



**Government of India**  
**Ministry of Agriculture & Farmers Welfare**  
**Department of Agriculture, Cooperation & Farmers Welfare**  
**Directorate of Plant Protection, Quarantine & Storage**  
**Central Insecticide Board & Registration Committee N.H.-IV,**  
**Faridabad-121001**

**MAJOR USES OF PESTICIDES**  
**Registered under the Insecticides Act, 1968**

**UP TO 31.05.2018**

**FUNGICIDES**

**Disclaimer: The document has been compiled on the basis of available information for guidance and not for legal purposes.**

**Fungicides single product formulations uses: Page 01 to 30**

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## Fungicides

Crop	Common name of the disease	Dosage per ha			Waiting period from last application to harvest(in days)
		a.i. (g)	Formulation (g/ml)/%	Dilution in water(L)	
<b>Azoxystrobin 23% SC</b>					
Grapes	Downy mildew Powdery mildew	125gm	500 ml	500-750	7
Chilli	Fruit rot Powdery mildew	125gm	500 ml	500-750	5
Mango	Anthrachnose Powdery mildew	0.025%	0.1%	100ml/ 100 lit of water depending on the size of the tree canopy	5
Tomato	Early & Late blight	125gm	500ml	500	3
Potato	Late Blight	125 gm	500 ml	500	12
Cucumber	Downey mildew Powdery mildew	125 gm	500	500	5
Cumin	Blight & Powdery mildew	115 gm	500	500	28
<b>Benomyl50 % WP</b>					
Wheat	Loose smut	1gm	2gm	1kg of seed	-
Groundnut	Tikka leaf spot	112.5 gm	225gm	750	-
Tobacco	Frogeye spot	112.5 gm	225gm	750	-
Grapes	Powdery mildew	150gm	300gm	625-700	-
	Anthrachnose	150gm	300gm	625-700	7
Beans	Powdery mildew	100gm	200gm	600	-
	Anthrachnose	100gm	200gm	600	-
Cucurbits	Powdery mildew	100gm	200gm	600	-

	Anthracnose	100gm	200gm	600	-
Chilies	Powdery mildew	100gm	200gm	600	-
	Fruit rot	100gm	200gm	600	-
	Leafspot	100gm	200gm	600	-
Brinjal	Powdery mildew	100gm	200gm	600	-
Sugar beat	Leafspot	100gm	200gm	600	21
Peas	Powdery mildew	100gm	200gm	600	2
<b>Bitertanol25% WP</b>					
Groundnut	Rust	250gm	1000gm	500	30
	Tikka	250gm	1000gm	500	30
Wheat	Karnal bunt	560gm	2240gm	750	-
<b>Captan 50% WG</b>					
Chillies	Fruit rot (Anthracnose)	750gm	1500gm	500	5
Potato	Early blight &Late blight	750gm	1500gm	500	21
<b>Captan 50% WP</b>					
Apple	Scab	1250gm	2.5kg	750-1000	-
Cherry	Brown rot	1250gm	2.5kg	750-1000	-
Grapes	Downey mildew	1250gm	2.5kg	750-1000	-
Potato	Early blight	1250gm	2.5kg	750-1000	-
	Late blight	1250gm	2.5kg	750-1000	-
Tomato	Early blight	1250gm	2.5kg	750-1000	-
	Late blight	1250gm	2.5kg	750-1000	-
<b>Captan 75% WP</b>					
Apple*	Scab Fly speck Bitter rot	0.12%**	1667gm	15-20**	8
Cherry	Brown rot	0.12%**	1667gm	15-20**	NA
Grape	Downy mildew	1250gm	1667gm	1000	8
Cabbage/ Cauliflower, Tomato,	Damping off (Nursery)	0.25%	2500gm	1000 Soil drench In the nursery	NA

Brinjal, Chillies, Beans, Ornamental					
Potato	Early blight	1250gm	1667gm	1000	8
	Late blight	1250gm	1667gm	1000	8
Tomato	Early blight	1250gm	1667gm	1000	6
	Late blight	1250gm	1667gm	1000	6
Chillies	Early blight	1250gm	1667gm	1000	8
	Fruit rot	1500gm	2000gm	1000	8
Citrus	Brown rot	0.25**	2500gm	15-20**	NA
	Scab	0.12**	1667gm	15-20**	NA
Rose	Blackspot	1250gm	1667	1000	NA
Paddy	Leafspot	750gm	1000gm	750	NA
<b>Captan75% WS</b>					
Chillies (soil drench)	Damping off (soil drench)	15-25 gm per kgs seed	20-30gm Per kg seed	1	
Cabbage	Damping off (soil drench)	15-25gm per kg seed	20-30gm Per kg seed	1	
Tomato	Damping off (soil drench)	15-25 gm per kg seed	20-30gm Per kg seed	1	
Tobacco	Damping off (soil drench)	15-25 gm per kg seed	20-30gm Per kg seed	1	
<b>Carbendazim 5% GR</b>					
Paddy	Brown leaf spot	0.62kg	12.5 kg	-	
<b>Carbendazim 46.27% SC</b>					
Grape	Powdery mildew	0.046% or 46 g /100 lit water	0.1%or100 ml/ 100litWater	As required	30
Mango	Powdery mildew	0.046% or 46 g/100 lit water	0.1%or100 ml/100litW ater	As required	15

<b>Carbendazim 50%WP</b>					
Paddy	Blast	125-250 gm	250-500gm	750L	-
	Sheath blight	1gm/ kg seed	2 gm/ kg seed	(1ltr/10 kg seed) (seed treatment)	(wet slurry treatment)
	Aerial phase	125-250 gm	250-500gm	750	-
Wheat	Loose smut	1gm/kg seed	2g/kg seed	(1ltr/10 kg seed) (seed treatment before sowing)	(wet slurry treatment)
Barley	Loose smut	1 gm/kg	2 gm/kg	(1ltr/10 kg seed) (seed Treatment before sowing)	(wet slurry treatment)
Tapioca	Set rot	0.5gm	1gm	1	-
Cotton	Leafspot	125	250	750	-
Jute	Seedling blight	1gm/kg seed	2gm/kg seed	(1ltr/10kg seed) (seed treatment)	(wet slurry treatment)
Groundnut	Tikka leaf Spot	112.5 gm	225gm	750	-
Sugar beet	Leafspot	100gm	200gm	400	-
	Powdery mildew	100gm	200gm	400	-
Peas Cluster	Powdery mildew	125gm	250gm	600	-
Beans	Powdery mildew	175gm	350gm	750	-
Cucurbits	Powdery mildew	150gm	300gm	600	-
	Anthracoese	150gm	300gm	600	-
Brinjal	Leafspot	150gm	300gm	600	-
	Fruit rot	150gm	300gm	600	-
Apples	Scab	1.25gm	2.5gm	10pertree	-
Grapes	Anthracoese	150gm	300gm	600	-
Walnut	Downy leaf spot	1.5gm	3gm	10pertree	-
Rose	Powdery mildew	0.5gm	1gm	2	-

