



भारत सरकार
Government of India
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Ministry of Agriculture & Farmers Welfare
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Department of Agriculture & Farmers Welfare
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Directorate of Plant Protection, Quarantine & Storage
केंद्रीय कीटनाशी बोर्ड एवं पंजीकरण समिति
Central Insecticides Board & Registration Committee
एनएच IV, फरीदाबाद-121 001 (हरियाणा)
N.H. IV, Faridabad-121 001 (Haryana)

Major Uses of Pesticides

(Registered under the Insecticides Act, 1968)

(UPTO - 31/03/2022)

(Based on certificate issued)

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HERBICIDES

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APPROVED USES OF REGISTERED HERBICIDES

HERBICIDES

Herbicide name & approved Crops	Weed species	Dosage /ha		Dilution In Water (Litres)	Waiting period / PHI between last application & harvest (days)
		a.i. (gm/kg)	Formulati on in (gm/ ml/kg/ltr)		
Ametryne 80% WDG					
Sugarcane	<i>Dactyloctenium aegyptium</i> , <i>Digitaria sanguinalis</i> , <i>Cynodon dactylon</i> , <i>Ageratum conyzoides</i> , <i>Trianthema monogyna</i> , <i>Parthenium hysterophorus</i>	2.0 kg	2.5 kg	500	311
Anilofos 30% EC					
Transplanted paddy	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> <i>Cyperus difformis</i> , <i>Cyperus iria</i> , <i>Eclipta alba</i> <i>Ischaemum rugosum</i> <i>Fimbristylis sp.</i> <i>Marsilea quadrifoliata</i>	0.3-0.45 kg	1-1.5 ltrs.	375-500	30
Anilofos 18% EC					
Transplanted Paddy	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> <i>Cyperus difformis</i> , <i>Cyperus iria</i> , <i>Eclipta alba</i> <i>Ischaemum rugosum</i> <i>Fimbristylis sp.</i>	0.30-0.45 kg	1.66-2.5 kg	500-600	-
Anilophos 2 % G					

Transplanted rice	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> <i>Ischaemum rugosum</i> <i>Cyperus iria</i> , <i>Cyperus difformis</i> , <i>Fimbristylis sp.</i>	0.4-0.5 Kg	20-25 Kg	-	30
Atrazine 50% WP					
Maize	<i>Trianthema monogyna</i> <i>Digera arvensis</i> , <i>Echinochloa spp</i> <i>Eleusine Spp.</i> <i>Xanthium strumarium</i> <i>Brachiaria sp</i> , <i>Digitaria sp</i> , <i>Amaranthus viridis</i> , <i>Cleome viscose</i> , <i>Polygonum spp.</i>	0.5-1.0 kg	1-2 kg	500-700	-
Sugarcane	<i>Protulaca oleracea</i> , <i>Digitaria spp.</i> , <i>Boerhaavia diffusa</i> , <i>Euphorbia spp.</i> , <i>Tribulus terrestris</i>	0.50-2.00 kg	1.00- 4.00 kg	500-700	-
Azimsulfuron 50% DF					
Rice (Transplanted)	<i>Enchinochloa colonum</i> , <i>E. crusgalli</i> , <i>Cyperus spp.</i> , <i>Fimbristylis miliacea</i> , <i>Ludwigia parviflora</i> , <i>Eclipta alba</i> , <i>Bergia capensis</i> , <i>Marsilea quadrifoliata</i> , <i>Ammania baccifera</i> , <i>Sphenoclea zeylanica</i>	35	70	300	59
Rice (Direct Seeded)	<i>Enchinochloa colonum</i> , <i>E. crusgalli</i> , <i>Cyperus spp.</i> , <i>Fimbristylis miliacea</i> , <i>Ludwigia parviflora</i> , <i>Eclipta alba</i> , <i>Bergia capensis</i> , <i>Marsilea quadrifoliata</i> , <i>Ammania baccifera</i> , <i>Sphenoclea zeylanica</i>	35	70	300	59
Bensulfuron Methyl 60% DF					

Transplanted Rice. Pre-em (3 DAT)	<i>Marsilea quadrifoliata</i> <i>Eclipta alba</i> , <i>Ammania baccifera</i> <i>Ludwigia parviflora</i> <i>Sphenoclea Zeylenica</i> , <i>Monochoria vaginalis</i> , <i>Alternanthera sessillis</i> <i>Cyperus iria</i> , <i>Cyperus difformis</i> , <i>Fimbristylis miliacea</i> , <i>Scirpus roylei</i>	60 gm	100 gm	300 ltrs	88 days
Transplated Rice (post-em 20 DAT)	<i>Ammania baccifera</i> <i>Cyperus difformis</i> <i>Cyperus iria</i> <i>Eclipta alba</i> <i>Fimbristylis miliacca</i> <i>Ludwigia parviflora</i> <i>Marsilea quadrifoliata</i> <i>Monochoria vaginalis</i> <i>Alternanthera sessillis</i> <i>Scirpus roylei</i> <i>Sphenoclea zeylenica</i>	60gm	100 gm	300 ltrs.	71
Bentazone 480 g/l SL					
Soybean (Early POE: 2-3 leaf stage of weeds)	<i>Cyperus rotundus</i> <i>Achalipha indica</i> <i>Commelina bengalensis</i> <i>Echinochloa colanum</i> <i>Echinochloa crusgalli</i>	960	2000	500	62
Transplanted rice (Early POE: 2-3 leaf stage of weeds)	<i>Cyperus rotundus</i> <i>Cyperus difformis</i> <i>Ludwigia sps.</i> <i>Eclipta alba</i> <i>Echinochloa colanum</i> <i>Echinochloa crusgali</i>	960	2000	500	71
Bispyribac Sodium 10% SC					
Rice (Nursary) (10-12 DAS)	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i>	20-25 gm	200 ml.	300 ltrs.	-
Rice (Transplanted) (10-14 DAP)	<i>Ischaemum rugosum</i> <i>Cyperus difformis</i> , <i>Cyperus iria</i>	20-25 gm	200-250 ml	300 ltrs.	78

Rice (Direct seeded) (10-15 DAS)	<i>Fimbristylis miliacea</i> , <i>Eclipta alba</i> , <i>Ludwigia parviflora</i> , <i>Monochoria vaginalis</i> , <i>Alternantheraphiloxeroides</i> <i>Sphenoclea zeylanica</i>	20-25 gm	200-250 ml	300 ltrs.	78
Butachlor 50% EC					
Paddy (transplanted)	<i>Cyperus difformis</i> <i>Cyperus iria</i> <i>Echinochloa crusgalli</i> , <i>Echinochloa colonum</i> , <i>Eleusine indica</i> , <i>Eclipta alba</i> , <i>Fimbristylis miliacea</i> , <i>Ludwigia parviflora</i> , <i>Sphenoclea zeylanica</i>	1.25-2.00kg	2.5-4 ltrs	250-500	90-120
Butachlor 5% GR					
Transplanted Rice	<i>Echinochloa Crusagalli</i> <i>Digitaria sanguinalis</i> <i>Setaria spp.</i> , <i>Commelina benghalensis</i> , <i>Fimbristylis milliacea</i> , <i>Cyperus iria</i> , <i>Eleusine indica</i> , <i>Panicum spp.</i> , <i>Echinochloa Colonom</i> , <i>Eclipta alba</i> , <i>Cyperus Defformis</i> , <i>ludwigia paviflora</i> .	1.25 -1.87 Kg	25.00 – 37.50 Kg	-	90 – 105
Butachlor 50 % EW					
Transplanted Rice	<i>Echinochloa colonum</i> <i>Echinochloa crusgalli</i> , <i>Cyperus difformis</i> <i>Cyperus iria</i> <i>Eclipta alba</i> , <i>Fimbristylis miliacea</i> <i>Ludwigia parviflora</i> , <i>Sphenoclea zeylanica</i> <i>Monochoria vaginalis</i>	1.25-1.5 Kg	2.5-3.0	2.50-500	-
Carfentrazone ethyl 40% DF					

Wheat (25-35 DAS)	<i>Chenopodium album</i> , <i>Melilotus Indica</i> , <i>Melilotus alba</i> , <i>Medicago enticulate</i> , <i>Lathyrus aphaca</i> , <i>Analgalis arvensis</i> , <i>Vicia sativa</i> , <i>Circium arvense</i> , <i>Rumex sp</i> , <i>Malwa sp.</i>	20gm	50 gm.	400	80
Direct seeded Rice (10-15 DAS)	<i>Ludwigia parviflora</i> <i>Digera arevensis</i> <i>Phyllanthus niruri</i> <i>Spilanthus sp</i> , <i>Eclipta alba</i> <i>Cyperus sp.</i>	25	62.50	300	102
Chlorimuron Ethyl 25% WP + Surfactant					
Soybean (3-15DAS)	<i>Cyperus rotundus</i> <i>Commelina benghalensis</i> <i>Celosia argentea</i> <i>Digera arvensis</i> <i>Cucumis trigonus</i> <i>Cyprus iria</i> , <i>Parthenium hysterophorus</i> , <i>Acalypha indica</i> , <i>Phyllanthus niruri</i> , <i>Trianthema portulacashurm</i> , <i>Caesulia auxillaris</i>	9 gm	36 gm.	300 ltrs. + non ionic surfactant 0.2 % (Iso-octyl phenoxy- poloxetha nol 12.5 %)	45
Rice (transplanted) (5-10 DAT)	<i>Echinochloa crusgalli</i> , <i>Eclipta alba</i> , <i>Commelina benghalensis</i> , <i>Chenopodium album</i> , <i>Cyperus rotundus</i> , <i>Echinochloa colonum</i>	6gm	24 gm.	500-600	60
Cinmethylin 10% EC					
Transplanted Rice	<i>Cyperus iria</i> <i>Fimbristylis milacea</i> <i>Monochoria vaginalis</i> <i>Commelina Benghalensis</i> <i>Echinocloa crusgalli</i> <i>Marsilea minuta</i>	75-100 gm	0.75-1.0 ltrs.	500-700	110

Clodinafop- propargyl 15%WP					
Wheat	<i>Phalaris minor</i> (Canary grass)	60gm	400 gm.	375-400	110
Clodinafop- propargyl 15% w/w DF					
Wheat	<i>Phalaris minor</i> (Canary grass)	60 gm	400	500	70
Clethodim 25% EC					
Soybean	Grasses (<i>Echinochloa spp.</i> , <i>Digitaria spp</i> and <i>Cynadon dactylon</i>)	120-180	500-700 ml	500	62
Clomazone 50%EC					
Soybean	<i>Digitaria sp.</i> <i>Echinochloa sp.</i> <i>Parthenium hysterophorus</i> <i>Commelina sp.</i>	0.75-1.00Kg	1.5-2.0 Ltrs.	500-600	90
Transplanted Rice	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> <i>Cyperus difformis</i> <i>Cyperus iria</i> , <i>Ludwigia parviflora</i> <i>Eclipta alba</i>	0.4 – 0.5kg	0.8-1.0 ltr	500-750	90
Sugarcane	<i>Enchinochloa colonum</i> <i>Brachiaria repens</i> <i>Dactyloctenium aegyptium</i> <i>Trianthema portulacastrum</i>	0.75-1.00 kg a.i./ha	1.5-2.0 ltr/ha	500 Lit	296
Cyhalofop Butyl 10% EC					
Rice (Directed seeded)	(<i>Echinochloa spp.</i>) <i>Barnyard grass</i>	75-80 gm	0.75- 0.80ltr	500-600	90
2,4-D Dimethyl Amine salt 58% SL					
Maize	<i>Trianthema monogyna</i> , <i>Amaranthus sp.</i> , <i>Tribulus terrestris</i> , <i>Boerhaavia diffusa</i> , <i>Euphorbia hirta</i> , <i>Portulaca oleracea</i> , <i>Cyperus sp.</i>	0.5 kg	0.86	400-500	50-60

