

**LIST OF APPROVED/RECOMMENDED INSECTICIDES**

NO	ACTIVE INGREDIENT(S)	CHEMICAL GROUP(S)	CLASS	TARGET CROP(S) AND ORGANISM(S)
1.	Abamectin	Biological	II	<p><b>ORCHID:</b></p> <ul style="list-style-type: none"> <li>- <i>Brevipalpus californicus</i> (Mites)</li> </ul> <p><b>HIBISCUS:</b></p> <ul style="list-style-type: none"> <li>- <i>Myzus persicae</i> (Aphids)</li> </ul> <p><b>TOMATO:</b></p> <ul style="list-style-type: none"> <li>- <i>Aculops lycopersici</i> (Red spider mites)</li> <li>- <i>Tetranychus</i> sp. (Red spider mites)</li> <li>- <i>Liriomyza trifolii</i> (Leaf miner)</li> </ul> <p><b>WATER MELON:</b></p> <ul style="list-style-type: none"> <li>- <i>Chromatomyia horticola</i> (Leaf miner)</li> <li>- <i>Liriomyza trifolii</i> (Leaf miner)</li> </ul> <p><b>CUCUMBER:</b></p> <ul style="list-style-type: none"> <li>- <i>Bemisia tabaci</i> (Whitefly)</li> </ul>
2.	Acetamiprid	Avermectin	III	<p><b>CITRUS:</b></p> <ul style="list-style-type: none"> <li>- <i>Phyllocnistis citrella</i> (Leaf miner).</li> </ul> <p><b>OKRA:</b></p> <ul style="list-style-type: none"> <li>- <i>Aphis gossypii</i> (Aphids)</li> <li>- <i>Empoasca fabae</i> (Leafhopper)</li> </ul> <p><b>EGGPLANT:</b></p> <ul style="list-style-type: none"> <li>- <i>Aphis gossypii</i> (Aphids)</li> <li>- <i>Thrips palmi</i> (Thrips)</li> </ul>

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				<ul style="list-style-type: none"> <li>- <i>Empoasca fabae</i> (Leafhopper)</li> </ul> <p><b>TOMATO:</b></p> <ul style="list-style-type: none"> <li>- <i>Trialeurodus vaporariorum</i> (Whitefly)</li> <li>- <i>Leucinodes orbonalis</i> (Fruit and shoot borer)</li> </ul> <p><b>LONG BEAN:</b></p> <ul style="list-style-type: none"> <li>- <i>Empoasca fabae</i> (Leafhopper)</li> <li>- <i>Maruca testulalis</i> (Pod borer)</li> </ul>
3.	Alpha-cypermethrin	Pyrethroid	II	<p><b>TOMATO:</b></p> <ul style="list-style-type: none"> <li>- <i>Leucinodes orbonalis</i> (Fruit and shoot borer)</li> </ul> <p><b>PADDY:</b></p> <ul style="list-style-type: none"> <li>- <i>Chilo suppressalis</i> (Stemborer)</li> <li>- <i>Cnaphalocrocis medinalis</i> (Leaf folder)</li> <li>- <i>Leptocorisa acuta</i> (Rice bug)</li> <li>- <i>Scirpophaga incertulas</i> (Stemborer)</li> <li>- <i>Scotinophora coarctata</i> (Black bug)</li> <li>- <i>Sesamia inferens</i> (Stemborer)</li> </ul>
4.	Alpha-cypermethrin + Fenobucarb	Pyrethroid + Carbamate	II	<p><b>PADDY:</b></p> <ul style="list-style-type: none"> <li>- <i>Nilaparvata lugens</i> (Brown planthopper)</li> </ul>

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5.	Amitraz	Triazapentadiene	III	<b>CHILLI, DURIAN, FRENCH BEAN, CITRUS, PAPAYA, ROSE:</b> - <i>Tetranychus</i> sp. (Red spider mites)
6.	Azadirachtin	Biological		<b>PADDY:</b> - <i>Nilaparvata lugens</i> (Brown planthopper)
7.	<i>Bacillus thuringiensis</i> subsp. <i>aizawai</i> 16,000 1.u./mg	Biological Bacterium	IV	<b>BRASSICA:</b> - <i>Plutella xylostella</i> (Diamondback moth)
8.	<i>Bacillus thuringiensis</i> subsp. <i>kurstaki</i>	Biological Bacterium	IV	<b>BROCCOLI, CABBAGE:</b> - <i>Plutella xylostella</i> (Diamondback moth) - <i>Trichoplusia ni</i> (Inch caterpillar)  <b>TOMATO:</b> - <i>Spodoptera</i> sp. (Armyworm)
9.	<i>Bacillus thuringiensis</i> subsp. <i>kurstaki</i> (3A, 3B)	Biological Bacterium	IV	<b>CHILLI, TOMATO:</b> - <i>Helicoverpa armigera</i> (Bud /fruit borer)  <b>CABBAGE:</b> - <i>Plutella xylostella</i> (Diamondback moth)
10.	Beta-cyfluthrin	Pyrethroid	III	<b>CITRUS:</b>

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				<ul style="list-style-type: none"> <li>- <i>Phyllocnistis citrella</i> (Leaf miner)</li> </ul> <p><b>FRENCH BEAN, LONG BEAN:</b></p> <ul style="list-style-type: none"> <li>- <i>Helicoverpa armigera</i> (Budworm)</li> <li>- <i>Maruca testulalis</i> (Pod borer)</li> </ul> <p><b>TOMATO:</b></p> <ul style="list-style-type: none"> <li>- <i>Leucinodes orbonalis</i> (Fruit and shoot borer)</li> </ul> <p><b>MAIZE:</b></p> <ul style="list-style-type: none"> <li>- <i>Helicoverpa armigera</i> (Bud caterpillar / fruit borer)</li> <li>- <i>Ostrinia salentialis</i> (Stemborer)</li> </ul> <p><b>TURF:</b></p> <ul style="list-style-type: none"> <li>- <i>Spodoptera pectans</i> (Armyworm)</li> </ul>
11.	Beta-cypermethrin	Pyrethroid	III	<p><b>LONG BEAN:</b></p> <ul style="list-style-type: none"> <li>- <i>Maruca testulalis</i> (Pod borer)</li> </ul> <p><b>TOMATO:</b></p> <ul style="list-style-type: none"> <li>- <i>Helicoverpa armigera</i> (Bud / fruit borer)</li> </ul> <p><b>MANGO:</b></p> <ul style="list-style-type: none"> <li>- <i>Chlumetia</i> sp. (Shoot borer)</li> <li>- <i>Idioscopus</i> sp. (Leaf hopper)</li> </ul> <p><b>PADDY:</b></p>

