

BIOEFFICACY OF AGRINEEM

Compiled by
Dr. Ilangovan Ramasamy, Ph.D

AGRINEEM (Cold Press Neem Oil Formula)

AGRINEEM is a wonder biocide with the combined effect of azadirachtin and other limonoids. **AGRINEEM** is made from fresh neem seed kernals by solvent extaction to derive active compounds and stabilize the principle ingredients like Azadirachtin(a.i.) and other triterpenoids with solvents and emulsifiers and it is distinctly different from Neem Oil based formulation.

AGRINEEM is available in three formulations viz., 300ppm, 1500ppm and 3000ppm Azadirachtin[Aza] maintained on the basis of HPLC assay. Among the multiples of ingredients, Aza, the major ingredient in our product is one of the most effective constituents of the neem seeds which displays an array of effects such as a phago-deterrent, oviposition deterrent, repellent, anti-feedant, growth retardant, molt-inhibitor and sterilant on a large species of insects. It has practically no toxic effect to warm-blooded organisms including man. It is effective on more than 300 species of insect pests that infests crops and totally eco-friendly without affecting natural predators of pests with proven zero effect on beneficial insects.

AGRINEEM is suitable for crops like Tea, Vegetables, Spices, Fruits, Flowers etc. where the use of residue free biopesticide is statutory. **AGRINEEM** ensures easy absorption by the plants when sprayed by formulating the active ingredients in a fine micro emulsion form. **AGRINEEM** ensures easy absorption by the plants when sprayed by formulating the active ingredients in a fine micro emulsion form. From the economical and eco-toxicological standpoint only about 20-50 gms of the active ingredient i.e. Aza, is sufficient to treat an hectare of area to achieve satisfactory reduction in pest population. The products are biodegradable and eco-friendly in that they are photo-degradable and decompose in about a week.

Crops and Common Pests Controlled by **AGRINEEM**

CEREALS

Crop	Pests
Rice	Tissue borers Gundhi Bugs Paddy gall fly Rice hispa Blue leaf beetle Paddy caseworm Swarming caterpillar Armyworms Rice grasshoppers Paddy jassids White leaf hopper Fulgorid bug Paddy thrip Whorl maggot Paddy mealy bug Rice-toot aphid Paddy leaf-roller Paddy skippers Paddy root weevil

Crop	Pests
Ragi	Ragi stem borer Ragi white borer Black hairy caterpillar Lucerne caterpillar Ragi-root aphid Ragi jassid Surface grasshopper

Crop	Pests

Crop	Pests
Wheat	Termites Stem-borer Gujhia Weevil Cutworms Armyworm Thrip Wheat aphids Surface grasshoppers Shoot fly

Crop	Pests
Maize	Stem borers Phadka grasshopper Hairy caterpillars Aphid Termites Grey Weevils Shoot fly Army worm

Crop	Pests
Bajra	Blister beetles Leaf roller Shoot fly Bajra midge

Crop	Pests

Green Gram Red Gram Black gram Cow pea	Galerucid beetle Jassid Plume moth borer Gram pod fly Hairy caterpillar Cowpea stem fly Aphids Whitefly Sphinx moth Leaf caterpillars Gram pod borer
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Gram Pea	Gram Caterpillar Other Pod borers Cut worms Pea leaf miners Pea stem fly Pea semi-loopers Blue butterfly Lucerne caterpillar Gujhia Weevil
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Crop	Pests
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FRUIT CROPS

Crop	Pests
Almond	Almond Weevil Aphids Almond beetle Peach borer San Jose Scale

Crop	Pests
Apple	San Jose Scale Wooly aphid Root borer Tent caterpillar Leopard moth Apple blossom Leaf-defoliating Apple leaf-rollers Apple hawk moth Apple leaf-miner Blossom thrip Hairy caterpillars Indian Gypsy moth

Crop	Pests
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Apricot	Indian Gypsy moth Apricot chalcid Apricot Weevil Grey Weevils Apricot Chafer Peach borer Leaf rollers Scale insects
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Crop	Pests
Banana	Root Stock Weevil Stem Borer Banana Beetle Banana aphid Cotton aphid

Crop	Pests
Ber	Ber fruitfly Ber mealy bug Ber weevils Bark eating caterpillar Mites

Crop	Pests
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Citrus	Lemon Butterfly Citrus Leaf miner Citrus whiteflies Citrus psylla Fruit sucking moths Fruit flies Bark eating caterpillars Stem & Shoot boers Scale insects Aphids Citrus mites
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Crop	Pests
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Crop	Pests
Fig	Mango stem borer Longicorn beetle Fig leaf-defoliator Fig leaf-rollers Fig midge Fig leaf caterpillars Fruit flies Cockchafer beetles Scale insects Mites

