Cosmos in the Garden

Summary

Cosmos is native to Mexico with daisy like flowers that come in an array of colors. It is referred to by its genus name which was derived from the Greek word ‘kosmos’, which means order, harmony, or the world. Mexican priests cultivated the flower and named it Cosmos because of the evenly placed and orderly petals. Cosmos is the flower for the birth month of October and symbolizes balance and harmony. It attracts butterflies and is easily used as an attractive border or backdrop plant. Cosmos is simple and easy to grow from seed sown in the spring, readily reseeds itself, and tolerates a wide range of soil types. Once established, Cosmos needs little water, no fertilizer and not much care, which makes it well suited to Utah’s climate.

Recommended Varieties

There are over 25 known species of Cosmos as well as numerous varieties and cultivars. Often referred to as Mexican Aster, it is a member of the Asteracea family. Two annual species most familiar to home gardeners include Cosmos sulphureus and Cosmos bipinnatus.

Yellow Cosmos (C. sulphureus) is native to the American meadows and grasslands and can range in height from 4 to 7 feet. Cultivated varieties include ‘Crest Red’, ‘Lady Bird Dwarf’ varieties, and ‘Klondike’. Cosmos bipinnatus is usually a mix of purple, pink, and white flowers and can range in size from 1 to 6 feet tall. Cultivated varieties of C. bipinnatus include ‘Candy Stripe Mix’, ‘Daydream’, and ‘Gazebo Mix’. Chocolate Cosmos (Cosmos atrosanguineus) has dark purplbrown flowers with a unique chocolate fragrance and deep rich color. There are many varieties for sale in local nurseries, garden centers, and seed catalogs. Most grow well in Utah.

How to Grow

Soils

Cosmos prefers well-drained soil with average to poor fertility with a neutral to slightly alkaline pH.

Soil Preparation

Because cosmos plants prefer poor soils, not much soil preparation is needed. Simply rake through the bed prior to seeding, loosening the soil and removing any weed material from the bed.

Plants

Grow plants from seed sown directly into the soil once all danger of frost has passed. Plant after soils are 65°F. Seeds germinate best at soil temperatures between 70-75°F and require 7 to 14 days to germinate. At temperatures above 80°F or below 60°F seed germination is reduced. Cosmos likes full sun, needing at least 8 hours of light. Cosmos is day-length sensitive and blooms best in late summer, when days get shorter.

Planting and Spacing

Plant seeds 1/8 inches deep. Scatter on soil surface then lightly raking them into the soil. If planted deep, germination is reduced. Keep the soil moist after seeding. Thinning is not necessary though plant size is improved with more space. A plant spacing of 1-2 feet apart is recommended; however, cosmos spaced closer together provide support for one another or create a screen or full backdrop in the garden.

Water

Once seedlings emerge, reduce water to one time per week, watering deeply. Cosmos thrives in drier areas of the garden and blooming is reduced if overwatered or managed.

Fertilization

Do not fertilize cosmos. Nutrient rich soil produces plants that are weak-stemmed (floppy), late blooming and flower sparsely. Avoid soil that have been heavily amended with fertilizer and compost.
Problems

Very few production problems are associated with Cosmos. The most likely problem is its ability to selfseed. Cosmos is referred to as a weed due to heavy seed production and self-sowing. To avoid this issue, plant in an area where you want it to naturally reseed. Encourage re-blooming by deadheading (removing dead blooms) or by trimming plants back to 12-18 inches high. Deadheading spent blossoms promotes heavy flowering throughout the season and may reduce self-sowing. Plants will be back in bloom in a month.

Weed control is important during germination and early establishment. Once plants are established, weed competition is rarely a problem. Few insects and diseases affect Cosmos.

Harvest and Storage

To harvest Cosmos, cut stems of complete flowers in full bloom. Blooms can be harvested throughout the season. The stems and flowers of Cosmos make a very nice cutting plant that can be used in arrangements or dried. To store seeds, dry flowers completely, then remove seeds from heads and place in a paper bag in a cool dry location. Cosmos readily reseeds itself, so it may be unnecessary to save seeds.

Dry the blooms in a well ventilated area, away from sunlight or use a food dryer. Flowers should dry in 1 to 5 days when dried naturally. Store blooms in a moisture tight container in a cool, dark place.

Uses

Ornamental uses of Cosmos include cut flowers and as backdrop or border annual. Cosmos has a pleasant aroma and attracts butterflies to the garden. Small finches are attracted to the seeds. Cosmos can be used to attract beneficial insects to the garden including lacewing, tachnid flies, hoverflies, and various parasitic miniwasps, all which prey on destructive insects.

Medicinally, Cosmos has been used to treat jaundice, fever, and other disorders. There is little evidence of medicinal uses for this plant, though some suggest Cosmos has antioxidant properties and has a protective effect against oxidative DNA damage.

References