Ber	Powdery mildew	5gm	10gm	10pertree	-
<b>Carboxin75%WP</b>					
Wheat	Flag smut	1.5 -1.875 gm/ kg seed	2-2.5 gm/ kg seed	N/A	Only onetime seed treatment required
	Loose smut	1.5 - 1.875 gm/ kg seed	2-2.5 gm/kg seed	N/A	Only onetime seed treatment required
	Bunt	1.5 - 1.875 gm/ kg seed	2-2.5 gm/ kg seed	N/A	Only onetime seed treatment required
Barley	Loose smut	1.5 - 1.875 gm/ kg seed	2-2.5 gm/ kg seed	N/A	Only onetime seed treatment required
	Covered smut	1.5 - 1.875 gm/ kg seed	2-2.5 gm/ kg seed	N/A	Only onetime seed treatment required
Cotton	Angular leafspot	1.5 - 1.875 gm/ kg seed	2-2.5 gm/ kg seed	N/A/	Only onetime seed treatment required
<b>Carpropamid27.8%SC</b>					
Rice	Blast	0.03%	0.1%	300-500 depending upon crop stage	
<b>Chlorothalonil 75% WP</b>					
Groundnut	Tikka	0.66 - 0.863 gm	0.875-1.50 gm	600-800	14
	Rust	0.66 - 0.863 gm	0.875-1.50 gm	600-800	14
Potato	Early& late blight	0.66 - 0.937 gm	0.875-1.250 gm	600-800	14
<b>Copper Oxychloride 50% WG</b>					
Grape	Downy mildew	0.12% or120 g/100lt. water	0.24%or 240g/100lt. water	As required depending upon PP equipment	30
Mango	Anthracoese	0.12% or120 g/100lt. water	0.24%or 240g/100lt. water	As required depending up on PP equipment	10

<b>Copper Oxychloride 50% WP</b>					
Citrus	Leaf Spot	1.25	2.5	750-1000	-
	Canker	1.25	2.5	750-1000	-
Chillies	Leaf Spot	1.25	2.5	750-1000	-
	Fruit Rot	1.25	2.5	750-1000	-
Betel	Foot Rot	1.25	2.5	750-1000	-
	Leaf Spot	1.25	2.5	750-1000	-
Banana	Fruit Rot	1.25	2.5	750-1000	-
	Leaf Spot	1.25	2.5	750-1000	-
Coffee	Black Rot	1.87-3.75	3.75-5.5	750-1000	-
	Rust	1.87-3.75	3.75-5.5	750-1000	-
Potato	Early Blight	1.25	2.5	750-1000	-
	Late Blight	1.25	2.5	750-1000	-
Tobacco	Downy Mildew	1.25	2.5	750-1000	-
	Black Sank	1.25	2.5	750-1000	-
	Frog eye leaf	1.25	2.5	750-1000	-
Tomato	Early Blight	1.25	2.5	750-1000	-
	Late Blight	1.25	2.5	750-1000	-
	Leaf Spot	1.25	2.5	750-1000	-
Grapes	Downy Mildew	1.25	2.5	750-1000	-
Coconut	Bud Rot	1.25	2.5	750-1000	-
<b>COPPER HYDROXIDE 53.8% DF</b>					
Potato	Late blight	525	1500	500	22
Grape	Downy mildew	525	1500	500	12
Paddy	False smut	525	1500	500	10
	Bacterial leaf blight	525	1500	500	10
Chilli	Anthracoese	350	1500	62	22
Rice	False smut - Bacterial leaf blight	525	1500	35	10

<b>Copper Hydroxide 77% WP</b>					
Rice	False smut	1000gm	2000gm	750	
<b>Cymoxanil 50% WP</b>					
Grapes	Downey mildew	0.12%	0.24% or 240gm/100 Liter water	As required depending upon the crop stage and equip-ment used	15
<b>Cyazafamid 34.5% SC</b>					
Potato	Late blight	80g	200ml	500	27
Tomato	Late blight	80g	200ml	500	3-5
Grapes	Downy mildew	80g	200ml	500	7
<b>Difenoconazole 3% WS</b>					
Wheat	Loose smut	6.0 g/100 kg seed	200 g /100 kg seed	10-20 ml water / kg seed	This is used as seed dresser
<b>Difenoconazole 25% EC</b>					
Apple	Scab	0.004% or 4 g/100lt. water	0.015% or 15ml/100 lit .water	As required depending upon the size of the plant and plant protection equipment used	14
Rice	Sheath blight	0.0125% or 12.5g/100lt. water	0.05% or 50 ml/100lt. water	500-1000 (or as per the size of plant canopy)	25
Chilli	Die-back Fruit rot	0.0125% or 12.5g/100 lt. water	0.05% or 50 ml/100lt. water	500	15
Cumin	Blight ( <i>Alternaria burnsii</i> )  Powdery mildew ( <i>Erysiphae polygonii</i> )	0.0125% or 12.5 g/100 lit. water	0.05% or 50 ml/100 lit. water.	500	15
Onion	Purple blotch ( <i>Alternaria porri</i> )	0.025% or 25 g/100 lit. water	0.1% or 100 ml/100 lit. water.	500	20



Pomegranate	Fruit rot	0.025% or 25g/100ltr. water	0.1% or 100 ml/100 lit. water.	500	7
Grape	Anthraco nose Powdery mildew	0.0075% or 7.5 g/100lit water	0.03% or 30ml/100lit of water	500	42
<b>Dimethomorph 50% WP</b>					
Grapes	Downy mildew (Plasmoparaviti cola)	500gm	1000gm	750L	25
Potato	Late blight (Phytophthora infestans)	500gm	1000gm	750L	16
<b>Dinocap 48% EC</b>					
Mango	Powdery mildew	2.4gm	5gm	10	-
Rose	Powdery mildew	0.96gm	2ml	10litwater	-
<b>Dithianon 75% WP</b>					
Apple	Scab	1350gm	1800gms	2400L	14-21
<b>Dodine 40% SC</b>					
Apple	Altenaria leaf blight/Blotch	0.05	0.075	10 ltr. / tree	21
	Premature leaf fall	0.05	0.075	10 ltr./ tree	21
<b>Dodine 65% WP</b>					
Apple	Scab	0.05%	0.075%	10	21
<b>Ediphenphos 50% EC</b>					
Paddy	Blast	250-300	500-600	750-1000	21
	Brown leaf spot	250-300	500-600	750-1000	21
<b>Fenarimol12%EC</b>					
Apple	Scab	0.005% (5 g/ 100 lts of water)	0.04 % (40ml/ 100 lts of water)	10lts./ tree	30

<b>Flusilazole 40% EC</b>					
Rice	Sheath Blight	120g ai/ha	300ml/ha	500	24
Chilli	Powdery Mildew	40-60 g a.i/ha	100-150 ml/ha	500	5
<b>Fluxapyroxad 333 g/l FS</b>					
Sorghum	Anthraxnose	0.33	1.0 ml/kg seed	Sufficient to coat the seeds uniformly	N.A (Seed Dresser)
<b>Fosetyl-AL 80% WP</b>					
Grapes	Downey mildew	1120- 1600 gm	1400- 2000 gm	750-1000	30
Cardamom	Azhukal Disease and Damping off	1800- 2400gm	2250-3000 gm	750-1000	90
<b>Hexaconazole 2% SC</b>					
Chillies	Powdery mildew & Fruit rot	60gm	3.0L	500	7
Potato	Early blight & Late blight	60gm	3.0L	500	21
Grapes	Powdery mildew	30-60 gm	1.5-3.0L	500-750 depending upon crop canopy	14
<b>Hexaconazole 5% EC</b>					
Apple	Scab	0.0025%	0.05% (50ml/100lt)	As required	30
Rice	Blast Sheath blight	50gm	1000 ml	500	40
Groundnut	Tikka leaf spot	75gm	1500 ml	500	30
Mango	Powdery mildew	0.005% (5g/100 lit)	0.1% (100ml/100 lt)	As required	30
Soybean	Rust	0.005% (5g/100 lit)	0.1%or (100ml/100 lit)	As required	30
Tea	Blister blight	10gm	200ml	70-90 with power sprayers 175-200 with knap Sack sprayer	7
Grapes	Powdery mildew	25-50gm	500-1000ml	500	14

