



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 (Haryana)

MAJOR USES OF PESTICIDES
(Registered under the Insecticides Act, 1968)

(As on - 01/01/2021)

(Based on certificate issued)

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

FUNGICIDES

1. Fungicides single product formulations use (Page No. – 02 to 32).
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1. Fungicides single product formulations use

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)	
Amisulbrom 20% SC					
Potato	Late blight (<i>Phytophthora infestans</i>)	100	500	375-500	19
Grape	Downy mildew (<i>Plasmopara viticola</i>)	75	375	400-1000	59
Azoxystrobin 23% SC					
Grapes	Downy mildew, Powdery mildew	125gm	500 ml	500-750	7
Chilli	Fruit rot, Powdery mildew	125gm	500 ml	500-750	5
Mango	Anthraco nose, Powdery mildew	0.025%	0.1%	100ml/ 100 Ltr. (depending upon size of tree)	5
Tomato	Early & Late blight	125gm	500ml	500	3
Potato	Late Blight	0.025% (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
Pomegranate	Leaf & Fruit spot	0.023%	0.1%	500 L/ha (or depending on size of tree)	5

Aureofungin 46.15% w/v SP					
Paddy(Rice)	Blast, Brown leaf spot	-	0.005%	500	30
Grapes	Downey mildew	-	0.005%	750	15
	Anthraco nose	-	0.05%	750	
Citrus	Gummosis	-	1.0%	750 (Soil drench)	30
Apple	Powdery mildew	-	0.005%	10 lit./tree	30
	White root rot	-	0.2%	5-10 injection 2 gm/tree	
Potato	Early blight	-	0.005%	750	30
Bitertanol 25% WP					
Groundnut	Rust	250gm	1000gm	500	30
	Tikka	250gm	1000gm	500	30
Wheat	Karnalbunt	560gm	2240gm	750	-
Captan 50% WG					
Chillies	Fruitrot (Anthraco nose)	750gm	1500gm	500	5
Potato	Early blight & Late blight	750gm	1500gm	500	21
Captan 50% WP					
Apple	Scab	1250gm	2.5kg	750-1000	-
Cherry	Brownrot	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	-
	Lateblight	1250gm	2.5kg	750-1000	-
Captan 75% WP					
Apple*	Scab,Fly speck&Bitterrot	0.12%**	1667gm	15-20**	8
Cherry	Brownrot	0.12%**	1667gm	15-20**	NA
Grape	Downy mildew	1250gm	1667gm	1000	8
Cabbage/ Cauliflower, Tomato, Brinjal, Chillies, Beans, Ornamental	Damping off (Nursery)	0.25%	2500gm	1000 Soildrench inthe nursery	NA
Potato	Early blight	1250gm	1667gm	1000	8
	Lateblight	1250gm	1667gm	1000	8
Tomato	Early blight	1250gm	1667gm	1000	6
	Lateblight	1250gm	1667gm	1000	6
Chillies	Early blight	1250gm	1667gm	1000	8
	Fruitrot	1500gm	2000gm	1000	8
Citrus	Brownrot	0.25**	2500gm	15-20**	NA
	Scab	0.12**	1667gm	15-20**	NA
Rose	Blackspot	1250gm	1667gm	1000	NA
Paddy(Rice)	Leafspot	750gm	1000gm	750	NA
Captan 75%WS					
Chillies (soildrench)	Damping off (soil drench)	15-25 gmper kgseed	20-30gm perkgseed	1	
Cabbage	Damping off (soil drench)	15-25gmper kgseed	20-30gm perkgseed	1	
Tomato	Damping off (soil drench)	15-25 gmper kgseed	20-30gm perkgseed	1	
Tobacco	Damping off (soil drench)	15-25 gmper kgseed	20-30gm perkgseed	1	

Carbendazim 5% GR					
Paddy (Rice)	Brownleaf spot	0.62kg	12.5 kg	-	
Carbendazim 46.27% SC					
Grape	Powderymildew	0.046% or 46 g /100 lit. water	0.1%or100 ml/100lit.Wat er	Asrequired	30
Mango	Powderymildew	0.046% or 46 g/100 lit. water	0.1%or100 ml/100lit. Water	Asrequired	15
Carbendazim 50%WP					
Paddy (Rice)	Blast	125-250 gm	250-500gm	750	(wet slurry treatment)
	Sheath blight	1gm/ kg seed	2 gm/ kg seed	1Lit./10 kg seed	(wet slurry treatment)
	Aerial phase	125-250 gm	250-500gm	750	(wet slurry treatment)
Wheat	Loosesmut	1gm/kg seed	2gm/kg seed	1Lit./10 kg seed	(wet slurry treatment)
Barley	Loosesmut	1 gm/kg seed	2 gm/kg seed	1Lit./10 kg seed	(wet slurry treatment)
Tapioca	Setrot	0.5gm	1	1	-
Cotton	Leafspot	125	250	750	-
Jute	Seedlingblight	1gm/kg seed	2gm/kgseed	1Lit./10 kg seed	(wet slurry treatment)
Groundnut	Tikkaleafspot	112.5 gm	225gm	750	-
Sugar beet	Leafspot	100gm	200gm	400	-
	Powderymildew	100gm	200gm	400	-
Peas	Powderymildew	125gm	250gm	600	-
ClusterBeans	Powderymildew	175gm	350gm	750	-
Cucurbits	Powdery mildew	150gm	300gm	600	-
	Anthracoese	150gm	300gm	600	-
Brinjal	Leafspot	150gm	300gm	600	-

	Fruitrot	150gm	300gm	600	-
Apples	Scab	1.25gm	2.5gm	10Lit./tree	-
Grapes	Anthraco	150gm	300gm	600	-
Walnut	Downyleafspot	1.5gm	3gm	10 Lit./tree	-
Rose	Powdery mildew	0.5gm	1gm	2	-
Ber	Powdery mildew	5gm	10gm	10 Lit./tree	-
Chillies	Damping Off	1 gm/kg seed	2 gm/kg seed	1 Lit./tree	(wet slurry treatment)
Moong	Powdery mildew	250	500	750	-
	Leaf spot & Web blight	125-250	250-500	750	-
Cow Pea	Leaf Spot	150	300	600	-
	Collar rot	150	300	600	-
	Anthraco	150	300	600	-
	Powdery Mildew	150	300	600	-
Tobaco	Frog eye spot	112.5	225	750	-
	Anthraco	112.5	225	750	-
Carboxin75%WP					
Wheat	Flagsmut	1.5 -1.875 gm/ kg seed	2-2.5 gm/ kgseed	N/A	Only onetime seedtreatment required
	Loosesmut	1.5 - 1.875 gm/ kg seed	2- 2.5gm/kgseed	N/A	Only one time seed treatmentrequired
	Bunt	1.5 - 1.875 gm/ kg seed	2-2.5 gm/ kgseed	N/A	Only one time seed treatmentrequired
Barley	Loosesmut	1.5 - 1.875 gm/ kg seed	2-2.5 gm/ kgseed	N/A	Only one time seed treatment required
	Coveredsmut	1.5 - 1.875 gm/ kg seed	2-2.5 gm/ kgseed	N/A	required
Cotton	AngularLeaf spot	1.5 - 1.875 gm/ kg seed	2-2.5 gm/ kgseed	N/A	Only one time seed treatment

