

# Use of Potential Pesticides for successful crop production

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## Preface

Insects, diseases and weeds are the major problem in gaining higher yield of any crop. Chemical control of pests has become so indispensable that no crop can yield better without proper use of pesticides. Use of pesticides has posed some severe threats to the human health. In spite of the fact that some of the companies have developed high LD value, safer IGR pesticides which are considered as human friendly and some of them safer on beneficial insects, severe reservations are still found against the use of pesticides for crop production. The idea of organic farming has developed to avoid health hazards caused by the pesticides.








As pesticides have become an integral part of modern crop production technology, more than 300 companies are involved in catering pesticides in Punjab. Thousands of pesticides formulations are being marketed through national and multinational companies. Some of the fake companies and dealers are making their business in the far-flung rural areas. Some of the companies are providing standard and costly but most are supplying sub standard but cheaper pesticides. Many of the companies are misusing the provision of form-17 and are marketing substandard pesticides.









Pesticides have become as the most important tool for seasonal and off season crop production in Punjab. With the exception of few, most of our farming community is poor, neither properly educated nor trained for the effective use of pesticides. Therefore, they can neither decide which of the pesticide to select out of hundreds nor have capacity to purchase a potential pesticide. Mostly, untrained local dealers provide the agricultural material and guide the farmers about the use of those pesticides in which income margin is more.









Socio economic conditions have compelled our farming community to use sub standard pesticides. Frequent use of substandard pesticides has resulted into the poor pest control, wastage of national resources and development of resistance in insects, diseases and weeds. There is a hue and cry among the farmers about the frequency of substandard pesticides. This booklet has just been compiled to guide the farmers, students and trainers of agriculture. Major objective is to facilitate the pest-wise selection of potential pesticides for successful crop production. In addition to the unbiased suggestions in this booklet, several others which are not mentioned here, are also equally important. The author would welcome suggestions to improve the book.









Muhammad Ashiq  
July 10, 2017









## Whichever the weed – Whichever the weedicide

Weed	Picture	Crop	Weedicide
<p><b><i>Trianthema portulacastrum</i></b> Horse purslane اٹ سٹ، وساه</p>		Maize Maize Sugarcane Sugarcane Cotton and Vegetables	Voltril 63 EC Primextra gold 720 SC Fallisto gold 550 SC Clio combo 33.6 SC Stomp 455 g/l CS Dual gold 960 EC
<p><b><i>Cyperus rotundus</i></b> Purple nutsedge ڈیلا یا مورک</p>		Maize Rice Sugarcane Sugarcane Cotton Cotton Vegetables	Halt/Orcus 80 WDG Sunstar gold 60 WG Halt/Orcus 80 WDG Fallisto gold 550 SC Pert plus 96 EC Dual gold 960 EC Dual gold 960 EC
<p><b><i>Phalaris minor</i></b> Birds seed grass ڈمبی سٹی، سٹی بوٹی</p>		Wheat Wheat Wheat Wheat Gram & Vegetables	Axial 050 EC Certain plus 14.4 EC Atlantis 3.6 WG Affinity ultra 12.4 WP Stomp 455 g/l CS Dual gold 960 EC
<p><b><i>Echinochloa colona</i></b> Jungle rice grass سوانکی</p>		Maize Rice Sugarcane Cotton Pulses Vegetables	Fallisto gold 550 SC Zebra 10 SC 10 SC Clio combo 33.6 SC Stomp 455 g/l CS Dual gold 960 EC -do-
<p><b><i>Avena fatua</i></b> Wild oat جنگلی جئی</p>		Wheat Wheat Wheat Wheat Gram Vegetables	Axial 050 EC Certain plus 14.4 EC Atlantis 3.6 WG Affinity ultra 12.4 WP Puma super 69 EW G Max Lite 15 EC
<p><b><i>Cynodon dactylon</i></b> Bermuda grass کھیل یا تہ</p>		Sugarcane Maize Cotton Lucerne Vegetables Non croplands Rose	Clio combo 33.6 SC Clio combo 33.6 SC G Max Lite 15 EC Puma super 69 EW Percept 10.8 EC Round up PM 540 g/l SL Puma super 69 EW
<p><b><i>Dactyloctenium aegyptium</i></b> Egyptian grass مدھانہ گھاس</p>		Maize Maize Sugarcane Sugarcane Cotton Vegetables	Primextra gold 720 SC Clio combo 33.6 SC Fallisto gold 550 SC Clio combo 33.6 SC Stomp 455 g/l CS Dual gold 960 EC









<p><b><i>Brachiaria reptans</i></b> Creeping panic grass چھوٹا مدھانہ</p>		<p>Maize Maize Sugarcane Sugarcane Cotton Vegetables</p>	<p><i>Primextra gold 720 SC</i> <i>Clio combo 33.6 SC</i> <i>Fallisto gold 550 SC</i> <i>Clio combo 33.6 SC</i> <i>Stomp 455 g/l CS</i> <i>Dual gold 960 EC</i></p>
<p><b><i>Coronopus didymus</i></b> Swinecress جنگلی ہالوں</p>		<p>Vegetables Potato Wheat Sugarcane Maize</p>	<p><i>Dual gold 960 EC</i> <i>Sencor 70 WP 70 WP</i> <i>Buctril super 60 EC 60</i> <i>Fallisto gold 550 SC</i> <i>Primextra gold 720 SC</i></p>
<p><b><i>Lathyrus aphaca</i></b> Crow pea جنگلی مٹر</p>		<p>Wheat Wheat Vegetables Lentils</p>	<p><i>Lancelot 45 WG</i> <i>Harvester 50 EC</i> <i>Stomp 455 g/l CS</i> <i>Dual gold 960 EC</i></p>
<p><b><i>Chenopodium album</i></b> Common goosefoot باتھو</p>		<p>Wheat Wheat Wheat Vegetables Pulses</p>	<p><i>Lancelot 45 WG</i> <i>Buctril super 60 EC</i> <i>Allymax 66.7 WG</i> <i>Stomp 455 g/l CS</i> <i>Stomp 455 g/l CS</i></p>
<p><b><i>Convolvulus arvensis</i></b> Field bindweed لیہلی</p>		<p>Wheat Wheat Wheat Wheat Onion, garlic Mung Non croplands</p>	<p><i>Lancelot 45 WG</i> <i>Buctril super 60 EC</i> <i>Aim 40 DF</i> <i>Allymax 66.7 WG</i> <i>Axifin 24 EC</i> <i>Conquest 24 EC</i> <i>Round up P M 540 g/l SL</i></p>
<p><b><i>Digera muricata</i></b> False amaranth تانلہ</p>		<p>Maize Sugarcane Sugarcane Cotton Cotton Vegetables</p>	<p><i>Primextra gold 720 SC</i> <i>Fallisto gold 550 SC</i> <i>Atrazine 38 SC</i> <i>Stomp 455 g/l CS</i> <i>Dual gold 960 EC</i> <i>Dual gold 960 EC</i></p>
<p><b><i>Echinochloa crus galli</i></b> Barnyard grass ڈھن</p>		<p>Rice Rice Sugarcane Sugarcane Cotton Cotton</p>	<p><i>Machete 60 EC</i> <i>Zebra 10 SC 10 SC</i> <i>Fallisto gold 550 SC</i> <i>Clio combo 33.6 SC</i> <i>Stomp 455 g/l CS</i> <i>Dual gold 960 EC</i></p>
<p><b><i>Rumex dentatus</i></b> Broadleaf dock جنگلی پالک</p>		<p>Wheat Wheat Wheat Vegetables Vegetables</p>	<p><i>Buctril super 60 EC</i> <i>Logran 75 WG</i> <i>Allymax 66.7 WG</i> <i>Stomp 455 g/l CS</i> <i>Dual gold 960 EC</i></p>

<p><b><i>Amaranthus viridis</i></b> Slender amaranth جنگلی چولانی</p>		<p>Maize Maize Sugarcane Sugarcane Cotton Vegetables</p>	<p>Voltril 63 EC Primextra gold 720 SC Fallisto gold 550 SC Clio combo 33.6 SC Stomp 455 g/l CS Dual gold 960 EC</p>
<p><b><i>Anagallis arvensis</i></b> Blue pimpernel بلی بوٹی</p>		<p>Wheat Wheat Vegetables Vegetables</p>	<p>Logran 75 WG Allymax 66.7 WG Stomp 455 g/l CS Dual gold 960 EC</p>
<p><b><i>Chenopodium murale</i></b> Fathen, nettle leaved goosefoot کرنڈ</p>		<p>Wheat Wheat Wheat Vegetables Vegetables</p>	<p>Buctril super 60 EC Logran 75 WG Allymax 66.7 WG Pendimethalin Dual gold 960 EC</p>
<p><b><i>Paspalum paspaloides</i></b> Water couch نڑوگھاس</p>		<p>Rice Rice Sugarcane Vegetables Non croplands Rose</p>	<p>Topstar 80 WP Kelion 50 WG Clio combo 33.6 SC Percept 10.8 EC Round up P M 540 g/l SL Puma super 69 EW</p>
<p><b><i>Medicago polymorpha</i></b> Bur clover مینا</p>		<p>Wheat Wheat Wheat Vegetables Carrot</p>	<p>Allymax 66.7 WG Buctril super 60 EC Stomp 455 g/l CS Dual gold 960 EC Rage 75 WDG</p>
<p><b><i>Melilotus indica</i></b> Yellow sweetclover سینجی زرد</p>		<p>Wheat Wheat Wheat Vegetables Carrot</p>	<p>Buctril super 60 EC Allymax 66.7 WG Stomp 455 g/l CS Dual gold 960 EC Rage 75 WDG</p>
<p><b><i>Portulaca oleracea</i></b> Common purslane لُونک یا قلفہ</p>		<p>Maize Maize Sugarcane Sugarcane Cotton and Vegetables</p>	<p>Atrazine 38 SC Primextra gold 720 SC Atrazine Primextra gold 720 SC Stomp 455 g/l CS Dual gold 960 EC</p>
<p><b><i>Cucumis melo</i></b> Var. Aggrestis Wild cucurbit چبھڑ</p>		<p>Maize Maize Sugarcane Sugarcane Cotton Vegetables</p>	<p>Voltril 63 EC Primextra gold 720 SC Fallisto gold 550 SC Clio combo 33.6 SC Full clear 50 EC Dual gold 960 EC</p>

