



भारत सरकार

Government of India

कृषि और किसान कल्याण मंत्रालय

Ministry of Agriculture & Farmers Welfare

कृषि एवं किसान कल्याण विभाग

Department of Agriculture & Farmers Welfare

वनस्पति संरक्षण, संगरोध एवं संग्रह निदेशालय

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 - 30/11/2024)

(Based on certificates 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)		
Ametryn 80% WG					
Sugarcane	<i>Digitaria sanguinalis</i> , <i>Cynodon dactylon</i> , <i>Trianthema monogyna</i> , <i>Ageratum conyzoides</i> , <i>Dactyloctenium aegyptium</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</i> sp. <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</i> sp.	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</i> sp.	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>Xantheium 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
Beflubutamid 2.5% GR					
Transplanted Paddy	<i>Ludwigia parviflora</i> , <i>Sphenoclea zeylanica</i> , <i>Eclipta alba</i> , <i>Ammannia baccifera</i> , <i>Cyperus difformis</i> , <i>Cyperus iria</i> , <i>Leptochloa chinensis</i> , <i>Echinochloa crusgalli</i>	250-300	10000- 12000	-	87

Bensulfuron Methyl 60% DF					
Transplanted Rice Pre-emergence (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 sessilis</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 sessilis</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 colonum</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 colonum</i> <i>Echinochloa crusgali</i>	960	2000	500	71
Bispyribac Sodium 10% SC					
Rice (Nursery) (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>Alternanthera philoxeroides</i> , <i>Sphenoclea zeylenica</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 crusgalli</i> , <i>Digitaria sanguinalis</i> , <i>Setaria spp.</i> , <i>Commelina benghalensis</i> , <i>Fimbristylis miliacea</i> , <i>Cyperus iria</i> , <i>Eleusine indica</i> , <i>Panicum spp.</i> , <i>Echinochloa colonum</i> , <i>Eclipta alba</i> , <i>Cyperus difformis</i> , <i>Ludwigia parviflora</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 denticulata</i> , <i>Lathyrus aphaca</i> , <i>Analgallis arvensis</i> , <i>Vicia sativa</i> , <i>Cirsium 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>Spilanthes 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 g	36 g	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>	6 g	24 g	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>Echinochloa crusgalli</i> <i>Marsilea minuta</i>	75-100 g	0.75-1.0 ltrs.	500-700	110

Clodinafop-propargyl 12.5% EC					
Green gram	<i>Goosegrass (Eleusine indica), Large crab grass (Digitaria sanguinalis), Jungle rice (Echinochloa colona), Crow foot grass (Dactyloctenium aegyptium), Bermuda grass (Cynodon dactylon), Running grass (Brachiaria reptans)</i>	125	1000	500	75
Clodinafop- propargyl 15% WP					
Wheat	<i>Phalaris minor (Canary grass)</i>	60 g	400 g	375-400	110
Clodinafop- propargyl 15% w/w DF					
Wheat	<i>Phalaris minor (Canary grass)</i>	60 g	400	500	70
Clethodim 25% w/w (240 g/L) EC					
Soybean	<i>Echinochloa spp., Digitaria spp., Cynodon dactylon</i>	120-180	500-750 ml	500	62
Clomazone 50% EC					
Soybean	<i>Digitaria sp. Echinochloa sp. Parthenium hysterophorus Commelina sp.</i>	0.75-1.00Kg	1.5-2.0 Ltrs.	500-600	90
Transplanted Rice	<i>Echinochloa crusgalli Echinochloa colonum Cyperus difformis Cyperus iria, Ludwigia parviflora, Eclipta alba</i>	0.4 – 0.5kg	0.8-1.0 ltr	500-750	90
Sugarcane	<i>Echinochloa colonum Brachiaria repens Dactyloctenium aegyptium 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 (Direct seeded)	<i>(Echinochloa spp.) 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 spp.</i> , <i>Tribulus terrestris</i> , <i>Boerhavia diffusa</i> , <i>Euphorbia hirta</i> , <i>Portulaca oleracea</i> , <i>Cyperus spp.</i>	0.5 kg	0.86	400-500	50-60
Wheat	<i>Chenopodium album</i> , <i>Fumaria parviflora</i> , <i>Melillotus alba</i> , <i>Vicia sative</i> , <i>Asphodelus tenuifolius</i> , <i>Convolvulus arvensi</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>	2.0 kg	3.44	400	-
Sugarcane	<i>Cyperus iria</i> , <i>Digitaria spp.</i> , <i>Dactyloctenium 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> , <i>Parthenium hysterophorus</i> , <i>Cyperus rotundus</i>	0.5-1.0 kg	0.86-1.72	600-700	15-20
		2.65 kg	4.56	300-400	15-20
		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)					
Grapes	<i>Convolvulus spp.</i> <i>Tridax procumbens</i>	2.0	2.5	500	> 90 days

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> , <i>Amaranthus spinosus</i> , <i>Cleome chelidonii</i> , <i>Lagascea mollis</i>	1.0 kg	1.25	500	120 (Pre-em) 90 (Post-em)
Sugarcane	<i>Boerhavia 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 argentea</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> , <i>Solanum elaeagnifolium</i>	2.5-6.0 kg.	3.2-7.5	600-1000	-
		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 spp.</i> , <i>Portulaca oleracea</i> ., <i>Tribulus terrestris</i> , <i>Boerhavia diffusa</i> , <i>Euphorbia hirta</i> , <i>Cyperus spp.</i>	0.9 kg	2.65 ltr	400-450	50-60

Sorghum	<i>Cyperus iria</i> , <i>Striga</i> sp. <i>Digera arvensis</i> , <i>Convolvulus arvensis</i> , <i>Trianthema</i> sp., <i>Tridax procumbens</i> , <i>Euphorbia hirta</i> , <i>Phyllanthus niruri</i>	1.0 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> , <i>Fumaria parviflora</i> , <i>Melilotus alba</i> , <i>Spergula arvensis</i>	0.45-0.75 kg	1.32-2.2	450-500	-
Sugarcane	<i>Cyperus iria</i> , <i>Digitaria</i> spp., <i>Dactyloctenium aegyptium</i> , <i>Digera arvensis</i> , <i>Portulaca oleracea</i> , <i>Commelina benghalensis</i> , <i>Amaranthus</i> spp., <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</i> spp. <i>Euphorbia hirta</i> <i>Cyperus</i> spp.	0.9	5.0	625	-
Sorghum	<i>Convolvulus arvensis</i>				
Wheat	<i>Chenopodium slbum</i> <i>Malilots alba</i>				
Paddy	<i>Echinochloa colonum</i> <i>Echinochloa crusgalli</i>				
2,4-D Sodium Salt 48% + Metribuzin 32% + Chlorimuron ethyl 0.85% WDG					
Sugarcane	<i>Echinochloa colona</i> , <i>Digitaria sanguinalis</i> , <i>Commelina benghalensis</i> , <i>Cyperus iria</i> , <i>Parthenium hysterophorus</i> , <i>Physalis minima</i>	2020	2500	500	315