Wheat	<i>Chenopodium album</i> , <i>Fumaria parviflora</i> , <i>Melilotus alba</i> , <i>Vicia sativa</i> , <i>Asphodelus tenuifolius</i> , <i>Convolvulus arvensis</i> ,	0.5-0.75 kg	0.86-1.29	500-600	-
Sorghum	<i>Cyperus iria</i> , <i>Digera arvensis</i> , <i>Convolvulus arvensis</i> , <i>Trianthema sp.</i> , <i>Tridax procumbens</i> , <i>Euphorbia hirta</i> , <i>Phyllanthus niruri</i> .	1.8 kg	3.1	500-600	-
Potato	<i>Chenopodium album</i> , <i>Asphodelus tenuifolius</i> , <i>Anagalis arvensis</i> , <i>Convolvulus arvensis</i> , <i>Cyperus iria</i> , <i>Portulaca oleracea</i> .	500.30 kg	3.44	400	-
Sugarcane	<i>Cyperus iria</i> <i>Digitaria sp.</i> <i>Dactylactenium aegyptium</i> <i>Digera arvensis</i> <i>Portulaca oleracea</i> <i>Commelina benghalensis</i> <i>Convolvulus arvensis</i>	3.5	6.3	500	-
Aquatic Weeds Non crop area	<i>Eichhornia crassipes</i> .	0.5-1.0 kg	0.86-1.72	600-700	15-20
	<i>Parthenium hysterophorus</i> ,	500.30 kg	4.56	300-400	15-20
	<i>Cyperus rotundus</i>	2.5 kg	4.30	300-400	-
2,4-D Sodium salt Technical (having 2,4-D acid 80 % w/w) (Earlier Registered as 80%WP)					
Citrus	<i>Euphorbia spp.</i> <i>Convolvulus arvensis</i> <i>Coronopus didymus</i> <i>Amaranthus viridis</i> <i>Oxalis corniculata</i> <i>Tribulus terrestris</i> <i>Fumaria parviflora</i> <i>Sonchus arvensis</i>	1.00-2.5 kg	1.25-3.2 kg	600	>6 months
Grapes	<i>Convolvulus spp.</i> <i>Tridax procumbens</i>	2.0	2.5	500	> 90 days
Maize	<i>Amaranthus viridis</i> , <i>Trianthema portulacastrum</i> <i>Phyllanthus niruri</i> , <i>Euphorbia geniculata</i> ,	500.30 Kg.	1.25	500	120(Pre-em) 90(post-em)

	<i>Amaranthus spinosus</i> , <i>Cleome chelidonii</i> , <i>Lagasca mollis</i>				
Sugarcane	<i>Boerhaavia diffusa</i> <i>Chenopodium album</i> <i>Tribulus terrestris</i> <i>Portulaca oleracea</i> <i>Xanthium spp.</i> <i>Convolvulus arvensis</i> <i>Amaranthus spinosus</i> <i>Digera arvensis</i> <i>Celosia argentina.</i>	2.0-2.6	2.5-3.25	600-900	300
Wheat	<i>Leucas aspera</i> , <i>Chenopodium album</i> , <i>Vicia sativa</i> , <i>Argemone maxicana</i> , <i>Fimbristylis miliacea</i> , <i>Anagalis arvensis</i> , <i>Amaranthus spinosus</i> .	0.5-0.84 kg.	0.625-1.0	500	90
Aquatic Weeds	<i>Boerhaavia hispada</i> , <i>Eichhornia crassipes.</i>	1.5 kg	1.85.	600-1000	-
Non crop land	<i>Parthenium hysterophorus</i> , <i>Cyperus rotundus</i> ,	2.5-6.0 kg.	3.2-7.5	600-1000	-
	<i>Solanum elaeagnifolium.</i>	4-8 Kg	5-10	500-600	-
		1.8 kg	2.25	500-600	-
2,4-D Ethyl Ester 38 % EC (having 2,4-D acid 34 % w/w)					
Maize	<i>Trianthema monogyna</i> , <i>Amaranthus sp.</i> , <i>Portulaca oleracea.</i> , <i>Tribulus terrestris</i> , <i>Boerhaavia diffusa</i> , <i>Euphorbia hirta</i> , <i>Cyperus sp.</i>	0.9 kg	2.65 ltr	400-450	50-60
Sorghum	<i>Cyperus iria</i> , <i>Striga sp.</i> <i>Digera arvensis</i> , <i>Convolvulus arvensis</i> , <i>Trianthema sp.</i> , <i>Tridax procumbens</i> , <i>Euphorbia hirta</i> , <i>Phyllanthus niruri.</i>	500.30 kg	2.94	425	-
Transplanted Paddy	<i>Echinochloa colonum</i> , <i>Echinochloa crusgalli.</i>	0.85 kg	2.5	400	-
Wheat	<i>Chenopodium album</i> , <i>Asphodelus tenuifolius</i> ,	0.45-0.75 kg	1.32-2.2	450-500	-

	<i>Fumaria parviflora</i> <i>Melilotus alba.</i> <i>Spergula arvensis</i>				
Sugarcane	<i>Cyperus iria,</i> <i>Digitaria sp.,</i> <i>Dactyloctenium,</i> <i>Aegyptiana,</i> <i>Digera arevensis,</i> <i>Portuluca oleeracea,</i> <i>Commelina benghalensis,</i> <i>amaranthus sp.,</i> <i>Convolvulus arvensis</i>	1.2 to 1.8	3.53- 5.29	500	300-330
Aquatic Weeds	<i>Eichhornia crassipes</i>	2.5 kg	7.5	700-1000	-
2,4-D Ethyl Ester 20 % WP					
Maize	<i>Trianthema sp.</i> <i>Euphorbia hirta</i> <i>Cyperus sp.</i>	0.9	5.0	625	-
Sorghum	<i>Convolvullas arvensis</i>				
Wheat	<i>Chenopodium slbum</i> <i>Malilots alba</i>				
Paddy	<i>Echinochloa colonum</i> <i>Echinochloa crusgalli</i>				
2,4-D Ethyl Ester 4.5 % GR (having 2,4-D acid 4 % w/w)					
Transplanted Rice	<i>Echinochloa Coloum</i> <i>E. Crusgalli</i> <i>Panium ischaemum</i> <i>Cynodon dactylon</i> <i>(germinating)</i> <i>Cyperus rotundus</i> <i>(germinating)</i> <i>Cyperus iria</i> <i>C. difformis</i> <i>Ludwigia parviflora</i> <i>Monochoria Vaginalis</i> <i>Marsilea quadrifoliata</i> <i>Cyanotis cucutata</i> <i>Eclipta alba</i> <i>Ammania baccifera</i>	500.30 kg	25 kg	-	-
Diclofop Methyl 28% EC					
Wheat	<i>Avena fatua,</i> <i>Phalaris minor</i>	0.7-1.0 kg	2.5-3.5 ltr	500	90

Diuron 80% WP					
Cotton	<i>Amaranthus spp,</i> <i>Chenopodium album,</i> <i>Convolvulus arvensis</i> <i>Setaria glauca,</i> <i>Digitaria sp,</i> <i>Portulaca oleracea,</i> <i>Xanthium strumerium,</i> <i>Anagallis arvensis,</i> <i>Asphodelus temifolius,</i> <i>Euphorbia sp,</i> <i>Visia sativa</i> <i>Paspalum conjugatum,</i>	0.75-1.5 kg	1-2.2Kg.	625	-
Banana	<i>Cyperus iria,</i> <i>Commelina benghalensis,</i> <i>Digitaria sp,</i> <i>Amaranthus</i> <i>spp,</i> <i>Dactyloctenium,</i> <i>Chloris barbata,</i> <i>Eragrostis zeylenica,</i>	1.60 kg	2 kg.	625	-
Rubber	<i>Grasses & Non grasses</i>	1.6-3.2 kg	2-4kg.	625	-
Maize	<i>Cyperus iria,</i> <i>Echinochloa spp,</i> <i>Digitaria spp,</i> <i>Chenopodium album,</i> <i>Eleusine sp,</i> <i>Amaranthus sp,</i> <i>Phyllanthus niruri</i>	0.8 kg	500.30 kg.	600	-
Citrus (sweet orange)	<i>Cyperus iria,</i> <i>Tribulus Terristris,</i> <i>Digera arvensis,</i> <i>Commelina nudiflora,</i> <i>Cocumis trigonus.</i>	2-4.0kg	2.5-5.0kg	600	-
Sugarcane	<i>Cyperus iria,</i> <i>Portulaca racea,</i> <i>Echinochloa ruscgalli,</i> <i>Cynotis spp,</i> <i>Amaranthus spp,</i> <i>Convonvulus Spp.,</i> <i>Digitaria spp.</i>	1.6-3.2kg	2.0-4.0 kg.	600	-
Grapes	<i>Cleome viscoze,</i> <i>Chenopodium album.</i> <i>Cyperus iria,</i> <i>Euphorbia hirta,</i> <i>Alternanthera echinata,</i> <i>Amaranthus spp,</i> <i>Argemone maxicana,</i>	1.6kg	2.0 kg.	625	-

	<i>Ipomoea spp,</i> <i>Xanthium strumerium,</i> <i>Fumeria parviflora,</i> <i>Asphodelus tenuifolius,</i> <i>Medicago enticulate,</i> <i>Eleusine aegyptia.</i>				
Diclosulam 84% WDG					
Soybean	<i>Cyperus spp,</i> <i>Commilena benghalensis,</i> <i>Euphorbia geniculata,</i> <i>Digera arvensis,</i> <i>Acylipha spp,</i> <i>Echinochlo colona</i>	22-26gm	26.2-30.9 Time of application 0-3 DAS	500	60
Groundnut	<i>Amaranllhus viridis,</i> <i>Parthenium hysterothorus,</i> <i>Trianthema sp.,</i> <i>Euphorbia enticulat,</i> <i>Cyperus spp.,</i> <i>Echinochloa colona</i>	22-26	26.2-30.9	-	77
Ethoxysulfuron 15% WDG					
Transplanted Rice	<i>Fimbristylis miliacea</i> <i>Cyperus iria ,</i> <i>Cyperus difformis,</i> <i>Scirpus sp.,</i> <i>Eclypta alba,</i> <i>Marsilea quadrifoliata,</i> <i>Ammania baccifera,</i> <i>Monochoria vaginallis</i>	12.5-15gm	83.3- 100gm	500	110
Fenoxaprop-p-ethyl 9% w/w DF					
Transplanted Paddy	<i>Echinocloa crusgalli</i> (barnyard grass), <i>Echinocloa colona</i> (jungle rice)	56.25	625	500	65
Fenoxaprop-p-ethyl 9.3% w/w EC (9% w/v)					