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				<ul style="list-style-type: none"> <li>- <i>Chilo polychrysa</i> (Stemborer)</li> <li>- <i>Cnaphalocrosis</i> sp. (Leaf folder)</li> <li>- <i>Hydrellia philippina</i> (Rice whorl maggot)</li> <li>- <i>Leptocorisa</i> sp. (Rice bug)</li> <li>- <i>Nephotettix</i> sp. ( Green leaf hopper)</li> <li>- <i>Nilaparvata lugens</i> (Brown planthopper)</li> <li>- <i>Tryporyza incertula</i> (Stemborer)</li> </ul>
12.	Bifenthrin	Pyrethroid	III	<b>ROSE:</b> <ul style="list-style-type: none"> <li>- <i>Tetranychus urticae</i> (Red spider mite)</li> </ul>
13.	Bistrifluron	Benzoylurea	III	<b>CABBAGE:</b> <ul style="list-style-type: none"> <li>- <i>Plutella xylostella</i> (Diamondback moth)</li> </ul>
14.	Buprofezin	Thiadiazine	III	<b>TOMATO:</b> <ul style="list-style-type: none"> <li>- <i>Trialeurodus vaporariorum</i> (Whitefly)</li> </ul> <b>PADDY:</b> <ul style="list-style-type: none"> <li>- <i>Nephotettix virescens</i> (Green leafhopper)</li> <li>- <i>Nilaparvata lugens</i> (Brown planthopper)</li> <li>- <i>Recilia dorsalis</i> (Zigzag leafhopper)</li> </ul> <b>GUAVA:</b> <ul style="list-style-type: none"> <li>- <i>Aleurodicus dispersus</i> (Whitefly)</li> </ul>

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				<b>OKRA:</b> - <i>Empoasca fabae</i> (Leafhopper)  <b>EGGPLANT:</b> - <i>Bemisia tabaci</i> (Whitefly) - <i>Empoasca fabae</i> (Leafhopper)
15.	Buprofezin + Cartap hydrochloride	Thiadiazine + Thiocarbamate	III	<b>PADDY:</b> - <i>Chilo suppressalis</i> (Stemborer) - <i>Cnaphalocrosis</i> sp. (Leaf folder) - <i>Leptocorisa acuta</i> (Rice bug) - <i>Nephotettix</i> sp. (Green leafhopper) - <i>Nilaparvata lugens</i> (Brown planthopper) - <i>Sesamia inferens</i> (Stemborer) - <i>Sogatella furcifera</i> (Whitebacked planthopper)
16.	Buprofezin + Esfenvalerate	Thiadiazine + Pyrethroid	III	<b>PADDY:</b> - <i>Chilo suppressalis</i> (Stemborer) - <i>Cnaphalocrosis</i> sp. (Leaf folder) - <i>Leptocorisa acuta</i> (Rice bug) - <i>Nephotettix</i> sp. (Green leafhopper) - <i>Nilaparvata lugens</i> (Brown planthopper) - <i>Sesamia inferens</i> (Stemborer) - <i>Sogatella furcifera</i> (Whitebacked planthopper)
17.	Buprofezin + Isoprocarb	Thiadiazine	III	<b>PADDY:</b>

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		+ Carbamate		<ul style="list-style-type: none"> <li>- <i>Nephotettix</i> sp. (Green leafhopper)</li> <li>- <i>Nilaparvata lugens</i> (Brown planthopper)</li> <li>- <i>Sogatella furcifera</i> (Whitebacked planthopper)</li> </ul>
18.	Carbaryl	Carbamate	III	<p><b>OKRA:</b></p> <ul style="list-style-type: none"> <li>- <i>Earias fabia</i> / <i>E.vitella</i> (Fruit borer)</li> </ul> <p><b>PADDY:</b></p> <ul style="list-style-type: none"> <li>- <i>Nilaparvata lugens</i> (Brown planthopper)</li> </ul> <p><b>CHINESE MUSTARD:</b></p> <ul style="list-style-type: none"> <li>- <i>Phyllotreta</i> sp.</li> </ul> <p><b>ORNAMENTAL PLANTS:</b></p> <ul style="list-style-type: none"> <li>- <i>Aphis</i> sp.</li> </ul> <p><b>EGGPLANT:</b></p> <ul style="list-style-type: none"> <li>- <i>Leucinodes orbonalis</i> (Fruit and shoot borer)</li> </ul>
19.	Carbosulfan	Carbamate	II	<p><b>LOOFAH:</b></p> <ul style="list-style-type: none"> <li>- <i>Epilachna dodecastigma</i> (Epilachna beetle)</li> </ul> <p><b>GERBERA FLOWER:</b></p> <ul style="list-style-type: none"> <li>- <i>Frankliniella occidentalis</i> (Thrips)</li> </ul>

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				<b>EGGPLANT:</b> - <i>Amrasca biguttula</i> (Hopper)  <b>TOMATO:</b> - <i>Leucinodes orbonalis</i> (Fruit and shoot borer)  <b>PAPAYA:</b> - <i>Thrips palvispinus</i> (Thrips)
20.	Carbosulfan + Cypermethrin	Carbamate + Pyrethroid	II	<b>CHILLI:</b> - <i>Thrips palmi</i> (Thrips)
21.	Cartap hydrochloride	Thiocarbamate	III	<b>CABBAGE, CHINESE CABBAGE:</b> - <i>Aphis</i> sp. (Aphids) - <i>Plutella xylostella</i> (Diamondback moth) - <i>Spodoptera litura</i> (Armyworm)  <b>PADDY:</b> - <i>Cnaphalocrosis</i> sp. (Leaf folder) - <i>Nilaparvata lugens</i> (Brown planthopper) - <i>Spodoptera mauritia</i> , <i>Spodoptera litura</i> (Armyworm)
22.	Chlorantraniliprole	Diamide	III	<b>OKRA:</b> - <i>Spodoptera exigua</i> (Armyworm)



