



**Government of India**  
**Ministry of Agriculture & Farmers Welfare**  
**Department of Agriculture & Farmers Welfare**  
**Directorate of Plant Protection, Quarantine & Storage**  
**Central Insecticides Board & Registration Committee**  
**N.H. IV, Faridabad-121 001 (Haryana)**

# **Major Uses of Pesticides**

**(Registered under the Insecticides Act, 1968)**

**(UPTO - 31/03/2024)**

**(Based on certificates issued)**

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

## **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)	Formulation in (gm/ml /Kg/ltr)		
<b>Ametryne 80% WG</b>					
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
<b>Anilofos 30% EC</b>					
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
<b>Anilofos 18% EC</b>					
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	-
<b>Anilophos 2 % G</b>					
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
<b>Atrazine 50% WP</b>					

Maize	<i>Trianthama 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 viscosa</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-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 sessillis</i> <i>Cyperus iria</i> , <i>Cyperus difformis</i> , <i>Fimbristylis miliacea</i> , <i>Scirpus royeli</i>	60 gm	100 gm	300 ltrs	88 days
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Transplanted Rice (post-em 20 DAT)	<i>Ammania baccifera</i> <i>Cyperus differmis</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
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**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>Echinocloa colanum</i> <i>Echinocloa crusgalli</i>	960	2000	500	62
Transplanted rice (Early POE: 2-3 leaf stage of weeds)	<i>Cyperus rotundus</i> <i>Cyperus diformis</i> <i>Ludwigia ssp.</i> <i>Eclipta alba</i> <i>Echinocloa colanum</i> <i>Echinocloa crusgalli</i>	960	2000	500	71

**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>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

**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> ,	23.75 + 19.5	250	500	78
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	<i>Eclipta alba,</i> <i>Sphenoclea zeylanica,</i> <i>Alternanthera philoxeroides,</i> <i>Monochoria vaginalis,</i> <i>Cyperus iria</i>			
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### 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 diffiformis,</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 zeylenica</i>	20-25 gm	200-250 ml	300 ltrs.	78

### Butachlor 50% EC

Paddy (transplanted)	<i>Cyperus diffiformis</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
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### 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 Colonum,</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
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### 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	-
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### **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>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>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 portulacastrum</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

<b>Cinmethylin 10% EC</b>					
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
<b>Clodinafop-Propargyl 12.25% + Oxyfluorfen 14.7% EC</b>					
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
<b>Clodinafop-propargyl 12.5% EC</b>					
Green gram	<i>Goosegrass (Eleusine indica)</i> , <i>Large crab grass (Digitaria sanguinalis)</i> , <i>Jungle rice (Echinochloa colona)</i> , <i>Crow foot grass (Dactyloctenium aegyptium)</i> , <i>Bermuda grass (Cynodon dactylon)</i> , <i>Running grass (Brachiaria reptans)</i>	125	1000	500	75
<b>Clodinafop- propargyl 15%WP</b>					
Wheat	<i>Phalaris minor</i> ( <i>Canary grass</i> )	60gm	400 gm.	375-400	110
<b>Clodinafop- propargyl 15% w/w DF</b>					
Wheat	<i>Phalaris minor</i> ( <i>Canary grass</i> )	60 gm	400	500	70
<b>Clethodim 25% EC</b>					
Soybean	<i>Grasses (Echinochloa spp,</i> <i>Digitaria spp and Cynodon dactylon)</i>	120-180	500-700 ml	500	62
<b>Clomazone 50%EC</b>					
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
<b>Cyhalofop Butyl 10% EC</b>					
Rice (Direct seeded)	( <i>Echinochloa spp.</i> ) <i>Barnyard grass</i>	75-80 gm	0.75-0.80ltr	500-600	90
<b>2,4-D Dimethyl Amine salt 58% SL</b>					
Maize	<i>Trianthema monogyna,</i> <i>Amaranthus sp.,</i> <i>Tribulus terristeris,</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>Melillotus alba,</i> <i>Vicia sativa,</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>Anagallis 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>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> , <i>Parthenium hysterophorus</i> , <i>Cyperus rotundus</i>	0.5-1.0 kg 2.65 kg 2.5 kg	0.86-1.72 4.56 4.30	600-700 300-400 300-400	15-20 15-20 -