Soybean	<i>Echinochloa colonum</i> , <i>Echinochloa crusgalli</i> , <i>Digitaria sp.</i> , <i>Eleusine indica</i> , <i>Setaria sp.</i> , <i>Brachiaria sp.</i>	100gm.	1111 ml. (15-20 DAS)	250-300	100
Rice (enticulate)	<i>Echinochloa crusgalli</i> , <i>Echinochloa colona</i>	56.25 gm	625 ml. (10-15 DAT)	300-375	70
Blackgram	<i>Echinochloa crusgalli</i> , <i>Echinochloa colona</i> <i>Digitaria sp.</i> <i>Dactyloctenium</i> <i>Aegyptium</i>	56.25-67.5 g	625-750ml. (15-20 DAS)	375-500	43
Cotton	<i>Echinochloa sp.</i> <i>Eleusine indica</i> <i>Dactyloctenium</i> <i>Aegyptium</i> <i>Eragrostis minor</i>	67.5 g	750ml. (20 -25 DAS)	375-500	87
Onion	<i>Echinochloa colonum</i> <i>Dactyloctenium aegyptium</i>	78.75	875	375	10
Groundnut	<i>Echinochloa sp.</i>	78.75	875	375	89
Fenoxaprop-p-ethyl 10% EC					
Wheat	<i>Phalaris minor</i>	100-120gm	1.0-1.20 kg	250-300	110
Fenoxaprop-p-ethyl 6.7% w/w EC					
Rice (Transplanted & Direct Seeded)	<i>Echinochloa sp.</i>	56.6-60.38g	812.5-875	375-500	61
Fluazifop-p-butyl 13.4% EC					
Soybean	<i>Echinochloa colonum</i> , <i>Echinolchloa crusgalli</i> , <i>Eleusine indica</i> , <i>Cyanodon dactylon</i> , <i>Dactyloctenium Aegyptium</i> , <i>Digitaria sp.</i> , <i>Setaria sp.</i>	125-250 g	1000-2000	500	90

Cotton	<i>Echinochloa colonum</i> , <i>Digitaria longiflora</i> , <i>Eleusine indica</i> , <i>Dactylactenium</i> <i>aegypticum</i> , <i>Bracharia</i> <i>reptans</i> , <i>Dinebra Arabica</i> <i>spp.</i>				
Groundnut	<i>Echinochloa colonum</i> , <i>Digitaria longiflora</i> , <i>Eleusine indica</i> , <i>Dactylactenium</i> <i>aegypticum</i> , <i>Bracharia</i> <i>reptans</i> , <i>Chloris barbata</i> , <i>Aeluropus villosus</i> , <i>Indigofera glandulosa</i>				
Flucetosulfuron 10% WG					
Rice (Transplanted)	<i>Echinochloa colonum</i> <i>Echinolchloa crusgalli</i> <i>Digitaria sanguinalis</i> <i>Paspalum discichum</i> <i>Paspalum scrobitulatum</i> <i>Leersia hexandra</i> <i>Panicum repens</i> <i>Setaria glauca</i> <i>Dinebra retroflexa</i> <i>Cyprus difformis</i> <i>Cyprus iria</i> <i>Fimbristylis miliaceae</i> <i>Alternanthera</i> <i>philoxeroides</i> <i>Alternanthera enticul</i> <i>Marsilea quadrifolia</i> <i>Ammania baccifera</i> <i>Eclipta alba</i> <i>Eclipta prostrate</i> <i>Monochoria vaginalis</i> <i>Lindernia ciliate</i> <i>Ludwigia parviflora</i> <i>Sphenoclea zeylanica</i> <i>Commelina diffusa</i> <i>Cyanotis axillaris</i>	25	250	500	90
Fluchloralin 45% EC					

Cotton	<i>Acanthospermum hispidum</i> , <i>Cleome enticu</i> , <i>Datura sp.</i> <i>Trianthema monogyna</i> <i>Tridax procumbens</i> , <i>Cynodon dactylon</i> (germinating) <i>Amaranthus spp.</i> , <i>Portulaca spp</i> , <i>Achyranthus aspera</i> , <i>Euphorbia hirta</i> , <i>Cenchrus catharticus</i> , <i>Digitaria sanguinalis</i> , <i>Eleusine sp</i> , <i>Panicum sp</i> , <i>Lagasca mollis</i> , <i>Gynandropsis pentaphylla</i> , <i>Achalypha indica</i>	0.9-1.2kg	2.0-2.68 ltrs.	500-800	180
Soybean	<i>Eragrostis sp.</i> , <i>Boerhaavia hispida</i> , <i>Cyperus compestris</i> ,	1.0-1.5kg.	2.22-3.33	500-800	120-150
Flufenacet 60% DF					
Paddy (Transplanted)	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> <i>Cyperus iria</i>	120 gm	200 gm	500	90-110
Flumioxazin 50% SC					
Soybean	<i>Commelina benghalensis</i> , <i>Digera arvensis</i> , <i>Euphorbia spp.</i> , <i>Phyllanthus niruri</i> , <i>Echinochloa crusgalli</i>	125 g.a.i/ha	250ml/ha	500	110
Wheat	<i>Runnax spp.</i> , <i>Medicago denticulate</i> , <i>Coronopus didymus</i> , <i>Chenopodium album</i> , <i>Phalaris minor</i> , <i>Avena fatua</i>	125 g.a.i/ha	250 ml/ha	500	137
Fluroxypyr meptyl 48% W/v (45.5% w/w) EC					

Onion	<i>Amaranthus viridis</i> <i>Anagalis arvensis</i> <i>Chenopodium album</i> <i>Euphorbia spp.</i> <i>Parthenium hysterophorus</i> <i>Physalis minima</i> <i>Trianthema spp.</i>	324 to 360	675 to 750 ml/ha		71 days
Fluthiacet Methyl 10.3% EC					
Soybean	<i>Commelina sp.</i> , <i>Digeru arvensis</i> , <i>Acalypha indica</i> , <i>Amaranlhus viridis</i> .	13.6	125	500	73
Glufosinate Ammonium 13.5% SL (15% w/v)					
Tea	<i>Panicum repens</i> , <i>Borreria hispida</i> , <i>Imperata cylindrical</i> , <i>Digitaria sanguinalis</i> , <i>Commelina benghalensis</i> , <i>Ageratum conyzoides</i> , <i>Eleusine indica</i> , <i>Paspalum conjugatum</i>	375-500 gm	2.5-3.3	375-500	15
Cotton	<i>Echinochloa sp.</i> <i>Cynodon dactylon</i> <i>Cyperus rotundus</i> <i>Digitaria marginata</i> <i>Dactyloctenium</i> <i>aegyptium</i>	375-450 gm	2.5-3.0	500	96
Glyphosate 20.2% SL IPA salt					
Non Crop area	<i>Phyllanthus niruri</i> , <i>Ageratum conyzoides</i> , <i>Parthenium hysterophorus</i> , <i>Sorghum halepense</i> , <i>Amaranthus spinosus</i> , <i>Alternanthera enticul</i> , <i>Cynodon dactylon</i> , <i>Cyperus rotundus</i> , <i>Echinochloa colonum</i> , <i>Trianthema portalucastrum</i>	0.82-1.23 kg	4.1-6.15	400-500	N/A
Glyphosate Ammonium salt 20 % SL					

Non Crop area	<i>Cynodon dactylon</i> <i>Commelina benghalensis</i> <i>Panicum spp.</i> <i>Dactyloctenium aegyptium</i> <i>Eragrostis major</i> <i>Poa annua</i> <i>Cyperus rotundus</i> <i>Parthenium</i> <i>hysterophorous</i> <i>Acalypha indica</i> <i>Digeria arvensis</i> <i>Phyllanthus niruri</i> <i>Euphorbia enticulat</i> <i>Corchorus actangularis</i> <i>Saccharum spontenium</i> <i>Eleusine indica</i> <i>Imperata cylindrical</i> <i>Ageratum conyzoides</i>	4.52-6.79g a.i./litre	20-30ml/lit	300-600	-
Glyphosate 41% SL IPA Salt					
Tea	<i>Arundinella bengalensis</i> <i>Axonopus compressus</i> <i>Cynodon dactylon</i> <i>Imperata cylindrical</i> <i>Kalm grass</i> <i>Paspalum scrobiculatum</i> <i>Polygonum perfoliatum</i>	0.820- 1.230kg.	2.0-3.0	450	21
Non-cropped area	Sorghum helepense and other dicot & monocot weeds in general	0.820- 1.230kg.	2.0-3.0	500	-
Glyphosate 54% SL (IPA Salt)					
Non Crop Area	<i>Ageratum conyzoides</i> <i>Alternanthera enticul</i> <i>Commilina spp</i> <i>Cyperus spp</i> <i>Echinochloa sp.</i> <i>Eclipta alba</i> <i>Ischaemum rogosum</i> <i>Setaria spp</i>	1.8 kg	3.33 ltrs.	400-500	-
Glyphosate Ammonium Salt 5% SL					

Tea	<i>Ageratum conyzoides</i> <i>Biden pilosa</i> <i>Boreria latifolia</i> <i>Cynodon dactylon</i> <i>Cyperus rotundus</i> <i>Digitaria sanguinalis</i> <i>Euphorbia spp.</i> <i>Imperata cylindrica</i> <i>Paspalum conjugatum</i>	1.5 kg.	30 ltrs.	500	7 days
Non Crop area	<i>Cynodon dactylon</i> <i>Cyprus rotundus</i> <i>Digera arvensis</i> <i>Digitaria sanguinalis</i> <i>Eragrostis minor</i> <i>Euphorbia spp.</i> <i>Parthenium hysterophorus</i> <i>Tribulus terrestris</i> <i>Xanthium stremerium</i>	2 kg.	40 ltrs.	500	-
Glyphosate 71% SG (Ammonium Salt)					
Tea & Non Crop area	<i>Acalypha indica</i> <i>Ageratum conyzoides</i> <i>Cychorium intybus Digera arvensis</i> <i>Cynondon dactylon</i> <i>Cyperus rotundus</i> <i>Digitaria sanguinalis</i> <i>Eragrostis spp.</i> <i>Ipomea digitarea</i> <i>Paspalum conjugatum</i> <i>Sida aculata</i>	2.13 kg	3.0 kg.	500	7
Halosulfuron Methyl 75% WG					
Sugarcane	<i>Cyperus rotundus</i>	60-67.5	80-90	375	294
Maize	<i>Cyperus rotundus</i> <i>Cyperus iria</i>	67.5	90	375	45
Bottle gourd	<i>Cyperus rotundus</i> <i>Cyperus iria</i>	67.5	90	375	46
Haloxypop R Methyl 10.5% w/w EC					
Soybean	<i>Brachiaria sp.</i> <i>Digitaria sanguinalis</i> <i>Dinebra enticu</i> <i>Echinochloa sp.</i>	108-135	1000-1250	500	60

	<i>Eleusine indica</i> <i>Eragrostis sp.</i> <i>Panicum isochmi</i>				
Imazethapyr 10% SL					
Soybean	<i>Cyperus difformis</i> <i>Echinochloa colonum</i> <i>E. crusgalli</i> <i>Euphorbia hirta</i> <i>Croton sperrisfeorus</i> , <i>Digera arvensis</i> , <i>Commelina</i> <i>Benghalensis</i>	100 gm	1.0 Ltr.	500-600	75
Groundnut	<i>Cyperus difformis</i> <i>Commelina</i> <i>benghalensis</i> , <i>Trianthema</i> <i>portulacasturm</i> , <i>Eragrostis pilosa</i>	100-150 gm	1.0-1.5 ltrs.	500-700	90
Imazethapyr 10% SL + Surfactant					
Soybean (1-2 Leaf stage of weeds or 7-14 days after sowing)	<i>Echinochloa colonum</i> <i>Brachiaria mutica</i> , <i>Euphorbia hirta</i> <i>Commelina benghalensis</i> <i>Dinebra enticu</i> , <i>Digitaria spp.</i> ,	75-100gm+ MSO adjuvant @ 2ml/l of water	750-1000 ml+ MSO adjuvant @ 2ml/l of water	375	72
Groundnut (1-2 Leaf stage of weeds or 7-14 days after sowing)	<i>Echinochloa colonum</i> <i>Euphorbia hirta</i> <i>Commelina benghalensis</i> <i>Digera arvensis</i> , <i>Amaranthus viridis</i> , <i>Physalis minima</i> .	100-150 gm+ MSO adjuvant @ 2ml/l of water	1000-1500 ml+ MSO adjuvant @ 2ml/l of water	375	102
Black gram	<i>Brachiaria eruciformis</i> <i>Amaranthus viridis</i> <i>Euphorbia hirta</i> <i>Commelina benghalensis</i>	75 ga.i.lha+ MSO adjuvant @2 ml/litre of water	750 ml+MSO adjuvant @ 2ml/ha of water.	375	56
Green gram	<i>Amaranthus viridis</i> <i>Trianthema portulacastrum</i> <i>Euphorbia hirta</i>	75 ga.i.lha+ MSO adjuvant @2 ml/litre of water	750 ml+MSO adjuvant @ 2ml/ha of water.	375	46