<b>Hexaconazole 5 % SC</b>					
Mango	Powdery mildew	0.01% (10 g/100 lt water)	0.2%or (200ml/100 lt. water)	As required depending on size of tree and plant protection equipment used.	27
Rice	Sheath blight	0.01% (10 g/100lt water)	0.2%or (200ml/100 lt. water)	As required depending on size of tree and plant protection equipment used	40
Grapes	Powdery mildew	25-50 gm	500-1000	500	14
<b>Hexaconazole 75 % WG</b>					
Paddy	Sheath blight & Sheath rot	50	66.7	500	30
<b>Iprodione 50% WP</b>					
Rapeseed Mustard	Altenaria blight	1.125Kg - 1.5 kg	2.25kg-3kg	750-1000	50
Rice	Sheath blight	1.125kg	2.25kg	750	35
Tomato	Early blight	0.75kg	1.5kg	500	15
Grapes	Anthraco nose	0.5-1.0 kg	1.0–2.0kg	500	20
<b>Isoprothiolan 40% EC</b>					
Rice	Blast	300	750	500-1000	60
<b>Kasugamycin 3% SL</b>					
Rice	Blast	30-50 gm 0.030% 0.050%	1000-1500 ml	750-1000	30
<b>Kitazin 48% EC</b>					
Rice	Blast, Sheath Blight	0.10% or100 gram in 100lit Of water	0.20%or 200mlin 200litof water	As required depending upon crop stage and plant protection equipment used	15
Chilly	Fruit rot /dieback	0.10% or100 gram in 100lit Of water	0.20%or 200mlin 200litof water	As required depending upon crop stage and plant protection equipment used	3

Tomato	Early blight	0.10% or 100 gram in 100lit. of water	0.20%or 200mlin 200lt. of water	As required depending upon crop stage and plant protection equipment used	5
Potato	Early blight	0.10% or 100 gram in 100lit. of water	0.20%or 200mlin 200litof water	As required depending upon crop stage and plant protection equipment used	48
Onion	Purple blotch	0.10% or 100 gram in 100lit. of water	0.20%or 200mlin 200lt. of water	As required depending upon crop stage and plant protection equipment used	63
Pomegranate	Anthracnose	0.10% or 100 gram in 100lit. of water	0.20%or 200mlin 200lt. of water	As required depending upon crop stage and plant protection equipment used	10
Grape	Anthracnose	0.10% or 100 gram in 100lit of water	0.20%or 200mlin 200litof water	As required depending upon crop stage and plant protection equipment used	15
<b>Kresoxim-methyl 44.3% SC</b>					
Paddy	Blast Sheath Blight	250gm	500 ml	500	30
Grapes	Powdery mildew Downey mildew	300-350 gm	600-700ml	500	07
Chillies	Powdery mildew Fruit rot , die back, twig blight	250	500	500	3
Soybean	Rust	250	500	500	43
Potato	Early blight &	250	500	500	23

	late blight				
Cotton	Leaf spot Grey mildew	250	500	500	26
Wheat	Rust Leaf blight	250	500	500	34
Maize	Turcicum leaf blight Rust	250	500	500	25
<b>Lime Sulphur 22% SC</b>					
Apple	Scale Powdery mildew	This liquid is used at one per cent in conventional sprayers: Doses 2-5 lit/ha			2%pre and 1% post blossom
Bean	Rust	This liquid is used at one per cent in conventional sprayers: Doses 2-5 lit/ha			-
Cherry	Leafspot	This liquid is used at one per cent in conventional sprayers: Doses 2-5 lit/ha			Three applications: after petal fall 2 week later & after harvest
Grape	Powdery mildew	This liquid is used at one per cent in conventional sprayers: Doses 2-5 lit/ha			Feb followed by two dustings in summer
Peach	Leaf curl Brown rot Powdery mildew	This liquid is used at one per cent in conventional sprayers: Doses 2-5 lit/ha			Only application before the petal swell. Three pre-harvest applications
Pear	Blackspot	This liquid is used at one per cent in conventional sprayers: Doses 2-5 lit/ha			At white bud, Petal fall.
Plum	Blackspot	This liquid is used at one per cent in conventional sprayers: Doses 2-5 lit/ha			Delayed dormant spray
Rose	Powdery mildew	This liquid is used at one per cent in conventional sprayers: Doses 2-5 lit/ha			Delayed dormant spray

<b>Mancozeb35%SC</b>					
Tomato	Early blight& Late blight	0.175% or175 gm/100 Lt. water	0.5%or500 gm/100lt. water	500Lt Water or as required depending upon crop stage and equipment used	10
<b>Mancozeb 75% WG</b>					
Tomato	Early Blight	750gm	1000gm	500Lit	5-6
<b>Mancozeb75%WP</b>					
Wheat	Brown& black rust	1.125-1.5 kg	1.5-2kg	750Lt	-
	Blight	1.125-1.5 kg	1.5-2kg	750Lt	-
Maize	Leaf blight	1.125-1.5 kg	1.5-2kg	750Lt	-
	Downy mildew	1.125-1.5 kg	1.5-2kg	750Lt	-
Paddy	Blast	1.125-1.5 kg	1.5-2kg	750Lt	-
Jowar	Leafspot	1.125-1.5 kg	1.5-2kg	750Lt	-
Potato	Late blight	1.125-1.5 kg	1.5-2kg	750Lt	-
	Early blight	1.125-1.5 kg	1.5-2kg	750Lt	-
Tomato	Late blight	1.125-1.5 kg	1.5-2kg	750Lt	-
	Buckeye rot	1.125-1.5 kg	1.5-2kg	750Lt	-
	Leafspot	1.125-1.5 kg	1.5-2kg	750Lt	-
Chilies	Damping off	2.25g	3g (soil drench)	1Lt	-
	Fruit rot	1.125- 1.5kg	1.5-2kg	750Lt	-
	Ripe rot	1.125 -1.5 kg	1.5-2kg	750Lt	-
	Leafspot	1.125 -1.5 kg	1.5-2kg	750Lt	-
Onion	Leaf blight	1.125-1.5	1.5-2kg	750Lt	-
Tapioca	Leafspot	1.125- 1.5kg	1.5-2kg	750Lt	-

Cauliflower	Collar rot	2.25gm	3gm	1Lt	-
	Leafspot	1.125-1.5kg	1.5-2kg	750Lt	-
Groundnut	Tikka disease& rust	1.125-1.5kg	1.5-2kg	750Lt	-
	Collar rot Leaf spot	18.75 to 22.50/ 10 kg seed	25 to 30/ 10 kg seed	0.1 (water slurry)	-
Grapes	Angular leafspot	1.125-1.5kg	1.5-2kg	750Lt	-
	Downy mildew	1.125-1.5kg	1.5-2kg	750Lt	-
	Anthracnose	1.125-1.5kg	1.5-2kg	750Lt	-
Guava	Fruit rot	15g	20g	10/tree Lt	-
Banana	Cigar end rot	1.125-1.5 kg	1.5-2kg	1000Lt	-
	Tip rot	1.125-1.5 kg	1.5-2kg	1000Lt	-
	Sigatoka leafspot	1.125-1.5 kg	1.5-2kg	1000Lt	-
Apple	Scab& sooty blotch	22.5 g /tree	30gm/tree	10Lt/tree	-
Cumin	Blight	1.125-1.5 kg	1.5-2kg	500Lt	-
<b>Mandipropamid 23.4% SC</b>					
Grapes	Downy mildew	0.2 ml/lit	0.8 ml/lit	500-1000	5
Potato	Late blight	0.2 ml/lit	0.8 ml/lit	500-750	40
Tomato	Late blight	0.02% or 0.2 m/L	0.08% or 0.8m/L	500	5
<b>Metalaxyl-M 31.8% ES</b>					
Maize	Downey mildew	0.76 g/kg seed	2.4 ml/kg seed	This is used as a seed dresser	
Mustard	Downey Mildew and White rust	1.11	3.5		
Chilli	Damping Off	0.64	2.0		
Tomato	Damping Off	0.64	2.0		
Pearl millet	Downey mildew	0.7 g/kg seed	2.0 ml/kg seed		
Sorghum	Downey mildew	0.7 g/kg seed	2.0 ml/kg seed		
Sunflower	Downey mildew	0.7 g/kg seed	2.0 ml/kg seed		