Carpropamid 27.8% SC					
Rice (Paddy)	Blast	0.03%	0.1%	300-500 depending upon crop stage	
Chlorothalonil 75% WP					
Groundnut	Tikkaleaf spot	0.66 - 0.863	0.88-1.150	600-800	14
	Rust	0.66 - 0.863	0.88-1.150	600-800	14
Potato	Early & Late blight	0.66 - 0.937	0.875-1.250	600-800	14
Apple	Scab	0.150% (150gm/10 Ltr. water)	0.200% (200gm/100 water)	10 Ltr. water per tree	45
Grapes	Anthraco- nose and Downy mildew	0.15% (150 gm/100 Ltr. water)	0.2% (200gm/ 100L water)	100	60
Chilli	Fruit rot	600	800	750	10
Cauliflower	Leaf spot	1.5 g a.i./Ltr.	2.0 g/Ltr.	500	3
Watermelon	Downy mildew and Leaf spot	1.5 g a.i./Ltr.	2.0 g/Ltr.	500	3
Copper Oxochloride 50% WG					
Grape	Downy mildew	0.12% or 120g/100Ltr. water	0.24% or 240g/100 Ltr. water	As required depending upon PP equipment used	30
Mango	Anthraco- nose	0.12% or 120 g/100Ltr. water	0.24% or 240g/100Ltr. water	As required depending upon PP equipment used	10
Copper oxochloride 50% WP					
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	-
Cardamom	Clump rot	1.87-3.75	3.75-5.5	750-1000	-
	Leaf spot	1.25	2.5	750-1000	-
Copper Hydroxide 53.8% DF					
Potato	Late blight	525	1500	500	22
Grape	Downy mildew	525	1500	1000	12
Chilli	Anthraco	350	1000	500	5
Rice (Paddy)	False smut, Bacterial leaf blight	525	1500	500	10
Copper Hydroxide 77% WP					
Rice (Paddy)	Falsesmut	1000gm	2000gm	750	
Cyflufenamid 5% EW					
Chilli	Powdery mildew (<i>Leveillula taurica</i>)	15	300	375-500	5
Grapes	Powdery mildew (<i>Uncinula necator</i>)	25	500	400-1000	25
Cymoxanil50% WP					
Grapes	Downeymildew	0.12%	0.24% or 240gm/100 ltr. water	Asrequired depending upon the crop	15

				stage and equipment used	
Cyazofamid 34.5% SC					
Potato	Late blight	80g	200ml	500	27
Tomato	Late blight	80g	200ml	500	3-5
Grapes	Downy mildew	80g	200ml	500	7
Difenoconazole 3% WS					
Wheat	Loose smut	6.0	200	This is used as seed dresser	This is used as seed dresser
Difenoconazole 25% EC					
Apple	Scab	0.004% or 4 g/100 ltr. water	0.015% or 15ml/100 ltr. water	As required depending upon the size of the plant and plant protection equipment used	14
Paddy (Rice)	Sheathblight	0.0125% or 12.5g/100ltr. r. water	0.05% or 50 ml/100ltr. water	500	25
Chilli	Die-back, Fruit rot	0.0125% or 12.5g/100 ltr. water	0.05% or 50 ml/100ltr. water	500-1000 (as per the size of plant)	15
Cumin	Blight, Powdery mildew	0.0125% or 12.5 g/100 ltr.. water	0.05% or 50 ml/100 ltr.. water.	500	15
Onion	Purple blotch	0.025% or 25 g/100 ltr. water	0.1% or 100 ml/100 ltr.. water.	500	20
Pomegranate	Fruit rot	0.025% or 25g/100ltr. water	0.1% or 100 ml/100 ltr. water.	500	7
Grape	Anthraco nose, Powdery mildew	0.0075% or 7.5 g/100 ltr. water	0.03% or 30ml/100 ltr. of water	500	10
Groundnut	Leaf spot	0.025% or 25g/100ltr. water	0.1% or 100 ml/100 ltr..water.	As required depending upon the size of the plant and plant protection	34

				equipment used	
Dimethomorph 50% WP					
Grapes	Downymildew	500gm	1000gm	750L	25
Potato	Lateblight	500gm	1000gm	750L	16
Dinocap 48% EC					
Mango	Powdery mildew	2.4gm	5gm	10	-
Rose	Powdery mildew	0.96gm	2ml	10lit. water	-
Dithianon 75% WP					
Apple	Scab	1350gm	1800gms	2400L	14-21
Dodine 40% SC					
Apple	Alternaria leaf blight/Blotch	0.05	0.075	10 ltr. / tree	21
	Premature leaf fall	0.05	0.075	10 ltr./ tree	21
Dodine 65% WP					
Apple	Scab	0.05%	0.075%	10	21
Ediphenphos 50% EC					
Paddy (Rice)	Blast	250-300	500-600	750-1000	21
	Brownleaf spot	250-300	500-600	750-1000	21
Flusilazole 40% EC					
Rice (Paddy)	Sheath blight	120g a.i./ha	300ml/ha	500	24
Chilli	Powdery mildew	40-60 g a.i/ha	100-150 ml/ha	500	5
Fluxapyroxad 333 g/IFS					
Sorghum	Anthraco nose	0.33	1.0 ml/kg seed	Sufficient to coat the seeds uniformly	N.A (Seed Dresser)
Soybean	Rhizoctonia root rot, Cotyledonary	0.33	1.0 ml/kg seed	Sufficient to coat the seeds uniformly	N.A (Seed Dresser)

	spot				
Cotton	Seedling Disease	0.49	1.5 ml/kg seed	Sufficient to coat the seeds uniformly	N.A (Seed Dresser)
Fosetyl-AL 80% WP					
Grapes	Downey mildew	1120-1600gm	1400- 2000 gm	750-1000	30
Cardamom	Azukhal Diseaseand Damping off	1800-2400gm	2250-3000 gm	750-1000	90
Hexaconazole2%SC					
Chillies	Powderymildew &Fruitrot	60gm	3.0L	500	7
Potato	Early blight& Lateblight	60gm	3.0L	500	21
Grapes	Powdery mildew	30-60gm	1.5-3.0L	500-750 depending uponcrop canopy	14
Hexaconazole 5% EC					
Apple	Scab	0.0025%	0.05% (50ml/100lt)	Asrequired	30
Rice (Paddy)	Blast, Sheath blight	50gm	1000 ml	500	40
Groundnut	Tikkaleaf spot	75gm	1500 ml	500	30
Mango	Powdery mildew	0.005% (5g/100 lit)	0.1% (100ml/100 lt)	Asrequired	30
Soybean	Rust	0.005% (5g/100 lit)	0.1%or (100ml/100 lit)	Asrequired	30
Tea	Blister blight	10gm	200ml	70-90 with power sprayers. 175-200 withknap Sack sprayer	7
Grapes	Powdery mildew	25-50gm	500-1000ml	500	14
Hexaconazole 5% SC					
Mango	Powderymildew	0.01% (10 g/100 lt. water)	0.2%or (200ml/100 lt.water)	Asrequired depending onsizeof treeand plant protection	27

				equipment used.	
Rice (Paddy)	Sheath blight	0.01% (10 g/100lt.wate r)	0.2%or (200ml/100 lt.water)	Asrequired depending onsizeof treeand plant protection equipment used.	40
Grapes	Powdery mildew	25-50 gm	500-1000	500	14
Hexaconazole 75% WG					
Paddy (Rice)	Sheath blight&Sheath rot	50	66.7	500	30
Groundnut	Tikka leaf spot, rust	50	66.7	500	31
Chilli	Leaf spot, anthracnose, Powdery mildew	50	66.7	500	7
Iprodione 50% WP					
Rapeseed/ Mustard	Alternaria blight	1.125Kg -1.5 kg	2.25kg-3kg	750-1000	50
Rice (Paddy)	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
Isoprothiolane 40% EC					
Rice (Paddy)	Blast	300	750	500-1000	60
Kasugamycin 3% SL					
Rice (Paddy)	Blast	30-50 gm 0.030% 0.050%	1000-1500 ml	750-1000	30
Tomato	Early blight	30-37.5 0.03- 0.0375%	1000-1250 ml	500-600	03
Kitazin 48% EC					
Rice (Paddy)	Blast, Sheath blight	0.10% or100 gramin	0.20%or 200mlin 200lit.of	Asrequired depending upon crop	15