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				<p><b>CHILLI:</b></p> <ul style="list-style-type: none"> <li>- <i>Helicoverpa armigera</i> (Bud / fruit borer)</li> <li>- <i>Spodoptera exigua</i> (Armyworm)</li> </ul> <p><b>MAIZE:</b></p> <ul style="list-style-type: none"> <li>- <i>Ostrinia furnacalis</i> (Cob borer)</li> <li>- <i>Spodoptera litura</i> (Armyworm)</li> </ul> <p><b>LONG BEAN:</b></p> <ul style="list-style-type: none"> <li>- <i>Maruca testulalis</i> (Pod borer)</li> <li>- <i>Spodoptera exigua</i> (Armyworm)</li> </ul> <p><b>TOMATO:</b></p> <ul style="list-style-type: none"> <li>- <i>Leucinodes orbonalis</i> (Fruit and shoot borer)</li> </ul> <p><b>CABBAGE, CHINESE MUSTARD:</b></p> <ul style="list-style-type: none"> <li>- <i>Plutella xylostella</i> (Diamondback moth)</li> <li>- <i>Spodoptera exigua</i> (Armyworm)</li> </ul> <p><b>PADDY:</b></p> <ul style="list-style-type: none"> <li>- <i>Cnaphalocrosis</i> sp. (Leaf folder)</li> <li>- <i>Scirpophaga incertulas</i> (Stem borer)</li> </ul>
23.	Chlorfenapyr	Arylpyrrole	III	<p><b>CABBAGE:</b></p> <ul style="list-style-type: none"> <li>- <i>Plutella xylostella</i> (Diamondback moth)</li> <li>- <i>Spodoptera exigua</i> (Armyworm)</li> </ul>

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24.	Chlorfluazuron	Benzoylurea	III	<b>OKRA:</b> - <i>Earias fabia</i> / <i>E.vitella</i> (Fruit borer)
25.	Chromafenozide	Diacylhydrazine	III	<b>CABBAGE, EGGPLANT:</b> - <i>Spodoptera litura</i> (Armyworm)
26.	Clarified hydrophobic extract of neem oil + d-limonene	Biological	IV	<b>TOMATO:</b> - <i>Trialeurodus vaporariorum</i> (Whitefly)
27.	Cyantraniliprole	Diamide		<b>LONG BEAN:</b> - <i>Liriomyza sativae</i> (Leaf miner)  <b>CUCUMBER:</b> - <i>Liriomyza sativae</i> (Leaf miner) - <i>Bemisia tabaci</i> (Whitefly) - <i>Thrips palmi</i> (Thrips)  <b>TOMATO:</b> - <i>Liriomyza sativae</i> (Leaf miner) - <i>Bemisia tabaci</i> (Whitefly)  <b>CHILLI:</b> - <i>Thrips palmi</i> (Thrips) - <i>Helicoverpa armigera</i> (Bud / fruit borer)  <b>EGGPLANT:</b> - <i>Bemisia tabaci</i> (Whitefly) - <i>Thrips palmi</i> (Thrips)

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28.	Cyantraniliprole + Thiamethoxam	Diamide + Neonicotinoid	IV	<p><b>CHILLI:</b></p> <ul style="list-style-type: none"> <li>- <i>Helicoverpa armigera</i> (Bud / fruit borer)</li> </ul> <p><b>LONG BEAN:</b></p> <ul style="list-style-type: none"> <li>- <i>Empoasca fabae</i> (leaf hopper)</li> <li>- <i>Maruca testulalis</i> (Pod borer)</li> </ul> <p><b>CHINESE KALE, CABBAGE, CHINESE MUSTARD:</b></p> <ul style="list-style-type: none"> <li>- <i>Plutella xylostella</i> (Diamondback moth)</li> </ul>
29.	Cyfluthrin	Pyrethroid	III	<p><b>CITRUS:</b></p> <ul style="list-style-type: none"> <li>- <i>Phyllocnistis citrella</i> (Leaf miner)</li> </ul> <p><b>CHILLI, FRENCH BEAN, LONG BEAN:</b></p> <ul style="list-style-type: none"> <li>- <i>Helicoverpa armigera</i> (Bud / fruit borer)</li> </ul> <p><b>TOMATO:</b></p> <ul style="list-style-type: none"> <li>- <i>Leucinodes orbonalis</i> (Fruit / shoot borer)</li> </ul>
30.	Cypermethrin	Pyrethroid	III	<p><b>CHILLI, TOMATO:</b></p> <ul style="list-style-type: none"> <li>- <i>Aphis</i> sp. (Aphid)</li> <li>- <i>Bactrocera</i> sp. (Fruitfly)</li> <li>- <i>Helicoverpa</i> sp. (Fruit borer)</li> <li>- <i>Thrips</i> sp. (Thrips)</li> </ul>

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				<p><b>TOMATO:</b></p> <ul style="list-style-type: none"> <li>- <i>Aphis gossypii</i> (Melon aphid)</li> <li>- <i>Bactrocera</i> sp. (Fruitfly)</li> <li>- <i>Helicoverpa armigera</i> (Bud / fruit borer)</li> </ul> <p><b>SPINACH:</b></p> <ul style="list-style-type: none"> <li>- <i>Hellula undalis</i> (Cabbage webworm)</li> </ul> <p><b>HIBISCUS, ROSE:</b></p> <ul style="list-style-type: none"> <li>- <i>Myzus persicae</i> (Green peach aphid)</li> </ul> <p><b>MANGO:</b></p> <ul style="list-style-type: none"> <li>- <i>Bactrocera</i> sp. (Fruitfly)</li> </ul> <p><b>WATERMELON:</b></p> <ul style="list-style-type: none"> <li>- <i>Aphis</i> sp. (Aphid)</li> </ul>
31.	Cyromazine	Triazine	IV	<p><b>ORNAMENTAL PLANTS:</b></p> <ul style="list-style-type: none"> <li>- <i>Liriomyza trifolii</i> (Leaf miner)</li> </ul>
32.	Deltamethrin	Pyrethroids	II	<p><b>OKRA:</b></p> <ul style="list-style-type: none"> <li>- <i>Amrasca devastans</i> (Leaf hopper)</li> <li>- <i>Aphis gossypii</i> (Melon aphid)</li> <li>- <i>Earias fabia</i> / <i>E.vitella</i> (Leaf miner)</li> <li>- <i>Earias insulana</i> (Fruit borer)</li> </ul> <p><b>CHILLI:</b></p> <ul style="list-style-type: none"> <li>- <i>Earias fabia</i> / <i>E.vitella</i> (Fruit borer)</li> </ul>

