



Government of India
Ministry of Agriculture
Department of Agriculture & Cooperation
Directorate of Plant Protection, Quarantine & Storage
Central Insecticide Board & Registration Committee
N.H. IV, Faridabad-121 001

MAJOR USES OF PESTICIDES
Registered under the
Insecticides Act, 1968
2009

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APPROVED USES OF REGISTERED PESTICIDES

(AS ON 07.11.2009)

I. HERBICIDE

Herbicide name & approved Crops	Weed species	Dosage /ha		Dilution In Water (Litres)	Waiting period / PHI between last application & harvest (days)
		a.i. (Kg/gm)	Formulation in (ltr /Kg/ml/gm)		
Alachlor 50% EC Cotton Maize Groundnut	Digeria arvensis Echinochloa colonum, Eragrostis major Euphorbia hirta Phyllanthus niruri Portulaca oleracea Trianthema portulacastrum Flaveria australasica Gynandropsis pentaphylla	2-2.5 kg	4-5 ltrs.	250-500	210-240
	Echinochloa colonum, Euphorbia hirta Eleusine indica	2.5 kg	5 ltrs.	250-500	90
	Amaranths viridis Digitaria spp. Echinochloa spp. Euphorbia hirta Phyllanthus niruri Portulaca oleracea Trianthema portulacastrum	2.5 kg	5 ltrs.	250-500	120-150

Soybean	Acanthosermum hispidum Flaveria australasica	1.5-2.5 kg	3-5 ltrs.	250-500	120-150
	Amaranthus viridis Cleome viscosa Cyperus iria Dactyloctenium aegyptium Echinochloa spp. Eleusine indica Setaria glauca	2.5 kg	5 ltrs.	250-500	90
Alachlor 10% GR					
Cotton	Dactyloctenium aegyptium	2.0-2.5 Kg	20-25 Kg	-	-
Maize / Groundnut / Soybean	Digitaria spp., Echinochloa spp., Chenopodium album	1.5-2.5 Kg	15-25 Kg	-	-
Anilofos 30% EC					
Transplanted paddy	Echinochloa crusgalli Echinochloa colonum Cyperus difformis , Cyperus iria, Eclipta alba Ischaemum rugosum Fimbristylis sp. Marsilea quadrifoliata	0.3-0.45 kg	1-1.5 ltrs.	375-500	30
Soybean	Echinochloa colonum Commelina begalensis Cyanotis axilaris Ageratum conyzoides	1.25-1.5 kg	4.20-5.0ltr	500	100-120

<p>Anilofos 18% EC</p> <p>Transplanted Paddy</p>	<p>Echinochloa crusgalli Echinochloa colonum Cyperus difformis, Cyperus iria, Eclipta alba Ischaemum rugosum Fimbristylis sp.</p>	<p>0.30-0.45 kg</p>	<p>1.66-2.5 kg</p>	<p>500-600</p>	<p>-</p>
<p>Anilofos 2 % G</p>	<p>Echinochloa crusgalli Echinochloa colonum Ischaemum rugosum Cyperus iria, Cyperus difformis, Fimbristylis sp.</p>	<p>0.4-0.5 Kg</p>	<p>20-25 Kg</p>	<p>-</p>	<p>30</p>
<p>Anilofos 24% +2,4-D ethyl Ester 32% EC</p> <p>Transplanted rice</p>	<p>Echinochloa crusgalli Echinochloa colonum Ischaemum rugosum Fimbristylis miliacea</p>	<p>(0.24+ 0.32) to (0.36 + 0.48) kg</p>	<p>1-1.5 ltrs.</p>	<p>300</p>	<p>90</p>
<p>Atrazine 50% WP</p> <p>Maize</p>	<p>Trianthama monogyna Digera arvensis , Echinochloa spp Eleusine Spp. Xantheium strumarium Brachiaria sp, Digitaria sp, Amaranthus viridis , Cleome viscose, Polygonum spp.</p>	<p>0.5-1.0 kg</p>	<p>1-2 kg</p>	<p>500-700</p>	<p>-</p>
<p>Sugarcane</p>	<p>Portuloaca oleracea , Digitaria sp, Boerhaavia diffusa. Euphorbia sp. Tribulus terrestris</p>	<p>0.5-2.0kg</p>	<p>1-4 kg</p>	<p>500-700</p>	<p>-</p>