		100ltr. ofwater	water	stageand plant protection equipment used	
Chilly	Fruit rot /die- back	0.10% or100 gramin 100lit. ofwater	0.20%or 200mlin 200lit.of water	Asrequired depending upon crop stageand plant protection equipment used	3
Tomato	Early blight	0.10% or100 gramin 100lit. ofwater	0.20%or 200mlin 200lt. of water	Asrequired depending upon crop stageand plant protection equipment used	5
Potato	Early blight	0.10% or100 gramin 100lit. ofwater	0.20%or 200mlin 200lit.of water	As required depending upon crop stage and plant protection equipment used	48
Onion	Purple blotch	0.10% or100 gramin 100lit. ofwater	0.20%or 200mlin 200lt. of water	Asrequired depending upon crop stage and plant protection equipment used	63
Pomegranate	Anthracnose	0.10% or100 gramin 100lit. ofwater	0.20%or 200mlin 200lt. of water	Asrequired depending upon crop stage andplant protection equipment used	10
Grape	Anthracnose	0.10% or100 gramin 100lit. ofwater	0.20%or 200mlin 200lit.of water	As required depending upon crop stage and plant protection equipment used	15
Kresoxim-methyl 44.3% SC					
Paddy (Rice)	Blast, Sheath blight	250gm	500 ml	500	30
Grapes	Powdery mildew, Downey mildew	300-350gm	600-700ml	500	7

Chillies	Powdery mildew, Fruit rot, die back, twig blight	250	500	500	25
Soybean	Rust	250	500	500	25
Potato	Early blight & late blight	250	500	500	25
Cotton	Leaf spot, Grey mildew	250	500	500	25
Wheat	Rust, Leaf blight	250	500	500	25
Maize	Turcicum leaf blight, Rust	250	500	500	25
Lime Sulphur 22% SC					
Apple	Scale, Powdery mildew	0.22%	The liquid is used at 1% in conventional sprayers.		2% pre & 1% post blossom
Cherry	Leaf spot	0.44-1.10/ha	2-5 lit/hectare		3 applications after petal fall, 2 weeks later & after harvest
Grapes	Powdery mildew	0.44-1.10/ha	2-5 lit/hectare		February followed by 2 dusting in summer
Pear	Black spot	0.44-1.10/ha	2-5 lit/hectare		At whit bud, Petal fall
Plum	Black spot	0.44-1.10/ha	2-5 lit/hectare		Delayed dormant spray
Rose	Powdery mildew	0.44-1.10/ha	2-5 lit/hectare		Delayed dormant spray
Bean	Rust	0.22%	The liquid is used at 1% in conventional sprayers.		2% pre & 1% post blossom
Peach	Powdery mildew	0.44-1.10/ha	2-5 lit/hectare		Only one application

					before the buds swell, 3 pre harvest application
Mancozeb35%SC					
Tomato	Early blight& Lateblight	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
Potato	Early blight & Late blight	0.175%or175gm/100 Ltr. water	0.5%or500 gm/100lt. water	500Lt Water or as required depending upon crop stage and equipment used	35
Mancozeb 75% WG					
Tomato	Early blight	750gm	1000gm	500Ltr.	5-6
Potato	Late blight	750gm	1000gm	500Ltr.	3-5
Apple	Scab, Pre-mature leaf fall, Alternaria spot/blight, sooty blotch	18.75-22.5/tree	25-30/tree	10L/tree	40
Mancozeb75%WP					
Wheat	Brown& black rust, Blight	1.125-1.5 kg	1.5-2kg	750Ltr..	-
Maize	Leafblight, Downy mildew	1.125-1.5 kg	1.5-2kg	750Ltr.	-
Paddy (Rice)	Blast	1.125-1.5 kg	1.5-2kg	750Ltr.	-
Jowar	Leafspot	1.125-1.5 kg	1.5-2kg	750Ltr.	-
Potato	Lateblight, Earlyblight	1.125-1.5 kg	1.5-2kg	750Ltr.	-
Tomato	Lateblight, Buckeye rot, Leafspot	1.125-1.5 kg	1.5-2kg	750Ltr.	-
Chilies	Damping off	2.25g	3g (soil drench)	1000 Ltr.	-
	Fruitrot, Riperot,	1.125-1.5kg	1.5-2kg	750Ltr.	-

	Leafspot				
Cauliflower	Collarrot	2.25gm	3gm	1000 Ltr.	-
	Leafspot	1.125-1.5kg	1.5-2kg	750Ltr.	-
Groundnut	Tikka disease& rust	1.125-1.5kg	1.5-2kg	750Ltr.	-
	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, Downy mildew, Anthracnose	1.125-1.5kg	1.5-2kg	750Ltr.	-
Guava	Fruitrot	15g/tree	20g/tree	10 Ltr.	-
Banana	Cigar end rot, Tip rot, Sigatoka leafspot	1.125-1.5 kg	1.5-2kg	750 Ltr.	-
Apple	Scab& sooty blotch	22.5 g /tree	30gm/tree	10Ltr.	-
Cumin	Blight	1.125-1.5 kg	1.5-2kg	500Ltr.	-
Mandipropamid 23.4% SC					
Grapes	Downy mildew	0.2 ml/Ltr.	0.8 ml/Ltr.	500-1000	5
Potato	Late blight	0.2 ml/Ltr.	0.8 ml/Ltr.	500-750	40
Tomato	Late blight	0.02% or 0.2 ml/Ltr.	0.08% or 0.8ml/Ltr.	500	5
Meptyl Dinocap 35.7% EC					
Grapes	Powdery mildew	108-120	308.6-342.8	750-1000	30
Chillies	Powdery mildew	108-120	308.6-342.8	500-750	7
Mango	Powdery mildew	108-120	308.6-342.8	1000	7
Pea	Powdery mildew	108-120	308.6-342.8	500	7
Metalaxyl-M 31.8% ES					
Maize	Downey mildew	0.76	2.4		3.5-4 months
Chilli	Damping Off	0.64	2.0		used as seed

					dresser
Tomato	Damping Off	0.64		2.0	used as seed dresser
Pearl millet	Downey mildew	0.64		2.0	76
Sorghum	Downey mildew	0.64		2.0	114
Sunflower	Downey mildew	0.64		2.0	90
Mustard	Downey mildew and White rust	1.11		3.5	used as seed dresser
Metalaxyl 35% WS					
Maize	Sorghum Downy mildew, Sugarcane downy mildew, Phillipine Downy mildew, Brown stripe downy mildew	Slurryseed treatment with 240g/100 kg seed	700g/100 Kgseed	0.75-1.0/100 Kg seed	3½-4months Depending on the variety
Bajra	Downy mildew	Slurryseed treatment with 200g/100 Kgseed	600g/100 Kgseed	0.75-1.0/100kg seed	3-3½months Depending on the variety
Sorghum	Downy mildew	Slurry seed treatment with 200g/100 Kgseed	600g/100 Kgseed	0.75-1.0/100kg seed	3½-4months Depending on the variety
Sunflower	Downy mildew.	Slurry seed treatment with 200g/100 Kgseed	600g/100 Kgseed	0.75-1.0/100kg seed	3½-4months Depending on the variety
Mustard	Whiterust	Slurry seed treatment with 200g/100 Kgseed	600gm/100 Kgseed	0.75-1.0/100kg seed	3½-4months Depending on the variety
Metiram 70% WG					