<b>Metalaxyl35% WS</b>					
Maize	Sorghum downy mildew Sugarcane downy mildew Phillippine downy mildew Brown stripe downy mildew	Slurry seed treatment with 240g/100 kg seed	700g/100 Kg seed	0.75-1.0/100kg seed	3½-4months Depending on the variety
Bajra	Downy mildew	Slurry seed treatment with 200g/100 Kg seed	600g/100 Kg seed	0.75-1.0/100kg seed	3-3½months Depending on the variety
Sorghum	Downy mildew	Slurry seed treatment with 200g/100 Kg seed	600g/100 Kg seed	0.75-1.0/100kg seed	3½-4months Depending on the variety
Sunflower	Downy Mildew.	Slurry seed treatment with 200g/100 Kg seed	600g/100 Kg seed	0.75-1.0/100kg seed	3½-4months Depending on the variety
Mustard	White rust	Slurry seed treatment with 200g/100 Kg seed	600gm/100 Kg seed	0.75-1.0/100kg seed	3½-4months Depending on the variety
<b>Metiram70% WG</b>					
Tomato	Alternaria blight (Alternaria solani)	1750gm	2500gm	500-750lt	6
Groundnut	Tikka (Cercosporaspp.)	1400gm	2000gm	500-750Lt.	16
<b>Metrafenone 500 g/l SC</b>					
Grape	Powdery Mildew	125	250	750	22



<b>M.E.M.C. 6%FS</b>					
Sugarcane	Whip smut	0.025g /kg seed	0.415g /kg seed	100ml	Period of seed treatment 3-5minute
Potato	Tuber	0.025 g/kg seed	0.415g/kg seed	100 ml	Period of seed treatment 3-5 minute
<b>Myclobutanil 10% WP</b>					
Apple	Scab	0.004%	0.04%	10 lit/ tree	21
Grape	Powdery mildew	0.004%	0.04%	500 lit/ha	15
Chilies	Powdery mildew Leafspot Dieback	0.004%	0.04%	500lit/ha	03
<b>Oxathiaprolin 10.1% W/W OD</b>					
Potato	Late blight	20	200	500	22 days
Grapes	Downey mildew	40	400	1000	5 days
<b>Penconazole 10% EC</b>					
Grapes	Powdery mildew (Unicinula necator)	0.005% or5 gm/100 Lt. water	50ml/100Lt. water	Depending up on the requirement	30
Apple	Scab (Venturia inaequalis)	0.005% or5 gm /100 lit water	50ml/100Lt. water	10Lt. water per tree	30
Mango	Powdery mildew (Oidium mangiferae)	0.005% or5 gm/100 Lt. water	50ml/100Lt. water	10Lt. water per tree	30
Pulses (Black Gram /Green gram)	Powdery mildew (Erysiphe polygona)	0.005% or5 gm/100 Lt. water	50ml/100Lt. water	500Lt/ha	30

<b>Penflufen 22.43 % FS</b>					
Potato	Black Scurf ( <i>Rhictonia solani</i> )	0.02	0.083	83	800 kg seed tubers of potato are dipped in the solutions of fungicide for 10 minutes. Tubers after treatment are dried in shade and then sown.
<b>Pencycuron 22.9% SC</b>					
Rice	Sheath blight	150-187.5gm	600-750ml	500Lt.	-
<b>Picoxystobin 22.52% w/w SC</b>					
Rice	Rice blast	150	600	500	12
Grape	Downey Mildew, Powdery Mildew	100	400	750-1000	7
<b>Propiconazole 25% EC</b>					
Wheat	Karnal bunt ( <i>Neovossia indica</i> )	125gm	500gm	750	30
	Leaf rust / Brown Rust ( <i>Puccinia recondite</i> F.sp. <i>tritici</i> )	125gm	500gm	750	30
	Stem rust ( <i>B.graminis</i> f.sp. <i>tritici</i> )	125gm	500gm	750	30
	Stripe rust /Yellow Rust ( <i>P. striiformis</i> )	125gm	500gm	750	30
Rice	Sheath blight ( <i>Rhizoctonia solani</i> f. <i>sesakii</i> )	125gm	500gm	750	30
Groundnut	Early leaf spot ( <i>Cercospora arachidicola</i> )	125gm	500gm	750	15
	Late leaf spot ( <i>C. personata</i> )	125gm	500gm	750	15

	Rust (Puccinia arachidis)	125gm	500gm	750	15
Tea	Blister blight	31.25- 62.50gm	125-250gm	175-250	7
Soyabean	Rust	125gm	500gm	500	26
Cotton	Alternaria leaf spot	125gm	500gm	500	23
<b>Propiconazole 10.7%+ Tricyclazole 34.2% SE</b>					
Paddy	Sheath blight Blast	0.045	0.1	500	23
<b>Propineb70%WP</b>					
Apple	Scab	0.21%or 210 g/100Lt. water	0.30%or300 gram/100Lt. water	As required depending upon size of the tree and plant protection equipment used	30
Pomegranate	Leaf and fruit spots	0.21%or 210 g/100Lt. water	0.30%or300 gram/100Lt. water	As required depending upon size of the tree and plant protection equipment used	10
Potato	Early& late Blight	0.21%or 210 g/100Lt. water	0.30%or300 gram/100Lt. water	As required depending upon crop stage and plant protection equipment used	15
Chilli	Dieback	0.35%or 350 g/100Lt. water	0.5%or500 gram/100Lt. water	As required depending upon crop stage and plant protection equipment used	10
Tomato	Buckeye rot	0.21%or 210 g/100Lt. water	0.30%or300 gram/100Lt. water	As required depending upon crop stage and	10

				plant protection equipment used	
Grapes	Downy Mildew	0.21% or 210 g/100Lt. water	0.30% or 300 gram/100Lt. water	As required depending upon crop stage and plant protection equipment used	40
Rice	Brown leaf spot	1050 to 1400 g	1500 to 2000 g	Use 500 lit respray volume/ hectare	
<b>Pyraclostrobin 20% WG</b>					
Tomato	Early blight	75-100 gm	375-500gm	500	3
Soybean	Frog eye leaf spot (Cercospora) & Alternaria leaf spot	75-100	375-500	500	26
Cotton	Alternaria Leaf blight	100	500	500	14
Groundnut	Tikka disease	100	500	500	29
<b>Pyraclostrobin 100g/l CS</b>					
Paddy	Blast Disease	100	1000	500	18
<b>(Streptomycin Sulphate 90% + Tetracylin Hydrochloride 10%) SP</b>					
Apple	Fire blight	-	Spray Streptocycline 25 to 50 ppm solution at 20 to 30% bloom. It is advisable to spray trees every 3 to 4 days during Blossomtime	-	-

Beans	Halo blight	-	Spray Streptocycline 100 to 150 ppm solution thrice at interval of 7 days .For prevention apply first spray 10 days after emergence of leaf.	-	-
Citrus	Citrus canker	-	Spray Streptocycline 50 to 100 ppm solution repeatedly at an interval of 15 to 20 days after the appearance of new growth. Cover the foliage and young fruits fully.	-	-
Potato	Blackleg and soft rot, bacterial brown wilt or ring or the bangle disease of potato	-	<b>Seeds treatment:</b> Prior to planting soak potato seed tubers in streptocycline 40 to 100 ppm solution for half an hour. <b>Spray:</b> Two to three sprays of 40 to 50 ppm solution at an interval of 20 days. First spray 30 days after planting.	-	-