Red gram	<i>Digitaria sanguinalis</i> <i>Dinemia retroflexa</i>	75 ga.i.lha+ MSO adjuvant @2 ml/litre of water	750 ml+MSO adjuvant @ 2ml/ha of water.	375	125
Imazethapyr 70% WG + Surfactant					
Soybean (2-3 leaf stage of weeds)	<i>Cyperus rotundus</i> <i>Echinochloa spp.</i> <i>Dinemia enticu</i> <i>Digera spp.</i> , <i>Brachiaria mutica</i> , <i>Commelina benghalensis</i> <i>Commelina communis</i> <i>Euphorbia enticulat</i> <i>Cyanotis axillaris</i>	70 g/ha + Surfactant (Cyspread) @ 1.5ml/Litre + Ammonium Sulphate @ 2 g/lit of Water	100 g/ha + Surfactant (Cyspread) @ 1.5ml/Litre+ Ammonium Sulphate @ 2 g/lit of Water	500	56
Isoproturon 50% WP					
Wheat	<i>Phalaris minor</i> <i>Avena fatua</i> <i>Poa annua</i>	1.0kg	2.0	750	-
Isoproturon 75% WP					
Wheat	<i>Phalaris minor</i> <i>Avena fatua</i> <i>Poa annua</i>	1.0kg	1.33 kg.	750	60 days
MCPA, Amine salt 40% WSC					
Transplanted Rice	<i>Cyperus rotundus</i> <i>Imperata reptans</i> <i>Ammania baccifera</i> <i>Lippia nodiflora</i> <i>Alternanthera sp.</i> <i>Ludwigia parviflora</i> <i>Marsilea quadrifoliata</i>	0.8-2.0 kg	2-5	400-600	

Wheat	<i>Chenopodium album</i> , <i>Asphodelus tenuifolius</i> <i>Fumaria parviflora</i> <i>Carthamus oxyacantha</i> <i>Launea sp.</i> , <i>Pluchia lanceolata</i> , <i>Melilotus indica</i> , <i>Vicia enticu</i> , <i>Lathyrus aphaca</i> , <i>Medicago enticulate</i> , <i>M. lupulina</i> , <i>Spergula arvensis</i> , <i>Argemone maxicana</i> , <i>Phyllathus niruri</i> .	1.0 kg	2.5	300-600	
Metamifop 10% EC					
Direct seeded Rice	<i>Barnyard grass</i> (<i>Echinochloa spp</i>), <i>Sacchialepis</i> <i>Dactyloctenium</i> , <i>Digiteria, panicum</i>	100 g.a.i	1000 ml	350	87
Metamitron 70% SC					
Sugarbeet	<u>Sedges & Grasses</u> <i>Cynodon dactylon</i> <i>Cyperus rotundus</i> <i>Dactyloctenium aegyptium</i> <u>Broad Leaves</u> <i>Convolvulus arvensis</i> <i>Chenopodium album</i> <i>Parthenium hysterophorus</i> <i>Digera arvensis</i>	a) 2-3 leaf stage of weed – 0.7 kg a.i/ha, b) 4-6 leaf stage of weed – 1.4 kg a.i/ha, c) 8-10 leaf stage of weed – 1.4 kg a.i/ha	a)2-3 leaf stage of weed – 1kg/ha, b) 4-6 leaf stage of weed – 2 kg/ha, c) 8-10 leaf stage of weed – 2 kg/ha	500	90
Methabenzthiazuron 70% WP					
Wheat (PE –2DAS)	<i>Phalaris minor</i> , <i>Avena fatua</i> , <i>Avena ludoviciana</i> , <i>Poa annua</i> ,	1.05-1.4kg	1.5-2.0 kg.	700-1000	100
Wheat (Post –EM 30 DAS)	<i>Polypogon monspiliensis</i> , <i>Anagallis arvensis</i> , <i>Chenopodium album</i>	1.05-1.75kg	2.0-2.5 kg.	700-1000	100

Wheat (Early POE.16-18 DAS)	<i>Phalaris minor</i> , <i>Avena fatua</i> , <i>Avena ludoviciana</i> , <i>Chenopodium album</i>	0.7-0.87 kg	1.0-1.25 kg.	700-1000	100
Metolachlor 50% EC					
Soybean	<i>Echinochloa colonum</i> <i>Eleusine indica</i> <i>Digitaria sp.</i> <i>Dactyloctenium aegyptium</i> <i>Panicum sp.</i> <i>Cyperus sp.</i> <i>Amaranthus viridis</i>	1.0 kg	2.0 ltrs.	600-750	-
Metribuzin 70% WP					
Soybean	<i>Digitaria spp.</i> <i>Cyperus esculentus</i> <i>Cyperus campestris</i> <i>Borreria spp.</i> <i>Eragrostis spp.</i>	0.35-0.525 kg	0.5-0.75kg.	750-1000	30
Wheat	<i>Phalaris minor</i> <i>Chenopodium album</i> <i>Melilotus spp.</i>	Medium soil-0.175kg Heavy soil - 0.21kg	0.25 kg 0.30 kg.	500-750	120
Sugarcane	<i>Cyperus rotundus</i> , <i>Cynodon dactylon</i> , <i>Astodelus fistulosis</i> , <i>Chenopodium album</i> , <i>Convolvulus arvensis</i> , <i>Portulaca oleracea</i> , <i>Anabalis servensis</i> , <i>C.intybus</i> , <i>Echinochloa</i> <i>colonum</i> , <i>Dactyloctenium</i> <i>aegyptium</i> , <i>Parthenium</i> <i>hysterophorus</i> , <i>Commelina</i> <i>spp.</i>	Post- emergence, 25-30 DAP Or Pre- emergence At first workable spray condition or 3-5 DAP	1.05-1.4 1.05-2	1.5-2 1.5-3	60
Potato	<i>Chenopodium album</i> , <i>Trianthema monogyna</i> , <i>Parthenium hysterophorus</i> , <i>Funaria parviflora</i> , <i>Melilotus spp.</i> , <i>Phalaris</i> <i>minor</i>	Pre- emergence 3-4 DAP or Post- emergence between emergence	0.525	0.750	30

		and time when the first potato plants have reached height of 5 cms.			
Tomato	<i>Trianthema portacastrum</i> , <i>Dactylectonium aegypticum</i> , <i>Gynandropsis pentaphylla</i> , <i>Amaranthus viridis</i> , <i>Portulaca oleracea</i> , <i>Digera arvensis</i> , <i>Euphorbia fruticosa</i> , <i>Echinochloa colonum</i> , <i>Conyzoideae</i> , <i>Eleusine indica</i> , <i>S. glauca</i> , <i>Comelina bengalensis</i>	Pre-planting a week before transplanting Or Post planting 15 DAT	0.525	0.760	30
Metsulfuron Methyl 20% WP					
Wheat	<i>Chenopodium album</i> , <i>Melilotus indica</i> , <i>Lathyrus aphaca</i> , <i>Anagallis arvensis</i> , <i>Vicia sativa</i> , <i>Cirsium arvense</i> .	4 gm	20 gm	500-600 + Surfactant (Iso-Octyl Phenoxy-Poloxethanol 12.5%)@ 500 ml/ha	80
Rice (transplanted)	<i>Cyperus rotundus</i> , <i>Spheanochlea spp.</i> , <i>Fimbristylis sp.</i> <i>Ludwigia parviflora</i> <i>Marsilea quadrifoliata</i>	4 gm.	20 gm.	500-600	60
Sugarcane	<i>Cyperus esculentus</i> , <i>Amaranthus viridis</i> , <i>Portulaca oleracea</i> , <i>Parthenium hysterophorus</i> , <i>Trianthema sp.</i> , <i>Cleome viscosa</i> , <i>Solanum sp.</i> , <i>Commelina benghalensis</i> , <i>Euphorbia sp.</i> , <i>Digera sp.</i>	6	30	500-600 (Add non-ionic surfactant Iso-octyl-phenoxy-poloxethanol 12.5% @ 2ml per liter of spray volume (0.2%))	346
Metsulfuron Methyl 20% WG					

Wheat	<i>Chenopodium album</i> <i>Melilotus indioca</i> <i>Melilotus alba</i> <i>Lathyrus aphaca</i> <i>Anagalis arvensis</i> <i>Vicia sativa</i> <i>Rumex denticulate</i> <i>Convolvulus arvensis</i> <i>Meedicago denticulate</i>	4 gm.	20 gm.	500-600 + Surfactant (Iso-Octyl Phenoxy- Poloxetha nol 12.5%) @0.2%	76
Transplanted Rice	<i>Monochoria vaginalis</i> <i>Ludwigia parviflora</i> <i>Ludwigia adscendens</i> <i>Marselea quadrifoliata</i> <i>Eclipta alba</i> <i>Oxalis minima</i> <i>Dapatorium juncum</i> <i>Commelina benghalensis</i> <i>Ammania baccifera</i> <i>Sphenoclea zeylanica</i> <i>Caesulia axillaries.</i>	4 gm	20 gm.	500-600 + Surfactant (Iso-Octyl Phenoxy- Poloxetha nol 12.5%) @0.2%	71
Orthosulfamuron 50% WG					
Transplanted Rice (Paddy)	<i>Echinochloa spp.</i> (Barnyard grass) <i>Cyperus spp.</i> (Nut grass) <i>Scirpus spp.</i> <i>Ludwigia parviflora</i> (water crest) <i>Fimbristylis spp.</i> (Hoor grass) <i>Rotala spp.</i>	60-75	150 3 DAT	500	65
Oxadiargyl 80% WP					
Transplanted Rice	<i>Echinochloa crusgalli</i> <i>E. Colonum</i> , <i>Cyperus iria</i> , <i>C. difformis</i> , <i>Eclipta alba</i> , <i>Ludwigia quadrifoliata</i>	100	125	500	97
Sunflower	<i>Echinochloa colonum</i> <i>Dactyloctenium aegyptium</i>	240	300	500	81
Oxadiargyl 6%EC					
Transplanted Rice	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> ,	100gm	1.66 ltrs	500	97