<p><b><i>Leptochloa panicea</i></b> Asian sprangletop لمب گھاس</p>		<p>Maize Maize Sugarcane Sugarcane Cotton and Vegetables</p>	<p><i>Fallisto gold 550 SC</i> <i>Clio combo 33.6 SC</i> <i>Fallisto gold 550 SC</i> <i>Clio combo 33.6 SC</i> <i>Stomp 455 g/l CS</i> <i>Dual gold 960 EC</i></p>
<p><b><i>Physalis minima</i></b> Goose berry بھمبولا</p>		<p>Maize Maize Sugarcane Sugarcane Cotton Potato</p>	<p><i>Fallisto gold 550 SC</i> <i>Primextra gold 720 SC</i> <i>Challenge 60 SC</i> <i>Fallisto gold 550 SC</i> <i>Full clear 50 EC</i> <i>Challenge 60 SC</i></p>
<p><b><i>Poa annua</i></b> Annual blue grass نیلی گھاس</p>		<p>Wheat Wheat Wheat Vegetables Vegetables Lawns</p>	<p><i>Axial 050 EC</i> <i>Atlantis 3.6 WG</i> <i>Affinity ultra 12.4 WP</i> <i>Stomp 455 g/l CS</i> <i>Dual gold 960 EC Sencor 70 WP</i></p>
<p><b><i>Scirpus maritimus</i></b> Bulrush, clubrush, بڑا ڈیلا</p>		<p>Rice Rice Rice Rice Sugarcane Sugarcane</p>	<p><i>Kelion 50 WG</i> <i>Halt/Orcus 80 WDG</i> <i>Sunstar gold 60 WG</i> <i>Zebra 10 SC</i> <i>Halt/Orcus 80 WDG</i> <i>Fallisto gold 550 SC</i></p>
<p><b><i>Sorghum halepense</i></b> Johnson grass بڑو گھاس</p>		<p>Sugarcane Maize Cotton Vegetables Non croplands Rose</p>	<p><i>Clio combo 33.6 SC</i> <i>Clio combo 33.6 SC</i> <i>G Max Lite 15 EC</i> <i>Percept 10.8 EC</i> <i>Round up P M 540 g/l SL</i> <i>Puma super 69 EW</i></p>
<p><b><i>Cuscuta campestris</i> <i>Cuscuta reflexa</i></b> Dodder آکاش بیل، امر بیل</p>		<p>Lucerne Lucerne Hedges</p>	<p><i>Stomp 455 g/l CS</i> <i>Gramoquat 20 SL</i> <i>Round up P M 540 g/l SL</i> <i>Not fully researched</i></p>
<p><b><i>Fumaria indica</i></b> Fumitory شابتھرہ، پاپڑہ</p>		<p>Wheat Wheat Wheat Vegetables Carrot</p>	<p><i>Buctril super 60 EC</i> <i>Allymax 66.7 WG</i> <i>Stomp 455 g/l CS</i> <i>Dual gold 960 EC</i> <i>Rage 75 WDG</i></p>
<p><b><i>Asphodelus tenuifolius</i></b> Jungle onion پیازی، بھوکاٹ</p>		<p>Wheat Wheat Wheat Vegetables Gram</p>	<p><i>Harvester 50 EC</i> <i>Buctril super 60 EC</i> <i>Logran 75 WG</i> <i>Challenge 60 SC</i> <i>Not fully researched</i></p>

<p><b><i>Stellaria media</i></b> Common chickweed پھولن بوٹی</p>		<p>Gardens Gardens Vegetables Vegetables Vegetables</p>	<p><i>Gramoquat 20 SL</i> <i>Round up P M 540 g/l SL</i> <i>Stomp 455 g/l CS</i> <i>Dual gold 960 EC</i> <i>Challenge 60 SC</i></p>
<p><b><i>Astragalus gummifer</i></b> Milk vetch رُت پُلاھی</p>		<p>Gram Vegetables Wheat</p>	<p><i>Tribunil 70 WP</i> <i>Challenge 60 SC</i> <i>Buctril super 60 EC</i> <i>Not fully researched</i></p>
<p><b><i>Bromus japonicus</i></b> Cheat grass چاولی، سلانی</p>		<p>Wheat Wheat Wheat</p>	<p><i>Atlantis 3.6 WG</i> <i>Sulfan 75 WG</i> <i>Sencor 70 WP</i> <i>Not fully researched</i></p>
<p><b><i>Cleome viscosa</i></b> Spider flower بہل</p>		<p>Maize post Sugarcane Cotton Vegetables Mung</p>	<p><i>Primextra gold 720 SC</i> <i>Fallisto gold 550 SC</i> <i>Full clear 50 EC</i> <i>Challenge 60 SC</i> <i>Conquest 24 EC</i></p>
<p><b><i>Cyperus difformis</i></b> Small flower umbrella plant گھونیں</p>		<p>Rice Rice Rice Sugarcane Cotton Vegetables</p>	<p><i>Machete 60 EC</i> <i>Kelion 50 WG</i> <i>Zebra 10 SC 10 SC</i> <i>Fallisto gold 550 SC</i> <i>Stomp 455 g/l CS</i> <i>Dual gold 960 EC</i></p>
<p><b><i>Cyperus iria</i></b> Rice flat sedge بھونیں</p>		<p>Rice Rice Rice Sugarcane Cotton Vegetables</p>	<p><i>Machete 60 EC</i> <i>Kelion 50 WG</i> <i>Zebra 10 SC 10 SC</i> <i>Fallisto gold 550 SC</i> <i>Stomp 455 g/l CS</i> <i>Dual gold 960 EC</i></p>
<p><b><i>Digitaria adscendens</i></b> Crab grass کھڑمدھان</p>		<p>Maize Sugarcane Cotton Vegetables Vegetables Mung</p>	<p><i>Clio combo 33.6 SC</i> <i>Fallisto gold 550 SC</i> <i>Full clear 50 EC</i> <i>Stomp 455 g/l CS</i> <i>Dual gold 960 EC</i> <i>Percept 10.8 EC</i></p>
<p><b><i>Euphorbia granulata</i></b> Garden spurge بزاردانی</p>		<p>Maize Sugarcane Cotton Vegetables Lawns Lawns</p>	<p><i>Primextra gold 720 SC</i> <i>Fallisto gold 550 SC</i> <i>Full clear 50 EC</i> <i>Challenge 60 SC</i> <i>Starane-M 50 EC</i> <i>Buctril super 60 EC</i></p>



<p><b><i>Heliotropium indicum</i></b> Indian heliotrope اونٹ کٹارا</p>		<p>Maize Sugarcane Cotton Vegetables Wheat Wheat</p>	<p><i>Primextra gold 720 SC</i> <i>Fallisto gold 550 SC</i> <i>Full clear 50 EC</i> <i>Challenge 60 SC</i> <i>Starane-M 50 EC</i> <i>Buctril super 60 EC</i></p>
<p><b><i>Parthenium hysterophorus</i></b> Cogress weed پارتھینیم، گاجر بوٹی</p>		<p>Maize Sugarcane Cotton Vegetables Wheat Non croplands</p>	<p><i>Primextra gold 720 SC</i> <i>Fallisto gold 550 SC</i> <i>Full clear 50 EC</i> <i>Challenge 60 SC</i> <i>Buctril super 60 EC</i> <i>Round up P M 540 g/l SL</i></p>
<p><b><i>Polypogon monspeliensis</i></b> Winter grass دُنب گھاس</p>		<p>Wheat Wheat Wheat Wheat Vegetables Vegetables</p>	<p><i>Isoproturon 50 WP</i> <i>Puma super 69 EW</i> <i>Sencor 70 WP</i> <i>Affinity ultra 12.4 WP</i> <i>Stomp 455 g/l CS</i> <i>Dual gold 960 EC</i></p>
<p><b><i>Rostraria macrantha</i></b> Hair grass سُرْمچُو گھاس</p>		<p>Wheat Wheat  Vegetables Vegetables</p>	<p><i>Atlantis 3.6 WG</i> <i>Sencor 70 WP</i>  <i>Stomp 455 g/l CS</i> <i>Dual gold 960 EC</i></p>
<p><b><i>Vicia sativa</i></b> Common vetch ریواڑی</p>		<p>Wheat Wheat  Vegetables Vegetables</p>	<p><i>Harvester 50 EC</i> <i>Buctril super 60 EC</i>  <i>Stomp 455 g/l CS</i> <i>Dual gold 960 EC</i></p>
<p><b><i>Setaria viridis</i></b> Green foxtail لومڑ گھاس</p>		<p>Maize Sugarcane Cotton Vegetables Vegetables</p>	<p><i>Voltril 63 EC</i> <i>Clio combo 33.6 SC</i> <i>Full clear 50 EC</i> <i>Stomp 455 g/l CS</i> <i>Dual gold 960 EC</i></p>
<p><b><i>Tribulus terrestris</i></b> Puncture vine بھکھڑا</p>		<p>Maize Sugarcane Cotton  Vegetables</p>	<p><i>Voltril 63 EC</i> <i>Clio combo 33.6 SC</i> <i>Full clear 50 EC</i>  <i>Challenge 60 SC</i></p>
<p><b><i>Spergula arvensis</i></b> Corn spurry کلری بوٹی</p>		<p>Wheat Wheat Vegetables Vegetables</p>	<p><i>Harvester 50 EC</i> <i>Buctril super 60 EC</i> <i>Stomp 455 g/l CS</i> <i>Dual gold 960 EC</i></p>