Tomato	Alternariablight	1750gm	2500gm	500-700 Lt.	6
Groundnut	Tikka	1400gm	2000gm	500-700Lt.	16
Potato	Late blight, Early Blight	1400 gm	2000 gm	500-750 Lt	21
Grape	Downey mildew	1400 gm	2000 gm	500-750 Lt	21
Metrafenone 500 g/l SC					
Grape	Powdery mildew	125	250	750	22
Mango	Powdery mildew	200	0.2ml/l	1000	35
Apple	Powdery mildew	187.5	0.15ml/l	2500	42
Myclobutanil 10% WP					
Apple	Scab	0.004%	0.04%	10 lit/ tree	21
Grape	Powderymildew	0.004%	0.04%	500 lit/ha	15
Chilies	Powdery mildew, Leafspot, Die-back	0.004%	0.04%	500lit/ha	03
Oxathiapiprolin 10.1% OD					
Potato	Late blight	20	200	500	22 days
Grapes	Downey mildew	40	400	1000	5 days
Penconazole 10% EC					
Grapes	Powderymildew	0.005% or5 gm/100 Ltr. water	50ml/100Ltr. water	Dependingupont he requirement	30
Apple	Scab	0.005% or5 gm /100 Ltr. water	50ml/100Ltr. water	10Ltr. Waterper tree	30

Mango	Powdery mildew	0.005% or 5 gm/100 Ltr. water	50ml/100Ltr. water	10Ltr. Water per tree	30
Pulses (Black gram /Greengram)	Powdery mildew	0.005% or 5 gm/100 Ltr. water	50ml/100Ltr. water	500Ltr./ha	30
Penflufen 22.43% FS					
Potato	Black Scurf	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.
Pencycuron 22.9% SC					
Rice (Paddy)	Sheathblight	150-187.5gm	600-750ml	500	69
Potato tuber	Black scurf	0.0625- 0.125	0.25-0.50	-	78
Picoxystrobin 22.52% w/w SC					
Rice (Paddy)	Rice blast	150	600	500	12
Grape	Downey mildew, Powdery mildew	100	400	750-1000	7
Soybean	Rust (<i>Phakopsora pachyrhizi</i>) Leaf spot (<i>Cercospora kikuchii</i> & <i>Alternaria alternata</i>)	100	400	500	25
Cumin	Cumin blight (<i>Alternaria burnsii</i>)	100	400	500	20
Propiconazole 25% EC					

Wheat	Karnal bunt (<i>Neovossia indica</i>)	125gm	500gm	750	30
	Leaf rust / Brown Rust (<i>Puccinia recondite F.sp. tritici</i>)	125gm	500gm	750	30
	Stemrust (<i>B.graminisf.sp . tritici</i>)	125gm	500gm	750	30
	Stripe rust /Yellow Rust (<i>P. striiformis</i>)	125gm	500gm	750	30
Rice (Paddy)	Sheath blight (<i>Rhizoctoniasol ani f.sesakii</i>)	125gm	500gm	750	30
Groundnut	Earlyleaf spot (<i>Cercospora arachidicola</i>)	125gm	500gm	750	15
	Lateleaf spot (<i>C. personata</i>)	125gm	500gm	750	15
	Rust (<i>Puccinia arachidis</i>)	125gm	500gm	750	15
Tea	Blister blight	31.25-62.50gm	125-250gm	175-250	7
Soyabean	Rust(<i>Phakopsoa pachyrhizi</i>)	125gm	500gm	500	26
Cotton	Alternaria leaf spot	125gm	500gm	500	23
Propineb70%WP					
Apple	Scab	0.21%or 210 g/100Ltr. water	0.30%or300 gram/100Ltr. water	As required depending upon size of the tree and plant protection equipment used	30
Pomegranate	Leafand Fruit spots	0.21%or 210 g/100Ltr. water	0.30%or300 gram/100Ltr. water	As required depending upon size of the tree	10

				andplant protection equipment used	
Potato	Early& Lateblight	0.21%or 210g/100 Ltr. water	0.30%or300 gram/100Ltr. water	As required depending uponcrop stageand plant protection equipment used	15
Chilli	Die-back	0.21%or 210 g/100Ltr. water	0.5%or500 gram/100Ltr. water	As required depending uponcrop stageand plant protection equipment used	10
Tomato	Buckeyerot	0.21%or 210 g/100Ltr. water	0.30%or300 gram/100Ltr. water	As required depending uponcrop stageand plant protection equipment used	10
Grapes	Downymildew	0.21%or 210 g/100Ltr. water	0.30%or300 gram/100Ltr. water	As required depending uponcrop stageand plant protection equipment used	40
Rice (Paddy)	Brownleaf spot and Narrow leaf spot	1050to 1400 g	1500to2000 g	Use 500 Litrespray volume/hectare	-
Cotton	Alternaria leaf spot	875-1050	1250-1500	500 Ltr./ha	27
Pyraclostrobin 20% WG					
Tomato	Early blight	75-100 gm	375-500gm	500	3
Soybean	Frog eye leaf spot (Cercospora)& Alternaria leaf	75-100	375-500	500	26

	spot				
Cotton	Alternaria Leaf blight	100	500	500	14
Groundnut	Tikka disease	100	500	500	29
Corn	Turcicum leaf blight	100	500	500	40
Banana	Sigatoka leaf spot	150	750	500	103
Pyraclostrobin 100g/l CS					
Paddy (Rice)	Blast Disease	100	1000	500	18
(Streptomycin Sulphate 90% + Tetracylin Hydrochloride 10%) SP					
Apple	Fireblight	-	Spray Streptocycline 25 to 50 ppm solution at 20 to 30% bloom. It is advisable to spray trees every 3 to 4 days during blossom time.	-	-
Beans	Haloblight	-	Spray Streptocycline 10 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 rot The bangle Disease of potato	-	Seeds treatment: Prior to planting soak potato seed tubers in streptomycin 40 to 100 ppm solution for half an hour. Spray: 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 Streptomycin 40 to 100 ppm solution at two leaf stage of the plant. Repeated application at an interval of 7 days is necessary till the plants get established in the field.	-	-

Tomato	Bacterial Leafspot	-	Spray seedlings with streptomycin 40 to 100 ppm solution in seed beds and fields after the appearance of first true leaves two sprays of streptomycin, one before transplanting and another after are effective for controlling the disease.	-	-
Paddy (Rice)	Bacterial Leafblight	-	Seeds treatment: Prepare streptomycin 40 ppm solution and soak seeds for 12 hours at room temperature before sowing. Seedling treatment: Dip the seedling in streptomycin 40 to 100 ppm solution. The antibiotic will be absorbed through the injured roots and penetrate the vascular bundles inside the seedlings. Spray: Spray	-	-

			streptocycline 100to 150ppmsolutio nat earlyroot stage. Second spray,if necessary beforegrain set.		
Tea	Blister Blight	-	It is fungal Disease and can be controlled by spraying 40gmswith 350 to 420 gms copper oxychloride (50% Wettable powder) in 67 liters of water perhectarewith air blast sprayer, covering two rowson eitherside.	-	-
Sulphur40%SC					
Beans	Powdery mildew	2.25-3.00 Kg	5.65-7.50 Kg	750-1000	-
Cumin	Powdery mildew	1.40g	3.50 Kg	1000	-
Grapes	Powdery mildew	1.22 Kg	3.00 Kg	1000	-
Groundnut	Tikkaleaf spot	2.25-3.00 Kg	5.65-7.50 Kg	750-1000	-
Mango	Powdery mildew	1.50-2.00Kg	3.75-5.00 Kg	1000	-
Opium	Powdery mildew	1.16 Kg	3.00 Kg	1000	-
Peas	Powdery mildew	2.25-3.00 Kg	5.65-7.50 Kg	750-1000	-
Roses	Powdery mildew	1.50-2.00Kg	3.75-5.00 Kg	1000	-
Sulphur 52% Flowable					