**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> , <i>Amaranthus spinosus.</i> <i>Cleome chelidonii</i> , <i>Lagasca mollis</i>	1.0 kg	1.25	500	120(Pre-em) 90(post-em)
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>Anagallis 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. 4-8 Kg 1.8 kg	3.2-7.5 5-10 2.25	600-1000 500-600 500-600	- - -

**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>	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 sp.,</i> <i>Dactyloctenium aegyptium,</i> <i>Digera arevensis,</i> <i>Portulaca 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>				
<b>2,4-D Ethyl Ester 4.5 % GR (having 2,4-D acid 4 % w/w)</b>					
Transplanted Rice	<i>Echinochloa Colonum</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 cicutata</i> <i>Eclipta alba</i> <i>Ammania baccifera</i>	1.0 kg	25 kg	-	-
<b>2,4-D Sodium Salt 48% + Metribuzin 32% + Chlorimuron ethyl 0.85% WDG</b>					
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
<b>2,4-D Sodium Salt 50% (w/w) + Metribuzin 15% (w/w) WP</b>					
Wheat	<i>Amaranthus spinosus</i> , <i>Chenopodium album</i> , <i>Rumex dentalis</i> , <i>Phalaris minor</i> , <i>Melilotus alba</i>	400 + 120 (520 gm)	800 gm	500	120
<b>Dicamba 48% w/v SL</b>					
Maize	<i>Trianthema portulacastrum</i>	360	750	500	69
Wheat	<i>Chenopodium album</i>	240	500	500	91
<b>Diclofop Methyl 28% EC</b>					
Wheat	<i>Avena fatua</i> , <i>Phalaris minor</i>	0.7-1.0 kg	2.5-3.5 ltr	500	90
<b>Diuron 25.6% w/w + Glyphosate 14.4% w/w + Oxyfluorfen 11.5% w/w SC</b>					

Non-crop area	<i>Cyperus rotundus,</i> <i>Digitaria sanguinalis,</i> <i>Cynodon dactylon,</i> <i>Eluesine indica,</i> <i>Parthenium hysterophorus,</i> <i>Abutilon indicum,</i> <i>Ageratum conyzoides</i>	431.25 + 960 + 540	3750	500	-
<b>Diuron 80% WP</b>					
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 spp,</i> <i>Dactyloctenium,</i> <i>Chloris barbata,</i> <i>Eragrostis zeylenica</i>	1.60 kg	2 kg.	625	-
Rubber	<i>Grasses &amp; 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 rusgalli,</i> <i>Cynotis 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 viscose,</i>	1.6kg	2.0 kg.	625	-

	<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 strumerium,</i> <i>Fumeria parviflora,</i> <i>Asphodelus tenuifolius,</i> <i>Medicago denticulata,</i> <i>Eleusine aegyptia.</i>			
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**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>Echinochloa colona</i>	22-26 g	26.2-30.9 Time of application 0-3 DAS	500	60
Groundnut	<i>Amaranthus viridis,</i> <i>Parthenium hysterophorus,</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

**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 vaginalis</i>	12.5-15 g	83.3- 100gm	500	110
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**Fenoxaprop-p-ethyl 9% w/w DF**

Transplanted Paddy	<i>Echinochloa crusgalli</i> (barnyard grass), <i>Echinochloa colona</i> (jungle rice)	56.25 g	625	500	65
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**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>Dactylocteneum</i> <i>Aegyptium</i>	56.25-67.5 g	625-750ml. (15-20 DAS)	375-500	43
Cotton	<i>Echinochloa sp.</i> <i>Eluesine indica</i> <i>Dactylocteneum</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
<b>Fenoxaprop-p-ethyl 10% EC</b>					
Wheat	<i>Phalaris minor</i>	100-120 g	1.0-1.20 kg	250-300	110
<b>Fenoxaprop-p-ethyl 6.7% w/w EC</b>					
Rice (Transplanted & Direct Seeded)	<i>Echinochloa sp.</i>	56.6-60.38 g	812.5-875	375-500	61
<b>Florpyrauxifen-benzyl 2.7% w/w EC</b>					
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
<b>Fluazifop-p-butyl 13.4% EC</b>					