## Sources of potential weedicide

Weed	Crop	Weedicide	Active ingredient	Dose/A	Company
<b>Trianthema portulacastrum</b> Horse purslane اث ست، ساه	Maize	Voltril 63 EC	Mesotrione+ S metolachlor	1000 ml	Evyol group
	Maize	Primextra gold 720 SC	Atrazine+S metolachlor	800 ml	Syngenta
	Sugarcane	Fallisto gold 550 SC	Mesotrione+atrazine	1000 ml	Suncrop
	Sugarcane	Clio combo 33.6 SC	Topramezone+atrazine	35+500	Swat Agro
	Cotton and Vegetables	Stomp 455 g/l CS Dual gold 960 EC	Pendimethalin S metolachlor	1000 ml 800 ml	FMC Syngenta
<b>Cyperus rotundus</b> Purple nutsedge ثيلا يا مورک	Maize	Halt/Orcus 80 WDG	Halosulfuron	20 gram	Evyol group
	Rice	Sunstar gold 60 WG	Ethoxysulfuron ethyl	20 gram	Bayer
	Sugarcane	Halt/Orcus 80 WDG	Halosulfuron	20 gram	Evyol group
	Sugarcane	Fallisto gold 550 SC	Mesotrione+atrazine	1000 ml	Suncrop
	Cotton	Pert plus 96 EC	Metolachlor+ pendimethalin	1000 ml	Evyol group
<b>Phalaris minor</b> Birds seed grass نمبي سفي، سفي بوئي	Cotton	Dual gold 960 EC	S metolachlor	800 ml	Syngenta
	Vegetables	Dual gold 960 EC	S metolachlor	800 ml	Syngenta
	Wheat	Axial 050 EC	Penoxaden	330 ml	Syngenta
	Wheat	Certain plus 14.4 EC	Fenoxa+clodin+tralkox	500 ml	Evyol group
	Wheat	Atlantis 3.6 WG	Meso+iodosulfuron	160+160	Bayer
<b>Echinochloa colona</b> Jungle rice grass سوانكي	Wheat	Affinity ultra 12.4 WP	Clodina+carfentra+mets	225 gram	FMC
	Gram & Vegetables	Stomp 455 g/l CS Dual gold 960 EC	Pendimethalin S metolachlor	1000 ml 800 ml	FMC Syngenta
	Maize	Fallisto gold 550 SC	Mesotrione+atrazine	1000 ml	Suncrop
	Rice	Zebra 10 SC 10 SC	Bispyribac sodium	120 ml	Four B
	Sugarcane	Clio combo 33.6 SC	Topramezone+atrazine	35+500	Swat Agro
<b>Avena fatua</b> Wild oat جنگلي جني	Cotton	Stomp 455 g/l CS	Pendimethalin	1000 ml	FMC
	Vegetables	Dual gold 960 EC	S metolachlor	800 ml	Syngenta
	Wheat	Axial 050 EC	Penoxaden	330 ml	Syngenta
	Wheat	Certain plus 14.4 EC	Fenoxa+clodin+tralkox	500 ml	Evyol group
	Wheat	Atlantis 3.6 WG	Meso+iodosulfuron	160+160	Bayer
<b>Cynodon dactylon</b> Bermuda grass كهيلا يا تلہ	Wheat	Affinity ultra 12.4 WP	Clodina+carfentra+mets	500 ml	FMC
	Gram	Puma super 69 EW	Fenoxaprop	500 ml	Bayer
	Vegetables	G Max Lite 15 EC	Qizalofop-P-ethyl	250 ml	Tara group
	Sugarcane	Clio combo 33.6 SC	Topramezone+atrazine	35+500	Swat Agro
	Maize	Clio combo 33.6 SC	Topramezone+atrazine	35+500	Swat Agro
<b>Dactyloctenium aegyptium</b> Egyptian grass مدھانہ گھاس	Cotton	G Max Lite 15 EC	Qizalofop-P-ethyl	250 ml	Tara group
	Vegetables	Puma super 69 EW	Fenoxaprop	800 ml	Bayer
	Non croplands	Percept 10.8 EC	Haloxypol	350 ml	Evyol group
	Rose	Round up PM 540 g/l SL	Glyphosate	2000 ml	Monsanto
	Vegetables	Puma super 69 EW	Fenoxaprop	800 ml	Bayer
<b>Brachiaria reptans</b> Creeping panic grass چھوٹا مدھانہ	Maize	Primextra gold 720 SC	Atrazine+S metolachlor	800 ml	Syngenta
	Maize	Clio combo 33.6 SC	Topramezone+atrazine	35+500	Swat Agro
	Sugarcane	Fallisto gold 550 SC	Mesotrione+atrazine	1000 ml	Suncrop
	Sugarcane	Clio combo 33.6 SC	Topramezone+atrazine	35+500	Swat Agro
	Cotton	Stomp 455 g/l CS	Pendimethalin	1000 ml	FMC
<b>Coronopus didymus</b> Swinecress جنگلي ھالوں	Vegetables	Dual gold 960 EC	S metolachlor	800 ml	Syngenta
	Potato	Sencor 70 WP 70 WP	Metribuzin	250 gram	Bayer
	Wheat	Buctril super 60 EC 60	Bromoxynil+MCPA	400 ml	Bayer
	Sugarcane	Fallisto gold 550 SC	Mesotrione+atrazine	1000 ml	Suncrop
	Maize	Primextra gold 720 SC	Atrazine+S metolachlor	800 ml	Syngenta
<b>Lathyrus aphaca</b> Crow pea جنگلي مٹر	Maize	Primextra gold 720 SC	Atrazine+S metolachlor	800 ml	Syngenta
	Maize	Clio combo 33.6 SC	Topramezone+atrazine	35+500	Swat Agro
	Sugarcane	Fallisto gold 550 SC	Mesotrione+atrazine	1000 ml	Suncrop
	Sugarcane	Clio combo 33.6 SC	Topramezone+atrazine	35+500	Swat Agro
	Cotton	Stomp 455 g/l CS	Pendimethalin	1000 ml	FMC
<b>Chenopodium album</b> Common goosefoot باتھو	Vegetables	Dual gold 960 EC	S metolachlor	800 ml	Syngenta
	Wheat	Lancelot 45 WG	Aminopyralid+florasulam	12.5 g	Ali Akbar
	Wheat	Harvester 50 EC	Fluroxypyr+MCPA	400 ml	Evyol group
	Vegetables	Stomp 455 g/l CS	Pendimethalin	1000 ml	FMC
	Lentils	Dual gold 960 EC	S metolachlor	800 ml	Syngenta
<b>Convolvulus arvensis</b>	Wheat	Lancelot 45 WG	Aminopyralid+florasulam	12.5 g	Ali Akbar
	Wheat	Buctril super 60 EC	Bromoxynil+MCPA	300 ml	Bayer
	Wheat	Aim 40 DF	Carfentrazon	20 gram	FMC
	Wheat	Lancelot 45 WG	Aminopyralid+florasulam	12.5 g	Ali Akbar
	Wheat	Buctril super 60 EC	Bromoxynil+MCPA	300 ml	Bayer