<p>Butachlor 50% EC</p> <p>Paddy (transplanted)</p>	<p>Cyperus difformis Cyperus iria Echinochloa crusgalli, Echinochloa colonum, Eleusine indica ,Eclipta alba, Fimbristylis miliacea, Ludwigia parviflora, Sphenoclea zeylanica</p>	<p>1.25-2.00kg</p>	<p>2.5-4 ltrs</p>	<p>250-500</p>	<p>90-120</p>
<p>Butachlor 5% GR</p> <p>Rice</p>	<p>Cyperus difformis Cyperus iria, Echinochloa crusgalli, Echinochloa colonum, Eleusine indica ,Eclipta alba, Fimbristylis miliacea, Ludwigia purviflora, Sphenoclea zeylanica</p>	<p>1.25-2.0 kg</p>	<p>25-40kg.</p>	<p>-</p>	<p>90-120</p>
<p>Butachlor 50% EW</p> <p>Transplanted Rice</p>	<p>Echinochloa colonum Echinochloa crusgalli, Cyperus difformis Cyperus iria Eclipta alba, Fimbristylis miliacea Ludwigia parviflora, Sphenoclea zeylanica Monochoria vaginalis</p>	<p>1.25-1.5 Kg</p>	<p>2.5-3.0</p>	<p>2.50-500</p>	<p>-</p>
<p>Bensulfuron Methyl 60% DF</p> <p>Transplanted Rice. Pre-em (3</p>	<p>Marsilea quadrifoliata Eclipta alba, Ammania baccifera ,Ludwigia</p>	<p>60 gm</p>	<p>100 gm</p>	<p>300 ltrs</p>	<p>88 days</p>

DAT)	parviflora ,Sphenoclea Zeylenica , Monochoria vaginalis , Alternanthera sessillis Cyperus iria , Cyperus difformis , Fimbristylis miliacea, Scirpus royeli				
Transplated Rice (post-em 20 DAT)	Marsilea quadrifoliata Eclipta alba, Ammania baccifera ,Ludwigia parviflora ,Sphenoclea Zeylenica , Monochoria vaginalis ,Alternanthera sessillis Cyperus iria , Cyperus differmis , Fimbristylis miliacca, Scirpus royeli	60gm	100 gm	300 ltrs.	71
Bensulfuron methyl 0.6%+Pretilachlor 6% GR Transplanted Rice	Echinochloa crusgalli , Echinochloa colonum, ,Cynodon dactylon Cyperus iria , Cyperus difformis , Cyperus rotundus , Fimbristylis miliacea, Ludwigia parviflora,Marselia quadrifolia, Enhydra fluctuans,Sphenoclea zeylanica, Eclipta alba, Ammania baccifera.	60 + 600 gm	10 kg	N.A.	88
Bispyribac Sodium 10% SC Rice (Nursary) / Rice	Echinochloa crusgalli Echinochloa colonum Ischaemum rugosum	20 gm	200 ml.	300 ltrs.	-

(Transplanted) /	Cyperus difformis, Cyperus iria ,	20 gm	200 ml	300 ltrs.	78
Rice (Direct seeded)	Fimbristylis miliacea , Eclipta alba , Ludwigia parviflora, Monochoria vaginalis, ,Alternanthera philoxeroides , Sphenoclea zeylenica	20 gm	200 ml	300 ltrs.	78
Carfentrazone ethyl 40% DF Wheat	Chenopodium album , Melilotus Indica , Melilotus alba, Medicago denticulata, Lathyrus aphaca, Anagallis arvensis , Vicia sativa Cirsium arvense , Rumex sp, Malwa sp.	20gm	50 gm.	400	80
Chlorimuron Ethyl 25% WP Soybean	Eclipta alba, Commelina benghalensis Chenopodium album, Cyperus rotundus, Cyperus iria, Parthenium hysterophorus, Acalypha indica, Phyllanthus niruri, Trianthema portulacastrum, Caesulia auxillaris	9 gm	36 gm.	300 ltrs. +Surfactant 0.2 % (Iso-octyl phenoxy-poloxethanol 12.5 %)	45
Rice (transplanted)	Echinochloa crusgalli, Eclipta alba, Commelina benghalensis, Chenopodium album, Cyperus rotundus, Echinochloa colonum	6gm	24 gm.	500-600	60