Pea	Powdery mildew	1.04Kg	2.00Ltr.	400	-
Chilli	Powdery mildew	1.04Kg	2.00Ltr.	400	-
Sulphur 55.16% SC					
Grapes	Powderymildew	0.165% or 165 g/10Ltr. water	0.30% or 300 ml/100Ltr. water	As required	10
Mango	Powderymildew	0.165% or 165g/10Ltr. r. water	0.30% or 300 ml/100Ltr. water	As required	10
Sulphur 80% WP					
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/Urid	Powdery mildew	2.5kg	3.13Kg	750-1000	-
Pea	Rust	2.5kg	3.13Kg	750-1000	-
Sorghum	Grainsmut	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	-
Sulphur 80% WDG					
Grapes	Powderymildew	1.50-2.00 kg	1.875-2.50 Kg	750-1000	-
Cowpea, Guar, Pea	Powderymildew	1.50-2.00 kg	1.875-2.50 Kg	750-1000	-
Cumin	Powderymildew	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	Powderymildew	1.50-2.00 kg	1.875-2.50 Kg	750-1000	-
Wheat	Powderymildew	2000	2500	500	24
Sulphur 85% DP					
Grape	Powdery mildew	12.75-17kg	15-20kg	-	-

Groundnut	Tikkaleaf spot	12.75-17kg	15-20kg	-	-
Beans (Cowpea, moong, Urd)	Powdery mildew, Rust	12.75-17kg	15-20kg	-	-
Pea	Powdery mildew	12.75-17kg	15-20kg	-	-
Rubber	Powdery mildew	31.875kg	37.50kg	-	-
Cumin & Coriander	Powdery mildew	12.75-17kg	15-20kg	-	-
Tobacco (on ground)	Powdery mildew	85kg	100kg	-	-
Sorghum	Grain smut	2.55-3.40 g/kg of seed	3-4 g/kg of seed	-	-
Tebuconazole 2% DS					
Wheat	Loosesmut, Flag smut	0.2kg/10kg seed	10Lt/10kg seed		
Groundnut	Collarrot, Rootrot, Stemrot	0.2to 0.25kg/10kg seed	10 to 12.5Lt/10 kgseed		
Tebuconazole 5.36% FS					
Wheat	Loose smut	0.2	3.33/10kg of seed	-	-
Tebuconazole 5.4% w/w FS					
Groundnut	Collar rot, Stem rot, Wilt	0.24 g/10 Kg of seed		-	Seed dresser
Chickpea	Root rot, Wilt	0.24 g/10 Kg of seed	4.0 ml/10 Kg of seed	-	Seed dresser
Wheat	Loose smut & flag smut	0.18 g/10 Kg of seed	3.0 ml/10 Kg of seed		Seed dresser
Tebuconazole 25.9% EC					
Chilli	Fruit rot, Powdery mildew	0.125- 0.1875 kg	0.500-0.750 lit	500	5
Groundnut	Tikka & rust	0.125- 0.1875 kg	0.500-0.750 lit	500	49
Rice (Paddy)	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	Anthracnose (pod blight)	0.1563	0.625	500	14
Black gram	Leaf spot, Anthracnose	187.5	750	500	17
Tebuconazole 25% WG					
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 (Paddy)	Blast	0.1875	750	500	10
Wheat	Yellow rust	0.1875	0.750	500	41
Onion	Purple blotch	0.1875	0.1875	500	10
Cumin	Alternaria blight & Powdery mildew	0.1875	0.750	500	28
Tebuconazole 38.39% w/w SC					
Wheat	Leaf blight	258	600	375-500	5
Cabbage	Alternaria leaf spot	258	600	375-500	5
Tetraconazole 3.8% w/w EW					
Grape	powdery mildew	25-30	625-750	1000	30
Mango	powdery mildew	50	1250	1000	24
Watermelon	powdery mildew	38	1000	500	12
Tetraconazole 11.6% w/w (12.5% w/v) SL					
Cotton	Root rot (<i>Rhizoctonia</i>)	15	120	Sufficient to coat the seed	NA (Seed dresser)

	<i>solani</i>)			uniformly	
Thi fluzamide 24% SC					
Rice (Paddy)	Sheath blight, (<i>Rhizoctonia solani</i>)	90gm	375 gm	500	28
Tomato	Early blight	120	500	500	7
Potato	Black Scurf	0.6g a.i./10 kg potato tuber	2.5ml/10 kg potato tuber	-	Used as seed treatment
Thiophanate Methyl 70% WP					
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	Anthracnose	1000gm	1430gm	750-1000	1
Grapes	Powdery mildew, Anthracnose, Rust	500 500 500	715 715 715	750-1000 750-1000 750-1000	7
Thiophanate methyl 70% WG					
Bottle gourd	Anthracnose	750-1000	1070-1430	750-1000	1
Thiram 40% FS					
Maize	Seedling blight	9.6gm/10 kg seeds	24ml/10 kg seeds	100 ml	Seed dresser
Thiram 75% WS					
Groundnut	Collarrot	37.5gm	50gm	1	7-10
Wheat	Flagsmut	18.8-22.5 gm	25-30gm	1	7-10
	Karnal bunt	18.8-22.5 gm	25-30gm	1	7-10
Barley	Leafstripe	18.8-22.5 gm	25-30gm	1	7-10
Maize	Seedling blight	18.8-22.5 gm	25-30gm	1	7-10
Sorghum	Loosesmut	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 (Paddy) & cotton	Seedborn disease	18.8-22.5 gm	25-30gm	1	7-10
Triadimefon 25% WP					
Wheat	Bunt of Wheat	0.025%	0.500kg	750	25
	Powdery mildew	65-135 gm	0.260-0.520	750	25
	Brown rust, Yellow rust, Black rust	250	1.0	750	25
Pea	Rust, Powdery mildew	0.025%	0.100%	750	25
Grapes	Powdery mildew	0.0025%	0.010%	750	25
Tricyclazole 75% WP					
Paddy (Rice)	Blast	225-300 gm	300-400gm	500	30
Validamycin 3% L					
Rice (Paddy)	Sheath Blight	60gm	2000gm	750	There should be no residues on grains and straw of paddy 14 days before the harvest.
Zineb 75% WP					
Jowar	Redleaf spot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Leafspot	1.125-1.5KG	1.5-2KG	750-1000 Lt	

	Leafblight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Paddy (Rice)	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	Leafblight	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	
	Lateblight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Tomato	Early blight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Lateblight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Greyleaf mould	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Chillies	Fruitrot	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	
	Anthracnose	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Leafspot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Cauliflower	Leafspot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
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	Fruitrot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Ziram80%WP					
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