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 scrobiculatum</i> <i>Leersia hexandra</i> <i>Panicum repens</i> <i>Setaria glauca</i> <i>Dinebra retroflexa</i> <i>Cyperus difformis</i> <i>Cyperus iria</i> <i>Fimbristylis miliaceae</i> <i>Alternanthera philoxeroides</i> <i>Alternanthera entical</i> <i>Marsilea quadrifolia</i> <i>Ammania baccifera</i> <i>Eclipta alba</i> <i>Eclipta prostrata</i> <i>Monochoria vaginalis</i> <i>Lindernia ciliata</i> <i>Ludwigia parviflora</i> <i>Sphenoclea zeylanica</i> <i>Commelina diffusa</i> <i>Cyanotis axillaris</i>	25	250	500	90
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<b>Fluchloralin 45% EC</b>					
Cotton	<i>Acanthospermum hispidum,</i> <i>Cleome enticu,</i> <i>Datura sp.</i> <i>Trianthema monogyna</i> <i>Tridax procumbens,</i> <i>Cynodon dactylon (germinating)</i> <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 hispada,</i> <i>Cyperus compestris,</i>	1.0-1.5 kg	2.22-3.33	500-800	120-150
<b>Flufenacet 60% DF</b>					
Paddy (Transplanted)	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> <i>Cyperus iria</i>	120 g	200 gm	500	90-110
<b>Flumioxazin 50% SC</b>					
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>Runnex 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
<b>Fluroxypyr meptyl 48% w/v (45.5% w/w) EC</b>					
Onion	<i>Amaranthus viridis</i> <i>Anagallis 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>				
<b>Fluthiacet Methyl 10.3% EC</b>					
Soybean	<i>Commelina sp,</i> <i>Digeru arvensis,</i> <i>Acalypha indica,</i> <i>Amaranlhus viridis.</i>	13.6	125	500	73
<b>Glufosinate Ammonium 13.5% SL (15% w/v)</b>					
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>Dactylocteneum</i> <i>aegyptium</i>	375-450 g	2.5-3.0	500	96
<b>Glufosinate ammonium 14.3 % + Glyphosate (Isopropyl Ammonium) 18.04 % SL</b>					

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), <i>Phyllanthus niruri</i> (gale of the wind), <i>Commelina benghalensis</i> (Benghal dayflower), <i>Borreria hispida</i> (Shaggy button weed)	400 + 505	2500	500	-
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#### Glufosinate ammonium 50 % WG

Non-crop area	<i>Digitaria sanguinalis</i> , <i>Dactyloctenium</i> <i>aegyptium</i> , <i>Eleusine indica</i> , <i>Echinochloa colonum</i> , <i>Cynodon dactylon</i> , <i>Parthenium</i> <i>hysterophorus</i> , <i>Phyllanthus niruri</i> , <i>Euphorbia hirta</i> , <i>Ageratum conyzoides</i> , <i>Cyperus rotundus</i>	500	1000	500	-
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#### 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 portulacastrum</i>	0.82-1.23 kg	4.1-6.15	400-500	N/A
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#### 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 anua</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 conzoides</i>	4.52-6.79g a.i./litre	20-30ml/lit	300-600	-
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#### Glyphosate 41% SL IPA Salt

Non-cropped area	Sorghum helepense 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 cylindrical</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>Commelinia 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	-
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**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 strumarium</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>Cynodon dactylon</i> <i>Cyperus rotundus</i> <i>Digitaria sanguinalis</i> <i>Eragrostis spp.</i> <i>Ipomea digitarea</i> <i>Paspalum conjugatum</i> <i>Sida aculeata</i>	2.13 kg	3.0 kg.	500	7
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**Glyphosate Potassium Salt 41.60 % w/w SL (Equivalent to 54% w/v )**

