Sunflower
Swati - NSFH 145

Morphological Features:
- Plant Height: 160 - 180 cm
- Duration: 92 - 98 days
- Head: Large compact, fully convex head with good seed filling
- Grain Type: Black seed with gray stripes
- Oil Content: 41 - 43%
- Disease Tolerance: Moderately tolerant to Necrosis and Alternaria

Special Features/USPs:
- High oil content (43%)
- Moderately tolerant to Necrosis and Alternaria

Shreshta - NSFH 36

Morphological Features:
- Plant Height: 140 - 160 cm
- Duration: 85 - 90 days
- Head: Big flat to convex head bending at maturity
- Grain Type: Black seed with faint white stripes
- Oil Content: 40 - 41%
- Disease Tolerance: Moderately tolerant to Alternaria and Rust

Special Features/USPs:
- Moderately tolerant to Alternaria and Rust
Package of Practices

Sowing time:

Rainfed: September – 1st fortnight of October

Irrigated: November

Summer: 15th January to 1st week of February

Soils: Well drained sandy loams, black soils and alluvial soils are suitable. Water logged areas should be avoided.

Seed rate:

Rainfed: 2.5 kg/acre

Irrigated: 2 kg/acre

Spacing: 45 x 30 cms for light soils and 60 x 30 cm for heavy soils.

Thinning: Maintain a single seedling/hill at 10-15 days after germination.
**Manure and Fertilizer:** FYM 4 tons/acre 2-3 weeks prior to sowing should be applied. 25 kg N, 25 kg P₂O₅ and 12 kg K₂O for rainfed and 25 kg N 35 kg P₂O₅ and 12 kg K₂O for irrigated/acre should be applied. Nitrogen should be applied in three splits - basal (at the time of sowing), 30 days after sowing and 55 days after sowing while P₂O₅ and K₂O should be applied at the time of sowing.

**Sulphur:** Sulphur 8 Kg/acre may be applied through Ammonium Sulphate or single Super Phosphate or any complex fertilizer containing Sulphur for increasing the oil content in the seed.

**Boron:** Borax or Solubar 2gms/ltr. of water may be sprayed at ray floret opening stage, for increasing seed filling, yield and oil content.

**Water Management:** Critical stages of irrigation - button, flowering and grain filling stages.

**Weeding and Inter-cultivation:** Pendamethalin 1 ltr. in 200 ltr. of water as pre-emergence spray followed by two times Danti (Blade harrow) with fifteen days interval.

**Supplemental Pollination:** Effective pollination can be achieved by maintaining two bee hives/acre. Supplemental hand pollination on alternate days preferably in morning hours for 2 weeks should be done wherever bee activity is low.

**Harvesting:** Crop can be harvested when back side of the head turns to lemon yellow color. Moisture content can be reduced up to 8 to 10% by drying the heads before threshing for 2-3 days.

**Sucking Pests:** Monocrotaphos @ 1.6 ml/ltr. or Acephate 1.0 G/1 ltr. can be sprayed.

**Leaf Eating Caterpillars:** Chloropyrifos @ 2.5 ml/ltr. or Acephate 1.5 g/ltr. can be sprayed.

**Heliothis:** NPV 200 ltr/acre can be applied.

**Disease Management**

**Downy Mildew:** Copper Oxychloride 3g/ltr. can be sprayed.
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