2. Fungicides combination uses					
Crop	Common name of the disease	Dosage/ha (a.i.)	Dosage/ha (Formulation)	Dilution	Waiting Period
Azoxystrobin 4.8% w/w + Chlorothalonil 40% w/w SC					
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
Azoxystrobin 18.2% w/w + Cyproconazole 7.3% w/w SC					
Wheat	Rust, Powdery mildew	0.26	1	500	50
Maize	Downy mildew, Turcicum leaf blight, Rust	0.26	1	500	52
Ametoctradin 27%+ Dimethomorph 20.27% w/w SC					
Grape	Downey mildew	420-525	800-1000ml	750	34
Cucumber	Downey mildew	420-525	800-1000ml	500	07
Potato	Late Blight	420-525	800-1000ml	500	32
Tomato	Late Blight	420-525	800-1000ml	500	03
Azoxystrobin 18.2% + Difenconazole 11.4% w/w SC					
Chilli	Anthraco nose & Powdery Mildew	0.03% or 0.3 g/l	0.1% or 1 ml / Litre water	500	5
Tomato	Early blight & Late blight	0.03% or 0.3 g/l	0.1% or 1 ml /	500	5

			Litre water		
Paddy (Rice)	Blast & sheath blight	0.03% or 0.3 g/l	0.1% or 1 ml / Litre water	500	31
Maize	Blight & Downey Mildew	0.03% or 0.3 g/l	0.1% or 1 ml / Litre water	500	26
Wheat	Rust & Powdery mildew	0.03% or 0.3 g/l	0.1% or 1 ml / Litre water	500	35
Cotton	Leaf spot and Grey mildew	0.03% or 0.3 g/l	0.1% or 1 ml / Litre water	500	12
Turmeric	Leaf blotch, leaf spot and Rhizome rot	0.03% or 0.3 g/l	0.1% or 1 ml / Litre water	500	60
Onion	Purple blotch, Stemphylium blight and Downy mildew	0.03% or 0.3 g/l	0.1% or 1 ml / Litre water	500	7
Sugarcane	Red rot, Smut and Rust	0.03% or 0.3 g/l	0.1% or 1 ml / Litre water	400	265
Azoxystrobin 8.3% + Mancozeb 66.7% WG					
Grape	Powdery mildew , Downy mildew, Anthracnose	124.5+1000	1500	500-750(in water)depending on crop canopy	21
Chilli	Powdery mildew, Leaf spot, Anthracnose	124.5+1000	1500	500	7
Azoxystrobin 11.5% + Mancozeb 30% WP					
Tomato	Early blight and late blight	(86.5+225) to (100.62+ 262.50)	750-875	500	3
Azoxystrobin 7.1% + Propiconazole 11.9% w/w SE					
Rice	Sheath Blight	37.5+62.5	500	500	43
Azoxystrobin 11% + Tebuconazole 18.3% w/w SC					
Chilli	Fruit rot, Powdery mildew, Die-back	72+120	600	500-750	5

Rice (Paddy)	Sheath Blight	82.5+137.25	750	800	-
Onion	Purple blotch	82.5+137.25	750	800	7
Apple	Scab, powdery mildew & premature leaf fall	0.11+0.183	1.0	8 – 12	10
Wheat	Yellow Rust	82.5+137.25	750	500	-
Tomato	Early blight	82.5+137.25	750	500	7
Potato	Early blight, Late blight	82.5+137.25	750	500	-
Grape	Downy mildew, Powdery mildew	82.5+137.25	750	500	10
Azoxystrobin 12.5% + Tebuconazole 12.5% SC					
Chilli	Powdery mildew & fruit rot	0.1+0.1 (0.2)	0.800	500	5
Azoxystrobin 16.7% + Tricyclazole 33.30% SC					
Rice	Sheath blight, Blast, Brown spot	83.5 + 166.5	500	500	24
Benalaxyl 8% + Mancozeb 65% WP					
Cucumber	Downy mildew	200+1625	2500	500	5
Boscalid 25.2% + Pyraclostrobin 12.8% WG					
Grape	Downey Mildew & Powdery mildew	190-228	500-600	750-1000	34
Chilli	Powdery mildew	228	600	500	10
Apple	Powdery mildew	285	750	2500	41
Onion	Purple blotch,	190	500	500	24

	stemphyllum blight				
Tomato	Early blight	190	500	500	10
Captan70%+ Hexaconazole5% WP					
Chillies	Fruitrot (Anthracnose)	375-750	500-1000	500	5
Potato	Earlyblight &Late blight	375-750	500-1000	500	21
Blackgram	Powdery mildew, Rust	562.5	750	500	20
Carbendazim 1.92% + Mancozeb 10.08% GR					
Paddy (Rice)	Blast, sheath blight	240+1260	12.5	Broadcasting	46
Carbendazim12%+ Mancozeb63%WP					
Groundnut	Leafspot	375gm	500gm	500lt.	72
Paddy (Rice)	Blast	563gm	750gm	750lt.	57
Potato	Early blight , late blight , black scruff	1312.5	1750	500	47
Tea	Blister blight , grey blight , red rust , die-back , black rot	937.5	1250	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 crop canopy	7
Chilli	Leaf Spot, Fruit rot, and Powdery mildew	563	750	500	3
Maize	Downy mildew and Leaf blight	120+630	1000	500	37
Apple	Fruit scab & Powdery mildew	0.19%	0.25	As required depending upon crop	20

				canopy	
Groundnut (Seed Treatment)	Tikka leaf spot, Collar rot and dry root rot	1.88	2.5	-	Seed treatment
Carbendazim 25%+ Mancozeb 50% WS					
Groundnut	Collar rot, Dry root rot, Tikka leaf spot	(7.5+15.0) to (8.75+17.5) (for 10 kg seed)	30-35/10 kg seed	0.1	-
Potato	Late blight,Black scurf	(1.5 + 3.0) to (1.75 + 3.5) (for 10 kg seed)	6 – 7/10 kg seed	2	-
Paddy (Rice)	Brown Spot, Blast , Sheath Blight	(7.5+15) to (8.75+17.5)	30-35	0.1	-
Wheat	Loose smut	(7.5+15) to (8.75+17.5)	30-35	0.1	-
Black gram	Root rot, Collar rot	7.5+15	30	0.1	-
Bengal gram	Dry Root rot, Collar rot	7.5+15	30	0.1	-
Soybean	Root rot, Collar rot	7.5+15	30	0.1	-
Onion	Damping-off	7.5+15	30	10	-
Maize	Seed rot, Seedling blight	7.5+15	30	0.1	-
Carbendazim 25 %+ Flusilazole 12.5% SE					
Paddy (Rice)	Sheath blight	300-360	800-960	500	54
Groundnut	Stem rot, Earlyleaf spot, Late leaf spot	240-300	640-800	500	72
Chilli	Powdery mildew, Fruit rot, Die-Back	375	1000	375-500	05
Apple	Alternaria blotch and Premature leaf fall	0.03%	0.08%	650-1000	09
Carboxin17.5%+ Thiram17.5%FF					
Wheat	Loose smut	8.75 to 10.5gm	25 to 30gm	100ml	Seed