Cinmethylin 10% EC Transplanted Rice	Cyperus iria Fimbristylis milacea Monochoria vaginalis Commelina Benghalensis Echinochloa crusgalli Marsilea minuta	75-100 gm	0.75-1.0 ltrs.	500-700	110
Clodinafop- propargyl 15% WP Wheat	Phalaris minor (Canary grass)	60gm	400 gm.	375-400	110
Clomazone 50% EC Soybean	Digitaria spp, Echinochloa spp, Parthenium hysterophorus, Commelina spp,	0.75-1.00Kg	1.5-2.0 Ltrs.	500-600	90
Transplanted Rice	Echinochloa crusgalli Echinochloa colonum Cyperus difformis Cyperus iria, Ludwigia parviflora , Eclipta alba	0.4 - 0.5kg	0.8-1.0 ltr	500-750	90
Clomazone 20%+2,4-D EE 30% EC Transplanted	Echinochloa colonum ,	0.250-0.375	1.25 ltrs.	500	100-110

Rice	Echinochloa crusgalli, Cyperus iria, Cyperus difformis, Eclipta alba, Leptochloa chinensis, Panicum repens, Fimbristylis miliacea, Marsilea quadrifoliata, Ludwigia parviflora.	Kg			
Cyhalofop Butyl 10% EC Rice (Directed seeded)	(Echinochloa spp.) Barnyard grass	75-80 gm	0.75-0.80ltr	500-600	90

2,4-D Dimethyl Amine salt 58% WSC					
Maize	Trianthema monogyna, Amaranthus sp., Tribulus terristeris, Boerhaavia diffusa , Euphorbia hirta, Portulaca oleracea, Cyperus sp.	0.5 kg	2.6 ltr	400-500	50-60
Wheat	Chenopodium album , Fumaria parviflora , Melillotus alba , Vicia sative , Asphodelus tenuifolius , Convolvulus arvensi;s .	0.5-0.75 kg	1.25-1.87	500-600	-
Sorghum	Cyperus iria, Digera arvensis, Convolvulus arvensis, Trianthema sp., Tridax procumbens, Euphorbia hirta, Phyllanthus niruri.	1.8 kg	2.5	500-600	-
Potato	Chenopodium album, Asphodelus tenuifolius , Anagalis arvensis, Convolvulus arvensis, Cyperus iria , Portulaca oleracea.	2.0 kg	4.0	400	-
Sugarcane	Cyperus iria Digitaria sp. Dactylactenium aegyptium Digera arvensis Portulaca oleracea Commelina benghalensis Convolvulus arvensis	3.5	5.0	500	-
Aquatic Weeds	Eichhornia crassipes.	0.5-1.0 kg	2.5-5.0	600-700	15-20
Non crop area	Parthenium ysterophorus,	2.65 kg	6.0	300-400	15-20
	Cyperus rotundus.	2.5 kg	5.0	300-400	-

2,4-D Sodium salt Technical (80% minimum)(Earlier Registered as 80% WP)					
Citrus	Euphorbia spp. Convolvulus arvensis Coronopus didymus Amaranthus viridis Oxalis corniculata Tribulus terrestris Fumaria parviflora Sonchus arvensis	1.00-2.5 kg	1.25-2.05 kg	600	>6months
Grapes	Convolvulus spp. Tridax procumbens	2.0	2.5	500	> 90 days
Maize	Amaranthus viridis, Trianthema portulacastrum Phyllanthus niruri.,Euphobia geniculata,Amaranthus spinosus.Cleome chelidonii, Lagasca mollis	1.00 Kg.	1.25	500	120(Pre-em) 90(post-em)
Sugarcane	Boerhaavia diffusa Chenopodium album Tribulus terrestris Portulaca oleracea Xanthium spp. Convolvulus arvensis Amaranthus spinosus Digera arvensis Celosia argentina.	2.0-2.6	2.5-3.25	600-900	300
Wheat	Leucas aspera , Chenopodium album,Vicia sativa, ,Argemone maxicana ,	0.5-0.84 kg.	0.625-1.0	500	90

Sugarcane	Cyper iria, Digitaria sp., Dactyloctenium, Aegyptiana, Digera arevensis, Portuluca oleeracea, Commelina benghalensis, amaranthus sp., Convolvulus arvensis	1.2 to 1.8	3.53- 5.29	500	300-330
Aquatic Weeds	Eichhornia crassipes	2.5 kg	7.5	700-1000	-
2,4-D Ethyl Ester 4%GR					
Transplanted Rice	Echinochloa Coloum E. Crusgalli Panium ischaemum Cynodon dactylon (germinating) Cyperus rotundus (germinating) Cyperus iria C. difformis Ludwigia parviflora Monochoria Vaginalis Marsilea quadrifoliata Cyanotis cucutata Eclipta alba Ammania baccifera	1.0 kg	25 kg	-	-
Diclofop Methyl 28% EC					
Wheat	Avena fatua, Phalaris minor	0.7-1.0 kg	2.5-3.5 ltr	500	90