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				<ul style="list-style-type: none"> <li>- <i>Earias insulana</i> (Fruit borer)</li> </ul> <p><b>CABBAGE:</b></p> <ul style="list-style-type: none"> <li>- <i>Plutella xylostella</i> (Diamondback moth)</li> </ul> <p><b>TOMATO:</b></p> <ul style="list-style-type: none"> <li>- <i>Helicoverpa armigera</i> (Bud/ fruit borer)</li> <li>- <i>Leucinodes orbonalis</i> (Fruit/ shoot borer)</li> </ul>
33.	Diafenthiuron	Thiourea	III	<p><b>OKRA:</b></p> <ul style="list-style-type: none"> <li>- <i>Bemisia tabaci</i> (Whitefly)</li> </ul> <p><b>CHILI:</b></p> <ul style="list-style-type: none"> <li>- <i>Tetranychus urticae</i> (Red spider mites)</li> </ul> <p><b>BRASSICA:</b></p> <ul style="list-style-type: none"> <li>- <i>Plutella xylostella</i> (Diamondback moth)</li> </ul>
34.	Diafenthiuron + Fenoxycarb	Thiourea + Juvenile hormone mimic	II	<p><b>BRASSICA:</b></p> <ul style="list-style-type: none"> <li>- <i>Plutella xylostella</i> (Diamondback moth)</li> </ul>
35.	Diflubenzuron	Benzoylurea	IV	<p><b>CABBAGE:</b></p> <ul style="list-style-type: none"> <li>- <i>Plutella xylostella</i> (Diamondback moth)</li> </ul>

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				- <i>Spodoptera</i> sp. (Armyworm)
36.	Diflubenzuron + Alpha-cypermethrin	Benzoylurea + Pyrethroids	III	<b>PADDY:</b> - <i>Chilo</i> sp. (Striped rice stemborer) - <i>Scirpophaga incertulas</i> (Yellow rice stemborer)  <b>OKRA, EGGPLANT:</b> - <i>Leucinodes orbonalis</i> (Fruit / shoot borer)  <b>BRASSICA:</b> - <i>Plutella xylostella</i> (Diamondback moth)  <b>GROUND NUT:</b> - <i>Liriomyza</i> sp. (Leaf miner)
37.	Dimethoate	Organophosphate	II	<b>SPINACH, MUSTARD PLANT:</b> - <i>Aphis</i> sp. (Aphid) - <i>Hellula undalis</i> (Striped cabbage heart caterpillar) - <i>Phyllocnistis citrella</i> (Citrus leaf miner) - <i>Tetranychus</i> sp. (Red spider mites) - <i>Thrips</i> sp. (Thrips)  <b>CHILLI:</b> - <i>Aphis</i> sp. (Aphid) - <i>Thrips</i> sp. (Thrips)

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				<p><b>FRENCH BEAN, LONG BEAN:</b></p> <ul style="list-style-type: none"> <li>- <i>Aleurodicus dispersus</i> (Whitefly)</li> <li>- <i>Melanagromyza phaseoli</i> (Bean fly)</li> <li>- <i>Phyllocnistis citrella</i> (Citrus leaf miner)</li> <li>- <i>Tetranychus</i> sp. (Red spider mites)</li> <li>- <i>Thrips</i> sp. (Thrips)</li> </ul> <p><b>PADDY:</b></p> <ul style="list-style-type: none"> <li>- <i>Chilo polychrysa</i> (Darkheaded rice borer)</li> <li>- <i>Leptocorisa</i> sp. (Rice bug)</li> <li>- <i>Nephotettix</i> sp. (Green leafhopper)</li> <li>- <i>Nilaparvata lugens</i> (Brown planthopper)</li> <li>- <i>Sesamia inferens</i> (Pink rice stemborer)</li> <li>- <i>Sogatella furcifera</i> (White backed planthopper)</li> <li>- <i>Tryporyza incertula</i> (Yellow stemborer)</li> </ul>
38.	Dimethoate + Cypermethrin	Organophosphate + Pyrethroids	II	<p><b>COFFEE:</b></p> <ul style="list-style-type: none"> <li>- <i>Aphis</i> sp. (Aphid)</li> <li>- <i>Coccus viridis</i> (Green scale)</li> <li>- <i>Planococcus</i> sp. (Mealybug)</li> <li>- <i>Thrips</i> sp. (Thrips)</li> </ul> <p><b>OKRA:</b></p>

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				<ul style="list-style-type: none"> <li>- <i>Aphis</i> sp. (Aphid)</li> <li>- <i>Tetranychus</i> sp. (Red spider mites)</li> <li>- <i>Thrips</i> sp. (Thrips)</li> </ul> <p><b>BRASSICA:</b></p> <ul style="list-style-type: none"> <li>- <i>Aphis</i> sp. (Aphid)</li> <li>- <i>Hellula undalis</i> (Striped cabbage heart caterpillar)</li> <li>- <i>Phytomyza</i> sp. (Leaf miner)</li> </ul>
39.	Dinotefuran	Dinotefuran	III	<p><b>SWEET PEA:</b></p> <ul style="list-style-type: none"> <li>- <i>Liriomyza</i> sp. (Leaf miner)</li> </ul>
40.	Emamectin benzoate	Avermectin	III	<p><b>BRASSICA:</b></p> <ul style="list-style-type: none"> <li>- <i>Spodoptera litura</i> (Army worm)</li> <li>- <i>Plutella xylostella</i> (Diamondback moth)</li> </ul> <p><b>TOMATO:</b></p> <ul style="list-style-type: none"> <li>- <i>Helicoverpa armigera</i> (Bud / fruit borer)</li> <li>- <i>Leucinodes orbonalis</i> (Fruit / shoot borer)</li> </ul> <p><b>OKRA:</b></p> <ul style="list-style-type: none"> <li>- <i>Earias fabia</i> / <i>E.vitella</i> (Spotted bollworm)</li> </ul> <p><b>MAIZE:</b></p> <ul style="list-style-type: none"> <li>- <i>Ostrinia furnacalis</i> (Asia corn borer)</li> </ul>