Non cropped area	<i>Digitaria sanguinalis</i> (Crabgass), <i>Cytodon dactylon</i> (Bermuda grass), <i>Digera arvensis</i> , <i>Sorghum haiepense</i> (Johnson gass), <i>Amaranthus spinosus</i> (Pigweed)	2160-2430	4000-4500	500	-
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#### **Halosulfuron methyl 6% + Metribuzin 50% WG**

Sugarcane	<i>Echinochloa spp.</i> , <i>Eleusine indica</i> , <i>Digitaria sanguinalis</i> , <i>Brachiaria ramosa</i> , <i>Parthenium hysterophorus</i> , <i>Celosia argentia</i> , <i>Alternanthera spp.</i>	67.5 + 562.5	1125	375	247
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#### **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

#### **Haloxyfop R Methyl 10.5% w/w EC**

Soybean	<i>Brachiaria sp.</i> <i>Digitaria sanguinalis</i> <i>Dinebra enticu</i> <i>Echinochloa sp.</i> <i>Eleusine indica</i> <i>Eragrostis sp.</i> <i>Panicum isochmi</i>	108-135	1000-1250	500	60
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#### **Imazethapyr 10% SL**

Groundnut	<i>Cyperus difformis</i> <i>Commelinaceae</i> <i>benghalensis</i> , <i>Trianthema</i> <i>portulacastrum</i> , <i>Eragrostis pilosa</i>	100-150 g	1.0-1.5 ltrs.	500-700	90
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Soybean	<i>Cyperus difformis</i> <i>Echinochloa colonum</i> <i>E. crusgalli</i> <i>Euphorbia hirta</i> <i>Croton sperrsifeorus,</i> <i>Digera arvensis,</i> <i>Commelina</i> <i>Benghalensis</i>	100 g	1.0 Ltr.	500-600	75
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**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>Dinemra 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>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
<b>Isoproturon 50% WP</b>					
Wheat	<i>Phalaris minor</i> <i>Avena fatua</i> <i>Poa annua</i>	1.0 kg	2.0	750	-
<b>Isoproturon 75% WP</b>					
Wheat	<i>Phalaris minor</i> <i>Avena fatua</i> <i>Poa annua</i>	1.0 kg	1.33 kg.	750	60 days
<b>MCPA, Amine salt 40% WSC</b>					
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 enticulate</i> , <i>M. lupulina</i> , <i>Spergula arvensis</i> , <i>Argemone maxicana</i> , <i>Phyllanthus niruri</i> .	1.0 kg	2.5	300-600	
<b>Metamifop 10% EC</b>					

Direct seeded Rice	<i>Barnyard grass (Echinocloa spp), Sacchiolepis Dactyloctenium, Digiteria, panicum</i>	100 g	1000 ml	350	87
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#### Metamitron 70% SC

Sugarbeet	<b>Sedges &amp; Grasses</b> <i>Cynodon dactylon</i> <i>Cyperus rotundus</i> <i>Dactyloctenium aegyptium</i> <b>Broad Leaves</b> <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
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#### 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	-
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#### 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-0.175 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>Astodelus fistulosis</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>	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>Fumaria parviflora</i> , <i>Melilotus spp.</i> , <i>Phalaris minor</i>	Pre-emergence 3-4 DAP or Post-emergence between emergence and time when the first potato plants have reached height of 5 cms.	0.525	0.750	30
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 frustare</i> , <i>Echinochloa colonum</i> , <i>Ageratum conyzoides</i> , <i>Eleusine indica</i> ,	Pre-planting a week before transplanting  Or  Post planting 15 DAT	0.525	0.760	30

	<i>Setaria glauca,</i> <i>Commelina benghalensis</i>				
<b>Metribuzin 70% WG</b>					
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
<b>Metsulfuron Methyl 20% WP</b>					
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-Poloxethanol 12.5%) @ 500 ml/ha	80
Rice (transplanted)	<i>Cyperus rotundus,</i> <i>Spheanochele 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 sp.,</i> <i>Cleome viscosa,</i> <i>Solanum sp.,</i> <i>Commelina benghalensis,</i> <i>Euphorbia sp.,</i> <i>Digeria 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
<b>Metsulfuron Methyl 20% WG</b>					