Diuron 80% WP					
Cotton	Amaranthus spp, Chenopodium album, Convolvulus arvensis Setaria glauca, Digitaria sp, Portulaca oleracea, Xanthium strumerium, Anagallis arvensis, Asphodelus temifolius, Euphorbia sp, Visia sativa Paspalum conjugatum,	0.75-1.5 kg	1-2.2Kg.	625	-
Banana	Cyperus iria, Commelina benghalensis, Digitaria sp, Amaranthus spp, Dactyloctenium, Chlo ris barbata, Eragrostis zeylenica,	1.60 kg	2 kg.	625	-
Rubber	Grasses & Non grasses	1.6-3.2 kg	2-4kg.	625	-
Maize	Cyperus iria, Echinochloa spp, Digitaria spp, Chenopodium album, Eleusine sp, Amaranthus sp, Phyllanthus niruri	0.8 kg	1.0 kg.	600	-
Citrus (sweet orange)	Cyperus iria, Tribulus Terristris, Digera arvensis, Commelina nudiflora, Cocumis trigonus..	2-4.0kg	2.5-5.0kg	600	-
Sugarcane	Cyperus iria, Portulaca racea, Echinochloa rusgalli, Cynotis spp, Amaranthus spp, Convolvulus spp, Digitaria spp.	1.6-3.2kg	2.0-4.0 kg.	600	-

Grapes	Cleome viscosa, Chenopodium album. Cyperus iria, Euphorbia hirta, Alternanthera echinata, Amaranthus spp, Argemone maxicana, Ipomoea spp, Xanthium strumerium, Furmeria parviflora, Asphodelus tenuifolius, Medicago denticulata, Eleusine aegyptia.	1.6kg	2.0 kg.	625	-
Ethoxysulfuron 15% WDG Transplanted Rice.	Fimbristylis miliacea Cyperus iria ,Cyperus difformis, Scirpus sp., Eclipta alba, Marsilea quadrifoliata, Ammania baccifera, Monochoria vaginalis ,	12.5-15gm	83.3-100gm	500	110
Fluchloralin 45% EC Cotton	Acanthospermum hispidum, Cleome viscosa, Datura sp. Trianthema monogyna Tridax procumbens, Cynodon dactylon (germinating) Amaranthus spp., Portulaca spp, Achyranthus aspera, Euphorbia hirta, Cenchrus catharticus,	0.9-1.2kg	2.0-2.68 ltrs.	500-800	180

Soybean	Digitaria sanguinalis, Eleusine sp, Panicum sp, Lagasca mollis, Gynandropsis pentaphylla, Achalypha indica Eragrostis sp., Boerhaavia hispada, Cyperus compestris,	1.0-1.5kg.	2.22-3.33	500-800	120-150
Fenoxaprop-p-ethyl 9.3% w/w EC (9% w/v)					
Soybean	Echinochloa colonum, Echinochloa crusgalli, Digitaria sp, Eleusine indica, Setaria sp, Brachiaria sp.	100gm.	1.11 ltrs.	250-300	100
Rice (transplaned)	Echinochloa crusgalli, Echinochloa colona	56.25 gm	625 gm.	300-375	70
Fenoxaprop-p-ethyl 10% EC					
Wheat	Phalaris minor	100-120gm	1.0-1.20 kg.	250-300	110
Flufenacet 60% DF					
Paddy (Transplanted)	Echinochloa crusgalli Echinochloa colonum Cyperus iria	120 gm	200 gm	500	90-110

