

Cosmos bipinnatus Casanova

Life cycle	Annual
Family / Origin	Asteraceae / South America
Popular uses	Outdoor containers, pots and suitable for landscape beds and garden
Mature plant height	35-40 cm (14-16")
Mature plant width	30-35 cm (12-14")
Pot size	10-15cm (4-6") pots and large containers
Plants per pot	1 plant in 10-15 cm (4-6") pot 3-4 plugs in gallon pots or larger pots
Sun exposure	Sun
Water requirements	Reduced, avoid wet conditions
Flowering time	Spring, late summer
Media	Use a well-drained, growing substrate with 20-30% clay, 1-2 kg/m ³ complete balanced fertilizer, iron-chelate, micro nutrients pH 5.5-6.2 EC 0.7-1.5 (105-225 ppm N)
Growing temperature	Start at 18-20°C (64-68°F) Lower the temperature after rooting at 15-18°C (59-64°F) Avoid wet conditions at night
Light	Casanova is day length neutral, so will flower under long and short day conditions
Fertilizer needs	Balanced N:P:K fertilizer as needed recommended Use calcium based with extra magnesium fertilizers EC 1.8-2.2 (270-330 ppm N)
Crop time	12-16 weeks



Description

Casanova has a compact upright plant habit with finely divided, bright green leaves and large, single flowers

Growth regulators

Growth regulators (PGR) can be applied depending on type of culture
With its compact plant habit, Casanova requires less PGR than other varieties
Some colors do react more on PGR
Casanova is responsive to Daminozide (Dazide- B-nine) and Paclobutrazol (Bonzi)

Common diseases

Pythium, Botrytis, Fusarium, Rhizoctonia

Common pests

Aphids, Caterpillars, Whitefly and Leaf Minors

Pinching

No need, although frequent cutting will enhance re-growth

Hardiness zone

N/A

Plug Production

Seed forms	Raw
Seed count	120-150 seeds/gram (3.400-4.250 seeds/oz); varies by lot!
Recommended plug size	264-128
Seeds cell	1-3 seeds per plug
Vermiculite cover	Light cover vermiculite will help keeping moisture levels up
Stage 1 Germination	Germination 5-8 days Moisture: keep medium saturated Maintain relative humidity levels of 90-95 % Growing medium temperature: 22-25°C (72-77°F) Fertilizers: well-balanced fertilizers, EC 0.5-1.0 (75-150 ppm N)
Stage 2 Stem and cotyledon	Reduce moisture levels to obtain optimum root penetration and to prevent fungal diseases Prevent wet foliage after nightfall Temperature: 18-20°C (64-68°F) EC 0.5-1.0 (75-150 ppm N)
Stage 3 Growth and development	Moisture: reduce moisture levels and allow medium to dry between watering Do not allow plants to wilt Temperature: 15-18°C (59-64°F) Fertilizers: EC 1.4-1.8 (210-270 ppm N)
Stage 4 Ready for transplanting	Moisture: reduce moisture levels and allow medium to dry between watering Do not allow plants to wilt Temperature: 15-18°C (59-64°F) Fertilizers: see stage 3
Plug crop time	4-5 weeks
Approximate finish time	8-11weeks
Special tips	<ul style="list-style-type: none"> • 3 to 4 plants in a pot, especially early in the season, creates more flower power at time of sale. For big containers, 4 plants per container is always recommended • Sowing in January-March in containers of 10.5 cm (4") and larger, results in marketable plants after 10-12 weeks. First flowering will be 13-16 weeks after sowing (depending on location and pot size) • Sowing in April-June will result in plants blooming in summer. Crop time will be shorter (11-14 weeks). This is due to the temperature, as Casanova is not sensitive to day length