**LIST OF APPROVED/RECOMMENDED INSECTICIDES**

41.	Esfenvalerate	Pyrethroids	III	<p><b>CITRUS:</b></p> <ul style="list-style-type: none"> <li>- <i>Phyllocnistis citrella</i> (Citrus leaf miner)</li> </ul> <p><b>CHILLI:</b></p> <ul style="list-style-type: none"> <li>- <i>Aphis gossypii</i> (Melon aphid)</li> <li>- <i>Plusia chalcites</i> (Tomato looper)</li> <li>- <i>Spodoptera litura</i> (Armyworm)</li> </ul> <p><b>CUCUMBER:</b></p> <ul style="list-style-type: none"> <li>- <i>Agrotis ipsilon</i> (Black cut worm)</li> <li>- <i>Helicoverpa assulta</i> (Oriental tobacco budworm)</li> <li>- <i>Plusia chalcites</i> (Tomato looper)</li> </ul> <p><b>TOMATO:</b></p> <ul style="list-style-type: none"> <li>- <i>Agrotis ipsilon</i> (Black cut worm)</li> <li>- <i>Aphis gossypii</i> (Melon aphid)</li> <li>- <i>Helicoverpa assulta</i> (Oriental tobacco budworm)</li> <li>- <i>Plusia chalcites</i> (Tomato looper)</li> <li>- <i>Trialeurodus vaporariorum</i> (Green house whitefly)</li> </ul> <p><b>CABBAGE:</b></p> <ul style="list-style-type: none"> <li>- <i>Agrotis ipsilon</i> (Black cut worm)</li> <li>- <i>Plusia chalcites</i> (Tomato looper)</li> <li>- <i>Plutella xylostella</i> (Diamondback moth)</li> </ul>
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**LIST OF APPROVED/RECOMMENDED INSECTICIDES**

				- <i>Spodoptera litura</i> (Armyworm)
42.	Ethiprole	Phenylpyrazole	IV	<b>PADDY:</b> - <i>Nilaparvata lugens</i> (Brown planthopper)
43.	Ethiprole + Imidacloprid	Phenylpyrazole + Neonicotinoid	III	<b>PADDY:</b> - <i>Nilaparvata lugens</i> (Brown planthopper)
44.	Etofenprox	Pyrethroid		<b>PADDY:</b> - <i>Cnaphalocrocis medinalis</i> (Rice leaf folder) - <i>Nephotettix virescens</i> (Green rice leafhopper) - <i>Nilaparvata lugens</i> (Brown planthopper) - <i>Scirpophaga incertulas</i> (Yellow stemborer)
45.	Fenazaquin	METI acaricide	II	<b>CITRUS:</b> - <i>Panocyclus citri</i> (Citrus red mites) - <i>Phyllocoptruta oleivora</i> (Citrus rust mites)  <b>WATERMELON:</b> - <i>Tetranychus urticae</i> (Red spider mites)
46.	Fenobucarb	Carbamate	II	<b>PADDY:</b>

**LIST OF APPROVED/RECOMMENDED INSECTICIDES**

				<ul style="list-style-type: none"> <li>- <i>Cnaphalocrosis</i> sp. (Rice leaf folder)</li> <li>- <i>Leptocorisa acuta</i> (Paddy stink bug)</li> <li>- <i>Nephotettix virescens</i> (Green rice leafhopper)</li> <li>- <i>Valanga nigricornis</i> (Short horned grasshopper)</li> </ul>
47.	Fenpropathrin	Pyrethroid	II	<p><b>CITRUS:</b></p> <ul style="list-style-type: none"> <li>- <i>Aleurodicus dispersus</i> (Whitefly)</li> <li>- <i>Panocychus citri</i> (Citrus red mites)</li> <li>- <i>Tetranychus urticae</i> (Red spider mites)</li> </ul> <p><b>POMELO:</b></p> <ul style="list-style-type: none"> <li>- <i>Aleurodicus dispersus</i> (Whitefly)</li> <li>- <i>Tetranychus urticae</i> (Red spider mites)</li> </ul> <p><b>CHILLI, TOMATO:</b></p> <ul style="list-style-type: none"> <li>- <i>Helicoverpa armigera</i> (Bud / fruit borer)</li> </ul>
48.	Fenpyroximate	METI acaricide	IV	<p><b>CHILLI:</b></p> <ul style="list-style-type: none"> <li>- <i>Polyphagotarsonemus latus</i> (Broad mites)</li> </ul> <p><b>ROSE:</b></p> <ul style="list-style-type: none"> <li>- <i>Tetranychus urticae</i> (Red spider mites)</li> </ul>

**LIST OF APPROVED/RECOMMENDED INSECTICIDES**

49.	Fenthion	Organophosphate	II	<b>CARAMBOLA, CITRUS, MANGO, CUCUMBER:</b> <ul style="list-style-type: none"> <li>- <i>Bactrocera</i> sp. (Fruitfly)</li> </ul> <b>GUAVA:</b> <ul style="list-style-type: none"> <li>- <i>Aphis</i> sp. (Aphid)</li> <li>- <i>Bactrocera</i> sp. (Fruitfly)</li> </ul> <b>PADDY:</b> <ul style="list-style-type: none"> <li>- <i>Leptocorisa acuta</i> (Paddy stink bug)</li> <li>- <i>Scotinophora coarctata</i> (Rice black bug)</li> </ul>
50.	Fenvalerate	Pyrethroid	III	<b>SPINACH, CABBAGE:</b> <ul style="list-style-type: none"> <li>- <i>Agrotis ipsilon</i> (Black cut worm)</li> <li>- <i>Spodoptera litura</i> (Armyworm)</li> </ul> <b>CHINESE CABBAGE:</b> <ul style="list-style-type: none"> <li>- <i>Agrotis ipsilon</i> (Black cut worm)</li> <li>- <i>Plutella xylostella</i> (Diamondback moth)</li> <li>- <i>Spodoptera litura</i> (Armyworm)</li> </ul>
51.	Fipronil	Phenylpyrazole	II	<b>PADDY:</b> <ul style="list-style-type: none"> <li>- <i>Stenchaetothrips biformis</i> (Rice thrips)</li> <li>- <i>Chilo suppressalis</i> (Asiatic stem borer)</li> <li>- <i>Cnaphalocrocis medinalis</i> (Rice leaf folder)</li> <li>- <i>Nilaparvata lugens</i> (Brown planthopper)</li> </ul>

