


مدیریت آفات آفتابگردان
Sunflower pests management

Sunflower growth stage							Pest management strategies
	Pest	Emergence (VE)	Four leaves (V4)	Multi-leaves (Vn)	Bud formation (R2-R3)	Flowering (R5-R6)	
Cutworms	<i>Agrotis segetum</i>						Deep plowing after harvest, Winter flooding, Use of Poisonous baits (mix of insecticides and wheat bran), Spraying with insecticides at the end of the day.
Sunflower beetle	<i>Zygogramma exclamationis</i>						Deep plowing, Timely cultivation, Rotation, Seed treatment or spraying with suitable insecticides such as thiamethoxam or imidacloprid.
Aphids	<i>Macrosiphum euphorbiae, Aphis helianthi</i>						Timely cultivation, Weeds control, Seed treatment or spraying with suitable insecticides, Tolerant or resistant varieties.
Two spotted spider mite			<i>Tetranychus urticaea</i>				Weeds control, Rotation and Stubble management, Proper nutrition, Spraying with suitable miticides.
White fly			<i>Bemisia tabaci</i>				Timely cultivation, Weeds control, Rotation and Stubble management, Spraying with suitable insecticides.
Leaf-feeding larva	<i>Spodoptera spp, Plusia gamma</i>						Deep plowing after harvest, Winter flooding, Weeds control, Spraying with insecticides at the end of the day.
Stem weevil				<i>Cylindrocopturus adspersus</i>			Winter plowing, Timely cultivation, Spraying with suitable insecticides.
Eurasian sunflower moth				<i>Homocerosoma nebulella</i>			Deep plowing after harvest, Winter flooding, Spraying with suitable insecticides at flowering stage. Use of Bracon parasitoid.
Seed weevil				<i>Smicronyx spp</i>			Timely cultivation, Spraying with suitable insecticides.
Birds	<i>Birds</i>					<i>Birds</i>	Bird guard, Acoustic or chemical repellents.