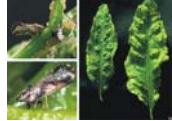







Field bindweed لبیلی	Wheat Onion, garlic Mung Non croplands	Allymax 66.7 WG Axifin 24 EC Conquest 24 EC Round up P M 540 g/l SL	Metsulfuron+ tribenuron Oxyfluorfen Lactofen Glyphosate	08 gram 300 ml 200 ml 2000 ml	Syngenta Evyol group Evyol group Monsanto
<b>Digera muricata</b> False amaranth تاتلدہ	Maize Sugarcane Sugarcane Cotton Cotton Vegetables	Primextra gold 720 SC Fallisto gold 550 SC Atrazine 38 SC Stomp 455 g/l CS Dual gold 960 EC Dual gold 960 EC	Atrazine+S metolachlor Mesotrione+atrazine Atrazine Pendimethalin S metolachlor S metolachlor	800 ml 1000 ml 1000 ml 1000 ml 800 ml	Syngenta Suncrop Several FMC Syngenta
<b>Echinochloa crus galli</b> Barnyard grass ڈھنن	Rice Rice Sugarcane Sugarcane Cotton Cotton	Machete 60 EC Zebra 10 SC 10 SC Fallisto gold 550 SC Clio combo 33.6 SC Stomp 455 g/l CS Dual gold 960 EC	Butachlor Bispyribac sodium Mesotrione+atrazine Topramezone+atrazine Pendimethalin S metolachlor	800 ml 120 ml 1000 ml 35+500 ml 1000 ml 800 ml	FMC Four B Suncrop Swat Agro FMC Syngenta
<b>Rumex dentatus</b> Broadleaf dock جنگلی پالک	Wheat Wheat Wheat Vegetables Vegetables	Buctril super 60 EC Logran 75 WG Allymax 66.7 WG Stomp 455 g/l CS Dual gold 960 EC	Bromoxynil+MCPA Triasulfuron Metsulfuron+ tribenuron Pendimethalin S metolachlor	300 ml 16 gram 08 gram 1000 ml 800 ml	Bayer Syngenta Syngenta FMC Syngenta
<b>Amaranthus viridis</b> Slender amaranth جنگلی چولانی	Maize Maize Sugarcane Sugarcane Cotton Vegetables	Voltril 63 EC Primextra gold 720 SC Fallisto gold 550 SC Clio combo 33.6 SC Stomp 455 g/l CS Dual gold 960 EC	Mesotrion+S metolachlor Atrazine+S metolachlor Mesotrione+atrazine Topramezone+atrazine Pendimethalin S metolachlor	1000 ml 800 ml 1000 ml 35+500 1000 ml 800 ml	Evyol group Syngenta Suncrop Swat Agro FMC Syngenta
<b>Anagallis arvensis</b> Blue pimpernel بلی بوئی	Wheat Wheat Vegetables Vegetables	Logran 75 WG Allymax 66.7 WG Stomp 455 g/l CS Dual gold 960 EC	Triasulfuron Metsulfuron+ tribenuron Pendimethalin S metolachlor	16 gram 08 gram 1000 ml 800 ml	Syngenta Syngenta FMC Syngenta
<b>Chenopodium murale</b> Fathen, nettle leaved goosefoot گزندا	Wheat Wheat Wheat Vegetables Vegetables	Buctril super 60 EC Logran 75 WG Allymax 66.7 WG Pendimethalin Dual gold 960 EC	Bromoxynil+MCPA Triasulfuron Tribenuron+metsulfuron Pendimethalin S metolachlor	300 ml 16 gram 08 gram 1000 ml 800 ml	Bayer Syngenta Syngenta FMC Syngenta
<b>Paspalum paspaloides</b> Water couch نڑوگھاس	Rice Rice Sugarcane Vegetables Non croplands Rose	Topstar 80 WP Kelion 50 WG Clio combo 33.6 SC Percept 10.8 EC Round up P M 540 g/l SL Puma super 69 EW	Oxadiazyl Orthosulfamuron Topramezone+atrazine Haloxypop Glyphosate Fenoxaprop	40 gram 80 gram 35+500 350 ml 2000 ml 800 ml	Bayer Jaffar Agro Swat Agro Evyol group Monsanto Bayer
<b>Medicago polymorpha</b> Bur clover مینا	Wheat Wheat Wheat Vegetables Carrot	Allymax 66.7 WG Buctril super 60 EC Stomp 455 g/l CS Dual gold 960 EC Rage 75 WDG	Metsulfuron+ tribenuron Bromoxynil+MCPA Pendimethalin S metolachlor Linuron	08 gram 300 ml 1000 ml 800 ml 300 gram	Syngenta Bayer FMC Syngenta Evyol group
<b>Melilotus indica</b> Yellow sweetclover سینجی زرد	Wheat Wheat Wheat Vegetables Carrot	Buctril super 60 EC Allymax 66.7 WG Stomp 455 g/l CS Dual gold 960 EC Rage 75 WDG	Bromoxynil+MCPA Metsulfuron+ tribenuron Pendimethalin S metolachlor Linuron	40 ml 08 gram 1000 ml 800 ml 300 gram	Bayer Syngenta FMC Syngenta Evyol group
<b>Portulaca oleracea</b> Common purslane ٹونک یا قلفہ	Maize Maize Sugarcane Sugarcane Cotton and Vegetables	Atrazine 38 SC Primextra gold 720 SC Atrazine Primextra gold 720 SC Stomp 455 g/l CS Dual gold 960 EC	Atrazine Atrazine+S metolachlor Atrazine Atrazine+S metolachlor Pendimethalin S metolachlor	500 ml 500 ml 1000 ml 1000 ml 1000 ml 800 ml	Several Syngenta Several Syngenta FMC Syngenta
<b>Cucumis melo</b> Var. Aggrestis <b>Wild cucurbit</b> چیہڑ	Maize Maize Sugarcane Sugarcane Cotton Vegetables	Voltril 63 EC Primextra gold 720 SC Fallisto gold 550 SC Clio combo 33.6 SC Full clear 50 EC Dual gold 960 EC	Atrazine+S metolachlor Atrazine+S metolachlor Mesotrione+atrazine Topramezone+atrazine Pendi+metola+oxifluor S metolachlor	1000 ml 400 ml 1000 ml 35+500 1000 ml 800 ml	Evyol group Syngenta Suncrop Swat Agro Warbal Syngenta
<b>Leptochloa panicea</b> Asian sprangletop لمب گھاس	Maize Maize Sugarcane Sugarcane Cotton and Vegetables	Fallisto gold 550 SC Clio combo 33.6 SC Fallisto gold 550 SC Clio combo 33.6 SC Stomp 455 g/l CS Dual gold 960 EC	Mesotrione+atrazine Topramezone+atrazine Mesotrione+atrazine Topramezone+atrazine Pendimethalin S metolachlor	1000 ml 35+500 1000 ml 35+500 1000 ml 800 ml	Sun crop Swat Agro Sun crop Swat Agro FMC Syngenta
<b>Physalis minima</b> Goose berry	Maize Maize	Fallisto gold 550 SC Primextra gold 720 SC	Mesotrione+atrazine Atrazine+S metolachlor	1000 ml 800 ml	Sun crop Syngenta




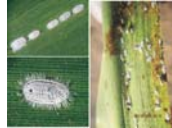







بھبھولا	Sugarcane Sugarcane Cotton Potato	Challenge 60 SC Fallisto gold 550 SC Full clear 50 EC Challenge 60 SC	Aclonifen Mesotrione+atrazine Pendi+metola+oxyfluor Aclonifen	500 ml 1000 ml 1000 ml 500 ml	Bayer Sun crop Warbal Bayer
<b>Poa annua</b> Annual blue grass نیلی گھاس	Wheat Wheat Wheat Vegetables Vegetables Lawns	Axial 050 EC Atlantis 3.6 WG Affinity ultra 12.4 WP Stomp 455 g/l CS Dual gold 960 EC Sencor 70 WP	Penoxaden Meso+iodosulfuron Clodina+carfentra+mets Pendimethalin S metolachlor Metribuzin	330 ml 160+160 225 gram 1000 ml 800 ml 120 gram	Syngenta Bayer FMC FMC Syngenta Bayer
<b>Scirpus maritimus</b> Bulrush, clubrush, پڑاڈیلا	Rice Rice Rice Rice Sugarcane Sugarcane	Kelion 50 WG Halt/Orcus 80 WDG Sunstar gold 60 WG Zebra 10 SC Halt/Orcus 80 WDG Fallisto gold 550 SC	Orthosulfamuron Halosulfuron Ethoxysulfuron Bispyribac sodium Halosulfuron Mesotrione+atrazine	80 gram 20 gram 20 gram 120 ml 20 gram 1000 ml	Jaffar Agro Evyol group Bayer Four B Evyol group Suncrop
<b>Sorghum halepense</b> Johnson grass بروگھاس	Sugarcane Maize Cotton Vegetables Non croplands Rose	Clio combo 33.6 SC Clio combo 33.6 SC G Max Lite 15 EC Percept 10.8 EC Round up P M 540 g/l SL Puma super 69 EW	Topramezone+atrazine Topramezone+atrazine Qizalofop Haloxypof Glyphosate Fenoxaprop	35+500 35+500 250 ml 350 ml 2000 ml 800 ml	Swat Agro Tara Agro Evyol group Monsanto Bayer
<b>Cuscuta campestris</b> <b>Cuscuta reflexa</b> Dodder اکٹھ بیل، امر بیل	Lucerne Lucerne Hedges	Stomp 455 g/l CS Gramoquat 20 SL Round up P M 540 g/l SL Not fully researched	Pendimethalin Paraquat Glyphosate	1000 ml 1000 ml 1000 ml	FMC ICI Monsanto
<b>Fumaria indica</b> Fumitory شابتہ، پاپڑہ	Wheat Wheat Wheat Vegetables Carrot	Buctril super 60 EC Allymax 66.7 WG Stomp 455 g/l CS Dual gold 960 EC Rage 75 WDG	Bromoxynil+MCPA Metsulfuron+tribenuron Pendimethalin S metolachlor Linuron	300 ml 08 gram 1000 ml 800 ml 300 gram	Bayer Syngenta FMC Syngenta Evyol group
<b>Asphodelus tenuifolius</b> Jungle onion پیازی، بھوکٹ	Wheat Wheat Wheat Vegetables Gram	Harvester 50 EC Buctril super 60 EC Logran 75 WG Challenge 60 SC Not fully researched	Iodosulfuron Bromoxynil+MCPA Triasulfuron Aclonifen	40 ml 300 ml 16 gram 500 ml	Evyol group Bayer Syngenta Bayer
<b>Stellaria media</b> Common chickweed پھولن بوٹی	Gardens Gardens Vegetables Vegetables Vegetables	Gramoquat 20 SL Round up P M 540 g/l SL Stomp 455 g/l CS Dual gold 960 EC Challenge 60 SC	Paraquat Glyphosate Pendimethalin S metolachlor Aclonifen	1000 ml 1000 ml 1000 ml 800 ml 500 ml	ICI Monsanto FMC Syngenta Bayer
<b>Astragalus gummifer</b> Milk vetch رت پھلاھی	Gram Vegetables Wheat	Tribunil 70 WP Challenge 60 SC Buctril super 60 EC Not fully researched	Methabenzthiazuron Aclonifen Bromoxynil+MCPA	800 g 500 ml 300 ml	Bayer Bayer Bayer
<b>Bromus japonicus</b> Cheat grass چاولی، سلانی	Wheat Wheat Wheat	Atlantis 3.6 WG Sulfan 75 WG Sencor 70 WP Not fully researched	Meso+iodosulfuron Sulfosulfuron Metribuzin	160+160 15+500 100 gram	Bayer Sun crop Bayer
<b>Cleome viscosa</b> Spider flower بیل	Maize post Sugarcane Cotton Vegetables Mung	Primextra gold 720 SC Fallisto gold 550 SC Full clear 50 EC Challenge 60 SC Conquest 24 EC	Atrazine+S metolachlor Mesotrione+atrazine Pendi+metola+oxyfluor Aclonifen Lactofen	400 ml 1000 ml 1000 ml 500 ml 200 ml	Syngenta Suncrop Warbal Bayer Evyol group
<b>Cyperus difformis</b> Small flower umbrella plant گھونین	Rice Rice Rice Sugarcane Cotton Vegetables	Machete 60 EC Kelion 50 WG Zebra 10 SC 10 SC Fallisto gold 550 SC Stomp 455 g/l CS Dual gold 960 EC	Butachlor Orthosulfamuron Bispyribac sodium Mesotrione+atrazine Pendimethalin S metolachlor	800 ml 60 gram 120 ml 1000 ml 1000 ml 800 ml	FMC Jaffar Agro Four B Sun crop FMC Syngenta
<b>Cyperus iria</b> Rice flat sedge	Rice Rice	Machete 60 EC Kelion 50 WG	Butachlor Orthosulfamuron	800 ml 60 gram	FMC Jaffar Agro