Cumin	<i>Cyperus iria</i> , <i>Cyperus difformis</i> , <i>Eclipta alba</i> <i>Ludwigia quadrifoliata</i> <i>Chenopodium album</i> <i>Remex sp.</i> , <i>Melilotus indica</i> , <i>Asphodelus tenuifolius</i>	60-75gm	1.0-1.25 ltrs.	500	87
Mustard	<i>Chenopodium album</i> , <i>Melilotus sp</i>	90	1500	500	35
Oxadiazon 25% EC					
Transplanted Rice	<i>Echinochloa crusgalli</i> E. <i>colonum</i> <i>Cyperus iria</i> C. <i>difformis</i> <i>Marsilea</i> <i>quadrifoliata</i> , <i>Eclipta alba</i> , <i>Ludwigia sp.</i>	0.5kg	2.0 ltrs.	500	-
Oxyflourfen 0.35% GR					
Rice (Direct sown puddled or Transplanted)	<i>Echinochloa sp.</i> <i>Cyperus difformis</i> <i>Cyperus iria</i> <i>Eclipta alba</i> <i>Ludwigia parviflora</i> <i>Fimbristylis miliacia</i> , <i>Marsilea spp</i>	100-150 gm	30-40 kg.	-	-
Oxyflourfen 23.5% EC					
Rice (Direct sown as pre-emergence)	<i>Echinochloa sp.</i> <i>Cyperus iria</i> , <i>Eclipta alba</i> ,	150-240 gm	650-1000	500	-
Tea	<i>Digitaria</i> , <i>Imperata</i> , <i>Paspalum</i> , <i>Borreria hispida</i> ,	150-250 gm	650-1000	500-750	15 days
Onion	<i>Chenopodium album</i> , <i>Amaranthus viridis</i> ,	100-200 gm	425-850	500-750	-
Potato	<i>Chenopodium</i> , <i>Coronpus Trianthema</i> , <i>Cyperus</i> , <i>Heliotropium</i>	100-200 gm	425-850	500-750	-
Groundnut	<i>Echinochloa colonum</i> <i>Digitaria arginata</i>	100-200 gm	425-850	500-750	-
Mentha	<i>Echinochloa colona</i> , <i>Cyperus spp.</i> ,	206	904.3	500	10

	<i>Solanum nigrum</i> , <i>Amaranthus viridis</i> , <i>Sphenochlea sp.</i> , <i>Anagallis arvensis</i> , <i>Chenopodium album</i> , <i>Commelina benghalensis</i> , <i>Digitaria sanguinalis</i> , <i>Eclipta alba</i> , <i>Euphorbia spp.</i> , <i>Ludwigia parviflora</i> , <i>Portulaca spp.</i>				
Pendimethalin 30% EC					
Wheat	<i>Phalaris minor</i> , <i>Chenopodium album</i> , <i>Melilotus alba</i> , <i>Portulaca oleracea</i> , <i>Anagallis arvensis</i> , <i>Fumaria parviflora</i> , <i>Poa annua</i>	Light soil- 1.0 kg, Medium soil-1.25 kg, Heavy soil- 1.5 kg	3.3 ltr. 4.2 5.0	500-700 500-700 500-700	-
Rice (Transplanted &direct sown Upland)	<i>Echinochloa colona</i> , <i>E. crusgalli</i> , <i>Fimbristylis miliacea</i> , <i>Marselia quadrifoliata</i> , <i>Alternanthera sessilis</i> , <i>Ammonia baccifera</i> , <i>Ludwigia parviflora</i> , <i>Eclipta alba</i> , <i>Cyperus difformis</i>	Light to Heavy soil 1-1.5kg	3.3 –5 Ltrs.	500-700	
Cotton	<i>Echinochloa spp.</i> <i>Euphorbia hirta</i> <i>Amaranthus</i> <i>viridis</i> <i>Portulaca</i> <i>oleracea</i> <i>Trianthema spp.</i> <i>Eleusine indica</i>	0.75-1.25kg	2.5-4.165 ltrs	500-700	150
Soybean	<i>Echinochloa spp.</i> , <i>Euphorbia spp.</i> , <i>Amaranthus viridis</i> , <i>Portulaca oleracea</i> , <i>Trianthema spp.</i> , <i>Eleusine indica</i>	0.75-1.0kg	2.5-3.3 ltrs.	500-700	110
Pigeon pea	<i>Digitaria sanguinalis</i> <i>Digera arvensis</i> <i>Amaranthus sp.</i> <i>Euphorbia hirta</i> <i>Trianthema sp.</i> <i>Cyperus sp.</i> <i>Eragrostis sp.</i>	0.7 – 1.00	2.5 – 3.33	500	133

Pendimethalin 5 % G					
Rice (Transplanted & Direct sown puddled)	<i>Echinochloa colona</i> , <i>E. crusgalli</i> , <i>Fimbristylis miliacea</i> , <i>Marselia quadrifoliata</i> , <i>Alternanthera sessilis</i> , <i>Ammonia baccifera</i> , <i>Ludwigia parviflora</i> , <i>Eclipta alba</i> , <i>Cyperus difformis</i>	1.0-1.5 kg	20-30 kg	-	-
Pendimethalin 38.7% CS					
Soybean	<i>Echinochloa colonum</i> <i>Dinebra arabiaca</i> <i>Digitaria sanguinalis</i> <i>Bracharia mutica</i> <i>Dactyloctenium aegyptium</i> <i>Portulaca oleracea</i> <i>Amaranthus viridis</i> <i>Euphorbia geniculata</i> <i>Cleome viscosa</i>	580.5-677.25gm	1500-1750	500	40
Cotton	<i>Digitaria sanguinalis</i> , <i>Echinochloa colonum</i> , <i>Dinebra arabiaca</i> , <i>Brachiaria mutica</i> , <i>Eragratis minor</i> , <i>Portulaca oleracea</i> , <i>Commelina communis</i> , <i>Amaranthus spp.</i> , <i>Parthenium hysterophorus</i>	580.5-677.25gm	1500-1750	500	101
Chilli	<i>Echinochloa colonum</i> , <i>Dinebra arabiaca</i> , <i>Brachiaria mutica</i> , <i>Amaranthus spp.</i> , <i>Portulaca oleracea</i> , <i>Commelina spp.</i> , <i>Parthenium hysterophorus</i> , <i>Digera arvensis</i> , <i>Physelis minima</i>	580.5-677.25gm	1500-1750	500	98

Onion		<i>Dactyloctenium aegyptium</i> <i>Digitaria sanguinalis</i> , <i>Echinochloa</i> sp., <i>Dinebra</i> Arabic, <i>Portulaca oleracea</i> , <i>Euphorbia geniculata</i> , <i>Commelina</i> sp., <i>Digera arvensis</i> , <i>Amaranthus viridis</i> , <i>Trianthemum portulacastrum</i>	580.50-677.25gm	1500-1750	500	104
Groundnut		<i>Echinochloa colonum</i> , <i>Digitaria marginata</i> , <i>Commelina bengalensis</i> , <i>Portulaca oleracea</i>	580.5-677.25gm	1500-1750	375	103
Mustard		<i>Chenopodium album</i> , <i>Digera arvensis</i> , <i>Amaranthus species</i>	338.625 gm	875	375-400	111
Cumin		<i>Portulaca oleracea</i> , <i>Digitaria spp</i> , <i>Digera arvensis</i>	580.5-677.25 gm	1500- 1750	375-500	91
Pinoxaden 5.1% EC						
Wheat		<i>Phalaris minor</i> (Canary grass) <i>Avena ludoviciana</i> (Wild oat)	40-45 g	800-900 ml 30-35 DAS	225-300	90
Penoxsulam 21.7 % SC						
Rice (Transplanted)		<i>Ammania bacifera</i> , <i>Cyperus difformis</i> , <i>Echinochloa colonum</i> , <i>Echinochloa crusgalli</i> , <i>Cyperus iria</i> , <i>Fimbristylis miliacea</i> , <i>Ludwigia spp.</i> <i>Monochoria spp.</i> <i>Sphenoclelea zeylanica</i> ,	22.5 to 25 (pre-emergence 0-5 DAT) 20 to 22.5 (post-emergence 10-12 DAT)	93.7 to 104.2 83.3 to 93.7		60
Penoxsulam 2.67% OD						
Rice (Transplanted)	Grasses	<i>Echinochloa Colona</i> <i>Echinochloa Crusagalli</i>	22.5-25	900-1000	300-500	60
	Sedges	<i>Cyperus difformis</i>				

Rice)	Broad Leaved Weeds	<i>Caesulia axillaris</i>		ml/ha		
Pretilachlor 37%EW						
Transplanted Rice	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> <i>Cyperus difformis</i> <i>Cyperus iria</i> <i>Digitaria sanguinalis</i> <i>Fimbristylis miliacae</i> <i>Eclipta alba</i> <i>Ludwigia parviflora</i> <i>Monochoria vaginalis</i>	0.60-0.75 kg	1.5-1.875 ltrs.	500	90	
Pretilachlor 30.7% EC						
(Direct seeded rice under puddled condition)	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> <i>Cyperus difformis</i> <i>Cyperus iria</i>	0.45- 0.60kg.	1.5-2.0 ltr.	500	110	
Pretilachlor 50% EC						
Transplanted Rice	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> <i>Cyperus difformis</i> <i>Cyperus iria</i> <i>Fimbristylis miliacae</i> <i>Eclipta alba</i> <i>Ludwigia parviflora</i> <i>Monochoria vaginalis</i> <i>Leptochloa chinensis</i> <i>Panicum repens</i>	0.50-0.75 kg.	1.0-1.5 ltrs.	500-700	75-90	
Propaquizafop 10% EC						
Soybean	<i>Echinochloa colonum</i> , <i>Echinochloa crusgalli</i> , <i>Digitaria sanguinalis</i> , <i>Dactyloctenium aegyptium</i> , <i>Eleusine indica</i>	50-75 g	500-750	500-750	21	
Blackgram	<i>Echinochloa colonum</i> , <i>Echinochloa crusgalli</i> , <i>Digitaria sanguinalis</i> , <i>Dactyloctenium aegyptium</i> , <i>Eleusine indica</i>	75-100 g	750-1000	500-750	21	

Onion	<i>Echinochloa colonum</i> , <i>Digitaria sanguinalis</i> , <i>Dactyloctenium aegyptium</i> , <i>Phalaris minor</i>	62.5	625	500	7
Propanil 35% EC					
Potato	<i>Signal Grass (Brachiaria ramosa)</i> , <i>Lamb's Quarter (Chenopodium album)</i> , <i>Sweet clover (Melilotus spp.)</i> , <i>Moora grass (Fimbristylis miliacea)</i> , <i>Pill pod spurge (Euphorbia hirta)</i> , <i>Pea-vine (Bathyrus aphaca)</i> , <i>Prockly poppy (Argemone inexciana)</i>	1.0 Early post-emergence to weeds (12-15 DAS), Blanket spray	3.0	400-600	90
Rice	<i>Barnyard grass (Echinochloa crusgalli, E.colonum)</i> , <i>Nut grass (Cyperus difformis, C.iria)</i>	2.0-3.0 Early post-emergence to weeds (12-15 DAS), Blanket spray	5.8-8.5	400-600	90
Propanil 80% w/w DF					
Direct Seeded Rice	<i>Echinochloa colonum</i> (wild rice). <i>Echinochloa crusgalli</i> (barnyard grass) <i>Panicum repens</i> (bullet grass) <i>Brachiaria mutica</i> (para grass) <i>Digitaria sanguinalis</i> (hairy crabgrass) <i>Leptochloa chinensis</i> (red sprangletop) <i>Eclipta alba</i> (False daisy) <i>Commelina spp.</i> , <i>Ludwigia parviflora</i> (water crest) <i>Cyperus spp.</i>	2000-3000	2500-3750	375	84
Paraquat dichloride 24% SL					