<p>Glyphosate 20.2%</p> <p>SL IPA salt</p> <p>Non Crop area</p>	<p>Phyllanthus niruri, Ageratum conyzoides, Parthenium hysterophorus, Sorghum halepense, Amaranthus spinosus, Alternanthera sessilis, Cynodon dactylon, Cyperus rotundus, Echinochloa colonum, Trianthema portalucastrum</p>	<p>0.82-1.23 kg</p>	<p>4.1-6.15</p>	<p>400-500</p>	<p>N/A</p>
<p>Glyphosate 41% SL IPA Salt</p> <p>Tea</p>	<p>Axonopus compressus, Cynodon dactylon, Imperata cylindrical, Polygonum perfoliatum, Paspalum scrobiculatum, Arundinella, bengalensis Kalm grass.</p>	<p>0.820- 1.230kg.</p>	<p>2.0-3.0</p>	<p>450</p>	<p>21</p>
<p>Glyphosate 54% SL (IPA Salt)</p> <p>Non Crop Area</p>	<p>Ageratum conyzoides, Alternanthera sessilis, Echinochloa spp, Eclipta alba, Ischaemum rogosum Setaria spp, Commilina spp, Cyperus spp,</p>	<p>1.8 kg</p>	<p>3.33 ltrs.</p>	<p>400-500</p>	<p>-</p>

<p>Glyphosate Ammonium Salt 5% SL Tea</p>	<p>Cynodon dactylon Digitaria sanguinalis Paspalum conjugatum Ageratum conyzoides Biden pilosa Cyperus rotundus Boreria latifolia Euphorbia spp. Imperata cylendrica</p>	<p>1.5 kg.</p>	<p>30 ltrs.</p>	<p>500</p>	<p>7 days</p>
<p>Non Crop area</p>	<p>Digitaria sanguinalis Eragrostis minor Cynodon dactylon Digera arvensis Euphorbia spp. Parthenium hysterophorus Cyprus rotundus Xantrhium stremerium Tribulus terrestris.</p>	<p>2 kg.</p>	<p>40 ltrs.</p>	<p>500</p>	<p>-</p>
<p>Glyphosate 71% SG (Ammonium Salt) Tea & Non Crop area</p>	<p>Acalypha indica Sida aculata Ipomea digitarea Cychorium intybus Digera arvensis Digitaria sanguinalis Paspalum conjugatum Ageratum conyzoides Cynondon dactylon Cyperus rotunedus Eragrostis spp.</p>	<p>2.13 kg</p>	<p>3.0 kg.</p>	<p>500</p>	<p>7</p>
<p>Gulfosinate Ammonium 13.5% SL (15% w/v) Tea</p>	<p>Panicum repens, Borreria hispida, Imperata cylindrical, Digitaria sanguinalis, Commelina benghalensis, Ageratum conyzoides, Eleusine indica, Paspalum conjugatum</p>	<p>0.375-0.500</p>	<p>2.5-3.3</p>	<p>375-500</p>	<p>15</p>

Hexazinone 13.2% + Diuron 46.8 % WP	Sugarcane Enchinochloa colonum Dactyloctenium aegyptium Trianthema monogyna Amaranthus viridis Ipomea spp Cyperus rotundus Cyperus esculentus Setaria spp Parthenium hysterochloa Euphorbia hirta	1200 gm (264+936)	2 Kg	500	282-306
Isoproturon 50% WP	Wheat Phalaris minor Avena fatua Poa annua	1.0kg	2.0	750	-
Isoproturon 75% WP	Wheat Phalaris minor Avena fatua Poa annua	1.0kg	1.33 kg.	750	60 days
Imazethapyr 10% SL	Soybean Cyperus difformis Echinochloa colonum E. crusgalli Euphorbia hirta Croton sperrisiferous, Digeria arvensis, Commelina benghalensis Groundnut Cyperus difformis Commelina benghalensis, Trianthema	100 gm 100-150 gm	1.0 ltrs. 1.0-1.5 ltrs.	500-600 500-700	75 90

	portulacasturm, Eragrostis pilosa				
Linuron 50% WP Pea	Anagallis arvensis, Chenopodium album, Chenopodium murale, Portulaca oleracea, Mielilotus indica, Melilotus alba, Medicago denticulata Fumeria parviflora, Echinochloa crusgalli, Poa annua.	0.625-1.0 kg	1.25-2.0	500	80-90
MCPA, Amine salt 40% WSC Transplanted Rice	Cyperus rotundus Impmoea reptans Ammania baccifera Lippia nodiflora Alternanthera sp. Ludwigia parviflora Marsilea quadrifoliata	0.8-2.0 kg	2-5	400-600	
Wheat	Chenopodium album , Asphodelus tenuifolius Fumaria parviflora Carthamus oxyacantha Launea sp. , Pluchia lanceolata , Melilotus indica, Vicia hirsuta, Lathyrus aphaca, Medicago denticulata, M. lupulina , Spergula arvensis, Argemone maxicana, Phyllathus niruri.	1.0kg	2.5	300-600	
Metolachlor 50% EC Soybean	Echinochloa sp. Eleusine indica	1.0 kg	2.0 ltrs.	600-750	