2,4-D Ethyl Ester 4.5 % GR (having 2,4-D acid 4 % w/w)					
Transplanted Rice	<i>Echinochloa Colonom</i> <i>E. Crusgalli</i> <i>Panium ischaemum</i> <i>Cynodon dactylon</i> (germinating) <i>Cyperus rotundus</i> (germinating) <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>	1.0 kg	25 kg	-	-
2,4-D Sodium Salt 48% + Metribuzin 32% + Chlorimuron ethyl 0.85% WDG					
Sugarcane	<i>Echinochloa colona</i> , <i>Digitaria sanguinalis</i> , <i>Commelina benghalensis</i> , <i>Cyperus iria</i> , <i>Parthenium hysterophorus</i> , <i>Physalis minima</i>	2020	2500	500	315
2,4-D Sodium Salt 50% (w/w) + Metribuzin 15% (w/w) WP					
Wheat	<i>Amaranthus spinosus</i> , <i>Chenopodium album</i> , <i>Rumex dentatus</i> , <i>Phalaris minor</i> , <i>Melilotus alba</i>	400 + 120 (520 gm)	800 gm	500	120
Dicamba 48% w/v SL					
Maize	<i>Trianthema portulacastrum</i>	360	750	500	69
Wheat	<i>Chenopodium album</i>	240	500	500	91
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 strumarium,</i> <i>Anagallis arvensis,</i> <i>Asphodelus tenuifolius,</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 spp,</i> <i>Dactyloctenium,</i> <i>Chloris barbata,</i> <i>Eragrostis zeylanica</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 spp.,</i> <i>Amaranthus spp.,</i> <i>Phyllanthus niruri</i>	0.8 kg	500.30 kg.	600	-
Citrus (sweet orange)	<i>Cyperus iria,</i> <i>Tribulus Terrestris,</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 oleracea,</i> <i>Echinochloa crusgalli,</i> <i>Cyanotis spp.,</i> <i>Amaranthus spp.,</i> <i>Convolvulus spp.,</i> <i>Digitaria spp.</i>	1.6-3.2kg	2.0-4.0 kg.	600	-
Grapes	<i>Cleome viscosa,</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> <i>Ipomoea spp,</i> <i>Xanthium strumarium,</i> <i>Fumaria parviflora,</i>	1.6kg	2.0 kg.	625	-

	<i>Asphodelus tenuifolius</i> , <i>Medicago denticulata</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>	22-26 g	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 g	26.2-30.9	-	77
Ethalfuralin 35.65% w/w EC (36% EC)					
Cotton	<i>Echinochloa colona</i> , <i>Dactyloctenium aegyptium</i> , <i>Chenopodium album</i>	720	2000	500	107
Potato	<i>Phalaris minor</i>	720	2000	500	92
Soyabean	<i>Echinochloa colona</i> , <i>Digera arvensis</i> , <i>Panicum maximum</i> , <i>Trianthema portulacastrum</i>	720	2000	500	107
Ethoxysulfuron 15% WDG					
Transplanted Rice	<i>Fimbristylis miliacea</i> , <i>Cyperus iria</i> , <i>Cyperus difformis</i> , <i>Scirpus sp.</i> , <i>Eclipta alba</i> , <i>Marsilea quadrifoliata</i> , <i>Ammania baccifera</i> , <i>Monochoria vaginallis</i>	12.5-15 g	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 g	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>	100 g	1111 ml (15-20 DAS)	250-300	100
Rice (enticulate)	<i>Echinochloa crusgalli</i> , <i>Echinochloa colona</i>	56.25 g	625 ml (10-15 DAT)	300-375	70
Blackgram	<i>Echinochloa crusgalli</i> , <i>Echinochloa colona</i> <i>Digitaria sp.</i> <i>Dactyloctenium aegyptium</i>	56.25-67.5 g	625-750 ml (15-20 DAS)	375-500	43
Cotton	<i>Echinochloa sp.</i> <i>Eleusine indica</i> <i>Dactyloctenium aegyptium</i> <i>Eragrostis minor</i>	67.5 g	750 ml (20 -25 DAS)	375-500	87
Onion	<i>Echinochloa colonum</i> <i>Dactyloctenium aegyptium</i>	78.75	875	375	10
Groundnut	<i>Echinochloa spp.</i>	78.75	875	375	89
Jute	<i>Echinochloa spp.</i>	67.5	750	375	5
Fenoxaprop-p-ethyl 10% EC					
Wheat	<i>Phalaris minor</i>	100-120 g	1.0-1.20 kg	250-300	110
Fenoxaprop-p-ethyl 6.7% w/w EC					
Rice (Transplanted & Direct Seeded)	<i>Echinochloa sp.</i>	56.6-60.38 g	812.5-875	375-500	61
Florpyrauxifen-benzyl 2.7% w/w EC					
Transplanted Rice	<i>Echinochloa crusgalli</i> , <i>Cyperus difformis</i> , <i>Cyperus iria</i> , <i>Ammania baccifera</i>	25-31.25	1000-1250	300-500	73
Direct seeded rice	<i>Echinochloa crusgalli</i> , <i>Echinochloa colona</i> , <i>Cyperus difformis</i> <i>Cyperus iria</i> , <i>Eclipta alba</i>	31.25-37.5	1250-1500	300-500	85
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>Dactyloctenium aegyptium</i> , <i>Bracharia reptans</i> , <i>Dinebra arabica</i>	167	1250	500	104
Groundnut	<i>Echinochloa colonum</i> , <i>Digitaria longiflora</i> , <i>Eleusine indica</i> , <i>Dactyloctenium aegyptium</i> , <i>Bracharia reptans</i> , <i>Chloris barbata</i> , <i>Aeluropus villosus</i> , <i>Indigofera glandulosa</i>	167	1250	500	59
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 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> ,	1.0-1.5 kg	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 g	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>	324 to 360	675 to 750 ml/ha		71 days

	<i>Trianthema spp.</i>				
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 g	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 aegyptium</i>	375-450 g	2.5-3.0	500	96
Glufosinate ammonium 50 % WG					
Non-crop area	<i>Digitaria sanguinalis,</i> <i>Dactyloctenium aegyptium,</i> <i>Eleusine indica,</i> <i>Echinochloa colonum,</i> <i>Cynodon dactylon,</i> <i>Parthenium hysterophorus,</i> <i>Phyllanthus niruri,</i> <i>Euphorbia hirta,</i> <i>Ageratum conyzoides,</i> <i>Cyperus rotundus</i>	500	1000	500	-
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 hysterophorus</i> <i>Acalypha indica</i> <i>Digeria arvensis</i> <i>Phyllanthus niruri</i> <i>Euphorbia enticulat</i> <i>Corchorus actangularis</i> <i>Saccharum spontanium</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					
Non-cropped area	<i>Sorghum halepense</i> and other dicot & monocot weeds in general	0.820-1.230 kg	2.0-3.0	500	-
Tea	<i>Arundinella bengalensis</i> <i>Axonopus compressus</i> <i>Cynodon dactylon</i> <i>Imperata cylindrica</i> <i>Kalm grass</i> <i>Paspalum scrobiculatum</i> <i>Polygonum perfoliatum</i>	0.820-1.230 kg	2.0-3.0	450	21
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>Iscaemum 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</i> <i>Digera arvensis</i> <i>Cynondon dactylon</i> <i>Cyperus rotunedus</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
Glyphosate Potassium Salt 41.60 % w/w SL (Equivalent to 54% w/v)					
Non cropped area	<i>Digitaria sanguinalis</i> (Crab grass), <i>Cynodon dactylon</i> (Bermuda grass), <i>Digera arvensis</i> , <i>Sorghum halepense</i> (Johnson grass), <i>Amaranthus spinosus</i> (Pigweed)	2160-2430	4000-4500	500	-
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 arabica</i> <i>Echinochloa spp.</i> <i>Eleusine indica</i> <i>Eragrostis spp.</i> <i>Panicum isochmi</i>	108-135	1000-1250	500	60
Onion	<i>Dinebra retroflexa</i> <i>Echinochloa colona</i> <i>Brachiaria eruciformis</i> <i>Panicum isochmi</i> <i>Cynodon dactylon</i>	108	1000	500	78
Blackgram	<i>Echinochloa colona</i> <i>Dactyloctenium aegyptium</i> <i>Cynodon dactylon</i> <i>Digitaria sanguinalis</i>	108	1000	500	60
Mentha	<i>Echinochloa colona</i> <i>Dactyloctenium aegyptium</i> <i>Digitaria sanguinalis</i> <i>Brachiaria mutica</i> <i>Eleusine indica</i>	108	1000	500	7
Cotton	<i>Echinochloa colona</i> <i>Cynodon dactylon</i> <i>Dactyloctenium aegyptium</i>	108	1000	375	86
Imazethapyr 10% SL					
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 arabica</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 g a.i./ha+ 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 g a.i./ha+ MSO adjuvant @2 ml/litre of water	750 ml+MSO adjuvant @ 2ml/ha of water.	375	46
Red gram	<i>Digitaria sanguinalis</i> <i>Dinebra retroflexa</i>	75 g a.i./ha+ MSO adjuvant @2 ml/litre of water	750 ml+MSO adjuvant @ 2ml/ha of water.	375	125
Direct seeded Imazethapyr- Herbicide Tolerant Rice	<i>Echinochloa colona</i> , <i>Cyperus iria</i>	100	1000	375-500	75
Imazethapyr 70% WG + Surfactant					
Soybean (2-3 leaf stage of weeds)	<i>Cyperus rotundus</i> <i>Echinochloa spp.</i> <i>Dinebra 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>	1.0 kg	2.0	750	-
Isoproturon 75% WP					
Wheat	<i>Phalaris minor</i> <i>Avena fatua</i> <i>Poa annua</i>	1.0 kg	1.33 kg.	750	60 days
MCPA, Amine salt 40% WSC					