Wheat	<i>Chenopodium album</i> <i>Melilotus indica</i> <i>Melilotus alba</i> <i>Lathyrus aphaca</i> <i>Anagallis arvensis</i> <i>Vicia sativa</i> <i>Rumex denticulata</i> <i>Convolvulus arvensis</i> <i>Medicago denticulata</i>	4 g	20 gm.	500-600 + Surfactant (Iso-Octyl Phenoxy) - Poloxethanol 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 junceum</i> <i>Commelina benghalensis</i> <i>Ammania baccifera</i> <i>Sphenoclea zeylanica</i> <i>Caesulia axillaries.</i>	4 g	20 gm.	500-600 + Surfactant (Iso-Octyl Phenoxy) - Poloxethanol 12.5%) @0.2%	71
Sugarcane	<i>Amaranthus viridis</i> <i>Ipomeas pp.</i> <i>Euphorbia hirta</i> <i>Phyllanthus niruri</i> <i>Cleome viscose</i> <i>Commelina benghalensis</i> <i>Trianthema sp.</i> <i>Portulaca oleraceae</i>	6	30g + Non-ionic surfactant @ 2 ml/l of water	500	346
<b>Orthosulfamuron 50% WG</b>					
Transplanted Rice (Paddy)	<i>Echinocloa 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
<b>Oxadiargyl 80% WP</b>					
Sunflower	<i>Echinochloa colonum</i> <i>Dactyloctenium aegyptium</i>	240	300	500	81

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
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#### **Oxadiargyl 6% EC**

Transplanted Rice	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum,</i>	100 g	1.66 ltrs	500	97
Cumin	<i>Cyperus iria, cyperus</i> <i>difformis, Eclipta alba</i> <i>Ludwigia quadrifoliata</i> <i>Chenopodium album</i> <i>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.</i> <i>colonum</i> <i>Cyperus iria</i> <i>C.</i> <i>difformis</i> <i>Marsilea</i> <i>quadrifoliata,</i> <i>Eclipta alba,</i> <i>Ludwigia sp.</i>	0.5 kg	2.0 ltrs.	500	-
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#### **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	-	-
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#### **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
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#### **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	-
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Tea	<i>Digiteria,</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

### 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>Ammania 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>Amarnanthus</i> <i>viridis</i> <i>Portulaca</i> <i>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., Euphorbia spp., Amaranthus viridis, Portulaca oleracea, Trianthema spp., 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>Ammania baccifera,</i> <i>Ludwigia parviflora,</i> <i>Eclipta alba,</i> <i>Cyperus difformis</i>	1.0-1.5 kg	20-30 kg	-	-
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#### **Pendimethalin 38.7% CS**

Soybean	<i>Echinochloa colonum</i> <i>Dinebra arabiica</i> <i>Digitaria sanguinalis</i> <i>Bracharia mutica</i> <i>Dactyloctinum 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 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>	580.5-677.25 g	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 arvensi,</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 sp.,</i> <i>Dinebra arabica,</i> <i>Portulaca oleracea,</i> <i>Euphorbia geniculata,</i> <i>Commelina sp.,</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 species</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> (Canary grass) <i>Avena ludoviciana</i> (Wild oat)	40-45 g  30-35 DAS	800-900 ml	225-300	90
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#### **Penoxsulam 21.7 % SC**

Rice (Transplanted)	<i>Ammania bacifera,</i> <i>Cyperus diffiformis,</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>Sphenecelea 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 diffiformis,</i> <i>Eclipta alba</i>	22.5	93.75	300	60