	Digitaria sp. Panicum sp. Cyperus sp. Amaranthus viridis				-
Mesosulfuron Methyl 3% + Iodosulfuron Methyl Sodium 0.6% WG Wheat	Phalaris minor Medicago denticulata Chenopodium album Melilotus sp. Rumex sp. Anagallis arvensis Coronopus didymus Lathyrus aphaca Fumaria parviflora	(12+2.4 gm)	400 ml.	400-500 + Surfactant (Genopol LRO fluid) @ 500 ml/ha	96

Metsulfuron Methyl 20% WP					
Wheat	Chenopodium album, Melilotus indica, Lathyrus aphaca, Anagallis arvensis, Vicia sativa, Convolvulus arvensis.	4 gm	20 gm	500-600 + Surfactant (Iso-Octyl Phenoxy- Poloxetha nol 12.5%)@ 500 ml/ha	80
Rice (transplanted)	Cyperus rotundus, Spherchochlea spp., Fimbristylis sp. Eclipta alba. Caesulia auxillaris Ludwigia parviflora Marsilea quadrifoliata Cyperus rotundus	4 gm.	20 gm.	500-600	60
Metsulfuron Methyl 20% WG					
Wheat	Chenopodium album Melilotus indioca Melilotus alba Lathyrus aphaca Anagallis arvensis Vicia sativa Rumex denticulate Convolvulus arvensis Meedicago denticulate	4 gm.	20 gm.	500-600 + Surfactant (Iso-Octyl Phenoxy- Poloxetha nol 12.5%) @0.2%	76
Transplanted Rice	Monochoria vaginalis Ludwigia parviflora Ludwigia adscendens Marselea quadrifoliata Eclipta alba Oxalis minima Dapatorium junceum Commelina benghalensis Ammania baccifera Sphenoclea zeylanica Caesulia axillaries.	4 gm	20 gm.	500-600 + Surfactant (Iso-Octyl Phenoxy- Poloxetha nol 12.5%) @0.2%	71

<p>Metsulfuron Methyl 10% + Chlorimuron ethyl 10% WP</p> <p>Transplanted Rice (Pre-emergence application-3 DAT</p>	<p>Cyperus iria, Cyperus difformis, Fimbristylis miliacea, Eclipta alba, Ludwigia parviflora, Cyanotis axillaries, Monocoria vaginalis, Marsilea quadrifoliata,</p>	<p>4gm</p>	<p>20 gm.</p>	<p>300</p>	<p>90</p>
<p>Methabenzthiazuron 70% WP</p> <p>Wheat (PE – 2DAS)</p> <p>Wheat (Post – EM 30 DAS)</p> <p>Wheat (Early POE.16-18 DAS)</p>	<p>Phalaris minor, Avena fatua, Avena ludoviciana,Poa annua, Polypogon monapliensis, Anagallis arvensis, Chenopodium album</p> <p>Phalaris minor, Avena fatua, Avena ludoviciana, Chenopodium album</p>	<p>1.05-1.4kg</p> <p>1.05-1.75kg</p> <p>0.7-0.87 kg</p>	<p>1.5-2.0 kg.</p> <p>2.0-2.5 kg.</p> <p>1.0-1.25 kg.</p>	<p>700-1000</p> <p>700-1000</p> <p>700-1000</p>	<p>100</p> <p>100</p> <p>100</p>

Metribuzin 70% WP Soybean	Digitaria spp. Cyperus esculentus Cyperus campestris Borreria spp. Eragrostis spp.	0.35-0.525 kg	0.5-0.75kg.	750-1000	30
	Wheat Phalaris minor Chenopodium album Melilotus spp.	0.175- 0.21kg	0.25-0.30 kg.	500-750	120
Oxadiazon 25% EC Transplanted Rice	Echinochloa crusgalli E.colonum Cyperus iria C.difformis Marsilea quadrifoliata, Eclipta alba, Ludwigia sp.	0.5kg	2.0 ltrs.	500	- -
Oxyflourfon 0.35% GR Rice (Direct sown puddled or Transplanted)	Echinochloa sp. Cyperus difformis Cyperus iria Eclipta alba Ludwigia parviflora Fimbristylis miliacia, Marsilea spp	100-150 gm	30-40 kg.	-	-
Oxyflourfon 23.5% EC Rice (Direct sown as pre- emergence)	Echinochloa sp. Cyperus iria, Eclipta alba,	150-240 gm	650-1000	500	-
Tea	Digitaria, Imperata, Paspalum, Borreria	150-250 gm	650-1000	500-750	15 days