Transplanted Rice	<i>Cyperus rotundus</i> <i>Impmoea 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 denticulate</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>Sacchilepis Dactyloctenium</i> , <i>Digitaria, panicum</i>	100 g	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>	1.05-1.4 kg	1.5-2.0 kg.	700-1000	100

Wheat (Post –EM 30 DAS)	<i>Polypogon monspeliensis</i> , <i>Anagallis arvensis</i> , <i>Chenopodium album</i>	1.05-1.75 kg	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>Cyperus campestris</i> , <i>Eragrostis spp.</i> , <i>Digitaria spp.</i> , <i>Cyperus esculentus</i> , <i>Borreria spp.</i>	0.350-0.525 kg	0.5-0.75 kg	750-1000	30
Wheat	<i>Phalaris minor</i> , <i>Chenopodium album</i> , <i>Melilotus spp.</i>	Medium soil- 0.175 kg Heavy soil - 0.21 kg	0.25 kg 0.30 kg	500-750	120
Sugarcane	<i>Cyperus rotundus</i> , <i>Cynodon dactylon</i> , <i>Asphodelus fistulosus</i> , <i>Chenopodium album</i> , <i>Convolvulus arvensis</i> , <i>Portulaca oleracea</i> , <i>Anagallis arvensis</i> , <i>Cichorium intybus</i> , <i>Echinochloa colonum</i> , <i>Dactyloctenium aegyptium</i> , <i>Parthenium hysterophorus</i> , <i>Commelina spp.</i>	Pre- emergence: 1.05 - 2.0 (At first workable spray condition or 3-5 DAP) Or Post- emergence: 1.05 - 1.4 (25 - 30 DAP)	1.5-2.0 1.5-3.0	750-1000 750-1000	60 60
Potato	<i>Chenopodium album</i> , <i>Trianthema monogyna</i> , <i>Parthenium hysterophorus</i> ,	0.525 (Pre-	0.750	750-1000	30

	<i>Fumaria parviflora</i> , <i>Melilotus spp.</i> , <i>Phalaris minor</i>	emergence 3-4 DAP or Post-emergence between emergence and time when the first potato plants have reached height of 5 cm)			
Tomato	<i>Trianthema portulacastrum</i> , <i>Dactyloctenium aegyptium</i> , <i>Gynandropsis pentaphylla</i> , <i>Amaranthus viridis</i> , <i>Portulaca oleracea</i> , <i>Digera arvensis</i> , <i>Euphorbia frustrate</i> , <i>Echinochloa colonum</i> , <i>Ageratum conyzoides</i> , <i>Eleusine indica</i> , <i>Setaria glauca</i> , <i>Commelina benghalensis</i>	0.525 (Pre-planting a week before transplantin g or Post planting 15 DAT)	0.750	750-1000	30
Metribuzin 70% WG					
Sugarcane	<i>Cyperus rotundus</i> , <i>Cynodon dactylon</i> , <i>Chenopodium album</i> , <i>Echinochloa crusgalli</i> , <i>Parthenium hysterophorus</i>	1.4-2.0	2.0-3.0	500-600	309
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 g	20 gm	500-600 + Surfactant (Iso-Octyl Phenoxy- Poloxethan ol 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 g	20 gm	500-600	60

Sugarcane	<i>Cyperus esculentus</i> , <i>Amaranthus viridis</i> , <i>Portulaca oleracea</i> , <i>Parthenium hysterophorus</i> , <i>Trianthema spp.</i> , <i>Cleome viscosa</i> , <i>Solanum spp.</i> , <i>Commelina benghalensis</i> , <i>Euphorbia spp.</i> , <i>Digera spp.</i>	6	30	500-600 (Add non - ionic surfactant Iso-octyl- phenoxy - poloxethan ol 12.5% @ 2ml per liter of spray volume (0.2%)	346
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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 g	20 gm.	500-600 + Surfactan t (Iso- Octyl Phenoxy - Poloxetha nol 12.5%) @0.2%	76
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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 junceum</i> <i>Commelina benghalensis</i> <i>Ammania baccifera</i> <i>Sphenoclea zeylanica</i> <i>Caesulia axillaries.</i>	4 g	20 gm.	500-600 + Surfactan t (Iso- Octyl Phenoxy - Poloxetha nol 12.5%) @0.2%	71
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Sugarcane	<i>Amaranthus viridis</i> , <i>Ipomoea spp.</i> , <i>Euphorbia hirta</i> , <i>Phyllanthus niruri</i> , <i>Cleome viscosa</i> , <i>Commelina benghalensis</i> , <i>Trianthema spp.</i> , <i>Portulaca oleracea</i>	6	30g + Non- ionic surfactant @ 2 ml/l of water	500	346
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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> (Hoora grass) <i>Rotala spp.</i>	60-75	150 3 DAT	500	65
Oxadiargyl 80% WP					
Sunflower	<i>Echinochloa colonum</i> <i>Dactyloctenium aegyptium</i>	240	300	500	81
Transplanted Rice	<i>Echinochloa crusgalli</i> <i>E. Colonom</i> , <i>Cyperus iria</i> , <i>C. difformis</i> , <i>Eclipta alba</i> , <i>Ludwigia quadrifoliata</i>	100	125	500	97
Cabbage	<i>Cynodon dactylon</i> , <i>Digitaria sanguinalis</i>	200	250	500	100
Oxadiargyl 6% EC					
Transplanted Rice	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> ,	100 g	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 Remex sp.</i> , <i>Melilotus indica</i> , <i>Asphodelus tenuifolius</i>	60-75 g	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> <i>E. colonum</i> <i>Cyperus iria</i> <i>C. difformis</i> <i>Marsilea quadrifoliata</i> , <i>Eclipta alba</i> , <i>Ludwigia sp.</i>	0.5 kg	2.0 ltrs.	500	-
Oxyfluorfen 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 miliacea</i> , <i>Marsilea spp</i>	100-150 g	30-40 kg	-	-
Oxyfluorfen 20% DF					
Onion	<i>Echinochloa spp.</i> , <i>Cyperus spp.</i> , <i>Chenopodium album</i> <i>Amaranthus viridis</i>	150-200 g	750-1000 g	500	91
Oxyfluorfen 23.5% EC					
Rice (Direct sown as pre-emergence)	<i>Echinochloa sp.</i> <i>Cyperus iria</i> , <i>Eclipta alba</i> ,	150-240 g	650-1000	500	-
Tea	<i>Digitaria</i> , <i>Imperata</i> , <i>Paspalum</i> , <i>Borreria hispida</i>	150-250 g	650-1000	500-750	15 days
Onion	<i>Chenopodium album</i> , <i>Amaranthus viridis</i>	100-200 g	425-850	500-750	-
Mentha	<i>Echinochloa colona</i> , <i>Cyperus spp.</i> , <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>	206	904.3	500	10
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	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)		application use 1 lite)
Potato (Post-emergence overall / inter- row application at 5-10 % emergence)	<i>Chenopodium sp.</i> <i>Anagallis 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 conyzoides</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/transplan ting for controlling standing weeds]	<i>Echinochloa crusgalli</i> , <i>Cyperus iria</i> , <i>Ageratum conyzoides</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 spp.</i> , <i>Echinochloa spp.</i>	0.2-0.5 kg	0.8-2.0 ltrs	500	90-120
Maize (Post-emergence	<i>Cyperus iria</i> , <i>Cyperus rotundus</i> ,		0.8-2.0 ltrs	500	90-120