<b>Penoxsulam 2.67% OD</b>						
Rice (Transplanted Rice)	Grasses	<i>Echinochloa Colona</i> <i>Echinochloa Crusgalli</i>	22.5-25	900-1000 ml/ha	300-500	60
	Sedges	<i>Cyperus difformis</i>				
	Broad Leaved Weeds	<i>Caesulia axillaris</i>				
<b>Pretilachlor 37% EW</b>						
Transplanted Rice	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> <i>Cyperus difformis</i> <i>Cyperus iria</i> <i>Digitaria sanguinalis</i> <i>Fimbristylis miliacea</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
<b>Pretilachlor 30.7% EC</b>						
(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
<b>Pretilachlor 50% EC</b>						
Transplanted Rice	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> <i>Cyperus difformis</i> <i>Cyperus iria</i> <i>Fimbristylis miliacea</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
<b>Propaquizafof 10% EC</b>						
Soybean	<i>Echinochloa colonum,</i> <i>Echinochola crusgalli,</i> <i>Digiteria sanguinalis,</i> <i>Dactyloctenium egyptium,</i> <i>Eleusine indica</i>		50-75 g	500-750	500-750	21

Blackgram	<i>Echinochloa colonum</i> , <i>Echinochola crusgalli</i> , <i>Digiteria sanguinalis</i> , <i>Dactyloctenium aegyptium</i> , <i>Eleusine indica</i>	75-100 g	750-1000	500-750	21
Onion	<i>Echinochloa colonum</i> , <i>Digiteria sanguinalis</i> , <i>Dactyloctenium aegyptium</i> , <i>Phalaris minor</i>	62.5	625	500	7
Jute	<i>Digiteria sanguinalis</i> , <i>Echinochloa colonum</i> , <i>Eleusine indica</i>	62.5	625	500	87
Cotton	<i>Echinochloa colonum</i> , <i>Digiteria sanguinalis</i> , <i>Dactyloctenium aegyptium</i> , <i>Cynodon dactylon</i>	62.5	625	500	115
Groundnut	<i>Echinochloa colonum</i> , <i>Digiteria 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
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**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
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<b>Paraquat dichloride 24% SL</b>					
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, muse 2.5 to 5 lit for initial application. For subsequent repeat spot application use 1 lite)
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 &amp; 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 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
<b>Pyroxasulfone 85 % WG</b>					
Wheat	<i>Phalaris minor</i>	131	127.5	150	500
Maize	<i>Echinochloa crusgalli,</i> <i>Eleusine indica,</i> <i>Phyllanthus niruri</i>	103	127.5	150	500
Soybean	<i>Echinochloa colonum,</i> <i>Celosia argentia,</i> <i>Trianthema portulacastrum,</i> <i>Amarthanus viridis,</i> <i>Digeria arvensis</i>	94	127.5	150	500

<b>Pyrazosulfuron Ethyl 10% WP</b>					
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
<b>Pyrithiobac Sodium 10% EC</b>					
Cotton ( <i>Gossypium</i> )	<i>Trianthema Spp</i> <i>Amaranthus Spp</i> <i>Chenopodium Spp</i> <i>Digera Spp</i> <i>Celosia argentina</i>	62.5-75 gm	625-750	500	160
<b>Pyroxasulfone 85% w/w WG</b>					
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 argentina,</i> <i>Trianthema portulacastrum,</i> <i>Amaranthus viridis,</i> <i>Digera arvensis</i>	127.5 g	150 ml	500	94
<b>Pyrazosulfuron Ethyl 70% WDG</b>					
Transplanted Rice	<i>Echinichloa spp,</i> <i>Cyperus rotundus,</i> <i>Ludwigia parviflora</i>	21	30	500	43
<b>Quinclorac 250g/l SC</b>					
Rice	<i>Echinochloa spp.</i> (Barnyard grass), <i>Panicum repens</i> (Creeping panic)	187.5 - 250	750-1000	500	78
<b>Quizalofop-ethyl 5% EC</b>					
Soybean	<i>Echinochloa crusgalli</i> <i>E. coloenum</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
<b>Quizalofop-ethyl 10% EC</b>					
Soyabean	<i>Love grass (eragrosts ipilosa), 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
<b>Quizalofop –p-tefuryl 4.41% EC</b>					
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
<b>Saflufenacil 70.0% w/w WG</b>					
Non Cropped Areas	<i>Cyperus rotundus</i> <i>Dactyloctanium 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>Euporbia 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
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#### 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>Amaranlhus spp.,</i> <i>Phyllanthus spp.,</i> <i>Euphorbio spp.,</i> <i>Dacteloctenium spp.,</i> <i>Digitaria spp.,</i> <i>Brachiaria spp.,</i> <i>Echinocloa spp.,</i> <i>Cynodon spp,</i> <i>Cyperus spp.</i>	720	1500	500	306