					treatment
Carboxin37.5%+ Thiram37.5%WS					
Wheat	Loosesmut and other seedborne and early soilborne diseases	2.25gm/Kg seed	3.0gm/Kg seed	-	About 3 months
Soybean	Collarrot, Charcoal rot and other seedling diseases	2.25gm/Kg seed	3.0gm/Kg seed	-	About 3 months
Cotton	Root rot, Bacterial blight	2.5gm/Kg seed	3.5gm/Kg seed	-	About 3 months
Groundnut	Collarrot, Seedrot, Rootrot, Stemrot	2.25gm/Kg seed	3.0gm/Kg seed	-	About 3 months
Pigeonpea	Seedrot, Rootrot, Stemrot, Fusarium wilt	3gm/Kg seed	4.0gm/Kg seed	-	About 3 months
Potato	Blackscurf	1.87gm/Kg seed	2.5gm/Kg seed	-	About 3 months
Chlorothalonil 40.0% w/w + Difenconazole 4.0 w/w SC					
Tomato	Early blight, Late blight	440 [^] (400+40)	1000	500	7
Chilli	Powdery mildew, Anthracnose, Fruit rot	440 [^] (400+40)	1000	500	7
^ Calculated as 550 (500=50) gm a.i./ha on w/v basis					
Copper Sulphate 47.15% + Mancozeb 30% WDG					
Grape	Anthracnose, Powdery Mildew & Downy mildew	2357.5+1500	5000	750-1000 Depending on crop canopy	10
Cymoxanil 8%+ Mancozeb 64% WP					
Grapes	Downy mildew	1080-1440 gm	1500-2000gm	500-1000	10 days
Potato	Late blight	1080gm	1500gm	500-750	10 days
Tomato	Late blight	1080gm	1500gm	500-750	10 days
Cucumber	Downy mildew	1080gm	1500gm	500-600	10 days
Citrus	Gemmosis (Foot Rot) (<i>Phytophthora palmivora</i>)	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
Dimethomorph 12% + Pyraclostrobin 6.7% WG					

Grape	Downy mildew	280.5	1500	750-1000	34
Cucumber	Downy mildew	280.5	1500	500	10
Potato	Late blight	183.75	1250	500	26
Famoxadone16.6%+ Cymoxanil22.1%SC					
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
Fenamidone4.44%+ Fosetyl-AL 66.7%WDG					
Grape	Downy mildew	88.8+ 1334 - 111.0+ 1667.5 gm	2000-2500gm	500-750 lt.	90days
Fenamidone10%+ Mancozeb50%WG					
Potato	Lateblight	125+625- 150+750gm	1250-1500gm	500lt.	30
Grapes	Downymildew	150+750 gm	1500gm	500-750	85
Gherkin	Downymildew	150+750 gm	1500gm	375-500	5
Flubendiamide 3.5% + Hexaconazole 5% WG					
Paddy (Rice)	Sheath blight, Sheath rot	Flubendiamide- 35 & Hexaconazole- 50	1000	500	30
Flubendiamide 7.5% + Kresoxim-Methyl 37.5% SC					
Rice	Leaf & neck blast, Sheath blight	50 + 250	667	500	30
Tomato	Early and Late blight	50 + 250	667	500	7
Fluopicolide 4.44% + Fosetyl aluminium 66.67%WG					
Grape	Downy mildew	(99.9 + 1500) to (111+ 1667)	2.25-2.5	750ltr.	32
Fluopyram17.7% w/w+Tebuconazole 17.7%w/w SC					
Grape	Powdery mildew and Anthraconase	Fluopyram112.5 +Tebconazole112.5	562.5	750-1000	10
Chilli	Powdery mildew	Fluopyram100	500	500	5

	and Anthracnose	+Tebconazole100			
Rice (Paddy)	False smut, Dirty panicle	Fluopyram110 +Tebconazole110	550 g/ha	500	22
Fluxapyroxad 75g/l + Difenoconazole 50 g/l SC					
Grape	Powdery mildew	100	800	1000	32
Apple	Scab and Powdery mildew	125	1000	2500	33
Fluxapyroxad 62.5g/l + Epoxiconazole 62.5 g/L EC					
Rice (Paddy)	Sheath blight	78.12-93.75	625-750	500	33
Fluxapyroxad 250g/l + Pyraclostrobin 250g/l SC					
Grape	Powdery Mildew	100	200	1000	10
Apple	Premature leaf fall & Alternaria leaf spot	187.5	15 ml formulation/ 100 lit water	2500	29
Mango	Powdery mildew	75-100	150-200	1000	38
Cucumber	Powdery mildew	100-125	200-250	500	10
Chilli	Powdery mildew, Anthracnose	100-125	200-250	500	7
Tomato	Early blight, Septoria leaf spot	100-125	200-250	500	10
Fluxapyroxad 167 g/l + Pyraclostrobin 333 g/l SC					
Cotton	Alternaria leaf	150	300	500	27
Groundnut	Tikka	150	300	500	20
Soybean	Frog eye leaf spot	150	300	500	45
Fluxapyroxad 250 g/l + Pyraclostrobin 250 g/l SC					
Grapes	Powdery mildew	100	200	1000	10
Hexaconazole 4% + Carbendazim 16% SC					
Paddy (Rice)	Sheath blight,	(30+120)	750	400 - 500	40

	and Blast				
Hexaconazole 5.00% + Validamycin 2.50% SC					
Paddy (Rice)	Blast & Sheath blight	50+25	1000	500	22
Hexaconazole 4% + Zineb 68% WP					
Paddy (Rice)	Sheath Blight, Brown Spot, Blast, Grain discoloration	720-900	1000-1250	500	34
Tea	Black Rot, Grey blight, Blister Blight	25+425 gm	625	250-500	7
Apple	Scab, Premature leaf fall, Alternaria leaf spot/blight, Powdery mildew, Core rot	200+3400	0.25% or 25 gm/10 lit. water	10 litre/tree	30
Imidacloprid 18.5% + Hexaconazole 1.5% FS					
Groundnut	Collar rot, Stem rot, Tikka leaf spot, Rust	37:3	200	NA	This is used as seed dresser
Wheat	Smut, Rust, Termites, Aphids	37:3	200	NA	This is used as seed dresser.
Iprodione 25% + Carbendazim 25% WP					
Rice (Paddy)	Sheath blight, Blast	250gm	500gm	500lt.	30
Kasugamycin 5% + copper oxychloride 45% WP					
Grapes	Anthraco-nose, Bacterial leaf spot	375	750	400 – 1000	37 days
Rice (Paddy)	Leaf blast, Neck blast	350	700	375	26 days
Kresoxim-methyl 40% + Hexaconazole 8% WG					

Rice (Paddy)	Sheath blight, Leaf blast, Neck blast	Kresoxim-methyl- 200 &Hexaconazole - 40	500	500	22
Kresoxim-methyl 15% + Chlorothalonil 56% WG					
Chilli	Powdery mildew, Leaf spot, Anthracnose	Kresoxim-methyl- 150 & Chlorothalonil- 560	1000	500	5
Potato	Early blight and Late blight	Kresoxim-methyl- 150 & Chlorothalonil- 560	1000	500	23
Kresoxim-methyl 18% + Mancozeb 54% WP					
Grapes	Powdery mildew, Downy mildew, Anthracnose	270+810	1500	750-1000	5
Tomato	Early blight, Late blight, Fruit rot	250+750	1388	500	7
Mancozeb 63% + Carbendazim 12% WS					
Groundnut	Tikka leaf spot, collar rot, dry root rot	1.88	2.5	----	----
Mancozeb 40% + Azoxystrobin 7% OS					
Tomato	Early Blight & light blight	600g+105g	1500 g	500 L	5
MetalaxylM4%+ Mancozeb64%WP					
Grapes	Downy mildew	0.17% or 1700 gm	0.25% or 2500 gm	500-1000	8
Potato	Lateblight	0.17%or 1700 gm	0.25%or 2500gm	500-1000	24
Black pepper	<i>Phytophthora</i> footrot	0.17%or 1700gm	0.25%or25 00gm	2 L/vine as folliar spray and 3 L/vine as soil drench	Not less than 21 weeks
Mustard	Downy mildew, White rust	0.17%or 1700gm	0.25% or 2500gm	1000	60
Chilli- nursery (soil drenching)	Damping off	0.20% or 2 g a.i./L water	0.30% or 3 g /L water	2.0 L/m ²	53