directed inter row application at 2-3 leaf stage of weeds)	<i>Commelina benghalensis</i> , <i>Amaranthus spp.</i> , <i>Echinochloa spp.</i> , <i>Trianthema monogyna</i>	0.2-0.5 kg			
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
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>Echinochloa 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 1-1.5 kg	3.3 –5 Ltrs.	500-700	
Cotton	<i>Echinochloa spp.</i> <i>Euphorbia hirta</i> <i>Amaranthus viridis</i> <i>Portulaca oleracea</i> <i>Trianthema spp.</i> <i>Eleusine indica</i>	0.75-1.25 kg	2.5-4.165 ltrs	500-700	150

Soybean	<i>Echinochloa spp.</i> , <i>Euphorbia spp.</i> , <i>Amarnanthus viridis</i> , <i>Portulaca oleracea</i> , <i>Trianthema spp.</i> , <i>Eleusine indica</i>	0.75-1.0 kg	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>Ludwigra 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 arabica</i> <i>Digitaria sanguinalis</i> <i>Brachiaria mutica</i> <i>Dactyloctenium aegyptium</i> <i>Portulaca oleracea</i> <i>Amaranthus viridis</i> <i>Euphorbia geniculata</i> <i>Cleome viscose</i>	580.5- 677.25 g	1500-1750	500	40
Cotton	<i>Digitaria sanguinalis</i> , <i>Echinochloa colonum</i> , <i>Dinebra arabica</i> , <i>Brachiaria mutica</i> , <i>Eragrostis minor</i> , <i>Lantana camara</i> , <i>Portulaca oleracea</i> , <i>Commelina communis</i> , <i>Amaranthus spp.</i> , <i>Parthenium hysterophorus</i>	580.5- 677.25 g	1500-1750	500	101

Chilli	<i>Echinochloa colonum</i> , <i>Dinebra arabica</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>Physalis minima</i>	580.5- 677.25 g	1500-1750	500	98
Onion	<i>Dactyloctenium aegyptium</i> , <i>Digitaria sanguinalis</i> , <i>Echinochloa spp.</i> , <i>Dinebra arabica</i> , <i>Portulaca oleracea</i> , <i>Euphorbia geniculata</i> , <i>Commelina spp.</i> , <i>Digera arvensis</i> , <i>Amaranthus viridis</i> , <i>Trianthema portulacastrum</i>	580.50- 677.25 g	1500-1750	500	104
Groundnut	<i>Echinochloa colonum</i> , <i>Digitaria marginata</i> , <i>Commelina bengalensis</i> , <i>Portulaca oleracea</i>	580.5- 677.25 g	1500-1750	375	103
Mustard	<i>Chenopodium album</i> , <i>Digera arvensis</i> , <i>Amaranthus spp.</i>	338.625 g	875	375-400	111
Cumin	<i>Portulaca oleracea</i> , <i>Digitaria spp.</i> , <i>Digera arvensis</i>	580.5- 677.25 g	1500- 1750	375-500	91
Pinoxaden 5.1% EC					
Wheat	<i>Phalaris minor</i> , <i>Avena ludoviciana</i>	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>Sphenoclea 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	250-500	60
Rice (Nursery)	<i>Cyperus difformis</i> , <i>Eclipta alba</i>	22.5	93.75	300	60

Penoxsulam 2.67% OD						
Rice (Transplanted Rice)	Grasses	<i>Echinochloa Colona</i> <i>Echinochloa crusagalli</i>	22.5-25	900-1000 ml/ha	300-500	60
	Sedges	<i>Cyperus difformis</i>				
	Broad Leaved Weeds	<i>Caesulia axillaris</i>				
Rice (Direct Seeded Rice)	Grasses	<i>Echinochloa colona</i>	25	1000	375	85
	Sedges	<i>Cyperus difformis</i>				
	Broad Leaved Weeds	<i>Eclipta alba</i>				
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>		0.45-0.60 kg	1.5-2.0 ltr.	500	110
Pretilachlor 50% EC						
Transplanted Rice	<i>Echinochloa crusgalli</i> <i>Echiniochloa 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
Jute	<i>Digitaria sanguinalis</i> , <i>Echinochloa colonum</i> , <i>Eleusine indica</i>	62.5	625	500	87
Cotton	<i>Echinochloa colonum</i> , <i>Digitaria sanguinalis</i> , <i>Dactyloctenium aegyptium</i> , <i>Cynodon dactylon</i>	62.5	625	500	115
Groundnut	<i>Echinochloa colonum</i> , <i>Digitaria sanguinalis</i> , <i>Dactyloctenium aegyptium</i> , <i>Eleusine indica</i>	62.5	625	500	97
Propanil 35% EC					
Rice	<i>Barnyard grass</i> (<i>Echinochloa crusgalli</i> , <i>E. colonum</i>), <i>Nut grass</i> (<i>Cyperus difformis</i> , <i>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),	2000-3000	2500-3750	375	84

	<i>Eclipta alba</i> (False daisy), <i>Commelina spp.</i> , <i>Ludwigia parviflora</i> (water crest), <i>Cyperus spp.</i>				
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
Pyribenzoxim 5% EC w/w					
Transplanted paddy	<i>Alternanthera sessilis</i> , <i>Cyperus difformis</i> , <i>Cyperus iria</i> , <i>Echinochloa colona</i>	30	600	300	79
Direct seeded paddy	<i>Alternanthera sessilis</i> , <i>Cyperus iria</i> , <i>Echinochloa colona</i> , <i>Parthenium hysterophorus</i>	30	600	300	89
Nursery paddy	<i>Cyperus iria</i> , <i>Echinochloa colona</i> , <i>Eclipta prostrata</i>	30	600	300	-
Pyrithiobac 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
Pyroxasulfone 85% w/w WG					
Wheat	<i>Phalaris minor</i>	127.5 g	150 ml	500	131
Maize	<i>Echinochloa crusgalli</i> , <i>Eleusine indica</i> , <i>Phyllanthus niruri</i>	127.5 g	150 ml	500	103
Soybean	<i>Echinochloa colona</i> , <i>Celosia argentia</i> , <i>Trianthema portulacastrum</i> , <i>Amaranthus viridis</i> , <i>Digera arvensis</i>	127.5 g	150 ml	500	94
Pyrazosulfuron Ethyl 70% WDG					

Transplanted Rice	<i>Echinichloa spp.</i> , <i>Cyperus rotundus</i> , <i>Ludwigia parviflora</i>	21	30	500	43
Quinclorac 250g/l SC					
Rice	<i>Echinochloa spp.</i> (Barnyard grass), <i>Panicum repens</i> (Creeping panic)	187.5 - 250	750-1000	500	78
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 (eragrostis ipilosa)</i> , <i>Crab grass (Digitaria sanguinalis/ wild finger/ Makra grass Viper grass, Barnyard grass, sanwa/Samel, Brown top millet</i>	37.5-45.0	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 indca</i> <i>Cynodon dactylon</i> <i>Chloris barbata</i> <i>Echinocloa 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>Commuenila 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 spp.</i> , <i>Digera spp.</i> , <i>Amaranthus spp.</i> , <i>Phyllanthus spp.</i> , <i>Euphorbia spp.</i> , <i>Dactyloctenium spp.</i> , <i>Digitaria spp.</i> , <i>Brachiaria spp.</i> , <i>Echinochloa spp.</i> ,	720	1500	500	306