Onion	hispidia, Chenopodium album, Amaranthus viridis,	100-200 gm	425-850 gm	500-750	-
Potato	Chenopodium ,Coronpus Trianthema, Cyperus, Heliotropium	100-200 gm	425-850 gm.	500-750	-
Groundnut	Echinochloa colonum Digitaria arginata	100-200 gm	425-850 gm	500-750	-
Oxadiargyl 80% WP Transplanted Rice	Echinochloa crusgalli Echinochloa colonum, Cyperus iria , cyperus difformis , Eclipta alba Ludwigia quadrifoliata	100gm	0.125 kg.	500	97
Oxadiargyl 6%EC Transplanted Rice	Echinochloa crusgalli Echinochloa colonum, Cyperus iria , cyperus difformis , Eclipta alba Ludwigia quadrifoliata	100gm	1.66 ltrs	500	97
Cumin	Chenopodium album Remex sp., Melilotus indica, Asphodelus tenuifolius	60-75gm	1.0-1.25 ltrs.	500	87

Pendimethalin 30% EC					
Wheat	Phalaris minor, Chenopodium album, Melilotus alba, Portulaca oleracea, Anagallis arvensis, Fumaria parviflora, Poa annua	Light soil- 1.0 kg,	3.3 ltr.	500-700	-
		Medium soil-1.25 kg,	4.2	500-700	
		Heavy soil- 1.5 kg	5.0	500-700	
Rice(Transplant ed &direct sown Upland)	Echinochloa colona, E.crusgalli, Fimbristylis miliacea, Marselia quadrifoliata, Alternanthera sessilis, Ammonia baccifera, Ludwigra parviflora, Eclipta alba, Cyperus difformis	Light to Heavy soil 1-1.5kg	3.3 –5 Ltrs.	500-700	
Cotton	Echinochloa spp.Euphorbia hirta Amarnanthus viridisPortulaca oleraceaTrianthe ma spp.Eleusine indica	0.75-1.25kg	2.5-4.165 ltrs	500-700	150
Soybean	Echinochloa spp., Euphorbia spp., Amarnanthus viridis, Portulaca oleracea, Trianthe ma spp., Eleusine indica	0.75-1.0kg	2.5-3.3 ltrs.	500-700	110
Groundnut	Echinochloa sppEleusine indica Tranthe ma onogyna, Dactyloctenium aegyptium, Cleome viscose, Digitaria , nguinalis	0.75-1.5	2.5-5.0	500-700	120

Chillies	Echinochloa spp, Eleusine indica,	1.0-1.25	2.5-4.16	500-700	15
Onion	Chenopodium album, Melilotus spp., Digitaria sanguinalis., Portulaca oleracea, Anagallis arvensis, Echinochloa spp	0.75-1.0	2.5-3.3	500-700	15
Pendimethalin 5 % G Rice (Transplanted & Direct sown puddled)	Echinochloa colona, E.crusgalli, Fimbristylis miliacea, Marselia quadrifoliata, Alternanthera sessilis, Ammonia baccifera, Ludwigra parviflora, Eclipta alba, Cyperus difformis	1.0-1.5 kg	20-30 kg	-	-
Pendimethalin 38.7% CS Soybean	Echinochloa colonum Dinebra arabuica Digitaria sanguinalis Bracharia mutica Dactyloctinum aegyptium Portulaca oleracea Amaranthus viridis Euphorbia geniculata Cleome viscose	580.5- 677.25gm	1500-1750	500	40