Tobacco	Wildfire	-	Spray Streptocycline 40to100 ppm solution at two leaf stage of the plant. Repeated application at an interval of 7 days is necessary till the plants get established interfiled.	-	-
Tomato	Bacterial leafspot	-	Spray seedlings with streptocycline 40to100 ppm solution in seed beds and fields after the appearance of first true leaves two sprays of streptocycline ,one before transplanting and another after are effective for controlling the disease.	-	-
Paddy	Bacterial Leaf blight	-	<b>Seeds treatment:</b> Prepare streptocycline 40 ppm solution and soak seeds for12hours at room temperature before sowing. <b>Seedling</b>	-	-

			<p><b>treatment:</b> Dip the seeding in streptocycline 40to100 ppm solution. The antibiotic will be absorbed through the injured roots and penetrate the vascular bundles insides the seedlings. <b>Spray:</b> Spray streptocycline 100to 150ppm solution at early root stage. Second spray, if necessary before grain set.</p>		
Tea	Blister Blight	-	It is fungal disease and can be controlled by spraying 40gmswith 350 to 420 gms copper oxychloride (50% Wet table power) in 67 liters of water per hectare with air blast sprayer, covering two rows on either side.	-	-

<b>Sulphur40%WP</b>					
Cotton	Mites	1.50-2.00 Kg	3.75-5.00kg	750-1000	-
Beans	Powdery mildew	2.25-3.00 kg	5.65-7.50kg	750-1000	-
Cumin	Powdery mildew	1.40Kg	3.50kg	1000	-
Grapes	Powdery mildew	1.22kg	3.00kg	1000	-
Groundnut	Tikka Leaf spot	2.25-3.00 kg	5.65-7.50kg	750-1000	-
Mango	Powdery mildew	1.50-2.00Kg	3.75-5.00kg	1000	-
Opium	Powdery mildew	1.16kg	3.00kg	1000	-
Peas	Powdery mildew	2.25-3.00kg	5.65-7.50kg	750-1000	-
Roses	Powdery mildew & Red Spider Mite	1.50-2.00Kg	3.75-5.00kg	1000	-
Sorghum	Mites	0.75-1.00kg	2.00-2.50kg	750-1000	-
Tea	Pink & Purple Mites	1.00-2.00kg	2.50-5.00kg	750-1000	-
<b>Sulphur 52% SC</b>					
Tea	Red Spider mites	1.04Kg	2.00Lt.	400	-
Pea	Powdery mildew	1.04Kg	2.00Lt.	400	-
Chilli	Powdery mildew	1.04Kg	2.00Lt.	400	-
<b>Sulphur 55.16 % SC</b>					
Grapes	Powdery mildew	0.165% or 165 g/100Lt. water	0.30% or 300 ml/100Lt. water	As required	10
Mango	Powdery mildew	0.165% or 165 g/100Lt. water	0.30% or 300 ml/100Lt. water	As required	10



<b>Sulphur 80% WP</b>					
Apple	Powdery mildew	2-4kg	2.5-5.0Kg	750-1000	-
Grapes	Powdery mildew	2-4kg	2.5-5.0Kg	750-1000	-
Groundnut	Tikka Leaf spot	2-4kg	2.5-5.0Kg	750-1000	-
Cowpea, Moong/Urad	Powdery mildew	2.5kg	3.13Kg	750-1000	-
Pea	Rust	2.5kg	3.13Kg	750-1000	-
Sorghum	Grain smut	2.4-3.2 g/kg seed	3-4g/kg seed	1Lt/10kg seed	-
Chillies & Okra	Powdery mildew	2.5kg	3.13Kg	750-1000	-
Mango	Powdery mildew	2.5kg	3.13Kg	750-1000	-
Citrus	Powdery mildew	2.5kg	3.13Kg	750-1000	-
Tea	Red spider mite	0.8kg	1kg	200	-
	Pink & Purple mite	0.8Kg	1Kg	200	-
<b>Sulphur80%WG</b>					
Grapes	Powdery mildew	1.50-2.00 kg	1.875-2.50 Kg	750-1000	-
Cowpea	Powdery mildew	1.50-2.00 kg	1.875-2.50 Kg	750-1000	-
Guar	Powdery mildew	1.50-2.00 kg	1.875-2.50 Kg	750-1000	-
Pea	Powdery mildew	1.50-2.00 kg	1.875-2.50 Kg	750-1000	-
Cumin	Powdery mildew	1.50-2.00 kg	1.875-2.50 Kg	750-1000	-
Apple	Scab	1.50-2.00 kg	1.875-2.50 Kg	750-1000	-
Mango	Powdery mildew	1.50-2.00 kg	1.875-2.50 Kg	750-1000	-
Wheat	Powdery mildew	1.50-2.00 kg	1.875-2.50 Kg	750-1000	-
<b>Sulphur85%DP</b>					
Grape	Powdery mildew	12.75-17kg	15-20kg	-	-
Groundnut	Tikka Leaf spot	12.75-17kg	15-20kg	-	-
Beans	Powdery mildew	12.75-17kg	15-20kg	-	-

(Cowpea, moong, Urad)	Rust	12.75-17kg	15-20kg	-	-
Pea	Rust	12.75-17kg	15-20kg	-	-
	Powdery mildew	12.75-17 kg	15-20kg	-	-
Rubber	Powdery mildew	31.86kg	37.5kg	-	-
Cumins & Coriander	Powdery mildew	12.75-17 kg	15-20kg	-	-
Tobacco	Powdery mildew	85kg	100kg	-	-
<b>Tebuconazole 2% DS</b>					
Wheat	Loose smut Flag smut	0.2kg/10kg seed	10Lt/10kg seed		
Groundnut	Collar rot Root rot Stem rot	0.2to 0.25kg/10k g seed	10 to 12.5Lt/10 kg seed		
<b>Tebuconazole 5.36% FS</b>					
Wheat	Loose smut	0.2	3.33/10kg of seed	-	-
<b>Tebuconazole 25.9% m/m EC</b>					
Chili	Fruit rot Powdery mildew	0.125- 0.1875 kg	0.50-0.75 lit	500	5
Groundnut	Tikka& rust	0.125- 0.1875 kg	0.50-0.75 lit	500	49
Rice	Blast, Sheath Blight	0.1875 kg	0.750 lit	500	10
Onion	Purple Blotch	0.1563- 0.1875	0.625-0.750	500	21
Soybean	Anthraco nose (pod blight)	0.1563	0.625	500	14

<b>Tebuconazole 25% WG</b>					
Chilli	Powdery mildew, fruit rot	0.125-0.1875	0.500-0.750	500	5
Groundnut	Tikka leaf spot, rust	0.125-0.1875	0.500-0.750	500	22
Rice	Blast	0.1875	0.750	500	10
<b>Tebuconazole 38.39% w/w SC</b>					
Wheat	Leaf blight	258	600	375-500	5
Cabbage	Altenaria leaf spot	258	600	375-500	5
<b>Tetraconazole 3.8% w/w EW</b>					
Grape	powdery mildew	25-30	625-750	500-1000	30
Mango	powdery mildew	50	1250	1000	24
Watermelon	powdery mildew	38	1000	500	12
<b>Thifluzamide 24% SC</b>					
Rice	Sheath Blight, Rhizoctonia solani	90gm	375 gm	500	28
<b>Thiophanate Methyl 70% WP</b>					
Papaya	Powdery mildew	500gm	715gm	750-1000	4-8
Apple	Scab	500gm	715gm	750-1000	3
Tomato	Ring rot	500gm	715gm	750-1000	7
Bottle gourd	Anthracoise	1000gm	1430gm	750-1000	1
Grapes	Powdery Mildew, Anthracnose, Rust	500	715	750-1000	14
		500	715	750-1000	14
		500	715	750-1000	14
<b>Thiram 40 FS</b>					
Maize	Seedling blight	9.6	24	100 ml to make slurry	-