**LIST OF APPROVED/RECOMMENDED INSECTICIDES**

				<ul style="list-style-type: none"> <li>- <i>Scotinophora coarctata</i> (Rice black bug)</li> <li>- <i>Sesamia inferens</i> (Pink rice stemborer)</li> </ul> <p><b>CHILLI, WATERMELON:</b></p> <ul style="list-style-type: none"> <li>- <i>Haplothrips floricola</i> (Thrips)</li> </ul> <p><b>EGGPLANT:</b></p> <ul style="list-style-type: none"> <li>- <i>Thrips palmi</i> (Melon thrips)</li> </ul> <p><b>SUGARCANE:</b></p> <ul style="list-style-type: none"> <li>- <i>Microtermes obesi</i> (Wheat termites)</li> </ul>
52.	Fipronil + Imidacloprid	Phenylpyrazole + Neonicotinoid	II	<p><b>PADDY:</b></p> <ul style="list-style-type: none"> <li>- <i>Cnaphalocrocis medinalis</i> (Rice leaf folder)</li> </ul>
53.	Flubendiamide	Diamide	IV	<p><b>BRASSICA:</b></p> <ul style="list-style-type: none"> <li>- <i>Plutella xylostella</i> (Diamondback moth)</li> </ul>
54.	Gamma-cyhalothrin	Pyrethroid	IV	<p><b>CHILI:</b></p> <ul style="list-style-type: none"> <li>- <i>Helicoverpa armigera</i> (Bud / fruit borer)</li> <li>- <i>Spodoptera litura</i> (Armyworm)</li> </ul> <p><b>LONG BEAN:</b></p> <ul style="list-style-type: none"> <li>- <i>Maruca testulalis</i> (Pod borer)</li> </ul>

**LIST OF APPROVED/RECOMMENDED INSECTICIDES**

				<b>CABBAGE:</b> - <i>Spodoptera litura</i> (Armyworm)
55.	Hexythiazox	Mite growth inhibitor	IV	<b>ORNAMENTAL PLANTS:</b> - <i>Tetranychus</i> sp. (Red spider mites)  <b>CITRUS:</b> - <i>Panocyclus citri</i> (Citrus red mites) <i>Tetranychus</i> sp. (Red spider mites)
56.	Imidacloprid	Neonicotinoid	III	<b>SPINACH:</b> - <i>Thrips</i> sp.(Thrips)  <b>CHILLI:</b> - <i>Aphis</i> sp. (Aphid) - <i>Bemisia tabaci</i> (Potato whitefly) - <i>Thrips palmi</i> (Melon thrips)  <b>MANGO:</b> - <i>Idioscopus clypealis</i> (Mango leafhopper)  <b>PADDY:</b> - <i>Nephotettix virescens</i> (Green rice leafhopper) - <i>Nilaparvata lugens</i> (Brown planthopper) - <i>Sogatella furcifera</i> (White backed planthopper)

**LIST OF APPROVED/RECOMMENDED INSECTICIDES**

				<b>EGGPLANT:</b> - <i>Empoasca fabae</i> (Potato leafhopper)
57.	Imidacloprid + Beta-cyfluthrin	Neonicotinoid + Pyrethroid	II	<b>CHILLI, TOMATO:</b> - <i>Bemisia tabaci</i> (Potato whitefly) - <i>Helicoverpa armigera</i> (Bud / fruit borer) - <i>Thrips palmi</i> (Melon thrips)
58.	Imidacloprid + Cyfluthrin	Neonicotinoid + Pyrethroid	III	<b>CHILLI:</b> - <i>Thrips palmi</i> (Melon thrips)  <b>FRENCH BEAN, LONG BEAN:</b> - <i>Maruca testulalis</i> (Pod borer)  <b>EGG PLANT:</b> - <i>Thrips palmi</i> (Melon thrips) - <i>Bemisia tabaci</i> (Potato whitefly)  <b>TOMATO:</b> - <i>Bemisia tabaci</i> (Potato whitefly)
59.	Indoxacarb	Oxadiazine	III	<b>PADDY:</b> - <i>Cnaphalocrocis medinalis</i> (Leaf folder)  <b>BRASSICA:</b> - <i>Plutella xylostella</i> (Diamondback moth) - <i>Spodoptera litura</i> , <i>S.exigua</i> (Armyworm)

**LIST OF APPROVED/RECOMMENDED INSECTICIDES**

				<p><b>CHILLI:</b></p> <ul style="list-style-type: none"> <li>- <i>Helicoverpa armigera</i> (Fruit borer)</li> <li>- <i>Spodoptera litura, S.exigua</i> (Armyworm)</li> </ul> <p><b>LONG BEAN:</b></p> <ul style="list-style-type: none"> <li>- <i>Maruca testulalis</i> (Pod borer)</li> </ul> <p><b>TOMATO:</b></p> <ul style="list-style-type: none"> <li>- <i>Leucinodes orbonalis</i> (Shoot / Fruit borer)</li> <li>- <i>Helicoverpa armigera</i> (Fruit borer)</li> <li>- <i>Spodoptera litura, S.exigua</i> (Armyworm)</li> </ul>
60.	Lambda-cyhalothrin	Pyrethroid	II	<p><b>OKRA:</b></p> <ul style="list-style-type: none"> <li>- <i>Earias fabia, E.vitella</i> (Fruit borer)</li> </ul>
61.	Lufenuron	Benzoylurea	IV	<p><b>CHILLI, LONG BEAN, EGGPLANT:</b></p> <ul style="list-style-type: none"> <li>- <i>Helicoverpa armigera</i> (Fruit borer)</li> <li>- <i>Maruca testulalis</i> (Pod borer)</li> <li>- <i>Leucinodes sp.</i> (Shoot/Fruit borer)</li> </ul> <p><b>MAIZE:</b></p> <ul style="list-style-type: none"> <li>- <i>Helicoverpa sp., Ostrinia sp.</i> (Fruit borer)</li> </ul> <p><b>PAPAYA, ROSE APPLE, CARAMBOLA:</b></p> <ul style="list-style-type: none"> <li>- <i>Helicoverpa assulta</i> (Budworm)</li> </ul>