	<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/h a	110
Tembotrione 34.4% SC					
Maize	<i>Echinochloa spp.</i> , <i>Trianthema portulacastrum</i> , <i>Brachiaria spp.</i>	120 g	286 ml	500	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</i> <i>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 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>Eleusine indica</i> , <i>Digitaria sanguinalis</i> , <i>Dactyloctenium aegyptium</i> , <i>Echinochloa spp.</i> , <i>Chloris barbata</i> ,	25.2 to 33.6 g a.i./ha + MSO adjuvant @	75 to 100 ml + MSO adjuvant @ 2 ml/l of	375	83

	<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>Celosia argentea</i>	2 ml/l of water	Water		
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HERBICIDE COMBINATIONS

Ametryn 73.1% w/w + Trifloxysulfuron sodium 1.8% w/w WG					
Sugarcane	<i>Echinochloa colona</i> , <i>Cynodon dactylon</i> , <i>Cyperus rotundus</i> , <i>Amaranthus viridis</i> , <i>Trianthema spp.</i> , <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
2,4-D sodium salt 44% + Metribuzin 35% + Pyrazosulfuron ethyl 1.0% WDG					
Sugarcane	<i>Echinochloa spp.</i> , <i>Eleusine indica</i> , <i>Brachiaria spp.</i> , <i>Digitaria spp.</i> , <i>Dactyloctenium aegyptium</i> , <i>Eclipta alba</i> , <i>Chenopodium album</i> , <i>Physalis minima</i> , <i>Portulaca oleracea</i> , <i>Parthenium hysterophorus</i> , <i>Cyperus spp.</i>	1320 + 1050 + 30	3000	500	249
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
Bensulfuron-Methyl 4.8 % + Pretilachlor 48% OD					

Transplanted Rice	<i>Echinochloa crusgalli</i> , <i>Echinochloa colonum</i> , <i>Cynodon doctylon</i> , <i>Cyperus iria</i> , <i>Cyperus difformis</i> , <i>Ludwigia parviflora</i> , <i>Eclipta alba</i> , <i>Monochoria vaginalis</i> , <i>Ammania boccifera</i>	60+600	1250	375	102
Bispyribac sodium 2% + 2,4-D sodium salt 54.3% w/w SP					
Transplanted Rice	<i>Echinochloa colonum</i> , <i>Digitaria sanguinalis</i> , <i>Cyperus iria</i> , <i>Ammania baccifera</i> , <i>Alternanthera philoxeroides</i> , <i>Ludwigia parviflora</i> , <i>Marsilea quadrifolia</i>	25.0 + 678.75	1250 + 625 ml surfactant	500	79
Direct Seeded Rice	<i>Echinochloa colonum</i> , <i>Digitariasanguinalis</i> , <i>Cyperus iria</i> , <i>Ammania baccifera</i> , <i>Alternanthera philoxeroides</i> , <i>Ludwigia parviflora</i> , <i>Marsilea quadrifolia</i>	25.0 + 678.75	1250 + 625 ml surfactant	500	79
Bispyribac Sodium 9.5% + Penoxsulam 7.8% w/v SC					
Paddy (Transplanted rice)	<i>Echinochloa colonum</i> , <i>Echinochloa crusgalli</i> , <i>Cynodon dactylon</i> , <i>Ludwigia parviflora</i> , <i>Ammaniabaccifera</i> , <i>Eclipta alba</i> , <i>Sphenoclea zeylanica</i> , <i>Alternanthera philoxeroides</i> , <i>Monochoria vaginalis</i> , <i>Cyperus iria</i>	23.75 + 19.5	250	500	78
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
Bispyribac Sodium 38% + Chlorimuron ethyl 2.5%+ Metsulfuron Methyl 2.5% (w/w) WG					
Rice (Transplanted)	<i>Echinochloa colonum</i> , <i>Cyperus difformis</i> , <i>Fimbristylis miliacea</i> , <i>Eclipta alba</i> , <i>Ludwigia parviflora</i> ,	43	100	500	64

	<i>Sphenoclea zaylenica</i> , <i>Scirpus Sp.</i>				
Rice (Direct Seeded)	<i>Echinochloa colonum</i> , <i>Cyperus difformis</i> , <i>Eclipta alba</i> , <i>Ludwigia parviflora</i> , <i>Sphenoclea zaylenica</i> , <i>Scirpus Sp.</i>	43	100	500	64
Bixlozone 50% + Metribuzin 10% WG					
Wheat	<i>Phalaris minor</i> , <i>Poa annua</i> , <i>Medicago denticulata</i> , <i>Rumex dentatus</i> , <i>Coronopus didymus</i> , <i>Chenopodium album</i>	625+125 - 750+150	1250 - 1500	500	120
Carfentrazone ethyl 0.43% + Glyphosate 30.82% EW					
Tea	<i>Ageratum conyzoides</i> <i>Bidens pilosa</i> <i>Borreria sp.</i> <i>Crassocephalum Crepidioides</i> <i>Cynodon sp.</i> <i>Cyperus sp.</i> <i>Digitaria sp.</i> <i>Eleusine indica</i> <i>Mimosa sp.</i> <i>Mitracarpus 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>Cyperus sp.</i> <i>Digitaria sp.</i> <i>Eleusine indica</i> <i>Imperata cylindrica</i> <i>Lantana camara</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 12.25% + Oxyfluorfen 14.7% EC					

Onion	<i>Echinochloa colona</i> , <i>Dinebra arabica</i> , <i>Digitaria sanguinalis</i> , <i>Chenopodium album</i> , <i>Amaranthus viridis</i> , <i>Cyperus rotundus</i>	125 + 150	1000	500	55
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 spraying)	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 retroflexa</i>	54+120	600	300	120
Clomazone 20%+2,4-D Ethyl Ester 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 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>Brachiaria spp.</i> , <i>Dactyloctenium aegyptium</i> , <i>Echinochloa spp.</i> , <i>Digitaria spp.</i> ,	563 + 525	2500	500L	307 days

	<i>Cynodon dactylon</i>				
Diclosulam 0.9% + Pendimethalin 35% SE					
Groundnut (Pre-emergence)	Grasses: <i>Echinochloa colona</i> , <i>Dactyloctenium aegyptium</i> , <i>Digitaria sanguinalis</i> , Sedges: <i>Cyperus rotundus</i> Broad leaf weeds: <i>Commelina benghalensis</i> , <i>Digera arvensis</i> , <i>Trianthema portulacastrum</i> , <i>Amaranthus viridis</i> , <i>Euphorbia hirta</i>	22.5 + 875	2500	500	102
Soybean (Pre-emergence)	Grasses: <i>Echinochloa colona</i> , <i>Dactyloctenium aegyptium</i> , <i>Digitaria sanguinalis</i> , <i>Eleusine indica</i> Sedges: <i>Cyperus iria</i> Broad leaf weeds: <i>Commelina benghalensis</i> , <i>Digera arvensis</i> , <i>Trianthema portulacastrum</i> , <i>Amaranthus viridis</i> , <i>Euphorbia hirta</i>	22.5 + 875	2500	500	107
Soybean (Pre-plant incorporation)	Grasses: <i>Echinochloa colona</i> , <i>Dactyloctenium aegyptium</i> , <i>Digitaria sanguinalis</i> , <i>Eleusine indica</i> Sedges: <i>Cyperus iria</i> Broad leaf weeds: <i>Commelina benghalensis</i> , <i>Digera arvensis</i> , <i>Trianthema portulacastrum</i> , <i>Amaranthus viridis</i> , <i>Euphorbia hirta</i>	22.5 + 875	2500	500	107
Diuron 25.6% w/w + Glyphosate 14.4% w/w + Oxyfluorfen 11.5% w/w SC					
Non-crop area	<i>Cyperus rotundus</i> , <i>Digitaria sanguinalis</i> , <i>Cynodon dactylon</i> , <i>Eleusine indica</i> , <i>Parthenium hysterophorus</i> , <i>Abutilon indicum</i> ,	431.25 + 960 + 540	3750	500	-