<b>Thiram75% WS</b>					
Groundnut	Collar rot	37.5gm	50gm	1	7-10
Wheat	Flag smut	18.8-22.5 gm	25-30gm	1	7-10
	Karnal bunt	18.8-22.5 gm	25-30gm	1	7-10
Barley	Leaf stripe	18.8-22.5 gm	25-30gm	1	7-10
Maize	Seedling blight	18.8-22.5 gm	25-30gm	1	7-10
Sorghum	Loose smut	18.8-22.5 gm	25-30gm	1	7-10
	Seedling blight	18.8-22.5 gm	25-30gm	1	7-10
Potato	Scab	18.8-22.5 gm	25-30gm	1	7-10
Rice& cotton	Seed born disease	18.8-22.5 gm	25-30gm	1	7-10
<b>Triadimefon 25% WP</b>					
Wheat	Bunt of Wheat	0.025%	0.500kg	750	25
	Powdery mildew	65-135 gm	0.260-0.520	750	25
Pea	Rust, Powdery mildew	0.025%	0.100%	750	25
Grapes	Powdery mildew	0.0025%	0.010%	750	25
<b>Tricyclazole75% WP</b>					
Paddy	Blast	225-300 gm	300-400gm	500	30
<b>Validamycin3%L</b>					
Rice	Sheath Blight	60gm	2000gm	750	Theres houldbe noresidues on grains andstraw ofpaddy14d ays beforethe harvest.

<b>Zineb75%WP</b>					
Jowar	Red leaf spot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Leafspot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Leaf blight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Paddy	Blast	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Wheat	Rust Blight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Maize	Leaf Blight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Ragi (Bajra)	Blast	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Tobacco	Leafspot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Onion	Downy mildew	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Blight	1.125-1.5 KG	1.5-2KG	750-1000 Lt	
Potato	Early blight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Late blight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Tomato	Early blight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Late blight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Greenleaf mound	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Chillies	Fruit rot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Leafspot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Brinjal	Blight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Cucurbits	Downy mildew	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Anthrachnose	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Leafspot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Cauliflower	Leafspot	1.125-	1.5-2KG	750-1000 Lt	

		1.5KG			
Cumin	Early blight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Apple	Scab	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Black rot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Citrus	Greasy spot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Cherries	Leafspot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Grapes	Downy mildew	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Guava	Fruit rot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
<b>Ziram80% WP</b>					
Grape	Downy mildew	1.2-1.6 kg	1.5-2.0kg	750-1000	--
	Anthracnose	1.2-1.6 kg	1.5-2.0kg	750-1000	--
Apple	scab	1.2-1.6 kg	1.5-2.0kg	750-1000	21
Potato	Early blight	1.2-1.6 kg	1.5-2.0kg	750-1000	3
Tomato	Early blight	1.2-1.6 kg	1.5-2.0kg	750-1000	3

## Combination Fungicides

Crop	Common name of the disease	Dosage Per ha (a.i.)	Dosage/ha (Formulation)	Dilution	Waiting Period
<b>Azoxystrobin 4.8% w/w + Chlorthalonil 40% w/w SC</b>					
Watermelon	Leaf spot, downy mildew and powdery mildew	1.344 (0.144+1.2)	3.0	500	5
Cucumber	Leaf spot, downy mildew and powdery mildew	1.344 (0.144+1.2)	3.0	500	3
Cauliflower	Leaf spot, downy mildew	1.344 (0.144+1.2)	3.0	500	3
<b>Azoxystrobin 18.2% w/w + Cyproconazole 7.3% w/w SC</b>					
Wheat	Rust, Powdery Mildew	0.26	1	500	50
Maize	Downy mildew, Turcicum leaf blight, Rust	0.26	1	500	52
<b>Ametoctradin + Dimethomorph 20.27% w/w SC</b>					
Grape	Downey Mildew	420-525	800-1000ml	750	34
Cucurbits	Downey Mildew	420-525	800-1000ml	500	03
Potato	Late Blight	420-525	800-1000ml	500	32
<b>Azoxystrobin 18.2% w/w + Cyproconazole 7.3% w/w SC</b>					
Wheat	Rust, Powdery Mildew	0.26	1	500	50
Maize	Downy mildew, Turcicum leaf blight, Rust	0.26	1	500	52
<b>Azoxystrobin 18.2% w/w + Difenconazole 11.4% w/w SC</b>					
Chilli	Anthracoese & Powdery Mildew	0.03% or 0.3 g/L	0.1% or 1 ml / Liter water	500	5

Tomato	Early blight & Late blight	0.03% or 0.3 g/L	0.1% or 1 ml / Liter water	500	5
Paddy	Blast & sheath blight	0.03% or 0.3 g/L	0.1% or 1 ml / Liter water	500	31
Maize	Blight & Downey Mildew	0.03% or 0.3 g/L	0.1% or 1 ml / Liter water	500	26
Wheat	Rust & Powdery mildew	0.03% or 0.3 g/L	0.1% or 1 ml / Liter water	500	35
<b>Azoxystrobin 8.3% + Mancozeb 66.7% WG</b>					
Grape	Powdery mildew Leaf spot, Anthracnose	124.5+1000	1500	500	7
Chilli	Powdery mildew Downy mildew Anthracnose	124.5+1000	1500	500	7
<b>Fluopyram 17.7% w/w + Tebuconazole 17.7% w/w SC</b>					
Onion	Post-harvest disease(Black mold and neck rot)	Fluopyram 75+ Tebuconazole 75	375	500	30 days
<b>Azoxystrobin 7.1 % + Propiconazole 11.9 % w/w SE</b>					
Rice	Sheath Blight	37.5+62.5	500	500	43
<b>Azoxystrobin 11% + Tebuconazole-18.3% SC W/W</b>					
Chilli	Fruit rot Powdery mildew Die back	72.12	600-700	500-750	7
Rice	Sheath Blight	82.5+137.25	750	500	-
Onion	Purple blotch	82.5+137.25	750	500	7
Apple	Scab, powdery mildew & premature leaf fall	0.11+0.183	1.0	8 – 12	10



<b>Azoxystrobin 12.5 % + Tebuconazole 12.5 % SC</b>					
Chilli	Powdery mildew & fruit rot	0.1+0.1 (0.2)	0.800	500	5
<b>Benalaxyl 8% + Mancozeb 65% WP</b>					
Cucumber	Downy mildew	200+1625	2500	500	5
<b>Boscalid25.2%+Pyraclostrobin12.8%WG</b>					
Grape	Downey Mildew& Powdery mildew	190-228	500-600	750-1000	34
<b>Captan70%+ Hexaconazole5%WP</b>					
Chillies	Fruit rot (Anthracnose)	375-750	500-1000	500	5
Potato	Early blight & Late blight	375-750	500-1000	500	21
Black gram	Powdery mildew Rust	562.5	750	500	20
<b>Carbendazim 1.92% + Mancozeb 10.08% GR</b>					
Paddy	Blast, sheath blight	240+1260	12.5	Broadcasting	46
<b>Carbendazim12%+ Mancozeb63%WP</b>					
Groundnut	Leafspot, blast	375gm	500gm	500lt.	72
Paddy	Blast	563gm	750gm	750lt.	57
Potato	Early blight , late blight , black scuff	210+1102.5			
Tea	Blister blight , grey blight , red rust , die-back , black rot	(150+787.5) - (180+945)	1250-1500	250-500	7
Grape	Downey mildew, powdery mildew, anthracnose	0.11%	0.15%	As required depending on crop canopy	7
Mango	Powdery mildew and anthracnose	0.11%	0.15%	As required depending on	7

