

## Wheat

Pest Name	Frequency Range (Hz)	Location in Crop	Danger Level	Pesticides to Use	Dosage & Timing
Stem Borer	50-200	Stems	High	Cypermethrin 10% EC	1 ml/L, Spray at 30 days after sowing
Aphids	150-200	Leaves	Moderate	Imidacloprid 17.8% SL	0.5 ml/L, Spray when aphids appear
Armyworm	50-200	Leaves	High	Lambda-cyhalothrin 5% EC	1 ml/L, Spray during early larval stage
Termites	100-1000	Roots	Moderate	Chlorpyrifos 20% EC	2.5 ml/L, Soil drenching
Wheat Thrips	200-500	Leaves	Moderate	Spinosad 2.5% SC	1 ml/L, Spray at infestation onset

## Rice

Pest Name	Frequency Range (Hz)	Location in Crop	Danger Level	Pesticides to Use	Dosage & Timing
Brown Planthopper	225-281	Stem Base	High	Buprofezin 25% SC	2 ml/L, Spray at early infestation
Stem Borer	50-200	Stems	High	Chlorantraniliprole 18.5% SC	0.4 ml/L, Early infestation stage
Leaf Folder	80-300	Leaves	Moderate	Cartap Hydrochloride 50% SP	1 g/L, Spray when leaves curl
Gall Midge	100-300	Stem Nodes	High	Fipronil 5% SC	1 ml/L, Apply at early infestation
Rice Hispa	50-150	Leaves	Moderate	Imidacloprid 17.8% SL	0.5 ml/L, Spray when symptoms appear

## Sugarcane

Pest Name	Frequency Range (Hz)	Location in Crop	Danger Level	Pesticides to Use	Dosage & Timing
Early Shoot Borer	30-100	Shoots	High	Chlorpyrifos 20% EC	2.5 ml/L, Spray at early stage
Top Shoot Borer	50-80	Top Shoots	Moderate	Emamectin Benzoate 5% SG	0.4 g/L, Spray at infestation
Pyrilla	200-300	Leaves	High	Acephate 75% SP	1 g/L, Spray at initial attack
White Grubs	20-100	Roots	Moderate	Metarhizium anisopliae (biopesticide)	Apply at root zone
Internode Borer	30-80	Stem Internodes	High	Triazophos 40% EC	1.5 ml/L, Spray during infestation

## Maize

Pest Name	Frequency Range (Hz)	Location in Crop	Danger Level	Pesticides to Use	Dosage & Timing
Fall Armyworm	50-200	Leaves	High	Chlorantraniliprole 18.5% SC	0.4 ml/L, Apply at early stage
Root Aphids	100-250	Roots	Moderate	Imidacloprid 17.8% SL	0.5 ml/L, Soil application at planting
Corn Earworm	30-80	Ears	High	Spinosad 45% SC	0.3 ml/L, Spray at silk stage
Shoot Fly	100-250	Shoots	Moderate	Thiamethoxam 25% WG	0.25 g/L, Seed treatment before sowing
Stalk Borer	50-200	Stems	High	Carbofuran 3% GR	5 kg/acre, Apply at early infestation

## Coconut

Pest Name	Frequency Range (Hz)	Location in Crop	Danger Level	Pesticides to Use	Dosage & Timing
Rhinoceros Beetle	20-100	Leaf Axils	High	Carbaryl 50% WP	2 g/L, Apply on leaf bases
Red Palm Weevil	20-150	Trunk	High	Lambda-cyhalothrin 5% EC	2 ml/L, Spray into infested holes
Black-headed Caterpillar	50-90	Leaves	High	Chlorpyrifos 20% EC	2.5 ml/L, Spray at early attack
Coconut Mealybug	100-200	Leaves	Moderate	Imidacloprid 17.8% SL	0.5 ml/L, Spray thoroughly
Slug Caterpillar	50-200	Leaves	Moderate	Neem Oil 1%	3 ml/L, Weekly spray during peak infestation

## Mustard

Pest Name	Frequency Range (Hz)	Location in Crop	Danger Level	Pesticides to Use	Dosage & Timing
Aphids	150-200	Leaves	High	Imidacloprid 17.8% SL	0.5 ml/L, Spray when aphids appear
Painted Bug	100-200	Pods	Moderate	Malathion 50% EC	1 ml/L, Spray at pod formation stage
Mustard Sawfly	50-200	Leaves	Moderate	Chlorpyrifos 20% EC	2 ml/L, Spray during early infestation
Leaf Miner	100-300	Leaves	Moderate	Spinosad 2.5% SC	1 ml/L, Spray at early attack
Flea Beetle	100-150	Leaves	Moderate	Thiamethoxam 25% WG	0.3 g/L, Spray when beetles appear

## Cotton

Pest Name	Frequency Range (Hz)	Location in Crop	Danger Level	Pesticides to Use	Dosage & Timing
American Bollworm	30-80	Bolls	High	Spinosad 45% SC	0.3 ml/L, Spray at flowering stage
Whitefly	100-400	Leaves	Moderate	Neem Oil 1%	3 ml/L, Weekly spray
Pink Bollworm	30-100	Bolls	High	Chlorantraniliprole 18.5% SC	0.4 ml/L, Apply at early attack
Jassids	80-300	Leaves	Moderate	Imidacloprid 17.8% SL	0.5 ml/L, Spray at initial signs
Cotton Mealybug	100-200	Stem & Leaves	Moderate	Acephate 75% SP	1 g/L, Spray during infestation