بھونیں	Rice Sugarcane Cotton Vegetables	Zebra 10 SC 10 SC Fallisto gold 550 SC Stomp 455 g/l CS Dual gold 960 EC	Bispyribac Na Mesotrione+atrazine Pendimethalin S metolachlor	120 ml 1000 ml 1000 ml 800 ml	Four B Sun crop FMC Syngenta
<b>Digitaria adscendens</b> Crab grass کھڑمڈھان	Maize Sugarcane Cotton Vegetables Vegetables Mung	Clio combo 33.6 SC Fallisto gold 550 SC Full clear 50 EC Stomp 455 g/l CS Dual gold 960 EC Percept 10.8 EC	Topramezone+atrazine Mesotrione+atrazine Pendi+metola+oxyfluor Pendimethalin S metolachlor Haloxifyfop	35+500 1000 ml 1000 ml 1000 ml 800 ml 350 ml	Swat Agro Sun crop Warbal FMC Syngenta Evyol group
<b>Euphorbia granulata</b> Garden spurge بزاردانی	Maize Sugarcane Cotton Vegetables Lawns Lawns	Primextra gold 720 SC Fallisto gold 550 SC Full clear 50 EC Challenge 60 SC Starane-M 50 EC Buctril super 60 EC	Atrazine+S metolachlor Mesotrione+atrazine Pendi+metola+oxyfluor Aclonifen Fluroxypyr +MCPA Bromoxynil+MCPA	800 ml 1000 ml 1000 ml 500 ml 300 ml 300 ml	Syngenta Sun crop Warbal Bayer FMC Bayer
<b>Heliotropium indicum</b> Indian heliotrope اونٹ کٹارا	Maize Sugarcane Cotton Vegetables Wheat Wheat	Primextra gold 720 SC Fallisto gold 550 SC Full clear 50 EC Challenge 60 SC Starane-M 50 EC Buctril super 60 EC	Atrazine+S metolachlor Mesotrione+atrazine Pendi+metola+oxyfluor Aclonifen Fluroxypyr +MCPA Bromoxynil+MCPA	800 ml 1000 ml 1000 ml 500 ml 300 ml 300 ml	Syngenta Sun crop Warbal Bayer FMC Bayer
<b>Parthenium hysterophorus</b> Cogress weed پارتھینیم، گاجر بوٹی	Maize Sugarcane Cotton Vegetables Wheat Non croplands	Primextra gold 720 SC Fallisto gold 550 SC Full clear 50 EC Challenge 60 SC Buctril super 60 EC Round up P M 540 g/l SL	Atrazine+S metolachlor Mesotrione+atrazine Pendi+metola+oxyfluor Aclonifen Fluroxypyr+MCPA Glyphosate	800 ml 1000 ml 1000 ml 500 ml 300 ml 1500 ml	Syngenta Sun crop Warbal Bayer Bayer Monsanto
<b>Polypogon monsperliensis</b> Winter grass دُعب گھاس	Wheat Wheat Wheat Vegetables Vegetables	Isoproturon 50 WP Puma super 69 EW Sencor 70 WP Affinity ultra 12.4 WP Stomp 455 g/l CS Dual gold 960 EC	Isoproturon Fenoxaprop Metribuzin Clodina+carfentra+mets Pendimethalin S metolachlor	800 g 500 ml 100 g 225 g 1000 ml 800 ml	Several Bayer Bayer FMC FMC Syngenta
<b>Rostraria macrantha</b> Hair grass سرمچو گھاس	Wheat Wheat Vegetables Vegetables	Atlantis 3.6 WG Sencor 70 WP Stomp 455 g/l CS Dual gold 960 EC	Meso+iodosulfuron Metribuzin Pendimethalin S metolachlor	160+160g 100 g 1000 ml 800 ml	Bayer Bayer FMC Syngenta
<b>Vicia sativa</b> Common vetch ریواری	Wheat Wheat Vegetables Vegetables	Harvester 50 EC Buctril super 60 EC Stomp 455 g/l CS Dual gold 960 EC	Fluroxypyr +MCPA Bromoxynil+MCPA Pendimethalin S metolachlor	400 ml 300 ml 1000 ml 800 ml	Evyol group Bayer FMC Syngenta
<b>Setaria viridis</b> Green foxtail نومڑ گھاس	Maize Sugarcane Cotton Vegetables Vegetables	Voltril 63 EC Clio combo 33.6 SC Full clear 50 EC Stomp 455 g/l CS Dual gold 960 EC	Atrazine+S metolachlor Topramezone+atrazine Pendi+metola+oxyfluor Pendimethalin S metolachlor	1000 ml 35+500 1000 ml 1000 ml 800 ml	Evyol group Swat Agro Warbal FMC Syngenta
<b>Tribulus terrestris</b> Puncture vine بھکھڑا	Maize Sugarcane Cotton Vegetables	Voltril 63 EC Clio combo 33.6 SC Full clear 50 EC Challenge 60 SC	Atrazine+S metolachlor Topramezone+atrazine Pendi+metola+oxyfluor Aclonifen	1000 ml 35+500 1000 ml 500 ml	Evyol group Swat Agro Warbal Bayer
<b>Spergula arvensis</b> Corn spurry کلری بوٹی	Wheat Wheat Vegetables Vegetables	Harvester 50 EC Buctril super 60 EC Stomp 455 g/l CS Dual gold 960 EC	Fluroxypyr +MCPA Bromoxynil+MCPA Pendimethalin S metolachlor	400 ml 300 ml 1000 ml 800 ml	Evyol group Bayer FMC Syngenta










## Whichever the insect – Whichever the insecticide

Name	Picture	Crop	Insecticide
<i>Helicoverpa armigera</i> Heliothus امریکن سنڈی		Cotton Gram Tomato	Belt 48SC Runner 120 EC Voliam Flexi 300 SC Radiant 80 WG
<i>Clavigralla gibbosa spinola</i> ایسپینولا بگ Spinola bug, pod bug		Mung	Confidor 200 SL Proaxis 60 SC Talstar10 EC
<i>Amsacta moorei</i> Hairy caterpillar بھنگوکتا، بالدار سنڈی		Jujube	Deltamethrin 2.5 EC Karate 5 CS
<i>Cavelerius excavates</i> Black bug بلیک بگ، کالی بھونڈی گنا		Sugar-cane	Lessenta 80 WDG Bolten 31EC Talstar10 EC
<i>Leuncinodes arbonalis</i> Brinjal fruit borer بینگن کا گڑوواں		Brinjal	Radiant 120 SC Coragen 20 SC Radiant + Runner
<i>Bactrocera zonata</i> Fruit fly (Ber, guava) پھل کی مکھی درخت		Guava Jujube Mango	GF-120 Danadim 40 EC Dipterex 30 T 60
<i>Bactrocera cucurbitae</i> Fruit fly (Bitter gourd) پھل کی مکھی سبزیات		Bitter g Cucumber Muskmelon	GF-120 Danadim 40 EC Dipterex 30 T 60
<i>Cnaphalocrosis medinalis</i> Rice leaf folder پتہ لپیٹ سنڈی دھان		Rice	Karate 5 CS Belt 48SC Proaxis 60 SC
<i>Antigastra catalaunalis</i> Capsule borer پتہ لپیٹ سنڈی تل		Sasame	Karate 5 CS Deltamethrin 2.5 EC Cypermethrin 10 EC
<i>Euzophera perticella</i> Brinjal stem borer تنے کا گڑوواں بینگن		Brinjal	Voliam Flexi 300 SC Coragen 20 SC Bolten 31 EC
<i>Scirpophaga innotata</i> White stem borer تنے کاسفید گڑوواں مونجی		Rice	Virtako 0.6 Gr Ferterra 0.4 G Regent 80 WG

<p><i>Scirpophaga incertulas</i> Yellow stem borer تنے کا زرد گڑوواں مونجی</p>		Rice	<p>Virtako 0.6 Gr Ferterra 0.4 G Regent 80 WG</p>
<p><i>Thrips tabaci</i> Cotton thrips تھرپس کپاس وغیرہ</p>		<p>Cotton Onion</p>	<p>Pirate 360 SC Jacefex 75SP Lessenta 80 WDG Danadim 40 EC</p>
<p><i>Idioscopus species</i> Mango hopper تیلہ، آم کا تیلہ، مینگو ہاپر</p>		Mango	<p>Karate 5 CS Jacefex 75SP Confidor 200 SL</p>
<p><i>Diaphorina citri</i> Citrus psylla تیلہ، سٹرس سلہ</p>		Kinnow	<p>Danadim 40 EC Deltamethrin 2.5 EC Confidor 200 SL</p>
<p><i>Sogatella furcifera</i> WB Plant hopper تیلہ، سفید پشت تیلہ</p>		Rice	<p>Ulala 50 WG Actara 25 WG Confidor 200 SL</p>
<p><i>Amrasca devastans</i> Cotton jassid تیلہ، چست تیلہ</p>		<p>Cotton Okra</p>	<p>Ulala 50 WG Oshin 20 SG Nitenpyram 10 AS Nitenpyram 50 WDG</p>
<p><i>Aphis, Sitobium &amp; Brevicoryne species</i> تیلہ، سست تیلہ Aphids</p>		<p>Wheat Brassicas Cotton</p>	<p>Planum 50 WG Confidor 200 SL Legend 0.5 AS</p>
<p><i>Acrida exaltata</i> Rice grass hopper ٹڈا، گھوڑا چاول</p>		Rice	<p>Sevin 85 Deltamethrin 2.5 EC Karate 5 CS</p>
<p><i>Hemitarsonemus and Tetranychus species</i> جوئیں، نباتاتی جوئیں</p>		<p>Cotton, okra and other crops</p>	<p>Oberon 100 SC Nissoran 10 WP Pyridaben 20 WP Polo 500 EC</p>
<p><i>Earias insulana</i> Spotted bollworm چتکبری سنڈی کپاس، بہنڈی</p>		<p>Cotton Okra</p>	<p>Deltamethrin 2.5 EC or bifenthrin 2.5 EC or combination</p>
<p><i>Plutella xylostella</i> Diamond back moth چمکیلا پروانہ</p>		<p>Cabbage &amp; crucifers</p>	<p>Belt 48SC Radiant 80 WG Coragen 20 SC</p>