**LIST OF APPROVED/RECOMMENDED INSECTICIDES**

62.	Malathion	Organophosphate	III	<p><b>CARAMBOLA, CITRUS, CHILLI, EGGPLANT, TOMATO, CUCUMBER, CHINESE CABBAGE, LONG BEAN, SPINACH, ORCHID, ROSE:</b></p> <ul style="list-style-type: none"> <li>- <i>Aphis gossypii</i>, <i>A.craccivora</i> (Aphids)</li> <li>- <i>Planococcus citri</i> (Mealybug)</li> <li>- <i>Thrips palmi</i> (Thrips)</li> <li>- <i>Tetranychus urticae</i> (Red mites)</li> </ul> <p><b>EGGPLANT, TOMATO, CHINESE CABBAGE, SPINACH:</b></p> <ul style="list-style-type: none"> <li>- <i>Phyllotreta sinuata</i> (Flea beetle)</li> </ul> <p><b>PADDY:</b></p> <ul style="list-style-type: none"> <li>- <i>Cnaphalocrosis medinalis</i> (Leaf folder)</li> <li>- <i>Nephotettix virescens</i> (Green leafhopper)</li> <li>- <i>Nilaparvata lugens</i> (Brown planthopper)</li> <li>- <i>Nymphula depunctalis</i> (Caseworm)</li> <li>- <i>Spodoptera litura</i> (Armyworm)</li> </ul>
63.	Metaflumizone	Semicarbazone	IV	<p><b>CABBAGE:</b></p> <ul style="list-style-type: none"> <li>- <i>Phyllotreta</i> sp. (Flea beetle)</li> <li>- <i>Pieris rapae</i> (Cabbage white butterfly)</li> <li>- <i>Plutella xylostella</i> (Diamondback moth)</li> </ul>

**LIST OF APPROVED/RECOMMENDED INSECTICIDES**

64.	<i>Metarhizium anisopliae</i> var. <i>major</i>	Biological Entomopathogenic fungus	IV	<b>COCONUT:</b> - <i>Oryctes rhinoceros</i> (Rhino beetle)
65.	Methoxyfenozide	Diacylhydrazine	IV	<b>CHILLI, EGGPLANT:</b> - <i>Helicoverpa armigera</i> (Fruit borer) - <i>Spodoptera exigua</i> (Armyworm)  <b>LONG BEAN:</b> - <i>Maruca testulalis</i> (Pod borer)  <b>TOMATO:</b> - <i>Leucinodes orbonalis</i> (Shoot / Fruit borer)
66.	Garlic oil	Biological	III	<b>CHILLI:</b> - <i>Thrips palmi</i> (Thrips)  <b>CUCUMBER:</b> - <i>Trialeurodus vaporariorum</i> (Whitefly)  <b>BLACK PEPPER:</b> - <i>Diconocoris hewetti</i> (Tingid bug)
67.	Permethrin	Pyrethroid	II	<b>OKRA:</b> - <i>Earias fabia</i> , <i>E.vitella</i> (Fruit borer) - <i>Aphis</i> sp. (Aphids)  <b>CABBAGE:</b> - <i>Brevicoryne brassicae</i> (Cabbage aphids)

**LIST OF APPROVED/RECOMMENDED INSECTICIDES**

				<ul style="list-style-type: none"> <li>- <i>Plutella xylostella</i> (Diamondback moth)</li> </ul> <p><b>EGGPLANT:</b></p> <ul style="list-style-type: none"> <li>- <i>Leucinodes orbonalis</i> (Shoot / Fruit borer)</li> </ul> <p><b>TOMATO:</b></p> <ul style="list-style-type: none"> <li>- <i>Aphis</i> sp. (Aphids)</li> </ul>
68.	Phenthoate	Organophosphate	IV	<p><b>PADDY:</b></p> <ul style="list-style-type: none"> <li>- <i>Cnaphalocrocis medinalis</i> (Leaf folder)</li> <li>- <i>Spodoptera litura</i> (Armyworm)</li> </ul>
69.	Potassium oleate	Inorganic	IV	<p><b>CHILLI, TOMATO:</b></p> <ul style="list-style-type: none"> <li>- <i>Trialeurodus</i> sp. (Whitefly)</li> </ul>
70.	Propoxur	Carbamate	II	<p><b>COCOA:</b></p> <ul style="list-style-type: none"> <li>- <i>Conopomorpha cramerella</i> (Pod borer)</li> </ul>
71.	Pymetrozine	Selective feeding blocker	IV	<p><b>PADDY:</b></p> <ul style="list-style-type: none"> <li>- <i>Nilaparvata lugens</i> (Brown planthopper)</li> </ul>
72.	Pyridaben	Pyridazinone	III	<p><b>ORNAMENTAL PLANTS:</b></p> <ul style="list-style-type: none"> <li>- <i>Bemisia tabaci</i> (Whitefly)</li> </ul> <p><b>ROSE, CITRUS:</b></p> <ul style="list-style-type: none"> <li>- <i>Tetranychus urticae</i> (Red mites)</li> </ul>