Tea (Post-emergence directed inter row application at 2-3 leaf stage of weeds)	<i>Imperata</i> <i>Setaria sp.</i> , <i>Commelina benghalensis</i> , <i>Boerraria hispida</i> , <i>Paspalum conjugatum</i> ,	0.2-1.0 kg	0.8-4.25 ltr (For season long weed control, use 2.5-5.0 ltr for initial application. For subsequent repeat spot application use 1 litre)	200-400	Not Necessary (For season-long weed control, use 2.5 to 5 lit for initial application. For subsequent repeat spot application use 1 litre)
Potato (Post-emergence overall / inter-row application at 5-10 % emergence)	<i>Chenopodium sp.</i> <i>Angallis arvensis</i> <i>Trianthema monogyna</i> <i>Cyperus rotundus</i> <i>Fumeria parviflora</i>	0.5 kg	2.0 ltr.	500	100
Cotton (Post-emergence directed inter row application at 2-3 leaf stage of weeds)	<i>Digera arvensis</i> , <i>Cyperus iria</i> , <i>Trianthema monogyna</i> , <i>Corchorus spp.</i> , <i>Leucas aspera</i> , <i>Euphorbia spp.</i>	0.3-0.5 kg	1.25-2.0	500	150-180
Rubber (Post-emergence directed inter row application at 2-3 leaf stage of weeds)	<i>Digitaria sp.</i> , <i>Eragrostis sp.</i> , <i>Fimbristylis sp.</i>	0.3-0.6 kg	1.5-2.5	600	N.A.
Coffee	<i>Digitaria marginata</i> , <i>paspalum Conjugatum</i> , <i>Ageratum</i> , <i>Conyzides</i> , <i>Borreria hispida</i> , <i>Euphorbia hirta</i> , <i>Commelina benghalensis</i> , <i>Eleusine indica</i>	250	1.0	400	N.A.
Rice [pre-plant (minimum tillage) before sowing/transplanting for controlling standing weeds]	<i>Echinochloa crusgalli</i> , <i>Cyperus iria</i> , <i>Ageratum conyzides</i> , <i>Commelina benghalensis</i> , <i>Marsilea quadriofoliata</i> , <i>Brachiaria mutica</i>	0.3-0.8 kg	1.25-3.5	500	N.A.
Wheat [pre-plant (minimum tillage) before sowing]	<i>Grassy & Broad leaf weeds</i>	1.0 kg	4.25 ltrs	500	120-150
Maize [pre-plant (minimum tillage) before sowing]	<i>Cyperus rotundus</i> , <i>Commelina benghalensis</i> , <i>Trianthema monogyna</i> , <i>Amaranthus sp.</i> , <i>Echinochloa sp</i>	0.2-0.5 kg	0.8-2.0 ltrs	500	90-120

Maize (Post-emergence directed inter row application at 2-3 leaf stage of weeds)	<i>Cyperus iria</i> , <i>Cyperus rotundus</i> , <i>Commelina benghalensis</i> <i>Amaranthus sp.</i> <i>Echinochloa sp</i> <i>Trianthema monogyna</i>	0.2-0.5 kg	0.8-2.0 ltrs	500	90-120
Grapes (Post-emergence directed inter row application at 2-3 leaf stage of weeds)	<i>Cyperus rotundus</i> <i>Cynodon dactylon</i> <i>Convolvulus sp.</i> <i>Portulaca sp.</i> <i>Tridax sp.</i>	0.5 kg.	2.0ltrs.	500	90
Apple (Post-emergence directed inter row application at 2-3 leaf stage of weeds)	<i>Rosa moschata</i> <i>Rosa eglantaria</i> <i>Rubus ellipticus</i>	0.75 kg	3.25 ltrs	700-1000	N.A.
Aquatic weed control					
Water ways Canals, Ponds Etc	<i>Eichhornia crassipes</i> <i>Hydrilla</i> <i>Typha latifolia</i>	1000 1000 1000-2000	4.25 4.25 4.25-8.5	600-1000 600 600-1000	N.A
Pyroxasulfone 85% w/w WG					
Maize	<i>Echinochloa crusgalli</i> , <i>Eleusine indica</i> , <i>Phyllanthus niruri</i>	127.5	150	500	103
Wheat	<i>Phalaris minor</i>	127.5	150	500	131
Soybean	<i>Echinochloa colonum</i> , <i>Celosia argentic</i> , <i>Trianthema porulacastum</i> , <i>Amarthanas viridis</i> , <i>Digeria arvensis</i>	127.5	150	500	94
Pyrazosulfuron Ethyl 10% WP					
Transplanted Rice	<i>Cyperus Iria</i> , <i>Cyperus difformis</i> , <i>Fimbristylis miliacea</i> , <i>Monochoria vaginalis</i> , <i>Ludwigia parviflora</i>	10-15 g	100-150	500-600	95
Pyriithiobac Sodium 10% EC					

Cotton (Gossypium)	<i>Trianthema Spp</i> <i>Amaranthus Spp</i> <i>Chenopodium Spp</i> <i>Digera Spp</i> <i>Celosia argentia</i>	62.5-75 gm	625-750	500	160
Pyrozosalfuron Ethyl 70% WDG					
Transplanted Rice	<i>Echinicloa spp,</i> <i>Cyparus rotundus,</i> <i>Ludwigia parviflora</i>	21g	-	-	43
Quizalofop-ethyl 5% EC					
Soybean	<i>Echinochloa crusgalli</i> <i>E. colomum</i> <i>Eragrostis sp.</i>	37.5-50 gm.	0.75-1.0	500-600	95
Cotton	<i>Echinolchloa crusgalli,</i> <i>Echinochloa colonum,</i> <i>Dinebra retroflexa</i> <i>Digiteria marginata</i>	50.5	1000	500	94
Groundnut	<i>Echinochloa colonum,</i> <i>Dinebra retroflexa</i> <i>Dactyloctenium sp.</i>	37.5-50.0	750-1000	500	89
Black gram	<i>Eleusine indica,</i> <i>Dactyloctenium aegyptium,</i> <i>Digitaria sanguinalis,</i> <i>Eragrostis sp.,</i> <i>Paspalidium sp.,</i> <i>Echinochloa sp.,</i> <i>Dinebra ratroflexa</i>	37.5-50.0	750-1000	500	52
Onion	<i>Digitaria sp.,</i> <i>Eleusine indicia,</i> <i>Dactyloctenium aegyptium,</i> <i>Eragrostis sp.,</i>	37.5-50.0	750-1000	375-450	7
Quizalofop-ethyl 10% EC					
Soyabean	<i>Love grass (eragrosts</i> <i>ipilosa),</i> <i>Crab grass (digitaria</i> <i>sanguinalis/ wild finger/</i> <i>Makra grass Viper grass,</i> <i>Barnyard grass,</i> <i>sanwa/Samel,</i> <i>Brown top millet</i>	375-45.0	375-450	300-500	69-103

Quizalofop –p-tefuryl 4.41% EC					
Soybean	<i>Echinochloa spp.</i> <i>Dinebra arabica</i> <i>Digitaria sanguinalis</i> <i>Cynodon dactylon</i> <i>Hemarthria compressa</i> <i>Eleusine indica</i>	30-40 gm	750-1000 ml	400	30
Saflufenacil 70.0% w/w WG					
Non Cropped Areas	<i>Cyperus rotundus</i> <i>Dactyloctenium aegyptium</i> <i>Eleusine indica</i> <i>Cynodon dactylon</i> <i>Chloris barbata</i> <i>Echinochloa colona</i> <i>Amaranthus viridis</i> <i>Portulaca oleraceae</i> <i>Commelina benghalensis</i> <i>Ageratum conyzoides</i> <i>Digera arvensis</i> <i>Euphorbia hirta</i> <i>Parthenium hysterophorus</i>	70	100	500	N.A.
Tea	<i>Ageratum conyzoides</i> <i>Bidens spp.</i> <i>Borreria spp.</i> <i>Conyza spp.</i> <i>Crassocephala integrifolia</i> <i>Galinsoga parviflora</i> <i>Mumosa pudica</i> <i>Chromolaena odorata</i> <i>Commueenila benghalensis</i> <i>Lantana camara</i>	70	100	450	7
Sulfentrazone 39.6% w/w SC					
Soybean	<i>Acalypha sp.</i> , <i>Commelina sp.</i> , <i>Digera sp.</i> , <i>Cyprus sp.</i> <i>Echinochloa sp.</i> , <i>Brachiaria sp.</i> , <i>Dinebra sp.</i>	360	750	500	88
Sugarcane	<i>Trianthema sp.</i> , <i>Digera spp.</i> , <i>Amaranthus spp.</i> , <i>Phyllanthus spp.</i> , <i>Euphorbia spp.</i> ,	720	1500	500	306

	<i>Dacteloctenium spp.</i> , <i>Digitaria spp.</i> , <i>Brachiaria spp.</i> , <i>Echinochloa spp.</i> , <i>Cynodon spp.</i> , <i>Cyperus spp.</i>				
Sulfosulfuron 75% WG					
Wheat	<i>Phalaris minor</i> <i>Chenopodium sp.</i> <i>Melilotus alba</i>	25 gm	33.3 gm	200-250 + Cationic surfactant 1250ml/ha	110
Tembotrione 34.4% SC					
Maize	<i>Trianthema</i> <i>portulacastrum</i> , <i>Echinochloa sp.</i> <i>Bracharia sp.</i>	120g	286ml	500L	55
Triallate 50% EC					
Wheat	<i>Avena fatua</i>	1.25 kg	2.5 kg.	250-500	150
Triasulfuron 20% WG					
Wheat	<i>Chenopodium album</i> , <i>Anagallis arvensis</i> , <i>Medilotus alba</i> , <i>Rumex spp</i> , <i>Medicago denticulata</i> , <i>Fumeria pomiflora</i> , <i>Cronopus didymus</i> , <i>Spergula arvensis</i> <i>Malvela perviflora</i>	20	100	500	81
Tea	<i>Ageratum conyzoides</i> , <i>Borreria spp.</i> , <i>Crassocephalum</i> <i>crepidiodes</i> , <i>Oxalis spp.</i> , <i>Bidens pilosa</i> , <i>Conyza ambigua</i> , <i>Drymaria diandra</i> , <i>Emillia sonchifolia</i> , <i>Mitracarpus verticilatus</i> , <i>Syndnedrella nodiflora</i> .	25	125	500	7

Topramezone 336 g/l w/v SC					
Maize	<i>Elusine indica</i> , <i>Digitaria sanguinalis</i> , <i>Dactyloctenium aegyptium</i> , <i>Echinocloa spp.</i> , <i>Chloris barbata</i> , <i>Parthenium hysterophorus</i> , <i>Digera arvensis</i> , <i>Amaranthus viridis</i> , <i>Physalis minima</i> , <i>Alternanthera sessilis</i> , <i>Convolvulus arvensis</i> , <i>Celotia argentea</i> .	25.2 to 33.6 g a.i./ha + MSO adjuvant @ 2 ml/l of water	75 to 100 ml + MSO adjuvant @ 2 ml/l of Water	375	83

HERBICIDE COMBINATIONS

Ametryn 73.1% w/w + Trifloxysulfuron sodium 1.8% w/w WG					
Sugarcane	<i>Echinochloa colona</i> , <i>Cyanadon dactylon</i> , <i>Cyperus rotundus</i> , <i>Amaranthus viridis</i> , <i>Trianthema spp.</i> and <i>Digitaria sanguinalis</i>	937.5-1125	1250-1500	500	221
Anilofos 24% +2,4-D ethyl Ester 32% EC					
Transplanted rice	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> <i>Ischaemum rugosum</i> <i>Fimbristylis miliacea</i>	(0.24+ 0.32) to (0.36 + 0.48) kg	1-1.5 ltrs.	300	90
Bensulfuron methyl 0.6%+Pretilachlor 6% GR					