Pomegranate	Leaf spot & Fruit spot	0.17% or 1.7 g a.i./L water	0.25% or 2.5 g /L water	500 (or depending upon age of tree)	5
Metalaxyl M 3.3%+ Chlorothalonil 33.1% SC					
Potato	Late blight	0.073%	0.2%	500	34
Tomato	Early blight, Late blight	0.073%	0.2%	500	5
Metalaxyl8%+ Mancozeb64% WP					
Grapes	Downymildew	2000gor 0.4%	2500gor 0.5%	500lt.	Notless than7 weeks
Tobacco Nursery	Dampingoff	3600gor 0.072%	5000gor 0.1%	1000lt.	Notless than7 weeks
	Leafblight/ Black Shank (Soil drenchat sowingand sprayat30days aftersowing)	1440gor 0.14%	2000gor 0.2%	1000lt.	Notless than7 weeks
Potato	Lateblight	1800gm or0.18%	2500gmor 0.25%	1000lt.	Notless than7 weeks
Mustard	Whiterust and Alternaria blight	1800gm or0.18%	2500gmor 0.25%	1000lt.	Notless than8 weeks
BlackPepper	Phytophthorafootrot	1.8ga.i/vine or0.09%	2.5gm/vine or0.125%	2lt./vine (spraying) 5lt./vine (soil drenching)	Notless than21 weeks
Pearlmillet	Downy mildew	1440gm or0.28%	2000gmor 0.4%	500lt.	Notless than7 weeks
Metiram 55% + Pyraclostrobin 5% WG					
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	Anthraco nose	900-1050	1500-1750	5	5
Onion	Purple blotch	900-1050	1500-1750	16	16
Cotton	Alternaria leaf spot	900-1050	1500-1750	45	45
Apple	Premature leaf fall disease & Alternaria leaf spot and blight	1750g/ha	100g/100L	1750	12
Pomegranate	Fruit spot	900-1050	1500-1750	500	67
Blackgram	Leafspot disease	900-1050	1500-1750	500	32
Cumin	Alternaria blight & Powdery mildew	900-1050	1500-1750	500	20
Greengram	Cercospora leaf spot	900-1050	1500-1750	500	18
Groundnut	Tikka disease	900-1050	1500-1750	500	42
Banana	Sigatoka leaf spot disease	900-1050	1500-1750	500	85
Cucumber	Downy mildew disease	900-1050	1500-1750	500	5
Bitter gourd	Downy mildew disease	900-1050	1500-1750	500	5
Penflufen 13.28% w/w + Trifloxystrobin 13.28% w/w FS					
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		
Picoxystrobin 7.05% + Propiconazole 11.7% SC					
Paddy (Rice)	Sheath blight, (<i>Rhizoctonia solani</i>) False smut, (<i>Ustilaginoidea virens</i>) Dirty Panicle	200	1000	500	24
Wheat	Yellow Rust				

	<i>(Puccinia striiformis sp. tritici)</i>	200	1000	500	52
Picoxystrobin 6.78% + Tricyclazole 20.33 %w/w SC					
Paddy (Rice)	Leaf Blast & Neck Blast	300	1000	500	29
Chilli	Anthracnose, Wet rot, Powdery mildew	300	1000	500	3
Prochloraz 24.4% + Tebuconazole 12.1% w/w EW					
Chilli	Fruit rot, Die-back & Powdery mildew	267+133	1000	500	5
Prochloraz 5.7% + Tebuconazole 1.4% w/w ES					
Chickpea	Root rot (<i>Rhizoctonia solani</i>), Wilt (<i>Fusarium spp.</i>)	0.18+ 0.045	3.0	-	Seed dresser
Groundnut	Stem rot (<i>Sclerotium rolfsii</i>), Collar rot (<i>Aspergillus niger</i>), Root rot (<i>Rhizoctonia bataticola</i>)	0.18+ 0.045	3.0	-	Seed dresser
Propiconazole 13.9% + Difenconazole 13.9% EC					
Paddy	Sheath blight, dirty panicle	0.02% - 0.03%	(0.07-0.1%) 0.7-1.0ml/L	500	46
Propiconazole 10.7% w/w + Tricyclazole 34.2% w/w SE					
Paddy (Rice)	Sheath blight, Blast	262.5 to 393.75	500-700	500	46
Pyraclostrobin 133 g/l + Epoxiconazole 50g/l SE					
Groundnut	Tikka	114.37-137.25	625-700	500	21
Soybean	Cercospora leaf spot	137.25	750	500	27

Coffee	Rust	137.25	750	750	37
Wheat	Yellow rust	137.25	750	500	47
Cumin	Alternaria blight	137.25	750	500	22
Maize	Leaf blight	137.25	750	500	48
Banana	Sigatoka leaf spot	137.25	750	500	24
Tebuconazole 6.7% + Captan 26.9% w/w SC					
Chilli	Powdery mildew and Anthracnose	80+320	1000	500	5
Apple	Powdery mildew, Alternaria leaf spot/blight, Scab	124+496 0.02% + 0.08%	1550 0.25% or 2.5ml/l of water	10 L/tree	10
Tebuconazole 10%+Sulphur65%WG					
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
Tebuconazole 50% + Trifloxystrobin 25% WG					
Rice (Paddy)	Sheath blight, Leaf, Neck Blast, Glume discoloration (dirty panicle)	100 + 50	200	375-500	21
Tomato	Early blight	175+87.5	350	500	5
Grapes	Powdery mlidew	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%	0.075%-- 0.1%(75— 100g/100lit water)	Spray fluid as required depending on size of tree	15
Thiophanate methyl 450g/l + Pyraclostrobin 50g/l FS					
Okra	Post emergent damping off(<i>Rhizoctonia spp</i>)	15	30	500	NA Seed dresser
Soybean	Seedling rot(<i>Sclerotium spp</i>)	10-12.5	20-25	Sufficient to coat the seeds uniformly	NA Seed dresser
Groundnut	Stem rot(<i>Sclerotium spp</i>)	10-12.5	20-25	Sufficient to coat the seeds uniformly	NA Seed dresser
Potato	Black scruf(<i>Rhizoctonia spp</i>)	10g/100 kg tuber	20/100 kg seed tuber	Sufficient to coat the seeds uniformly	NA Seed dresser
Tricyclazole 20.4% w/w + Azoxystrobin 6.8% w/w SC					
Rice (Paddy)	Blast, False smut, Sheath blight and Grain discoloration (Dirty Panicle)	300 (225+75)	1000	500	10
Tricyclazole 45% + Hexaconazole 10% WG					
Paddy (Rice)	Blast and Sheath blight	225+50	500	500	23
Tricyclazole 18.0% w/w + Tebuconazole 14.4% w/w SC					
Rice (Paddy)	Sheath blight, Blast, false smut and grain Discoloration	360 (200+160)	1000 ml/ha	---	44
Triticonazole 80 g/l + Pyraclostrobin 40 g/l (w/v) FS					
Wheat	Loose smut	0.12	1.0	Sufficient to coat the seeds uniformly	NA

* 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.
