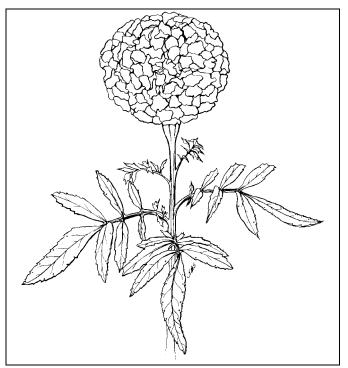


Figure 1. American Marigold.

Availablity: generally available in many areas within its hardiness range

Description

Height: 1 to 3 feet Spread: .5 to 1 feet Plant habit: upright Plant density: dense

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- 2. Edward F. Gilman, professor, Environmental Horticulture Department, Teresa Howe, coordinator Research Programs/Services, Gulf Coast REC, Bradenton, Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida, Gainesville, 32611.

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Figure 2. Shaded area represents potential planting range.

Growth rate: moderate Texture: medium

Foliage

Leaf arrangement: opposite/subopposite Leaf type: odd-pinnately compound Leaf margin: dentate Leaf shape: oblong Leaf venation: not applicable Leaf type and persistence: not applicable Leaf blade length: less than 2 inches Leaf color: green Fall color: not applicable Fall characteristic: not applicable

Flower

Flower color: orange; yellow; golden; bicolored Flower characteristic: showy

Fruit

Fruit shape: no fruit Fruit length: no fruit Fruit cover: no fruit Fruit color: not applicable Fruit characteristic: inconspicuous and not showy

Trunk and Branches

Trunk/bark/branches: not applicable Current year stem/twig color: green Current year stem/twig thickness: thick

Culture

Light requirement: plant grows in full sun Soil tolerances: clay; sand; acidic; loam Drought tolerance: Soil salt tolerances: unknown Plant spacing: 12 to 18 inches

Other

Roots: not applicable Winter interest: not applicable Outstanding plant: not particularly outstanding Invasive potential: not known to be invasive Pest resistance: very sensitive to one or more pests or diseases which can affect plant health or aesthetics

Use and Management

Provide a fertile soil and at least six hours of sun. Marigold holds up well during the hot summer days in north Florida if watered regularly. Mites and worms destroy the foliage in central and south Florida during the summer. Too much watering may cause dwarf types to rot. Too much nitrogen or shade causes leafy plants with few flowers. Marigold is suitable for summer use throughout the southeastern part of the country. Large plants may be transplanted if enough of the root system is dug up.

The seed germinates in one week at 70 to 75-degrees F. If the growing area is too hot the plants become leggy. Some horticulturists recommend setting the plants a little deeper than they were in the pot.

Many cultivars have been developed for flower color and plant size. One or more are usually available at local garden centers.

Mites are the most frequent pest on Marigolds especially during hot weather. The leaves lose their green color and severe infestations cover the plant with fine webbing.

Tarnished plant bug causes distorted flowers and leaves.

Leafhopper causes cupping and in-rolling of leaf margins. The petioles are twisted and the underside of infected leaves turn purplish as they are exposed to the sun. The branch tips and leaflets wilt and the leaflets turn yellow and dry. New shoots develop below the point of attack. Dwarf varieties are more severely infested than taller types. The repeated killing of the branch tips delays flowering.

Greenhouse leaf tier webs the leaves or flower buds together. The insect feeds on the underside of the leaves.

Slugs may be detected by the silvery slime trails they leave. Slugs can be controlled with slug baits used according to label directions.

Leafminers also can destroy the foliage.

Predatory mites and wasps have been used successfully for pest control.

Pests and Diseases

Botrytis blight causes the flowers to turn brown and decay especially in wet weather. A gray mold forms on the fading flowers. Pick off and destroy the infected flowers.

The same wilt which attacks China Aster may infect Marigold, particularly French and dwarf types. Infected plants wilt and die. Remove and destroy infected plants.

A leaf spot causes oval to irregular, gray to black spots on the leaflets. The spots may be speckled with black fruiting bodies. The disease starts on the lower leaves and progresses upward. Varieties of African Marigolds are most susceptible.

Stems infected with wilt and stem rot turn brown and shrivel at the soil line. The foliage wilts and the plant dies. African types are most susceptible. Remove and destroy infected plants.

Aster yellows is becoming more of a problem on Marigold. Control the insects which carry the disease.