	<i>Ageratum conyzoides</i>				
Fenoxaprop-p-Ethyl 5% + Chlorimuron Ethyl 0.6% + Pretilachlor 50 % ME					
Transplanted paddy	<i>Echinochloa crusgalli</i> , <i>Cyperus difformis</i> , <i>Panicum repens</i> , <i>Eclipta alba</i> , <i>Fimbristylis miliacea</i> , <i>Ludwigia parviflora</i> , <i>Commelina benghalensis</i>	50+6+500	1000	500	76
Fenoxaprop-p-ethyl 6% + Chlorimuron ethyl 0.9% + Imazethapyr 10% SC					
Soybean	<i>Echinochloa colonum</i> , <i>Echinochloa crusgalli</i> , <i>Cyperus rotundus</i> , <i>Cyperus difformis</i> , <i>Euphorbia hirta</i> , <i>Eclipta alba</i> , <i>Commelina benghalensis</i> , <i>Digera arvensis</i> , <i>Phyllanthus niruri</i>	60+9+100	1000	500	94
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
Fluthiacet-methyl 2.5% + Quizalofop-ethyl 10% EC					
Soybean	Day flower (<i>Commelina benghalensis</i>) Copper leaf (<i>Acalypha indica</i>) False amaranth (<i>Digera arvensis</i>) Carrot grass (<i>Parthenium hysterophorus</i>) Jungle rice (<i>Echinochloa colona</i>) Viper grass (<i>Dinebra retroflexa</i>) Crab grass (<i>Digitaria sanguinalis</i>)	12.5 + 50	500	500	67
Florpyrauxifen-benzyl 1.31% w/w +Penoxsulam 2.1% w/w OD					

Transplanted Rice	<i>Echinochloa colona</i> , <i>Echinochloa crusgalli</i> , <i>Cyperus difformis</i> , <i>Cyperus iria</i> , <i>Eclipta alba</i> , <i>Ludwigia parviflora</i> , <i>Ammania baccifera</i>	15.63+25 g	1250	375-500	83
Direct seeded rice	<i>Echinochloa colona</i> , <i>Echinochloa crusgalli</i> , <i>Cyperus difformis</i> , <i>Cyperus iria</i> , <i>Eclipta alba</i> , <i>Ludwigia parviflora</i> , <i>Commelina communis</i>	15.63+25 g	1250	375-500	83
Florpyrauxifen-benzyl 2.13% w/w + Cyhalofop-butyl 10.64% w/w EC					
Transplanted Rice	<i>Echinochloa colona</i> , <i>Echinochloa crusgalli</i> , <i>Leptochloa Chinensis</i> , <i>Cyperus rotundus</i> , <i>Ammannia baccifera</i> , <i>Eclipta alba</i> , <i>Ludwigia parviflora</i>	150	1250	375-500	67
Direct seeded rice	<i>Echinochloa colona</i> , <i>Echinochloa crusgalli</i> , <i>Leptochloa chinensis</i> , <i>Cyperus difformis</i> , <i>Cyperus iria</i> , <i>Eclipta alba</i> , <i>Ludwigia parviflora</i> , <i>Monochoria vaginalis</i>	150-180	1250-1500	375-500	92
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>	250	1000	500	82

	<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>				
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
Fomesafen 12.5% +Quizalofop ethyl 4.68% EC					
Groundnut	Narrow leaf weeds: <i>Dactyloctenium aegyptium</i> , <i>Eleusine indica</i> , <i>Digitaria sanguinalis</i> , <i>Echinochloa crusgalli</i> , Broad leaf weeds: <i>Trianthema monogyna</i> , <i>Phyllanthus niruri</i> , <i>Acalypha indica</i> , <i>Boerhavia diffusa</i> , <i>Digera arvensis</i> , Sedges: <i>Cyperus rotundus</i>	125+46.8	1000	375	96
Soybean	Narrow leaf weeds: <i>Digitaria sanguinalis</i> , <i>Echinochloa crusgalli</i> , <i>Eleusine indica</i> , Broad leaf weeds: <i>Acalypha indica</i> , <i>Digera arvensis</i> , <i>Commelina benghalensis</i> , <i>Parthenium hysterophorus</i> , Sedges: <i>Cyperus rotundus</i>	125+46.8	1000	375	77
Fomesafen 17.5% + Clodinafop-propargyl 12.5% w/w ME					
Soybean	<i>Echinochloa colona</i> , <i>Digitaria sanguinalis</i> , <i>Dactyloctenium aegyptium</i> , <i>Eleusine indica</i> <i>Trianthema monogyna</i>	175 + 125	1000	500	101

Green gram	<i>Echinochloa colonum</i> , <i>Digitaria sanguinalis</i> , <i>Dactyloctenium aegyptium</i> , <i>Eleusine indica</i> , <i>Cynodon dactylon</i> <i>Trianthema monogyna</i> , <i>Phyllanthus niruri</i> , <i>Parthenium hysterophorus</i> , <i>Digera arvensis</i>	175 + 125	1000	500	83
Fomesafen 16.8% w/w + Propaquizafop 5.2% w/w ME					
Black gram	<i>Euphorbia hirta</i> , <i>Phyllanthus niruri</i> , <i>Amaranthus viridis</i> , <i>Commelina benghalensis</i> , <i>Cardanthera triflora</i> , <i>Dinebra retroflexa</i> , <i>Echinochloa colona</i>	210.0+65.0	1250	500	51
Green gram	<i>Euphorbia hirta</i> , <i>Phyllanthus niruri</i> , <i>Amaranthus viridis</i> , <i>Commelina benghalensis</i> , <i>Cardanthera triflora</i> , <i>Dinebra retroflexa</i> , <i>Echinochloa colona</i>	210.0+65.0	1250	500	46
Glufosinate ammonium 13.4% + Oxyfluorfen 4.8% w/w EW					
Tea	<i>Cynodon dactylon</i> , <i>Digitaria sanguinalis</i> , <i>Commelina benghalensis</i> , <i>Bidens biternata</i> , <i>Ageratum conyzoides</i>	420+150 g	3000	500	10
Glufosinate ammonium 14.3 % + Glyphosate (Isopropyl Ammonium) 18.04 % SL					
Non-crop area	Grassy weeds: <i>Axonopus compressus</i> (Carpet grass) <i>Digitaria sanguinalis</i> (Hairy crab grass), <i>Elusine indica</i> (Indian goosegrass), Broad Leaf weeds: <i>Parthenium hysterophorus</i> (Congress grass), <i>Ageratum conyzoides</i> (Goat weed), <i>Bidens pilosa</i> (Hairy beggarticks), <i>Cassia tora</i> (coffee pod),	400 + 505	2500	500	-

