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Helianthus annuus

## Soraya

- Lateral branching
- Flower Size 4" (10 cm)
- Thick sturdy stem

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### **Crop Time**

Spring: 10 - 12 weeks

**Height**

61 ? / 155 cm

**Exposure**

Sun

**Seed Form**

Raw Seed

**Best Uses**

Bedding, Cutflower

## Culture guide

**Usage**

Plants for bedding, cut flower production

**Sow time**

Indoor forcing: March-August, sowing in intervals; Outdoor forcing: April-Mid July

**Sowing method**

1-2 seeds per plug, sowing directly into field is recommended

**Germination**

Field: 10-15 days at 15 °C, Greenhouse: Stage I: 5-10 days at 21-24 °C, Stage II: 5-8 days at 18-20 °C, Stage III and IV: 7-14 days at 15-17 °C, in media with low soluble salt levels and pH: 5.5-6.2. Cover seed with vermiculite, sand or substrate after sowing. Keep soil slightly moist but not wet. Field: sow the seeds 3-4 cm deep.

**Growing on**

Plant cut flowers in 5-10x40-70 cm space, approximately 30-35 plants per m<sup>2</sup>.

## Media

Field: Before sowing treat substrate with herbicide or fight the weeds mechanically and fertilize the field. Greenhouse: Use a well-drained, growing substrate with 15-30 % clay, 1-3 kg/m<sup>2</sup> complete balanced fertilizer, 0-2 kg/m<sup>2</sup> slow release fertilizer (3-6 months), Fe-chelate, micronutrients, pH: 5.5-6.2.

## Temperature

Field: cultivation is possible from April onwards. Grow at 15-18 °C. Cultivate flowering plants not below 12 °C. Helianthus plants do not tolerate frost.

## Fertilization

Field: N min soil value: approximately 150 g/m<sup>2</sup>. Greenhouse: High fertilization levels are required.

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Stage I Starts with the radicle breaking through the testa. The roots are touching the medium. Ends with fully developed cotyledons.

Stage II Starts from fully developed cotyledons. Ends with the fully developed true leaf or true leaf pair.

Stage III Starts from the fully developed true leaf or true leaf pair and ends with 80% of the young plants being marketable.

Stage IV All young plants are ready for sale and in the process of being hardened off. This stage lasts about 7 days.

The cultural recommendations are based on results from trials conducted under Central European conditions. Different conditions in other parts of the world may lead to deviations in results achieved.

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