				crop canopy	
Groundnut	Tikka leaf spot, collar rot and dry root	1.88	2.5	-	NA (Seed treatment)
<b>Carbendazim 25%+ Mancozeb 50% WS</b>					
Groundnut	Collar rot Dry root rot Tikka leaf spot	(7.5+15.0) To (8.75+17.5) (for 10 kg seed)	30-35	0.1	This is used as seed treatment
Potato	Late blight Black scurf	(1.5 + 3.0) To (1.75 + 3.5) (for 10 kg seed)	6 - 7	2	This is used as seed treatment
Paddy	Brown Spot , Seedling Blast , Sheath Blight	7.5+15 to 8.75+17.5	30-35	NA	NA
Wheat	Loose smut	7.5+15 to 8.75+17.5	30-35	NA	NA
<b>Carbendazim 25 %+ Flusilazole 12.5% SE</b>					
Paddy	Sheath blight	300-360	800-960	500	54
Groundnut	Stem rot , Early leaf spot, Late leaf spot	240-300	640-800	500	24
<b>Carboxin 17.5%+ Thiram 17.5% FF</b>					
Wheat	Loose smut	8.75 to 10.5gm	25 to 30gm	100ml	Being a seed treatment fungicide , no waiting period is required

<b>Carboxin37.5%+ Thiram37.5%DS</b>					
Wheat	Loose smut and other seed borne and early soil borne diseases	2.25 gm/Kg seed	3.0gm/Kg seed	0	About3 Month
Soybean	Collar rot, Charcoal rot and other seedling diseases	2.25 gm/Kg seed	3.0gm/Kg seed	0	About3 Month
Cotton	Root rot, Bacterial bight	2.5gm/Kg seed	3.5gm/Kg seed	0	About3 Months
Groundnut	Collar rot, Seed rot, Root rot, Stem rot	2.25gm/Kg seed	3gm/Kg seed	0	About3 Months
Pigeon pea	Seed rot, Root rot, Stem rot, Fusarium wilt	3gm/Kg seed	4gm/Kg seed	0	About3 Months
Potato	Black scurf	1.87gm/Kg seed	2.5gm/Kg seed	0	About3 Months
<b>Copper Sulphate 47.15% + Mancozeb 30% WDG</b>					
Grape	Anthrachnose, Powdery Mildew & Downy mildew	2357.5+1500	5000	750-1000 Depending on crop canopy	10
<b>Cymoxanil8%+ Mancozeb64% WP</b>					
Grapes	Downy mildew	1080-1440 gm	1500–2000gm	500-1000.	10days
Potato	Late blight	1080gm	1500gm	500-750	10days
Tomato	Late blight	1080gm	1500gm	500-750	10days
Cucumber	Downy mildew	1080gm	1500gm	500-600	10days
Citrus	Gummosis (Foot Rot) (Phtophthora palmivora)	180 g/100L of water + 18 g/L of water of linseed oil	250 g/100L of water + 25 g/L of water of linseed oil	10L/tree;50 ml (linseed oil) tree	82 days
<b>Dimethomorph 12 % + Pyraclostrobin 6.7% WG</b>					
Grape	Downy mildew	280.5	1500	750-1000	34

<b>Famoxadone16.6%+ Cymoxanil22.1%SC</b>					
Grapes	Downy mildew	210	500	500-750	27
Potato	Late blight	210	500	500	40
Tomato	Early and Late Blight	210	500	500	3
Gherkin	Downy mildew	210	500	500-750	3
<b>Fenamidone4.44%+ Fosetyl AI 66.7%WG</b>					
Grape	Downy mildew	88.8+ 1334 - 111.0+ 1667.5 gm	2000-2500 gm	500-750 lt.	90days
<b>Fenamidone10%+ Mancozeb50%WG</b>					
Potato	Late blight	125+625-150+750 gm	1250-1500 gm	500lt.	30
Grapes	Downy mildew	150+750 gm	1500gm	500-750	85
Gherkin	Downy mildew	150+750 gm	1500gm	375-500	5
<b>Flubendiamide 8.33% w/w + Deltamethrin 5.56% w/w SC</b>					
Chickpea	Pod borer	22.50+15	250	500	7
Cucumber	Cucumber beetle, fruit fly	18+12-22.50+15	200-250	500	5
<b>Fluopicolide 4.44% + Fosetyl aluminium 66.67%WG,w/w</b>					
Grape	Downy mildew	99.9 + 1500 to 111+ 1667	2.25-2.5 ( 2250-2500gm)	750li	40
<b>Fluopyram17.7% w/w+Tebconazole17.7%w/w SC</b>					
Grape	Powdery mildew and Anthracnose	Fluopyram112.5 +Tebconazole112.5	562.5	750-1000	10
Onion	Post-harvest disease(Black mold and neck rot)	Fluopyram 75+ Tebuconazole 75	375	500	30
<b>Fluxapyroxad 62.5g/l FS + Epiconazole 62.5 g/L EC (MRL not fixed)</b>					
Rice	Sheath blight	78.12-93.75	625-750	500	33

<b>Fluxapyroxad 250g/l + Pyraclostrobin 250g/l SC</b>					
Grape	Powdery Mildew	100	200	1000	10
<b>Fluxapyroxad 167 g/l + Pyraclostrobin 333 g/l SC</b>					
Cotton	Altenaria leaf	150	300	500	27
Groundnut	Tikka	150	300	500	20
Soybean	Frog eye leaf spot	150	300	500	45
<b>Fluxapyroxad 250 g/l + Pyraclostrobin 250 g/l SC</b>					
Chilli	Powdery mildew	100-125	200 - 250	500	7
	Anthraco nose				
Tomato	Early blight	100-125	200 – 250	500	10
	Septoria leaf spot				
Cucumber	Powdery mildew	100-125	200 - 250	500	10
Mango	Powdery mildew	75 – 100	150 – 200	1000	38
<b>Hexaconazole 4% + Carbendazim 16% SC</b>					
Paddy	Sheath blight, And Blast	(30+120)	750	400 - 500	40
<b>Hexaconazole 5.00% + Validamycin 2.50% SC</b>					
Paddy	Blast & Sheath blight	50+25	1000	500	22
<b>Hexaconazole 4% + Zineb 68% WP</b>					
Paddy	Sheath Blight, Brown Spot. Blast , Grain discoloration	(40+680)- (50+850)gm	1000-1250	500	34
Tea	Black Rot , Grey blight, Blister Blight	25+425 gm	625	250-500	7