	<i>Phyllanthus niruri</i> (gale of the wind), <i>Commelina benghalensis</i> (Benghal dayflower), <i>Borreria hispida</i> (Shaggy button weed)				
Halosulfuron Methyl 5% + Atrazine 48% WG					
Maize	<i>Echinochloa</i> spp. <i>Digitaria sanguinalis</i> <i>Eleusine indica</i> <i>Trianthema monogyna</i> <i>Celosia argentia</i> <i>Cyperus rotundus</i>	56.25+540	1125	375	37
Halosulfuron methyl 6% + Metribuzin 50% WG					
Sugarcane	<i>Echinochloa</i> spp., <i>Eleusine indica</i> , <i>Digitaria sanguinalis</i> , <i>Brachiaria ramosa</i> , <i>Parthenium hysterophorus</i> , <i>Celosia argentia</i> , <i>Alternanthera</i> spp.	67.5 + 562.5	1125	375	247
Halauxifen-methyl 20.8% + Florasulam 20.0% w/w WG (with surfactant Polyglycol 26-2 N)					
Wheat	<i>Chenopodium album</i> <i>Rumex</i> sp. <i>Medicago denticulate</i> <i>Coronopus didymus</i>	12.76	31.23	375 (use along with surfactant Polyglycol 26-2 N at 750 ml/ha)	71
Halosulfuron Methyl 12% w/w+ Metribuzin 55% WG					
Sugarcane	<i>Digitaria sanguinalis</i> <i>Eleusine indica</i> <i>Cyperus rotundus</i> <i>Dactyloctenium aegyptium</i>	54+247.5	450	300	294
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>Ipomoea 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 Isopropyl ammonium 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	2500 to 3500	500 L	14
Grape	<i>Parthenium hysterophorus</i> , <i>Cyperus rotundus</i> , <i>Cynodon dactylon</i> , <i>Euphorbia sp.</i> , <i>Amaranthus sp.</i>	37.5+750 to 42.5+850	1875 to 2125	500	108
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>Digera 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 spp.</i> , <i>Digera 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 spp.</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	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 sp.</i> <i>Rumex sp.</i> <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 spp.</i> , <i>Cyperus spp.</i> <i>Digitaria sanguinalis</i> , <i>Echinochloa spp.</i> <i>Dactyloctenium aegyptium</i>	875 gm	3500	500	42
Sugarcane	<i>Trianthema spp.</i> <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 spp.</i> (Wild oat), <i>Chenopodium album</i> (Fat hen), <i>Melilotus sp.</i> (Sweet clover), <i>Medicago denticulate</i> (Toothed medic), <i>Rumex spp.</i> (Wild spinach), <i>Anagallis arvensis</i> (Blue Pimpernel)	210+60	500	375	92
Metribuzin 16.8% + 2,4-D Sodium Salt 56% WP					
Sugarcane	<i>Echinochloa spp.</i> , <i>Dactyloctenium aegyptium</i> , <i>Commelina benghalensis</i> , <i>Digera arvensis</i> , <i>Cynodon dactylon</i> , <i>Portulaca oleracea</i>	525+1750	3125	500	308
Metsulfuron Methyl 10% + Chlorimuron ethyl 10% WP					

Transplanted Rice (Pre-emergence application-3 DAT)	<i>Cyperus iria</i> , <i>Cyperus difformis</i> , <i>Fimbristylis miliaceae</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>	5+20	50	300	100
Oxadiargyl 1% + Pretilachlor 6% GR					
Transplanted Paddy	<i>Echinochloa crusgalli</i> , <i>Echinochloa colona</i> , <i>Cyperus difformis</i> , <i>Eclipta alba</i> , <i>Ludwigia parviflora</i> , <i>Marsilea quadrifolia</i>	100+ 600	10 kg	-	85
Oxyfluorfen 2.5% + Isopropyl amine salt of Glyphosate 41% w/w SC					
Tea	<i>Ageratum Conyzoides</i> <i>Cyperus spp.</i> <i>Borreria hispida</i> <i>Paspalum conjugatum</i> <i>Digitaria ciliaris</i>	50+820	2000	500L/ha.	14
Non Crop area	<i>Digitaria sanguinalis</i> (Crab grass) <i>Cynodon dactylon</i> (Dhoob grass) <i>Paspalum conjugatum</i> (Hilo grass) <i>Cyperus spp.</i> , (Purplenut sedge) <i>Digera arvensis</i> (False Amaranth)	78.125+128 1.25	3125	500	-
Pendimethalin 30%+ Imazethapyr 2% EC					

Soybean	<i>Echinochloa crusgalli</i> , <i>Digera arvensis</i> , <i>Commelina 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 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 g	2.5-3.0	500	123
Pendimethalin 24% + Oxyfluorfen 4.1% w/v ZE					
Onion	<i>Dinebra arabica</i> , <i>Echinochloa colona</i> , <i>Digitaria sanguinalis</i> , <i>Cynodon dactylon</i> , <i>Chenopodium album</i> , <i>Cyperus rotundus</i> , <i>Dactyloctenium aegyptium</i> , <i>Commelina benghalensis</i>	541.92 + 92.56	2258	500	90
Pendimethalin 38.4% + Pyrazosulfuron ethyl 0.85% ZC					
Transplanted Rice	<i>Echinochloa colona</i> (wild rice), <i>Echinochloa crus galli</i> (banyard grass), <i>Marsilea quadrifolia</i> (comrnnon water clover), <i>Ludwigia parvifl otz</i> (rvater crest), <i>Cyperus dffirmis</i> (comrnnon sedge)	900 +20	2000	375	86
Pendimethalin 40% + Metribuzin 8% EC					
Wheat	Grasses: <i>Phalaris minor</i> Broad leaf weeds: <i>Chenopodium album</i> , <i>Anagallis arvensis</i> , <i>Melilotus spp.</i> , <i>Medicago spp.</i>	1000+200	2500	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	2000 ml	750	60
Penoxsulam 1% + Pendimethalin 24% w/w SE					
Rice (Direct seeded Rice)	Grasses: <i>Echinochloa colona</i> Sedges: <i>Cyperus iria</i> Broad leaf weeds: <i>Ludwigia parviflora</i>	22.5-25.0 + 540-600	2250-2500	500	100
Penoxsulam 1.02 % + Cyhalofop-butyl 5.1% OD					
Rice (Direct seeded Rice)	<i>Echinochloa colona</i> <i>Echinochloa crusgalli</i> <i>Leptochloa chinensis</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 chinensis</i> <i>Caesulia axillaris</i> <i>Cyperus difformis</i> <i>Cyperus spp</i>	120-135	2000-2250	300-500	60
Penoxsulam 2% + Oxadiazon 21 % w/w SC					
Paddy (Transplanted rice)	<i>Echinochloa colona</i> , <i>Echinochloa crusgalli</i> , <i>Leptochloa chinensis</i> , <i>Cyperus iria</i> , <i>Cyperus difformis</i> , <i>Sphenoclea zeylanica</i> , <i>Eclipta alba</i>	20 + 210 (Pre emergence, 0-3 DAT)	1000	- (mix with adequate quantity of sand)	78
		Or 20 + 210 (Early Post-emergence or 9-12 DAT)	1000	300	78
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 Colonom</i> <i>Echinochloa Crusagalli</i> <i>Ludwigia parviflora</i> , <i>Eclipta alba</i> , <i>Leptochloa chinensis</i> , <i>Monochoria vaginalis</i> , <i>Cyperus difformis</i> , <i>Cyperus iria</i> , <i>Fimbristylis miliaceae</i>	600+15	10 kg	-	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>Eclipta alba</i> , <i>Abernantthera sessilis</i> , <i>Parthenium hysterophorus</i> , <i>Cyperus iria</i> <i>Cyperus difformis</i> , <i>Fimbristylis miliacea</i>	600+15	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>Dactyloctenium aegyptium</i> <i>Cynodon dactylan</i> Broad leaved weed <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 3.1 % w /w + Pendimethalin 34.0 % w/w ZC					
Cotton	<i>Digitaria sanguinalis</i> , <i>Commelina benghalensis</i> , <i>Amaranthus viridis</i> , <i>Parthenium hysterophorus</i> , <i>Celosia argentic</i>	649.25-742.00 g	1.75-2.00 lt	500	152
Pyriithiobac Sodium 6% w/w+ Quizalofop-ethyl 4% w/w EC					