**LIST OF APPROVED/RECOMMENDED INSECTICIDES**

73.	Pyridalyl	-	IV	<b>CHILLI:</b> - <i>Helicoverpa armigera</i> (Fruit borer)  <b>CABBAGE:</b> - <i>Spodoptera litura</i> (Armyworm) - <i>Hellula undalis</i> (Webworm) - <i>Plutella xylostella</i> (Diamondback moth)
74.	Pyriproxyfen	Juvenile hormone mimic	IV	<b>TOMATO, GUAVA:</b> - <i>Bemisia tabaci</i> , <i>Trialeurodus vaporariorum</i> , <i>Aleurodicus disperses</i> (Whitefly)
75.	Spinetoram	Synthesized from naturally-occurring spinosyns	IV	<b>CHILLI, EGGPLANT:</b> - <i>Thrips palmi</i> (Thrips)  <b>CHILLI, TOMATO:</b> - <i>Leucinodes orbonalis</i> , <i>Helicoverpa armigera</i> (Fruit borer)  <b>LONG BEAN</b> - <i>Maruca testulalis</i> (Pod borer)
76.	Spinosad	Synthesized from naturally-occurring spinosyns	IV	<b>CARAMBOLA, GUAVA, CITRUS, MANGO, POMELO:</b> - <i>Bactrocera</i> sp. (Fruitfly)
77.	Spirodiclofen	Tetronic acid	III	<b>CHILLI, EGGPLANT, CITRUS, MANGO:</b>

**LIST OF APPROVED/RECOMMENDED INSECTICIDES**

				<ul style="list-style-type: none"> <li>- <i>Polyphagotarsonemus latus</i>, <i>Tetranychus</i> sp. (Mites)</li> </ul>
78.	Tetradifon		IV	<b>PAPAYA, CITRUS, GUAVA, MANGO, STRAWBERRY, WATERMELON, SUGARCANE, ORNAMENTAL PLANTS:</b> <ul style="list-style-type: none"> <li>- Red mites (<i>Tetranychus</i> sp.)</li> </ul>
79.	Thiamethoxam	Neonicotinoid	IV	<b>TOMATO, EGGPLANT:</b> <ul style="list-style-type: none"> <li>- <i>Aleurodicus disperses</i>, <i>Bemisia tabaci</i> (Whitefly)</li> </ul> <b>EGGPLANT, OKRA:</b> <ul style="list-style-type: none"> <li>- <i>Empoasca fabae</i> (Leafhopper)</li> </ul> <b>CITRUS:</b> <ul style="list-style-type: none"> <li>- <i>Diaphorina citri</i> (Leafhopper)</li> <li>- <i>Toxoptera citricida</i> (Aphids)</li> </ul> <b>MANGO:</b> <ul style="list-style-type: none"> <li>- <i>Megarulothrips</i> sp. (Thrips)</li> </ul> <b>PADDY:</b> <ul style="list-style-type: none"> <li>- <i>Nilaparvata lugens</i> (Brown planthopper)</li> </ul>
80.	Thiamethoxam + Chlorantraniliprole	Neonicotinoid + Diamide	III	<b>BRASSICA:</b> <ul style="list-style-type: none"> <li>- <i>Plutella xylostella</i> (Diamondback moth)</li> </ul>

**LIST OF APPROVED/RECOMMENDED INSECTICIDES**

				<p><b>FRENCH BEAN:</b></p> <ul style="list-style-type: none"> <li>- <i>Maruca testulalis</i> (Pod borer)</li> </ul> <p><b>EGGPLANT:</b></p> <ul style="list-style-type: none"> <li>- <i>Bemisia tabaci</i> (Whitefly)</li> <li>- <i>Empoasca fabae</i> (Leafhopper)</li> </ul> <p><b>TOMATO:</b></p> <ul style="list-style-type: none"> <li>- <i>Leucinodes orbonalis</i> (Fruit borer)</li> </ul>
81.	Thiamethoxam + Lambda-cyhalothrin	Neonicotinoid + Pyrethroid	II	<p><b>LONG BEAN:</b></p> <ul style="list-style-type: none"> <li>- <i>Empoasca fabae</i> (Leafhopper)</li> <li>- <i>Maruca testulalis</i> (Pod borer)</li> <li>- <i>Megalurothrips usitatus</i> (Thrips)</li> </ul> <p><b>TOMATO:</b></p> <ul style="list-style-type: none"> <li>- <i>Bemisia tabaci</i> (Whitefly)</li> </ul> <p><b>EGGPLANT:</b></p> <ul style="list-style-type: none"> <li>- <i>Bemisia tabaci</i> (Whitefly)</li> <li>- <i>Empoasca fabae</i> (Leafhopper)</li> </ul> <p><b>CHILLI:</b></p> <ul style="list-style-type: none"> <li>- <i>Bemisia tabaci</i> (Whitefly)</li> <li>- <i>Helicoverpa armigera</i> (Fruit borer)</li> </ul> <p><b>OKRA:</b></p> <ul style="list-style-type: none"> <li>- <i>Spodoptera litura</i> (Armyworm)</li> <li>- <i>Empoasca fabae</i> (Leafhopper)</li> </ul>

**LIST OF APPROVED/RECOMMENDED INSECTICIDES**

				<ul style="list-style-type: none"> <li>- <i>Dysdercus cingulatus</i> (Red cotton bug)</li> </ul> <p><b>PADDY:</b></p> <ul style="list-style-type: none"> <li>- <i>Leptocorisa oratorius</i> (Rice bug)</li> </ul> <p><b>BRASSICA:</b></p> <ul style="list-style-type: none"> <li>- <i>Phyllotreta vittata</i> (Flea beetle)</li> </ul>
82.	Thiocyclam-hydrogen oxalate	Nereistoxin analogue	III	<p><b>TOMATO:</b></p> <ul style="list-style-type: none"> <li>- <i>Leucinodes orbonalis</i> (Fruit borer)</li> <li>- <i>Chromatomyia horticola</i> (Leaf miner)</li> </ul>
83.	Tolfenpyrad	METI acaricide	II	<p><b>BRASSICA:</b></p> <ul style="list-style-type: none"> <li>- <i>Phyllotreta striolata</i> (Flea beetle)</li> <li>- <i>Plutella xylostella</i> (Diamondback moth)</li> </ul>
84.	White oil	Mineral oil	IV	<p><b>PAPAYA, CITRUS, MANGO, ORCHID, ROSE:</b></p> <ul style="list-style-type: none"> <li>- <i>Coccus</i> sp., <i>Aonidiella</i> sp. (Scale insects)</li> </ul> <p><b>GUAVA, HIBISCUS:</b></p> <ul style="list-style-type: none"> <li>- <i>Planococcus</i> sp. (Mealybug)</li> </ul>