

Cosmea bipinnatus, Cosmos 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	10-15 cm (4-6") pots and large containers
Plants per pot	1 per 10-15 cm (4-6") 3-4 plugs in gallon pots or larger
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, micronutrients. pH 5.5-6.2 EC 0.7-1.5 (100-175 ppm)
Growing temperature	Start at 18-20°C (64-68°F) Lower the temperature after root at 15-18°C (59-64°F) avoid wet conditions at night
Light	Casanova has low day-length sensitivity and will flower in long and short day conditions. The Casanova is indeed more Day neutral
Fertilizer needs	Balanced N:P:K fertiliser as needed recommended, use calcium based with extra magnesium fertilizers instead EC 1.8-2.2 (100-200 PPM)
Crop time	13-16 weeks
Hardiness zone	N/A



Casanova

Growth regulators

Growth regulators (PGR) can be applied depending on type of culture. As Casanova is genetically compact, it requires less PGR than other varieties, be careful when used to much PGR they will be too compact. Some colors do react more than others. Cosmos is responsive to Daminozide (Dazide-B-nine) Paclobutrazol (Bonzi)

Common Diseases

Pythium, Botrytis, Fusarium, Rhizoctonia

Common Pests

Aphids, Caterpillars, White Fly and Leaf minors

Pinching

No need, although frequent cutting will enhance re-growth

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Plug Production



Seed forms	Raw
Seed count	150 sds/gr (4,200 sds/oz) <i>Varies by lot!</i>
Recommended plug size	264-128
Seeds cell	1-3 seeds 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%. Temperature: 22-25°C (68-72°F) medium temperature Fertilizers: A well-balanced fertilizers EC 0,5-1.0 (50-75 ppm)
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 (65-68°F) Fertilizers: EC 0.5-1.0 (50-75 ppm)
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 (60-65°F) Fertilizers: EC 1.4-1.8 (100-150 ppm)
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 (60-65°F) Fertilizers: see stage 3
Plug crop time	4-5 weeks
Approximate finish time	8-11 weeks
Special tips	Plants per pot In general it was always 1 plant per pot but nowadays there is a tendency to use 3 to 4 plants in a pot specially early in the season. This will give a pot with more flowers open when they are sold. The bigger container you should always use 4 plants per container. Crop scheduling • January-March Sowing will result in saleable plants in containers (10,5 cm (4" and up) after 10-12 weeks with first flowering 13-16 weeks after sowing, depending on location and pot size. • April-June Sowing will result in plants blooming the Summer crop time will then be shorter from sowing about 11-14 weeks this is due to the temperature as the Casanova is not sensitive to day-length