<i>Agrotis flamatra, segetum and ipsilon</i> Cutworm چور کيڑا		Cotton, okra & other crops	Sevin 85 Talstar10 EC Karate 5 CS
<i>Odontotermes obesus</i> Termite ديمک		Sugarcane, wheat & other crops	Regent 80 WG Larsbin 40 EC 40 EC Fipronil 5 SC
<i>Bemisia tabaci</i> White fly سفید مکھی کپاس وغيره		Cotton, mash & other crops	Movento 240 SC Pyriproxyfin10.8 EC Ulala 50 WG Mospilan 20 SP
<i>Aleurolobus barodensis</i> White fly سفید مکھی گنا		Sugarcane	Confidor 200 SL Larsbin 40 EC Chlorpyrifos 40 EC
<i>Atherigona soccata</i> Shoot fly کيڑی، شوٹ فلائی		Maize, sorghum, sadabhar	Hombre 18.62FS Actara 25 WG Talstar10 EC
<i>Drosicha mangiferae</i> Mango mealy bug گدھيڑی، ميلي بگ آم		Mango	Profenofos 50 EC Confidor 200 SL Legend 0.5 AS
<i>Pseudococcus species</i> Cotton mealybug گدھيڑی، ميلي بگ کپاس		Cotton	Profenofos 50 EC Confidor 200 SL Legend 0.5 AS
<i>Pectinophora gossypiella</i> <i>Pink bollworm</i> گلابی سنڈی		Cotton	Proaxis 60 SC Bolten 31 EC Deltamethrin 2.5 EC Triazophos 40 EC
<i>Pieris brassicae</i> Cabbage butterfly گوبھی کی تیتري		Cauliflower	Belt 48SC Bolten 31 EC Deltamethrin 2.5 EC
<i>Scirpophaga nivella</i> Top borer گڑوواں چوٹی گنا		Sugarcane	Virtako 0.6 Gr Kwick 3 G Regent 80 WG Thimet 4 G
<i>Chilo infuscatellus</i> Stem borer گڑوواں تنا گنا		Sugarcane	Virtako 0.6 Gr Ferterra 0.4 G Regent 80 WG Oncall 3G



<p><i>Emmelocera depresslla</i> Sugarcane root borer گڑوواں جڑ گنا</p>		Sugarcane	<p>Virtako 0.6 Gr Kwick 3 G Regent 80 WG Oncall 3G</p>
<p><i>Chilo partellus</i> Maize borer مکئی کا گڑوواں</p>		Maize	<p>Virtako 0.6 Gr Ferterra 0.4 G Regent 80 WG</p>
<p><i>Pyrilla pupusilla</i> S. cane Leaf hopper گھوڑا مکھی</p>		Sugarcane	<p>Confidor 200 SL- spray Regent 80 WG-flood Chlorpyrifos 40 EC</p>
<p><i>Aulacophora foveicollis</i> Red pumpkin beetle لال بھونڈی کدو، تر، خربوزہ</p>		Cucurbits vegetables	<p>Sevin 85 Deltamethrin 2.5 EC Confidor 200 SL</p>
<p><i>Spodoptera exigua</i> Beat army worm لشکری سنڈی</p>		Many crops	<p>Belt 48SC Runner 120 EC Match 050 EC</p>
<p><i>Spodoptera litura</i> Cotton army worm لشکری سنڈی</p>		Many crops	<p>Belt 48SC Runner 120 EC Match 050 EC</p>
<p><i>Phyllocnistis citrella</i> Citrus leaf miner لیف مائنر، سرنگی کیڑا</p>		Kinnow, lemon & others	<p>Trigard 75 WP Talstar 10 EC Karate 5 CS</p>
<p><i>Liriomyza horticola</i> Vegetable leaf miner لیف مائنر، سرنگی کیڑا</p>		Cucurbits, tomato & others	<p>Radiant 80 WG Talstar 10 EC Legend 0.5 AS</p>
<p><i>Nesidiocoris tenuis</i> Mirid bug میرڈ بگ</p>		Sasame	<p>Confidor 200 SL Chlorfenapyr 360 SC Actara 25 WG</p>










## Sources of potential insecticide







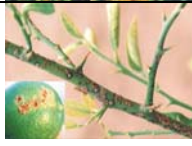



Name	Crop	Insecticide	Active ingredient	Dose/A	Company
<i>Helicoverpa armigera</i>	Cotton	Belt 48SC	Flubendamide	50 ml	Bayer
Heliothus	Gram	Runner 120 EC	Methoxyfenaside	200 ml	Arysta
امریکن سنڈی	Tomato	Voliarn Flexi 300 SC	Chlorantraniliprole+Thiamethoxam	80 ml	Syngenta
		Radiant 80 WG	Spinteram	80 ml	Arysta
<i>Clavigralla gibbosa spinola</i>	Mung	Confidor 200 SL	Imidacloprid	200 ml	Bayer
ایسپینولا بگ		Proaxis 60 SC	Gama cyhalothrin	100 ml	Arysta
Spinola bug, pod bug		Talstar10 EC	Bifenthrin	250 ml	FMC
<i>Amsacta moorei</i>	Jujube	Deltamethrin 2.5 EC	Deltamethrin 2.5 EC	250 ml	Several
Hairy caterpillar		Karate 5 CS	Lemda cyhalothrin	250 ml	Syngenta
بھنگوکتا، بالدار سنڈی					
<i>Cavelerius excavates</i>	Sugar- cane	Lessenta 80 WDG	Fipronil+imidacloprid	60 g	Bayer
Black bug		Bolten 31EC	Gamacyhalothrin+chlorpyrifos	500 ml	Swat Agro
بلیک بگ، کالی بھونڈی		Talstar10 EC	Bifenthrin	250 ml	FMC
<i>Leucinodes arbonalis</i>	Brinjal	Radiant 120 SC	Spinetoram	100 ml	Arysta
Brinjal fruit borer		Coragen 20 SC	Chlorantraniliprole	50 ml	FMC
بینجن کا گڑوواں		Radiant + Runner	Spinteram+ methoxyfenaside	40+100	Arysta
<i>Bactrocera zonata</i>	Guava	GF-120	Spinosad+ protein hydrolysate	500 ml	Arysta
Fruit fly (Ber, guava)	Jujube	Danadim 40 EC	Dimethoate	330 ml	Swat Agro
پھل کی مکھی درخت	Mango	Dipterex 30 T 60	Trichlorfon	100 g	ICI
<i>Bactrocera cucurbitae</i>	Bitter g	GF-120	Spinosad+ P. hydrolysate	500 ml	Arysta
Fruit fly (Bitter gourd)	Cucumber	Danadim 40 EC	Dimethoate	330 ml	Swat Agro
پھل کی مکھی سبزبات	Muskmelon	Dipterex 30 T 60	Trichlorfon	100 g	ICI
<i>Cnaphalocrosis medinalis</i>	Rice	Karate 5 CS	Lemda cyhalothrin	250 ml	Syngenta
Rice leaf folder		Belt 48SC	Flubendamide	10 ml	Bayer
پتہ لپیٹ سنڈی دھان		Proaxis 60 SC	Gama cyhalothrin	100 ml	Arysta
<i>Antigastra catalaunalis</i>	Sasame	Karate 5 CS	Lemda cyhalothrin	250 ml	Syngenta
Capsule borer		Deltamethrin 2.5 EC	Deltamethrin 2.5 EC	250 ml	Several
پتہ لپیٹ سنڈی تل		Cypermethrin 10 EC	Cypermethrin	250 ml	Several
<i>Euzophera perticella</i>	Brinjal	Voliarn Flexi 300 SC	Chlorantraniliprole+Thiamethoxam	80 ml	Syngenta
Brinjal stem borer		Coragen 20 SC	Chlorantraniliprole	50 ml	FMC
تنے کا گڑوواں بینجن		Bolten 31 EC	Gamacyhalothrin+chlorpyrifos	600 ml	Swat Agro
<i>Scirpophaga innotata</i>	Rice	Virtako 0.6 Gr	Chlorantraniliprole+Thiamethoxam	04 kg	Syngenta
White stem borer		Ferterra 0.4 G	Chlorantraniliprole	04 kg	FMC
تنے کاسفید گڑوواں		Regent 80 WG	Fipronil	30 g	Bayer
<i>Scirpophaga incertulas</i>	Rice	Virtako 0.6 Gr	Chlorantraniliprole+Thiamethoxam	04 kg	Syngenta
Yellow stem borer		Ferterra 0.4 G	Chlorantraniliprole	04 kg	FMC
تنے کا زرد گڑوواں		Regent 80 WG	Fipronil	30 g	Bayer
<i>Thrips tabaci</i>	Cotton	Pirate 360 SC	Chlofenapyr	100 ml	Swat Agro
Cotton thrips	Onion	Jacefex 75SP	Acephate	330 g	Jaffar Agro
تھرپس کپاس وغیرہ		Lessenta 80 WDG	Fipronil+imidacloprid	60 g	Bayer
		Danadim 40 EC	Dimethoate	500 ml	Swat Agro
<i>Idioscopus species</i>	Mango	Karate 5 CS	Lemda cyhalothrin	250 ml	Syngenta
Mango hopper		Jacefex 75SP	Acephate	330 g	Jaffar Agro
تیلہ، ام کا تیلہ، پاپر		Confidor 200 SL	Imidacloprid	250 ml	Bayer
<i>Diaphorina citri</i>	Kinnow	Danadim 40 EC	Dimethoate	500 ml	Swat Agro
Citrus psylla		Deltamethrin 2.5 EC	Deltamethrin 2.5 EC	250 ml	Several
تیلہ، سترس سلہ		Confidor 200 SL	Imidacloprid	250 ml	Bayer
<i>Sogatella furcifera</i>	Rice	Ulala 50 WG	Flonicamid	80 g	ICI
WB Plant hopper		Actara 25 WG	Thiamethoxam	25 g	Syngenta
تیلہ، سفید پشت تیلہ		Confidor 200 SL	Imidacloprid	200 ml	Bayer
<i>Amrasca devastans</i>	Cotton	Ulala 50 WG	Flonicamid	80 g	ICI