<b>Imidacloprid 18.5 % + Hexaconazole 1.5 % FS</b>					
Groundnut	Collar rot, Stem rot, Tikka leaf spot, Rust	37:3	200	NA	Seed Dresser
Wheat	Smut, Rust	37:3	200	NA	Seed Dresser
Groundnut	Termites, Thrips, Jassids Root grubs, collar rot Stem rot Tikka leaf spot Rust	Imidacloprid:37 & Hexaconazole: 3	200	Not applicable	This is used as seed dresser
wheat	Termites, Aphids Smut Rust	Imidacloprid:37 & Hexaconazole: 3	200	Not applicable	
<b>Iprodione25%+ Carbendazim25% WP</b>					
Rice	Sheath Blight Blast	250gm	500gm	500lt.	30
<b>Kasugamycin 5% + copper oxychloride 45% WP</b>					
Grapes	Anthraxnose, Bacterial leaf spot	375	750	400 – 1000	37 days
<b>Mancozeb 63% + Carbendazim 12% WS</b>					
Groundnut	Tikka leaf spot, collar rot, dry root rot	1.88	2.5	----	----
<b>Mancozeb 40% + Azoxystrobin 7% OS</b>					
Tomato	Early Blight & light blight	600g+105g	1500 g	500 L	5
<b>MetalaxylM4%+ Mancozeb64% WP</b>					
Grapes	Downy mildew	0.17%	0.25%	500-1000 lt.	8days
Potato	Late blight	0.17%or 1700 gm	0.25% or 2500gm	500-1000 lt.	24
Black pepper	Phtophthora Foot rot	0.17%or 1700gm	0.25% or 2500gm	2lt./vine As foliar sprayor3 lt./vine as soil	21

				drench	
Mustard	Downy mildew & White rust	0.17% or 1700gm	0.25% or 2500gm	1000lt.	60
Chilli	Damping Off	0.20%	0.3%	2.0l/m <sup>2</sup>	53
<b>Metalaxyl M 3.3%+ Chlorothalonil 33.1% SC</b>					
Potato	Late blight	0.073%	0.2%	500	34
Tomato	Early and Late blight	0.073%	0.2%	500	5
<b>Metalaxyl 8%+ Mancozeb 64% WP</b>					
Grapes	Downy mildew	2000gor 0.4%	2500gor 0.5%	500lt.	Not less than 7 weeks
Tobacco Nursery	Damping off	3600gor 0.072%	5000gor 0.1%	5000lt.	Not less than 7 weeks
	Leaf blight/ Black Shank (Soil drench at sowing and sprays 30 days after sowing)	1440gor 0.14%	2000gor 0.2%	1000lt.	Not less than 7 weeks
Potato	Late blight	1800gm or 0.18%	2500gm or 0.25%	1000lt.	Not less than 7 weeks
Mustard	White rust and Alternaria blight	1800gm or 0.18%	2500gm or 0.5%	1000lt.	Not less than 8 weeks
Black Pepper	Phytophthora foot rot	1.8 g.a.i./vine or 0.09%	2.5gm/vine or 0.125%	2lt./vine (spraying) 5lt./vine (soil drenching)	Not less than 21 weeks
Pearl millet	Downy mildew	1440gm or 0.28%	2000gm or 0.4%	500lt.	Not less than 7 weeks
<b>Metiram 55% + Pyraclostrobin 5% WG</b>					
Tomato	Early blight	900-1050	1500-1750	500	5
Potato	Late blight	900-1050	1500-1750	500	15
Grape	Downy Mildew	900-1050	1500-1750	750	34
Chilli	Anthracoise	900-1050	1500-1750	750	5
Onion	Purple Blotch	900-1050	1500-1750	750	16

Cotton	Alternaria leaf spot	900-1050	1500-1750	750	45
Apple	Premature leaf fall disease & Alternaria leaf spot and blight	1750g/ha	100g/100L	1750	12
Green gram	Cercospora leaf spot	900-150	1500-1750	500	18
Ground nut	Tikka disease	900-1050	1500-1750	500	42
Pomegranate	Fruit spot	900-1050	1500-1750	500	67
Cumin	Alternaria blight & powdery mildew	900-1050	1500-1750	500	20
Black gram	Leafspot disease	900-1050	1500-1750	500	18
Cucumber	Downy mildew disease	900-1050	1500-1750	500	05
Banana	Sigatoka leaf spot disease	900-1050	1500-1750	500	85
<b>Penflufen 13.28% w/w + Trifloxystrobin 13.28% w/w FS</b>					
Groundnut	Seed and seedling Rot Disease	12.32+12.32-15.4+15.4	80 – 100		
Soybean	Seed and seedling Rot Disease	12.32+12.32-15.4+15.4	80 – 100		
<b>Picoxystrobin 7.05% + Propiconazole 11.7% SC</b>					
Paddy	Sheath blight (Rhizoctonia solani) False smut (Ustilagoidea virens) Dirty Panicle	200	1000	500	24
Wheat	Yellow Rust (Puccinia)	200	1000	500	52



	striiformis sp. tritici)				
<b>Picoxystrobin 6.78% + Tricyclazole 20.33 %w/w</b>					
Paddy	Leaf Blast & Neck Blast	300	1000	500	29
<b>Propiconazole 13.9% + Difenoconazole 13.9% EC</b>					
Paddy	Sheath blight, dirty panicle	0.02% - 0.03%	(0.07-0.1%) 0.7-1.0ml/l	500	46
<b>Propiconazole 10.7% w/w + Tricyclazole 34.2% w/w SE</b>					
Paddy	Sheath blight  Blast	280 gm a.i (Propiconazole)  66.5 gm a.i +  Tricyclazole 213.5 gm a.i	625	500	32
<b>Pyraclostrobin 133g/l + Epoxiconazole 50g/l SE</b>					
Ground nut	Tikka	114.37-137.25	625-700	500	21
Wheat	Yellow rust	137.25	750	500	47
Coffee	Rust of Coffee	137.25	750	750	37
Soybean	Control of Cercospora leaf spot	137.25	750	500	27
Cumin	Alternaria blight	137.25	750	500	22
Pomegranate	Fruit disease spot	900-1050	1500-1750	500	67
Banana	Sigatoka leaf spot disease	900-1050	1500-1750	500	85
Maize	Leaf blight	137.25	750	500	48

<b>Tebuconazole 10%WP+Sulphur65%WG</b>					
Chilli	Powdery mildew& Fruit rot	937.50(125+812.5)	1250	500	5
Soybean	Leaf spot & Pod blight	937.50(125+812.5)	1250	500	26
<b>Tebuconazole 50% + Trifloxystrobin 25% WG</b>					
Rice	Sheath blight, Leaf, Neck Blast, Glume discoloration (dirty panicle),	100 + 50	200	375-500	21
Rice	False smut and Brown leaf spot		350-400	500	35
Tomato	Early blight	175+87.5	350	500	3
Black gram	Cercospora leaf spot	150+75	300	500	19
Apple	Premature leaf fall, powdery mildew	0.03%	0.04%(40g/100 lit water)	Spray fluid as required depending on size of tree	30
Grapes	Powdery mildew	87.5+43.75	175	1000	34
Chilli	Powdery mildew, Anthracnose, Alternaria leaf spot	125+62.5	250	500	5
wheat	Yellow rust, powdery mildew	150+75	300	300-500	40
Mango	powdery mildew, Anthracnose,	0.056% -- 0.075%(56.25-75g/100lit water)	0.075%-- 0.1%(75—100g/100lit water)	Spray fluid as required depending on size of tree	15
cotton	Alternaria leaf spot	150+75	300	500	28
Banana	Sigatoka leaf spot	175+87.5	300	750	20
coffee	Rust	150+75	300	1000	11
Onion	Purple blotch	150+75	300	500	10

<b>Thiophanate Methyl 450g/l + Pyraclostrobin 50g/l w/v FS</b>					
Okra	Post emergent damping off	15	30	500	NA
Soybean	Seedling rot	10-12.5	20-25	Sufficient to coat the seeds uniformly	NA
Groundnut	Stem rot	10-12.5	20-25	Sufficient to coat the seeds uniformly	NA
Potato for tuber	Black scuff	10	20	Sufficient to coat the seeds uniformly	NA
<b>Tricyclazole 45% + Hexaconazole 10% WG</b>					
Paddy	Blast and Sheath blight	225+50	500	500	23
<b>Tricyclazole 18.0% w/w + Tebuconazole 14.4% w/w SC</b>					
Rice	Sheath blight, Blast, false smut and grain Discoloration	360 (200+160)	1000 ml/ha		44

\* Warning: When used as a foliar spray on Red Delicious variety of apples. This product may cause resetting.

\*\* In case of fruit trees the values given pertain to the concentration of a.i. in spray solution and volume of spray solution required per tree.