Crop	Pests
Grapevine	Flea beetle Cockchafer beetles Thrips Scale insects Vine-girdler beetle Leaf roller Jassids Mites

Crop	Pests
Guava	Scale insect Fruit flies Bark-eating caterpillar

Crop	Pests

Custard Apple	Mealy bugs Fruit flies Fruit boring caterpillars Scale insect.
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Crop	Pests
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Phalsa	Mango mealy bug Flea beetle Phalsa beetle Phals caterpillar Phalsa bugs Bark-eating caterpillar
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Jack Fruit	Shoot borer Jack Bud weevil Mango mealy bug
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Crop	Pests
Jamun or Black plums	Bark eating caterpillars Mulberry bug Jamun leaf roller Hairy caterpillars White flies Scale insects Thrips

Crop	Pests
Litchi	Bark eating caterpillar Mango mealy bug White flies Plum Weevil Peach leaf-roller Anar butterfly Litchi worm Litchi mite

Crop	Pests

Loquat	Fruit fly Bark eating caterpillar Scale insects Loquat thrip Cockchafer beetle Grey Weevils Anar butterfly
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Crop	Pests
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Crop	Pests
Melong	Pumpkin beetles Cotton aphid Melon fruit flies Blister beetles Leaf caterpillars

Crop	Pests
Papaya	Stem borer Fruit flies Ak Grasshopper Coccids Cotton whitefly

Crop	Pests
Peach	Aphids Peach borer San Jose scale Peach Scale Peach bugs Fruit flies Peach twig borer peach leaf roller Hairy caterpillar Anar whitefly

Crop	Pests
Pineapple	Mealy bug

Mango	Mango hoppers Mango mealy bug Fruit flies/ Mango stem borer Bark eating caterpillars Mango shoot gall Leaf cutting Mango leaf gall Mango gall midge Nut/stone Weevils Red ants Termites Mango Scale insects Mites
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Crop	Pests
Plum	Plum Weevil Plum beetle San Jose Scale Hairy caterpillar Peach-borer Leopard moth

Crop	Pests
Pomegranate	Anar butterfly Scale insects Anar whitefly Grey weevils Hairy caterpillars Mite

Crop	Pests
Sapota	Scale insects Chikoo moth Thrip Fruit flies Anar butterfly Bark eating caterpillar

Crop	Pests
Singhara or Water-nut	Singhara beetle Blue beetle

Vegetables

Crop	Pests
Brinjal	Shoot & fruit borer Bud worm Leaf eating beetles Leaf caterpillars Mealy bug Lace wing bug Jassids Cotton aphids Mites

Crop	Pests
Chilles	Chilli thrip Pod-borer Leaf-eating caterpillar Cotton aphid Mites

Crop	Pests
Cluster Bean	Aphid

Crop	Pests
Cabbage	Diamond back moth Aphids Bihar hairy caterpillar Mustard Saw fly Painted bug Leaf webbing caterpillar Cabbage borer Termites Cabbage butterfly Mites

Crop	Pests
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Crop	Pests
Carrot	Aphids Onion thrip Cabbage borer Pea semi looper Flea beetle Lucerne caterpillar Leaf-webbing caterpillar Bihar hairy caterpillar Diamond back moth Mustard Saw fly Painted bug

Crop	Pests
Colocasia	Tobacco caterpillar Flea beetle Hawk moths Black thrips Lace wing bug Aphid Grass hopper

Crop	Pests
Cucurbits (cucumber, gourds, pumpkin etc)	Pumpkin beetles Leaf eating beetles Melon fruit fly Pumpkin caterpillar Snake-gourd semilooper Bottle gourd plume Pumpkin borer Banded blister beetle Stink bugs Cotton aphid Flea beetle Gall fly Mites

Crop	Pests
Drumstick tree	Hairy caterpillars Leaf caterpillars Stem borer beetle Gall fly

Crop	Pests
Elephant-foot yam	Leaf beetle Hawk moths

Crop	Pests
French beans	Aphid Agromyzid fly Mites

Crop	Pests
Bhendi or Okra or Ladies finger	Shoot & fruit boeres Jassid Leaf roller Grey Weevils Cotton whitefly Mites

Crop	Pests
Onion	Onion thrip Lucerne caterpillar Tobacco caterpillar

Crop	Pests
Peas	Aphid Pod borer Thrip Pea leaf-minor

Crop	Pests

Potato	Pests
	Jassids Cut worms Aphids Leaf-eating beetles Lucerne caterpillar White grubs Tuber moth Mites

Crop	Pests
Spinach	Blue beetle Aphids

Crop	Pests
Sweet potato	Sweet potato weevil Sphinx hawk Bihar hairy caterpillar Leaf beetles Assassin bug

Crop	Pests
Tomato	Jassid Tobacco caterpillar Leaf eating beetles Cotton whitefly Scale insect Gram caterpillar Mites