Cotton jassid تیلہ، چست تیلہ	Okra	Oshin 20 SG Nitenpyram 10 AS Nitenpyram 50 WDG	Dinotefuron Nitenpyram Nitenpyram	100 g 200 ml 40 g	Arysta Several Several
<i>Aphis, Sitobium &amp; Brevicoryne species</i> تیلہ، سست تیلہ، Aphids	Wheat Brassicac Cotton	Planum 50 WG Confidor 200 SL Legend 0.5 AS	Pymetrozine Imidacloprid Metrine	200 g 200 ml 500 ml	Syngenta Bayer Evyol
<i>Acrida exaltata</i> Rice grass hopper ٹڈا، گھوڑا چاول	Rice	Sevin 85 Deltamethrin 2.5 EC Karate 5 CS	Carbryl Deltamethrin 2.5 EC Lemda cyhalothrin	500 g 250 ml 250 ml	Swat Agro Several Syngenta
<i>Hemitarsonemus, Tetranychus species</i> جونیں، نباتاتی جونیں	Cotton, okra and other crops	Oberon 100 SC Nissoran 10 WP Pyridaben 20 WP Polo 500 EC	Spiromesifen+ebamectin Hexythiazox Pyridaben Diafenthiuron	100 ml 125 g - 200 ml	Bayer Arysta BASF Syngenta
<i>Earias insulana</i> Spotted bollworm چتکبری سنڈی	Cotton Okra	Deltamethrin 2.5 EC or bifenthrin 2.5 EC or combination	Deltamethrin 2.5 EC or bifenthrin or their combinations	250 ml	Several companies
<i>Plutella xylostella</i> Diamond back moth/چمکیلا پروانہ	Cabbage & crucifers	Belt 48SC Radiant 80 WG Coragen 20 SC	Flubendamide Spinetoram Chlorantraniliprole	50 ml 100 ml 50 ml	Bayer Arysta FMC
<i>Agrotis flamatra, segetum etc</i> چور کیرٹا	Cotton, okra & other crops	Sevin 85 Talstar10 EC Karate 5 CS	Carbryl Bifenthrin Lemda cyhalothrin	500 g 250 ml 250 ml	Swat Agro FMC Syngenta
<i>Odontotermes obesus</i> دیمک	Sugarcane, wheat & other crops	Regent 80 WG Larsbin 40 EC 40 EC Fipronil 5 SC	Fipronil Chlorpyrifos Fipronil	45 g 02 litre 01 litre	Bayer Arysta Several
<i>Bemisia tabaci</i> White fly سفید مکھی کپاس وغیرہ	Cotton, mash & other crops	Movento 240 SC Pyriproxyfin10.8 EC Ulala 50 WG Mospilan 20 SP	Spirotetramate Pyriproxyfin Flonicamid Acetamidrid	250 ml 500 ml 80 g 120 g	Bayer Several ICI Arysta
<i>Aleurolobus barodensis</i> White fly سفید مکھی گٹا	Sugarcane	Confidor 200 SL Larsbin 40 EC Chlorpyrifos 40 EC	Imidacloprid Chlorpyrifos Chlorpyrifos	200 ml 02 litre 02 litre	Bayer Arysta Several
<i>Atherigona soccata</i> Shoot fly کیڑی، شوٹ فلائی	Maize, sorghum, sadabhar	Hombre 18.62FS Actara 25 WG Talstar10 EC	Tebuconazol+ imidacloprid Thiamethoxam Bifenthrin	20 mlkg 6 gkg 250 ml	Bayer Sengenta FMC
<i>Drosicha mangiferae</i> Mango mealy bug گدھیری، میلی بگ ام	Mango	Profenofos 50 EC Confidor 200 SL Legend 0.5 AS	Profenofos Imidacloprid Metrine	500 ml 250 ml 500 ml	Several Bayer Evyol
<i>Pseudococcus species</i> Cotton mealybug گدھیری، میلی بگ کپاس	Cotton	Profenofos 50 EC Confidor 200 SL Legend 0.5 AS	Profenofos Imidacloprid Metrine	500 ml 250 ml 500 ml	Several Bayer Eviol
<i>Pectinophora gossypiella</i> Pink bollworm گلابی سنڈی	Cotton	Proaxis 60 SC Bolten 31 EC Deltamethrin 2.5 EC Triazophos 40 EC	Gamacyhalothrin Gamacyhalothrin+chlorpyrifos Deltamethrin 2.5 EC Triazophos	100 ml 250 ml 250 ml 500 ml	Arysta Swat Agro Several Several
<i>Pieris brassicae</i> Cabbage butter fly گوبھی کی تبتری	Cauliflower	Belt 48SC Bolten 31 EC Deltamethrin 2.5 EC	Flubendamide Gamacyhalothrin+chlorpyrifos Deltamethrin 2.5 EC	25 ml 500 ml 250 ml	Bayer Syngenta Several
<i>Scirpophaga nivella</i> Top borer گڑوواں چوٹی گٹا	Sugarcane	Virtako 0.6 Gr Kwick 3 G Regent 80 WG Thimet 4 G	Chlorantraniliprole+Thiamethoxam Phorate+carbofuron Fipronil Forate	04 kg 10 kg 45 g 15 kg	Syngenta Avari Bayer Swat Agro
<i>Chilo infuscatellus</i> Stem borer گڑوواں تنا گٹا	Sugarcane	Virtako 0.6 Gr Ferterra 0.4 G Regent 80 WG Oncall 3G	Chlorantraniliprole+Thiamethoxam Chlorantraniliprole Fipronil Benfuracarb	04 kg 04 kg 45 g 08 Kg	Syngenta FMC Bayer Suncrop
<i>Emmelocera depressilla</i> Root borer گڑوواں جڑ گٹا	Sugarcane	Virtako 0.6 Gr Kwick 3 G Regent 80 WG Oncall 3G	Chlorantraniliprole+Thiamethoxam Phorate+carbofuron Fipronil Benfuracarb	04 kg 04 kg 45 g 08 Kg	Syngenta Avari Bayer Suncrop
<i>Chilo partellus</i> Maize borer	Maize	Virtako 0.6 Gr Ferterra 0.4 G	Chlorantraniliprole+Thiamethoxam Chlorantraniliprole	04 kg 04 kg	Syngenta FMC

مکئی کا گڑواں		Regent 80 WG	Fipronil	30 g	Bayer
<i>Pyrilla pupusilla</i> S. cane Leaf hopper گھوڑا مکھی	Sugarcane	Confidor 200 SL- Regent 80 WG-flood Chlorpyrifos 40 EC	Imidacloprid Fipronil Chlorpyrifos	250 ml 30 g 01 litre	Bayer Bayer Several
<i>Aulacophora foveicollis</i> Red pumpkin beetle لال بھونڈی	Cucurbits vegetables	Sevin 85 Deltamethrin 2.5 EC Confidor 200 SL	Carbryl Deltamethrin 2.5 EC Imidacloprid	500 g 250 g 250 ml	Swat Agro Several Bayer
<i>Spodoptera exigua</i> Beat army worm لشکری سنڈی	Many crops	Belt 48SC Runner 120 EC Match 050 EC	Flubendamide Methoxyfenaside Lufenuron	25 ml 200 ml 200 ml	Bayer Arysta Syngenta
<i>Spodoptera litura</i> Cotton army worm لشکری سنڈی	Many crops	Belt 48SC Runner 120 EC Match 050 EC	Flubendamide Methoxyfenaside Lufenuron	25 ml 200 ml 200 ml	Bayer Arysta Syngenta
<i>Phyllocnistis citrella</i> Citrus leaf miner لیف مائنر، سرنگی کیڑا	Kinnow, lemon & others	Trigard 75 WP Talstar10 EC Karate 5 CS	Cyromazine Bifenthrin Lemda cyhalothrin	30 g 250 ml 250 ml	Syngenta FMC Syngenta
<i>Liriomyza horticola</i> Vege leaf miner لیف مائنر، سرنگی کیڑا	Cucurbits, tomato & others	Radiant 80 WG Talstar10 EC Legend 0.5 AS	Spinteram Bifenthrin Metrine	80 ml 250 ml 500 ml	Arysta FMC Evyol
<i>Nesidiocoris tenuis</i> Mirid bug میرڈ بگ	Sasame	Confidor 200 SL Chlorfenapyr 360 SC Actara 25 WG	Imidacloprid Chlorfenapyr Thiamethoxam	200 ml 100 ml 25 g	Bayer Several Syngenta

## Whichever the disease –Whichever the fungicide

Disease/causal organism	Pictorial identification	Crop	Fungicide
<i>Alternaria solani</i> Early blight اگیتاجھلساؤ		Potato Tomato	<i>Evito 450 EC</i> <i>Antracol 70 WP</i> <i>Polyram 70 DF</i> <i>Score 250 SC</i>
<i>Alternaria, Cercospora</i> and others Leaf spot برگی دھبے		Pulses Oilseeds Vegetables	<i>Nativo 75 WG</i> <i>Nanok 25 SC</i> <i>Chlorostrobin 56 SC</i>
<i>Phytophthora infestans</i> Late blight پچھیتا جھلساؤ		Potato Tomato	<i>Revus 50 EC</i> <i>Cabrio Top 60 WDG</i> <i>Melody duo 66.8 WP</i> <i>Chlorostrobin 56 SC</i> <i>Mintox 60WG 60WG</i>
<i>Pyricularia oryzae</i> Rice blast بھبکا یا بلاسٹ		Rice	<i>Nativo 75 WG</i> <i>Nanok 25 SC</i> <i>Electric Super 32.5 SC</i> <i>Evito 450 EC</i>
<i>Phytophthora infestans</i> Collar rot تے کا گالا کالر راٹ		Chilies Capsicum Tomato	<i>Aliette 80 WP</i> <i>Ridomil gold 68 WG</i> <i>Topsin M 30 WP</i>
<i>Xanthomonas oryzae</i> Bacterial leaf blight جراثیمی جھلساؤ		Rice Guava	<i>Champion 77 WP</i> <i>Kocide 62 WP</i> <i>Mycin 5% SL</i> <i>Kasumin 2 SL</i>
<i>Rhizoctonia solani</i> Root rot جڑ کا گالا، روٹ راٹ		Cotton Pulses Vegetables Potato	<i>Emesto 240 g/l</i> <i>Dinasty100 FS</i> <i>Aliette 80 WP</i> <i>Moncut 40 SC</i> <i>Celeste 10 FS</i>
<i>Colletotrichum sp.</i> Red rot رتا روگ، ریڈ راٹ		Sugarcane	<i>Aliette 80 WP</i> <i>Topsin M 30 WP</i>
<i>Pseudoperonospora</i> Downy mildew روئیں دار پھپھونڈی		Melons Cucumber Gourds	<i>Defeater500 WDG</i> <i>Cabrio Top 60 WDG</i> <i>Curzate M 72.5 WDG</i> <i>Melody duo 66.8 WP</i> <i>Mintox 60WG</i>

