

SAFFLOWER INSECTS

Safflower may be infested from the time of emergence to maturity by various insect pests. The most susceptible periods is the bud to flower stage. Fields should be examined regularly and controls applied when infestations are damaging.

CUTWORMS

Several species of cutworms (*Agrotis* spp.) attack safflower. Cutworms are caterpillars that live below ground and cut off seedling at or just below the soil line. Areas in the field are often barren following cutworm feeding. If sufficient plants are present, safflower can compensate for some seedling loss. If damage is severe, protection of seedlings with insecticide may be necessary. There is no known economic threshold for cutworms in North Dakota.

Insecticides registered for controlling cutworms in safflower

INSECTICIDE	DOSAGE IN LB AI/ACRE	PRODUCT PER ACRE	RESTRICTIONS ON USE
zeta-cypermethrin Mustang Max EC <i>RUP</i>	0.025	4 fl oz	PHI = 7 days. Do not apply more than 0.075 lb ai per acre per season. Do not make applications less than 14 days apart. Apply with ground or air equipment using sufficient water and application methods to insure through coverage of foliage. Apply in water using a minimum of 15 gallons of finished spray per acre.

RUP - Restricted use pesticide

WIREWORMS

Wireworms, although often serious pests of cereal grains in the seedling stage, seldom damage safflower. Imidacloprid and thiamethoxam are labeled as commercial seed treatment and use decisions must be made at time of seed purchase. Please the seed treatment section in the introduction for more information.

INSECTICIDE	DOSAGE IN LB AI/ACRE	PRODUCT PER ACRE	RESTRICTIONS ON USE
imidacloprid Gaucho 600	refer to recommended label rate		Follow all applicable directions, restrictions and precautions on the EPA registered label.
imidacloprid Dyna-Shield Imidacloprid 5	refer to recommended label rate	12.8 fl oz per cwt of seed	Follow all applicable directions, restrictions and precautions on the EPA registered label.
imidacloprid Senator 600	refer to recommended label rate	12.8 fl oz per cwt of seed	Follow all applicable directions, restrictions and precautions on the EPA registered label.
thiamethoxam Cruiser 5FS	refer to recommended label rate		Follow all applicable directions, restrictions and precautions on the EPA registered label.

Safflower