

Helianthus annuus

Musicbox

Sunflower

Culture guide

Uses:

Plants for bedding, cut flower production

Exposure:

Sun

Garden height:

30" / 75 cm

Crop time:

10-12 weeks

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:

5 days at 65-75 °F (18-24 °C). Stage II 70 °F (21 °C). Supplemental lighting during germination and plug production to control seedling stretch is beneficial to overall crop quality. For Stage III & IV reduce temperatures to 62 °F (17 °C), and begin feeding at 100-150 ppm nitrogen.

Growing On:

Direct sow seed or transplant at two true leaf stage. Continue feeding at 100 ppm nitrogen weekly. Maintain temperatures above 62 °F (17 °C) for improved branching and overall quality. Fertilize weekly at 200-250 ppm nitrogen. Avoid excessive phosphorus.

Media:

Field: Before sowing treat substrate with herbicide or fight the weeds mechanically and fertilize the field. The seeds should develop without any plant concurrence. Standard fertilization: 100-120 g/m² of a slow release fertilizer. Greenhouse: Use a well-drained, growing substrate with 15-30 % clay, 1-3 kg/m³ complete balanced fertilizer, 0-2 kg/m³ slow release fertilizer (3-6 months), iron-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/m².
Avoid high nitrogen levels in soil. Temperatures below 10 °C can be a cause for iron and phosphate deficiency.

Greenhouse: High fertilization levels are required. Fertilize the crop weekly with 200-250 ppm nitrogen, using a potassium balanced fertilizer (N: K₂O-ratio: 1:1,5). Avoid high ammonium and high nitrogen levels. Prevent magnesium deficiency by applying magnesium sulphate (0,05 %)

1-2 times and in case of iron deficiency apply iron-chelate for 1-2 times.