<p>Pretilachlor 37%EW</p> <p>Transplanted Rice</p>	<p>Echinochloa crusgalli Echinochloa colonum Cyperus difformis Cyperus iria Digitaria sanguinalis Fimbristylis miliacae Eclipta alba Ludwigia parviflora Monochoria vaginalis</p>	<p>0.60-0.75 kg</p>	<p>1.5-1.875 ltrs.</p>	<p>500</p>	<p>90</p>
<p>Pretilachlor 30.7% EC. (Direct seeded rice under puddled condition)</p>	<p>Echinochloa crusgalli Echinochloa colonum Cyperus difformis Cyperus iria</p>	<p>0.45- 0.60kg.</p>	<p>1.5-2.0 ltr.</p>	<p>500</p>	<p>110</p>
<p>Pretilachlor 50% EC</p> <p>Transplanted Rice</p>	<p>Echinochloa crusgalli Echiniochloa colonum Cyperus difformis Cyperus iria Fimbristylis miliacae Eclipta alba Ludwigia parviflora Monochoria vaginalis Leptochloa chinensis Panicum repens</p>	<p>0.50-0.75 kg.</p>	<p>1.0-1.5 ltrs.</p>	<p>500-700</p>	<p>75-90</p>
<p>Paraquat dichloride 24% SL</p> <p>Tea</p>	<p>Imperata cylendrica Setaria sp., Commelina benghalensis, Boerhavia</p>	<p>0.2-1.0 kg</p>	<p>1.0-5.0 ltrs</p>	<p>200-400</p>	<p>90-120</p>

	<p>hispidula, Paspalum conjugatum, Clerodendron infortunatum, Arundinella benghalensis Eupatorium spp, Erechthites vaberianaefolia</p>				
Potato	<p>Chenopodium sp. Angallis arvensis Trianthema monogyna Cyperus rotundus</p>	0.5kg	2.5 ltr.	500	40-60
Cotton	<p>Digera arvensis Cyperus iria Trianthema portulacastrum</p>	0.3-0.5 kg	1.5-2.5	500	150-180
Rubber	<p>Digitaria sp., Eragrostis sp. Fimbristylis sp. Euphorbia odoratum</p>	0.3-0.5	1.5-2.5	670	40-60
Rice (pre-ploughing pre-seeding)	<p>Ageratum conyzoides Commelina benghalensis Echinochloa crusgalli Panicum repens Cyperus iria Brachiaria mutica Mar silea,quadriofoliata Mallugo spergulla Hygrophilla spinosa,</p>	0.3-0.8	1.5-4.0	250	-
Wheat	<p>Grassy & Broad leaf weeds</p>	1.0 kg	5.0 ltrs	500	120-150
Maize	<p>Cyperus rotundus Commelina benghalensis Trianthema monogyna Amaranthus sp.</p>	0.2-0.5 kg	1.0-2.5 ltrs	500	90-120

Grape	Echinochloa sp Cyperus rotundus Cynodon dactylon Convolvulus sp. Portulaca sp. Tridax sp.	0.5 kg.	2.5 ltrs.	500	20-30
Apple	Rosa moschata Rosa eglanteria Rubus ellipticus	0.75 kg	3.75 ltrs	700-1000	60-90
Aquatic weeds	Eichhornia crassipes	1.0 kg	5.0 kg	600-1000	-
	Hydrilla	1-1.5 ppm in water	5.0 kg	600	-
	Typha latifolia Salvinia molesta	1-2 kg	5-10 ltrs	600 or more	2-4 applicatio n at 90 days interval.
Pendimethalin 30%+ Imazethapyr 2% EC					
Soybean	Echinocloa crusgalli Digera arvensis Commelina Benghalensis, Amaranthus viridis Portulaca oleracea	(750+50) to (900+60) gm	2.5-3.0 ltrs	500-600	90
Pyrithiobac Sodium 10% EC					
Cotton Gossypium	Trianthema Spp Amaranthus Spp Chenopodium Spp Digera Spp Celosia argentia	62.5-75 gm	625-750	500	160

Quizalofop-ethyl 5% EC Soybean	Echinochloa crusgalli E. colomum Eragrostis sp.	37.5-50 gm.	0.75-1.0	500-600	95
Quizalofop –p- tefuryl 4.41% EC Soybean	Echinochloa spp. Dinebra arabica Digitaria sanguinalis Cynodon dactylon Hemarthria compressa Eleusine indica	30-40 gm	750-1000 ml	400	30
Sulfosulfuron 75% WG Wheat	Phalaris minor Chenopodium sp. Melilotus alba	25 gm	33.3 gm	200-250 + Cationic surfactant 500 ml/ha	110
Sulfosulfuron 75%+ Metsulfuron Methyl 5%WG Wheat	Phalaris minor, Chenopodium sp., Medicago denticulata, Coronopos dedymus, Rumex spp. Melilotus alba, Anagallis arvensis	(30+2)	40 gm	250-500 + surfactant 1250 ml/ha	110
Triallate 50% EC Wheat	Avena fatua	1.25 kg	2.5 kg.	250-500	150