OIL SEEDS

Crop	Pests
Castor	Castor semi loopers Castor capsule borer Castor gallfly Castor butterfly Hairy caterpillars Castor whitefly Jassid Tobacco caterpillar Slug caterpillar

Crop	Pests
Rape	Mustard aphid Mustard sawfly Painted bug Cabbage butterfly Flea beetle Pea leaf miner Diamond back moth Cabbage leaf Cabbage borer

Crop	Pests
Groundnut	Leaf miner Red hairy caterpillars Bihar hairy caterpillar Ground nut aphid Chilli thrip Termites Stem-borer Pod sucking bug Earwing White grub Chafer beetle Grasshopper

Crop	Pests
Safflower	Safflower caterpillar Safflower fly Safflower aphids Safflower stem fly Lucerne caterpillar Gram caterpillar Lincid gall midge

Crop	Pests
Linseed	Cutworm Lucerne caterpillar Aphid Semilooper Gram caterpillar Tobacco caterpillar Hairy caterpillars Linseed gall midge

Crop	Pests
Sesamum	Leaf and Pod Caterpillar Sesamum gallfly Sesamum sphinx Pod Sucking bug Hairy caterpillars Leaf hopper Thrips

SUGAR CROPS

Crop	Pests
Beet root	Flea beetle Gujhia weevil Cabbage borer Lucerne caterpillar Tobacco caterpillar Beet leaf-hopper Peach green aphid Hawk moth Leaf-rollers

Crop	Pests
Sugar cane	Termite Top-borer Early shoot borer Pink borer Green borer Gurdaspur borer Internode borer Stalk borer Stem borer Root borer Leaf hoppers White flies Hispa Black bug Black leaf hopper Cockchafer Grasshoppers Mealy bugs Scale insectes Aphids Red Ants Mites

FODDER CROPS

Crop	Pests
Berseem or Egyptian Clover	Surface grasshopper Army worms Lucerene caterpillar Pea leaf-miner

Crop	Pests
Lucerne	Lucerne caterpillar Cutworms Pumpkin beetle Lucerne Weevil Leaf Caterpillars Pea semiloopers

Coconut	Pests
	Rhinoceros beetle Red Palm weevil Black headed caterpillar Cockchafer beetle Termites Slug caterpillars Coconut bug Leaf rollers Coconut scales

Crop	Pests
Indigo	Indigo payllid White spotted weevil Leaf eating caterpillar Gujhia weevil

PLANTATION CROPS

Crop	Pests
Arecanut	Scale insects Aphid Arecanut beetle Mites

Crop	Pests
Betelvine	Betalvine bugs Mealy bugs

Crop	Pests
Cashewnut	Root & Stem borer Tea Mosquito Thrips

Crop	Pests

NARCOTICS

Crop	Pests
Tobacco	Tobacco caterpillar Stem borer Peach green aphid Whitefly Onion thrip Tobacco grasshopper Surface grasshopper Lucerne caterpillar Semi-looper Gram caterpillars Hariy caterpillars Cutworms More cricket Ground beetles

Crop	Pests
Coffee	White Stem Borer Green and Red Bugs Shot-hole borers Cockchafer beetle Coffee thrips Red Borer Leaf minor Coffee Grasshopper Cutworm Coffee been weevil Mites

Crop	Pests

CONDIMENTS & SPICES

Crop	Pests
Cardamom	Cardamam thrips Turmeric shoot borer Caradamom weevil Hairy caterpillar

Crop	Pests
Cumin & Coriander	Lucerne caterpillar Aphids Stink bug Tobacco caterpillar

Crop	Pests
Pepper	Flea beetles Mealy bugs Pepper scales

Crop	Pests

Tea	Pests
	Tea Mosquitoes Tea Looper Tea slugs Bag Worms Termites Shot hole borer Tea Thrips Scale insects Mites

Crop	Pests
Cocoa	Caster capsule borer Mealy bug Cocoa thrip

Turmeric	Pests
	Turmeric shoot borer Turmeric skipper Scale insect Thrips Lace-wing bug Leaf beetles

Crop	Pests
Tamarind	Scale insects Mealy bugs Bag worms Tamarind beetles Crab caterpillar Anar butterfly

FIBRE CROPS

Crop	Pests
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Crop	Pests
Cotton	Cotton jassid Cotton Whitefly Cotton aphid Spotted bollworms Pink bollworms Grey weevil Cotton leaf roller Cotton stem weevil Cotton stem-borer Red Cotton bug Dusky cotton bug Thrips Surface grasshopper

Crop	Pests
Jute	Jute semilooper Jute stem weevil Hairy caterpillar Leaf beetles

Crop	Pests
Sunhemp	Hairy Caterpillars Stem or Shoot borers Capsid bug