Transplanted Rice	<i>Echinochloa crusgalli</i> , <i>Echinochloa colonum</i> , <i>Cynodon dactylon</i> <i>Cyperus iria</i> , <i>Cyperus difformis</i> , <i>Cyperus rotundus</i> , <i>Fimbristylis miliacea</i> , <i>Ludwigia parviflora</i> , <i>Marselia quadrifolia</i> , <i>Enhydra fluctuans</i> , <i>Sphenoclea zeylanica</i> , <i>Eclipta alba</i> , <i>Ammania baccifera</i> .	60 + 600 gm	10 kg	N.A.	88
Bispyribac Sodium 20% + Pyrazosulfuron Ethyl 15% WDG					
Rice	<i>Echinochloa colonum</i> , <i>Echinochloa crusgalli</i> <i>Eclipta alba</i> , <i>Cyperus rotundus</i>	20+15	100	500	130
Carfentrazone ethyl 0.43% + Glyphosate 30.82% EW					
Tea	<i>Ageratum conyzoides</i> <i>Bidens pilosa</i> <i>Borreria sp.</i> <i>Crassocephalumcr</i> <i>epidioides</i> <i>Cynadon sp.</i> <i>Cyperous sp.</i> <i>Digitaria sp.</i> <i>Eleusine indica</i> <i>Mimosa sp.</i> <i>Mrtracarpus villosus</i> <i>Oxalis sp.</i>	12.90 +924.60	3000	500	7
Non-cropped area	<i>Ageratum conyzoides</i> <i>Axonopus sp.</i> <i>Brachiaria sp.</i> <i>Commelina sp.</i> <i>Cynodon dactylon</i> <i>Cyperous sp.</i> <i>Digitaria sp.</i> <i>Eleusine indica</i> <i>Imperata cylendrica</i> <i>Lantana camera</i> <i>Parthenium sp.</i>	12.90 +924.60	3000	500	--
Carfentrazone ethyl 20% + Sulfosulfuron 25% WG					

Wheat	<i>Phalaris minor</i> <i>Avena ludoviciana</i> <i>Chenopodium album</i> <i>Medilotus alba</i> <i>Rumex spp</i>	20+25 +750 ml Surfactant	100	300	110
Clodinafop Propargyl 15% + Metsulfuron Methyl 1% WP					
Wheat	<i>Phalaris minor</i> , <i>Avena fatua</i> , <i>Chenopodium album</i> , <i>Melilotus sp.</i> , <i>Fumaria parviflora</i> , <i>Vicia sativa</i> , <i>Rumex sp.</i> , <i>Anagallis arvensis</i> , <i>Coronopus didymus</i> , <i>Lathyrus sp.</i> , <i>Convolvulus arvensis</i>	60+4	400	375 (Add 1250 ml surfactant at the time of sparying)	100
Clodinafop propargyl 9% + Metribuzin 20% WP (w/w)					
Wheat	<i>Phalaris minor</i> <i>Chenopodium album</i> , <i>Melilotus sp</i> <i>Vicia sativa</i> , <i>Rumex sp</i> <i>Medicago sp</i> <i>Cronopus didymus</i> <i>Dinebra vetroflexa</i>	54+120	600	300	120
Clomazone 20%+2,4-D EE 30% EC					
Transplanted Rice	<i>Echinochloa colonum</i> , <i>Echinochloa crusgalli</i> , <i>Cyperus iria</i> , <i>Cyperus difformis</i> , <i>Eclipta alba</i> , <i>Leptochloa</i> <i>chinensis</i> , <i>Panicum repens</i> , <i>Fimbristylis miliacea</i> , <i>Marsilea quadrifoliata</i> , <i>Ludwigia parviflora</i> .	0.250-0.375 Kg	1.25 ltrs.	500	100-110
Clomazone 22.5% w/w + Metribuzin 21% w/w WP					
Sugarcane	<i>Trianthema Spp.</i> <i>Amaranthus viridis</i> <i>Phyllanthus niruri</i> <i>Bracharia Spp.</i> <i>Dactyloctenium</i> <i>aegyptium</i>	563 + 525	2500	500L	307 days

	<i>Echinochloa spp.</i> <i>Digitaria Spp.</i> <i>Cynodon dactylon</i>				
Fenoxaprop-p-ethyl 7.77% w/w + Metribuzin 13.6% w/w EC					
Wheat	<i>Phalaris minor</i> (Little seed canary grass) <i>Chenopodium album</i> (Lambs quarter) <i>Lathyrus aphaca</i> (Meadow Pea) <i>Rumex Sp.</i> (Golden dock) <i>Melilotus spp.</i> (Sweet clover) <i>Avena ludoviciana.</i>	100+175	1250	375	110
Fluazifop-p-butyl 11.1% w/w + Fomesafen 11.1% w/w SL					
Soybean	<i>Echinochloa colona</i> <i>Digitaria sp</i> <i>Eleusine indica</i> <i>Dactyloctenium aegyptium</i> <i>Brachiaria reptans</i> <i>Commelina benghalensis</i> <i>Digera arvensis</i> <i>Trianthema sp.</i> <i>Phyllanthus niruri</i> <i>Aclypha indica</i> <i>Dinebra arbica</i>	250	1000	500	71
Groundnut	<i>Echinochloa colona</i> <i>Digitaria sp.</i> <i>Eleusine indica</i> <i>Dactyloctenium aegyptium</i> <i>Commelina benghalensis</i> <i>Eluopus villosus</i> <i>Indigofera glandulosa</i> <i>Chloris barbata</i> <i>Trianthema sp.</i> <i>Digera arvensis</i> <i>Cleome viscosa</i> <i>Phyllanthus niruri</i> <i>Amaranthus viridis</i> <i>Cyperus sp.</i>	250	1000	500	82
Fomesafen 12 % + Quizalofop ethyl 3% w/w SC					

Soybean	<i>Echinochloa colona</i> , <i>Eleusine indica</i> , <i>Doctyloctenium aegyptium</i> , <i>Digitaria sanguinalis</i> , <i>Cyperus rotundus</i>	180+45	1500	500	71
Hexazinone 13.2% + Diuron 46.8 % WP					
Sugarcane	<i>Echinochloa colonum</i> <i>Dactyloctenium aegyptium</i> <i>Trianthema monogyna</i> <i>Amaranthus viridis</i> <i>Ipomea spp</i> <i>Cyperus rotundus</i> <i>Cyperus esculentus</i> <i>Setaria spp</i> <i>Parthenium hysterophorus</i> <i>Euphorbia hirta</i>	1200 gm (264+936)	2 Kg	500	282-306
Indaziflam 1.65% w/w (2%w/v) + Glyphosate Isopropylammonium 44.63% w/w (40%w/v) SC					
Tea	<i>Ageratum sp.</i> <i>Borreria sp.</i> <i>Eleusine indica</i>	50+1000 to 70 + 1400 g.a.i/ha	2500 to 3500 ml/ha	500 L	14 days
Imazethapyr 35% + Imazamox 35% WG					
Soybean	<i>Echinochloa Colonum</i> , <i>Dinebra Arabica</i> , <i>Digitaria sanguinalis</i> , <i>Brachiaria mutica</i> <i>Commelina benghalensis</i> <i>Euphorbia hirta</i>	70 g a.i/ha + MSO Adjuvant @ 2 ml/l of water	100 g MSO Aadjuvant @ 2ml/l of water	375-500	56
Groundnut	<i>Echinochloa Colonum</i> , <i>Digira arvensis</i> , <i>Commelina benghalensis</i> <i>Euphorbia hirta</i> <i>Amaranthus viridis</i> <i>Physalis minima</i> <i>Brachiria Spp.</i> <i>Trianthema portulacastrum</i>	70 g a.i/ha + MSO Adjuvant @ 2 ml/l of water	100 g MSO Aadjuvant @ 2ml/l of water	375-500	83

Cluster bean	<i>Echinochloa colonum</i> , <i>Euphorbia</i> spp., <i>Digitaria arvensis</i> , <i>Amaranthus viridis</i> .	70 g a.i./ha + MSO adjuvant @ 2m/l of water	100 g/ha + MSO adjuvant @ 2m/l of water	500	64
Red gram	<i>Euphorbia</i> spp., <i>Amaranthus viridis</i> .	70 g a.i./ha + MSO adjuvant @ 2m/l of water	100 g/ha + MSO adjuvant @ 2m/l of water	375-500	125
Mesosulfuron Methyl 3% + Iodosulfuron Methyl Sodium 0.6% WG					
Wheat	<i>Phalaris minor</i> <i>Medicago denticulata</i> <i>Chenopodium album</i> <i>Melilotus</i> sp. <i>Rumex</i> sp. <i>Anagallis arvensis</i> <i>Coronopus didymus</i> <i>Lathyrus aphaca</i> <i>Fumaria parviflora</i>	(12+2.4 gm)	400 ml.	400-500 + Surfactant (Genopol LRO fluid) @ 500 ml/ha	96
Mesotrione 2.27% w/w + Atrazine 22.7% w/w SC					
Maize	<i>Trianthema</i> spp., <i>Cyperus</i> spp. <i>Digitaria sanguinalis</i> , <i>Echinochloa</i> spp. <i>Dactyloctenium aegyptium</i>	875 gm	3500	500	42
Sugarcane	<i>Trianthema</i> spp. <i>Amaranthus viridis</i> , <i>Echinochloa colona</i> , <i>Digitaria sanguinalis</i> <i>Cyperus rotundus</i> , <i>Dactyloctenium aegyptium</i>	875 gm	3500	500	190
Metribuzin 42% + Clodinafop propargyl 12% WG					
Wheat	<i>Phalaris minor</i> (Canary grass), <i>Avena</i> spp. (Wild oat), <i>Chenopodium album</i> (Fat hen), <i>Melilotus</i> sp. (Sweet clover), <i>Medicago</i> <i>denticulate</i> (Toothed medic), <i>Rumex</i> spp. (Wild spinach), <i>Anagallis</i> <i>arvensis</i> (Blue Pimpernel)	210+60	500	375	92
Metsulfuron Methyl 10% + Chlorimuron ethyl 10% WP					

Transplanted Rice (Pre-emergence application-3 DAT)	<i>Cyperus iria</i> , <i>Cyperus difformis</i> , <i>Fimbristylis miliacea</i> , <i>Eclipta alba</i> , <i>Ludwigia parviflora</i> , <i>Cyanotis axillaries</i> , <i>Monocoria vaginalis</i> , <i>Marsilea quadrifoliata</i> ,	4gm	20 gm.	300	90
Metsulfuron Methyl 10% + Carfentrazone ethyl 40% DF					
Wheat	<i>Rumex dentatus</i> <i>Rumex spinosus</i> <i>Medicago denticulate</i> <i>Malva parviflora</i> <i>Lathyrus aphaca</i> <i>Chenopodium album</i> <i>Melilotus alba</i> <i>Melilotus indica</i> <i>Anagallis arvensis</i> <i>Solanum nigrum</i> <i>Vicia sativa</i> <i>Convolvulus arvensis</i>	25	50	300	100
Oxyflurofen 2.5% + Glyphosate (Isopropyl amime salt) 41% SC(w/w)					
Tea	<i>Ageratum Conyzoids</i> <i>Cyperous sp</i> <i>Borreriabispida</i> <i>Paspalumcon jugatum</i> <i>Digitaria ciliaris</i>	50+820	2000	500L/ha.	14
Non Crop area	<i>Digitaria sanguinalis</i> (Crab grass) <i>Cynodon d actylon</i> (Dhoob grass) <i>Paspalum conjugalum</i> (Hilo grass) <i>Cyperus spp.</i> , (Purplenut shedge) <i>Digeria aruensis</i> (False Amaranth)	78.125+128 1.25	3125	500	-
Pendimethalin 30%+ Imazethapyr 2% EC					
Soybean	<i>Echinocloa crusgalli</i> <i>Digeria arvensis</i> <i>Commelina</i> <i>benghalensis</i> , <i>Amaranthus viridis</i> <i>Portulaca oleracea</i>	(750+50) to (900+60) gm	2.5-3.0 ltrs	500-600	90