<b><i>Pseudoperonospora</i></b> Downy mildew روئیں دار پھپھوندی		Peas grapes	<i>Melody duo 66.8 WP</i> <i>Nanok 25 SC</i> <i>Chlorostrobin 56 SC</i> <i>Flumax 60 EC</i>
<b><i>Macrophomina species</i></b> Charcoal rot چارکول راٹ، سڑاند		Sunflower Sasame	<i>Chlorostrobin 56 SC</i> <i>Aliette 80 WP</i> <i>Topsin M 30 WP</i>
<b><i>Stemphylium,</i></b> <b><i>Alternaria porri</i></b> سڑاند - پرپل بلاچ		Onion Garlic	<i>Chlorostrobin 56 SC</i> <i>Aliette 80 WP</i> <i>Melody duo 66.8 WP</i>
<b><i>Erysiphe species</i></b> Powdery mildew سفوفی پھپھوندی		Fruits Vegetables Trees	<i>Nativo 75 WG</i> <i>Simitar 5EW</i> <i>Topguard 30 SC</i> <i>Topas 100 EC</i>
<b><i>Botryodiplodia , Ceratocystis,</i></b> <b><i>Fusarium and others</i></b> Decline سوکا یا مرجھاؤ		Guava Kinnow Trees	<i>Score 250 SC</i> <i>Topsin M 30 WP</i> <i>Aliette 80 WP</i>
<b><i>Puccinia struiformis</i></b> Leaf rust کونگی، رسٹ		Wheat Barley	<i>Nativo 75 WG</i> <i>Nanok 25 SC</i> <i>Tilt 250 EC</i>
<b><i>Xanthomonas citri</i></b> Citrus canker کوڑھ، سٹرس کینگر		Kinnow, Lemon & citrus fruits	<i>Thrill 20 WP</i> <i>Kocide 62 WP</i> <i>Aliette 80 WP</i>
<b><i>Elsino fawcetti</i></b> Citrus scab کوڑھ، سٹرس سکیب		Kinnow	<i>Nativo 75 WG</i> <i>Chlorostrobin 56 SC</i> <i>Topsin M 30 WP</i>
<b><i>Phytophthora infestans</i></b> Damping off نوخیز مرجھاؤ، مرجھاؤ		Nurseries Vegetables Pulses etc.	<i>Dinasty100 FS</i> <i>Hombre 18.625FS</i> <i>Revus 50 EC</i>
<b><i>Nematodes</i></b> <b><i>Meloidogyne species</i></b> نیماتوڈز، خیطیے		Many crops	<i>Ragbi 5 G</i> <i>Furadan 3 G</i> <i>Padan 4 G</i>

### Sources of potential fungicides

Disease/causal organism	Crop	Fungicide	Active ingredient	Dose /acre	Company
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<i>Alternaria solani</i> Early blight اگیتاچھلسا ز	Potato and Tomato	Evito 450 EC Antracol 70 WP Polyram 70 DF Score 250 SC	Flouxastrobin Propineb Metiram Difenoconazole	100 ml 500 g 330 g 100 ml	Arysta Bayer crop Swat Agro Syngenta
<i>Alternaria, Cercospora</i> and others Leaf spot برگی دھبے	Pulses Oilseeds Vegetables	Nativo 75 WG Nanok 25 SC Chlorostrobin 56 SC	Trifloxystrobin+Tebuconazole Azoxystrobin+flutriafol Azoxystrobin+chlorothalonil	65 g 200 ml 200 ml	Bayer crop Swat Agro Tara group
<i>Phytophthora infestans</i> Late blight پچھیتا جھلسا ز	Potato Tomato	Revus 50 EC Cabrio Top 60 WDG Melody duo 66.8 WP Chlorostrobin 56 SC Mintox 60WG 60WG	Mandipropamide Metiram + pyraclostrobin Propineb+ iprovalicarb Azoxystrobin+chlorothalonil Azoxystrobin+dimethomorph	240 ml 500 g 500 g 200 ml 200 g	Syngenta FMC Bayer crop Tara group Ali Akbar
<i>Pyricularia oryzae</i> Rice blast بھیکا یا بلاسٹ	Rice	Nativo 75 WG Nanok 25 SC Electric Super 32.5 SC Evito 450 EC	Trifloxystrobin +tebuconazole Azoxystrobin+flutriafol Azoxystrobin+difenoconazole Fluoxastrobin	65 g 200 ml 200 ml 100 ml	Bayer crop Swat Agro Evyol group Arysta
<i>Phytophthora infestans</i> Collar rot تنے کا گالا کالر رات	Chilies Capsicum Tomato	Aliette 80 WP Ridomil gold 68 WG Topsin M 30 WP	Fosetyl Aluminium Mencozeb+metalaxal Thiophenate methyl	250 g 250 g 150 g	Bayer crop Syngenta Arysta
<i>Xanthomonas oryzae</i> Bacterial leaf blight جراثیمی جھلسا ز	Rice Guava	Champion 77 WP Kocide 62 WP Mycin 5% SL Kasumin 2 SL	Copper hydroxide Copper hydroxide Validamycin Kasugamycin	250 g 250 g 300 ml 600 ml	Jaffar Agros FMC RB Avari Arysta
<i>Rhizoctonia solani</i> Root rot جڑ کا گالا، روٹ رات	Cotton Pulses Vegetables Potato	Emesto 240 g/l Dinasty100 FS Aliette 80 WP Moncut 40 SC Celeste 10 FS	Tenflusen Azoxystrobin+metalaxyl+fludioxonil Fosetyl Aluminium Flutamil Fludioxonil	1500 ml 3ml/kg 250 g 15 ml/100 40 ml/100	Bayer crop Syngenta Bayer crop Arysta Syngenta
<i>Colletotrichum sp.</i> Red rot رتا روگ، ریڈ رات	Sugarcane	Aliette 80 WP Topsin M 30 WP	Fosetyl Aluminium Thiophenate methyl (Fertigation shaving)	250 g 800 g	Bayer crop Arysta
<i>Pseudoperonospora</i> Downy mildew رونیں دار پھپھوندی	Melons Cucumber Gourds	Defeater500 WDG Cabrio Top 60 WDG Curzate M 72.5 WDG Melody duo 66.8 WP Mintox 60WG	Fosetyl Aluminium+flumorph Metiram + pyraclostrobin Mencozeb+cymoxanil Propineb+ iprovalicarb Azoxystrobin+dimethomorph	500 g 500 g 600 g 500 g 200 g	Evyol group FMC Arysta Bayer crop Ali Akbar
<i>Pseudoperonospora</i> Downy mildew رونیں دار پھپھوندی	Peas grapes	Melody duo 66.8 WP Nanok 25 SC Chlorostrobin 56 SC Flumax 60 EC	Propineb+ iprovalicarb Azoxystrobin+flutriafol Azoxystrobin+Chlorostrobin Fluazinam+metalaxal	500 g 200 ml 200 ml 150 ml	Bayer crop Swat Agro Tara group Evyol group
<i>Macrophomina sp</i> Charcoal rot چارکول رات، سڑاند	Sunflower Sasame	Chlorostrobin 56 SC Aliette 80 WP Topsin M 30 WP	Azoxystrobin+chlorothalonil Fosetyl Aluminium Thiophenate methyl	200 ml 250 g 400 g	Tara group Bayer crop Arysta
<i>Stemphylium, Alternaria porri</i> سڑاند - پرل بلاج	Onion Garlic	Chlorostrobin 56 SC Aliette 80 WP Melody duo 66.8 WP	Azoxystrobin+difenoconazole Fosetyl Aluminium Propinib+ iprovalicarb	200 ml 250 g 500 g	Tara group Bayer crop Bayer crop
<i>Erysiphe species</i> Powdery mildew سفوفی پھپھوندی	Fruits Vegetables Trees	Nativo 75 WG Simitar 5EW Topguard 30 SC Topas 100 EC	Trifloxystrobin +tebuconazole Fenbuconazole Tebuconazole+flutriafol Penaconazole	65 g 200 ml 200 ml 50 ml	Bayer crop Ali Akbar Swat Agro Syngenta
<i>Botrydiploдия , Ceratocystis, Fusarium etc</i> سوکا یا مرجھان	Guava Kinnow Trees	Score 250 SC Topsin M 30 WP Aliette 80 WP	Difenaconazole Thiophenate methyl Fosetyl Aluminium	100 ml 150 g 250 g	Syngenta Arysta Bayer crop
<i>Puccinia striiformis</i> Leaf rust کونگی، رسٹ	Wheat Barley	Nativo 75 WG Nanok 25 SC Tilt 250 EC	Trifloxystrobin+tebuconazole Azoxystrobin+flutriafol Propiconazol	90 g 200 ml 100 ml	Bayer crop Swat Agro Syngenta
<i>Xanthomonas citri</i> Citrus canker کوڑھ، سٹرس کینکر	Kinnow, Lemon & citrus fruits	Thrill 20 WP Kocide 62 WP Aliette 80 WP	Bismirithazol Copper hydroxide Fosetyl aluminium	250 g 250 g 500 g	FMC FMC Bayer crop
<i>Elsino fawcetti</i> Citrus scab کوڑھ، سٹرس سکب	Kinnow	Nativo 75 WG Chlorostrobin 56 SC Topsin M 30 WP	Trifloxystrobin +tebuconazole Azoxystrobin+chlorothalonil Thiophenate methyl	65 g 200 ml 150 g	Bayer crop Tara group Arysta
<i>Phytophthora infestans</i> Damping off نوخیز مرجھان، مرجھان	Nurseries Vegetables Pulses etc.	Dinasty100 FS Hombre 18.625FS Revus 50 EC	Azoxystrobin+metalaxyl-M+fludioxonil Tebuconazole+imidacloprid Mandipropamide	3ml/kg 200 ml 240 ml	Syngenta Bayer crop Syngenta
<i>Nematodes Meloidogyne species</i> نيماتوڈز، خطبے	Many crops	Ragbi 5 G Furadan 3 G Padan 4 G	Cadusfos Carbofuron Cartap	4 kg 9 kg 9 kg	FMC FMC Arysta