Cotton	<i>Trianthema spp</i> <i>Digera spp</i> <i>Celosia argenia</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
Pyrithiobac Sodium 4.5 w/w % + Glyphosate 60% w/w SG					
Non crop area	<i>Echinochloa colonum</i> , <i>Cynodon dactylon</i> , <i>Cyperus rotundus</i> , <i>Trianthema</i> <i>portulacastrum</i> , <i>Parthenium</i> <i>hysterophorus</i> , <i>Phyllanthus niruri</i> , <i>Cleome viscosa</i> , <i>Eclipta alba</i>	882-903	1367-1400	500	-
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	<i>Acanthospermum sp.</i> (Aghada) <i>Alternanthera spp.</i> <i>Celosia argenia</i> <i>Borreria spp.</i> <i>Parthenium spp.</i> <i>Euphorbia geniculate</i> <i>Eragrostis pilosa E. viscosa</i> <i>Digitaria marginata</i> <i>Dactylactonium aegyptium</i> <i>Echinocloa spp.</i> <i>Cynodon dactylon</i> <i>Brachiaria ramosa</i>	Quizalofop ethyl 10% EC 37.5g Chlorimuro n ethyl 25% WP 9g Surfactant 0.2%	Quizalofop ethyl 10% EC 375ml Chlorimuro n 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 spp.</i> <i>Echinochloa spp.</i> <i>Cyperus rotundus</i> <i>Commelina bengalensis</i> <i>Digera arvensis</i>	32.81 + 65.625	437.5	375-500	90
Soybean	<i>Dinebra arabica</i> (Viper Grass), <i>Digitaria sanguinalis</i> (Crabgrass), <i>Dactyloctenium</i> <i>aegyptium</i> (Crowfoot grass), <i>Digera arvensis</i> (False amaranth), <i>Cynodon dactylon</i> (Bermuda grass), <i>Commelina</i> <i>benghalensis</i> (Tropical spiderwort)	32.81+65.62 5	437.5	500	75
Sulfentrazone 28% + Clomazone 30% WP					
Soybean	<i>Commelina benghalensis</i> , <i>Acalypha indica</i> , <i>Corchorus spp.</i> , <i>Euphorbia spp.</i> , <i>Parthenium hysterophorus</i> , <i>Echinochloa colonum</i> , <i>Brachiaria spp.</i> , <i>Dinebra spp.</i> , <i>Cyperus rotundus</i> .	350+375	1250	500	84
Sugarcane	<i>Amaranthus viridis</i> , <i>Trianthema spp.</i> , <i>Digera arvensis</i> , <i>Physalis spp.</i> , <i>Brachiaria spp.</i> , <i>Cynodon dactylon</i> , <i>Echinochloa spp.</i> , <i>Dactyloctenium aegyptium</i> , <i>Cyperus rotundus</i>	700+750	2500	500	302
Sulfosulfuron 75%+ Metsulfuron Methyl 5%WG					
Wheat	<i>Phalaris minor</i> , <i>Chenopodium sp.</i> , <i>Medicago denticulata</i> , <i>Coronopus didymus</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 Acifluorfen 16.5% + Clodinafop Propargyl 8% EC					

Soybean	<i>Acalypha indica</i> , <i>aegyptium</i> , <i>Alternanthera 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>	165+80	1000	500	61
Black gram	<i>Echinochloa colona</i> , <i>Eleusine indica</i> , <i>Phyllanthus niruri</i> , <i>Digera arvensis</i> , <i>Acalypha indica</i> , <i>Celosia argentea</i> , <i>Parthenium hysterophorus</i>	165+80	1000	500	54
Green gram	<i>Echinochloa colona</i> , <i>Eleusine indica</i> , <i>Dactyloctenium aegyptium</i> , <i>Commelina benghalensis</i> , <i>Amaranthus viridis</i> , <i>Digera arvensis</i> , <i>Trianthema monogyna</i>	165+80	1000	500	54
Groundnut	<i>Echinochloa colona</i> , <i>Eleusine indica</i> , <i>Digitaria sanguinalis</i> , <i>Euphorbia geniculata</i> , <i>Phyllanthus niruri</i> , <i>Digera arvensis</i>	165+80	1000	500	54
Topramezone 10 g/l + Atrazine 300 g/l SC					
Maize	<i>Parthenium hysterophorus</i> <i>Panicum spp.</i> <i>Amaranthus viridis</i> <i>Celosia argentea</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 oleracea</i>	930	3000	500	268

	<i>Alternanthera sessilis</i>				
Tembotrione 9% + Atrazine 45% WG					
Maize	<i>Digitaria sanguinalis</i> , <i>Echinochloa colona</i> , <i>Trianthema portulacastrum</i> , <i>Cleome viscosa</i> , <i>Amaranthus viridis</i>	135 +675	1500	500	81
Triafamone 20% + Ethoxysulfuron 10% WG					
Transplanted Rice	<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
Direct Seeded Rice	<i>Echinochloa colona</i> , <i>Cyperus rotundus</i> , <i>Digera arvensis</i> , <i>Commelina benghalensis</i>	44+22.5	225	300	83
Fomesafen 12.5% + Fenoxaprop-p-Ethyl 10% + Chlorimuron Ethyl 0.9% ME					
Soybean	<i>Echinochloa colona</i> , <i>Cyperus rotundus</i> , <i>Dactyloctenium aegyptium</i> , <i>Cynodon dactylon</i> , <i>Eclipta alba</i> , <i>Commelina benghalensis</i> , <i>Parthenium hysterophorus</i> , <i>Phyllanthus niruri</i>	125 + 100 + 9	1000	500	78
Paraquat Dichloride 24% + Oxyfluorfen 5% SC					
Tea	<i>Bidens pilosa</i> , <i>Cynodon dactylon</i> , <i>Imperata cylindrica</i> , <i>Ageratum conyzoides</i> , <i>Paspalum conjugatum</i> , <i>Cyperus rotundus</i> , <i>Commelina benghalensis</i>	720+150	3000	500	15
Paraquat Dichloride 7.50% + Glyphosate 30% SC					
Non-crop area	<i>Digitaria sanguinalis</i> , <i>Eleusine indica</i> , <i>Cynodon dactylon</i> , <i>Brachiaria mutica</i> , <i>Imperata cylindrica</i> , <i>Cyperus rotundus</i> , <i>Commelina benghalensis</i> , <i>Ageratum conyzoides</i> ,	225+900	3000	500	-

	<i>Axonopus compressus,</i> <i>Lantana camara,</i> <i>Paspalum conjugatum</i>				
Bispyribac Sodium 0.25% + Penoxsulam 0.25% + Pyrazosulfuron Ethyl 0.20% GR					
Transplanted rice	<i>Cyperus iria,</i> <i>Cyperus difformis,</i> <i>Fimbristylis miliacea,</i> <i>Monochoria vaginalis,</i> <i>Ludwigia parviflora,</i> <i>Ammania baccifera,</i> <i>Echinochloa colona,</i> <i>Sphenoclea zeylanica</i>	25 + 25 + 20	10000	-	73
Bispyribac Sodium 9.5% + Penoxsulam 7.8% w/v SC					
Paddy (Transplanted rice)	<i>Echinochloa colonum,</i> <i>Echinochloa crusgalli,</i> <i>Cynodon dactylon,</i> <i>Ludwigia parviflora,</i> <i>Ammania baccifera,</i> <i>Eclipta alba,</i> <i>Sphenoclea zeylanica,</i> <i>Alternanthera philoxeroides,</i> <i>Monochoria vaginalis,</i> <i>Cyperus iria</i>	23.75 + 19.5	250	500	78
Pretilachlor 27.4% w/w + Florpyrauxifen-benzyl 0.91% w/w EC					
Transplanted Rice	<i>Echinochloa colona.,</i> <i>Marsilea quadrifolia,</i> <i>Ludwigia parviflora,</i> <i>Monochoria vaginalis,</i> <i>Cyperus difformis,</i> <i>Eclipta alba</i>	600+20	2000	300	72
Direct Seeded Rice	<i>Echinochloa colona.,</i> <i>Marsilea quadrifolia,</i> <i>Ludwigia parviflora,</i> <i>Monochoria vaginalis,</i> <i>Cyperus difformis,</i> <i>Eclipta alba,</i> <i>Fimbristylis miliacea</i>	600+20	2000	300	95