Pendimethalin 40% + Metribuzin 8% EC					
Wheat	<i>Phalaris minor</i> <i>Chenopodium album</i> <i>Anagallis arvensis</i> <i>Melilotus spp.</i> <i>Medicago spp.</i>	1000 + 200	2500 ml	500	107
Penoxsulam 0.97% w/w + Butachlor 38.8% w/w SE					
Transplanted Rice	<i>Echinochloa colonum</i> , <i>Echinochloa crusgalli</i> , <i>Cyperus iria</i> , <i>Cyperus difformis</i> , <i>Marsilia quadrifoliata</i> , <i>Alternanthera spp.</i>	820 g a.i/ha	2000ml/ha	750	60
Penoxsulam 1.02 % + Cyhalofop-butyl 5.1% OD					
Rice (Direct seeded Rice)	<i>Echinochloa colona</i> <i>Echinochloa crusgalli</i> <i>Leptochloa chinesis</i> <i>Eleusine indica</i> <i>Alternanthera sessilis</i> <i>Caesulia axillaris</i> <i>Cyperus spp</i>	120-135	2000-2250	300-500	60
Rice (Transplanted Rice)	<i>Echinochloa colona</i> <i>Echinochloa crusgalli</i> <i>Leptochloa chinesis</i> <i>Caesulia axillaris</i> <i>Cyperus difformis</i> <i>Cyperus spp</i>	120-135	2000-2250	300-500	60
Pendimethalin 35% + Metribuzin 3.5% w/w SE					

Wheat	<i>Canary grass (Phalaris minor),</i> <i>Wild Oat (Avena ludoviciana),</i> <i>Lamb's quarters (Chenopodium album),</i> <i>Field bindweed (Convolvulus arvensis),</i> <i>Swine Cress (Coronopus didymus),</i> <i>Burmuda grass (Cyanadon doctylon)</i>	875 +87.5 to 1050 + 105 gm	2.5-3.0	500	123
Pendimethalin 38.4% + Pyrazosulfuron ethyl 0.85% ZC					
Transplanted Rice	<i>Echinochloa colona (wild rice), Echinochloa crus galli (banyard grass),</i> <i>Marsilea quadrifolia (common water clover),</i> <i>Ludwigia parviflora (water crest),</i> <i>Cyperus difformis (common sedge),</i> <i>Cyperus spp.</i>	900 +20	2000	375	86
Pretilachlor 6% + pyrazosulfuron Ethyl 0.15%(H)					
Paddy	Grassy weeds, Broad Leave, Sedges	600+15	10	-	83
Pretilachlor 6.0% +Pyrazosulfuron Ethyl 0.15% GR					
Transplanted Paddy	<i>Echinochloa Colonum</i> <i>Echinochloa Crusagalli</i> <i>Ludwigia paviflora,</i> <i>Elipta alba,</i> <i>Leptochloa chinensis,</i> <i>Monochoria vaginalis,</i> <i>Cyperus difformis,</i> <i>Cyperus iria,</i> <i>Fimbristylis miliaceae</i>	600	10	-	83
Pretilachlor 30.0% + Pyrazosulfuron Ethyl 0.75% WG					

Paddy (Direct seeded Rice)	<i>Echinochloa colona</i> , <i>Eleusine indica</i> , <i>Leptochloa chinensis</i> , <i>Abernante a sessilis</i> , <i>Parthenium hysterophorus</i> , <i>Cyperus iria</i> <i>Cyperus difformis</i> , <i>Fimbristylis miliacea</i>	15+600	2000	375	113
Propaquizafop 2.5% + Imazethapyr 3.75% w/w ME					
Soybean	<u>Grassy weeds:</u> <i>Dactyloctenium aegyptium</i> <i>Echinochloa colonum</i> <i>Eleusine indica</i> <i>Digitaria sanguinalis</i> <u>BLW:</u> <i>Commelina benghalensis</i> <i>Euphorbia hirta</i> <i>Digera arvensis</i> <i>Amaranthus viridis</i>	50+75	2000	500	80
Groundnut	Monocot weeds <i>Echinochloa colona</i> , <i>Cyperus difformis</i> , <i>Digitaria sanguinalis</i> Broad leaved weeds <i>Commelina benghalensis</i> <i>Digera arvensis</i>	50+75	2000	500	97
Blackgram	Monocot weeds <i>Digitaria sanguinalis</i> <i>Dactylectonum aegyptium</i> <i>Cynodon dactylan</i> Broad leaved weeds <i>Parthenium hysterophorus</i> <i>Commelina benghalensis</i> <i>Euphorbia hirta</i>	50+75	2000	500	56
Clusterbean	Monocot weeds <i>Cyperus rotundus</i> <i>Digitaria sanguinalis</i> Broad leaved weeds <i>Commelina benghalensis</i> <i>Amaranthus viridis</i>	50+75	2000	500	69

Propaquizafop 5% + Oxyfluorfen 12% w/w EC					
Onion	<u>Grassy weeds</u> <i>Digitaria sanguinalis</i> , <i>Dactyloctenium aegyptium</i> , <i>Echinochloa colona</i> , <i>Eleusine indica</i> <u>BLW:</u> <i>Chenopodium album</i> , <i>Digera arvensis</i> <i>Amaranthus viridis</i>	43.75 +105	875	500	7
Pyrifthalid 31.0% w/w + Bensulfuron methyl 15.7% w/w SC					
Transplanted Rice	<i>Echinochloa sp.</i> , <i>Cyperus spp.</i> , <i>Sphenochlea zeylanica</i> , <i>Ludwigia spp.</i> , <i>Eclipta alba</i> , <i>Marsilea spp.</i> , <i>Fimbristylis miliacea</i>	175 (116.1g a.i. of Pyrifthalid + 58.9g a.i. of Bensulfuron methyl)	375	Upto 5 L/ha	99
Pyriithiobac Sodium 6% EC w/w+ Quizalofop-ethyl 4% EC w/w MEC					
Cotton	<i>Trianthema spp</i> <i>Digera spp</i> <i>Celosia argentia</i> <i>Dinebra retroflexa</i> <i>Digitaria marginata</i>	(60+40) to (75+50) g.a.i/ha	1.0-1.25 Ltr/ha	500	160
Quizalofop ethyl 4% + Oxyfluorfen 6% EC					
Onion	<i>Digitaria sanguinalis</i> (Crab grass) <i>Cyperus rotundus</i> (Moth)	100	1000	375	7
Quizalofop Ethyl 10% EC + Chlorimuron Ethyl 25% WP + Surfactant (0.2) (Herbicide) (Twin pack)					

Soyabean	Aghada (<i>Acanthospermum</i> sp.), <i>Alternanthera</i> spp. <i>Celosia argentia</i> <i>Borreria</i> spp. <i>Parthenium</i> spp. <i>Euphorbia geniculate</i> <i>Eragrostis pilosa</i> E. <i>viscosa</i> <i>Digitaria marginata</i> <i>Dactylactonium aegyptium</i> <i>Echinochloa</i> spp. <i>Cynodon dactylon</i> <i>Brachiaria ramosa</i>	Quizalofop ethyl 10% EC 37.5g Chlorimuron ethyl 25% WP 9g Surfactant 0.2%	Quizalofop ethyl 10% EC 375ml Chlorimuron ethyl 25% WP 36g Surfactant 0.2%	300	75
Quizalofop ethyl 7.5% + Imazethapyr 15% w/w EC					
Groundnut	<i>Dactyloctenium aegyptium</i> <i>Digitaria</i> spp. <i>Echinochloa</i> spp. <i>Cyperus rotundus</i> <i>Commelina bengalensis</i> <i>Digera arvensis</i>	32.81 + 65.625	437.5	375-500	90
Sulfentrazone 28% + Clomazone 30% WP					
Soybean	<i>Commelina benghalensis</i> , <i>Acalypha indica</i> , <i>Corchorus</i> spp., <i>Euphorbia</i> spp., <i>Parthenium hysterophorus</i> , <i>Echinochloa colonum</i> , <i>Brachiaria</i> spp., <i>Dinebra</i> spp., <i>Cyperus rotundus</i> .	350+375	1250	500	84
Sugarcane	<i>Amaranthus viridis</i> , <i>Trianthema</i> spp., <i>Digera arvensis</i> , <i>Physalis</i> spp., <i>Brachiaria</i> spp., <i>Cynodon dactylon</i> , <i>Echinochloa</i> spp., <i>Dactyloctenium aegyptium</i> , <i>Cyperus rotundus</i> .	700+750	2500	500	302

Sulfosulfuran 75%+ Metsulfuron Methyl 5%WG					
Wheat	<i>Phalaris minor</i> , <i>Chenopodium sp.</i> , <i>Medicago denticulata</i> , <i>Coronopos dedymus</i> , <i>Rumex spp.</i> <i>Melilotus alba</i> , <i>Anagallis arvensis</i>	(30+2)	40 gm	250-500 + surfactant 1250 ml/ha	110
Sodium Aceflourofen 16.5% + Clodinafop Propargyl 8% EC					
Soybean	<i>Acalypha indica</i> , <i>aegyptium</i> , <i>Alternanthera v</i> <i>philoxeroides</i> , <i>Amaranthus spp.</i> , <i>Celosia argentea</i> , <i>Cleome viscosa</i> , <i>Commelina benghalensis</i> , <i>Dactyloctenium</i> , <i>Digera arvensis</i> , <i>Digitaria sanguinalis</i> , <i>Echinochloa spp.</i> , <i>Eleusine indica</i> , <i>Euphorbia spp.</i> , <i>Parthenium spp.</i> , <i>Phyllanthus niruri</i> , <i>Physalis minima</i> , <i>Stellaria media</i> <i>Trianthema monogyna</i>	80 + 165	1000	500	61
Topramezone 10 g/l + Atrazine 300 g/l SC					
Maize	<i>Parthenium</i> <i>hysterophorus</i> <i>Panicum spp.</i> <i>Amaranthus viridis</i> <i>Celotia argentia</i> <i>Melilotus alba</i> <i>Alternanthera sp.</i> <i>Digitaria sanguinalis</i>	775	2500	500	90
Sugarcane	<i>Amaranthus viridis</i> <i>Cynodon dactylon</i> <i>Portulaca oleraceae</i> <i>Alternanthera sessalis</i>	930	3000	500	268
Triafamone 20% + Ethoxysulfuron 10% WG					

Rice Transplanted	<i>Echinochloa colona</i> , <i>Echinochloa crusgalli</i> , <i>Cyperus rotundus</i> , <i>Cyperus difformis</i> , <i>Fimbristylis miliacea</i> , <i>Marsilea quadrifolia</i> .	44+22.5	225	300	83
Rice Direct Seeded	<i>Echinochloa colona</i> , <i>Cyperus rotundus</i> , <i>Digera arvensis</i> , <i>Commelina benghalensis</i> .	44+22.5	225	300	83