#### 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
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#### Tembotrione 34.4% SC

Maize	<i>Trianthema portulacastrum,</i> <i>Echinochloa sp.</i> <i>Bracheria sp.</i>	120 g	286 ml	500	55
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#### Triallate 50% EC

Wheat	<i>Avena fatua</i>	1.25 kg	2.5 kg.	250-500	150
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<b>Triasulfuron 20% WG</b>					
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 crepidioides,</i> <i>Oxalis spp.,</i> <i>Bidens pilosa,</i> <i>Conyza ambigua,</i> <i>Drymaria diandra,</i> <i>Emilia sonchifolia,</i> <i>Mitracarpus verticilatus,</i> <i>Syndnedrella nodiflora.</i>	25	125	500	7
<b>Topramezone 336 g/l w/v SC</b>					
Maize	<i>Eleusine 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

<b>Ametryn 73.1% w/w + Trifloxysulfuron sodium 1.8% w/w WG</b>					
<b>Sugarcane</b>	<i>Echinochloa colona, Cyanodon dactylon, Cyperus rotundus, Amaranthus viridis, Trianthema spp. and Digitaria sanguinalis</i>	937.5-1125	1250-1500	500	221
<b>Anilofos 24% +2,4-D ethyl Ester 32% EC</b>					
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
<b>2,4-D sodium salt 44% + Metribuzin 35% + Pyrazosulfuron ethyl 1.0% WDG</b>					
Sugarcane	<i>Echinochloa spp,</i> <i>Elusine indica (Indian goosegrass)</i> <i>Brachiaria spp.</i> <i>Digitaria spp.</i> <i>Dactyloctenium agypyttium (Crowfoot Grass)</i> <i>Eclipta alba (false daisy)</i> <i>Chenopodium album (Bathua)</i> <i>Physalis minima (Little Gooseberry)</i> <i>Portulaca oleracea (Purslane)</i> <i>Parthenium hysterophorus (Congress grass)</i> <i>Cyperus spp.</i>	1320 + 1050 + 30	3000	500	249
<b>Bensulfuron methyl 0.6%+Pretilachlor 6% GR</b>					
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
<b>Bensulfuron-Methyl 4.8 % + Pretilachlor 48% OD</b>					

Transplanted Rice	<i>Echinochloa crusgalli,</i> <i>Echinochloa colonum,</i> <i>Cynodon dactylon,</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
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**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
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**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> <i>Sphenoclea zaylenica,</i> <i>Scirpus Sp.</i>	43	100	500	64
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

**Carfentrazone ethyl 0.43% + Glyphosate 30.82% EW**

Tea	<i>Ageratum conyzoides</i> <i>Bidens pilosa</i> <i>Borreria sp.</i> <i>Crassocephalumcr epidiooides</i> <i>Cynodon sp.</i> <i>Cyperous sp.</i> <i>Digitaria sp.</i> <i>Eleusine indica</i> <i>Mimosa sp.</i> <i>Mltracarpus 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>	12.90 +924.60	3000	500	--

	<i>Digitaria sp.</i> <i>Eleusine indica</i> <i>Imperata cylindrica</i> <i>Lantana camera</i> <i>Parthenium sp.</i>				
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**Carfentrazone ethyl 20% + Sulfosulfuron 25% WG**

Wheat	<i>Phalaris minor</i> <i>Avena ludoviciana</i> <i>Chenopodium album</i> <i>Medicago alba</i> <i>Rumex spp</i>	20+25 +750 ml Surfactant	100	300	110
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**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
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**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
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**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
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**Clomazone 22.5% w/w + Metribuzin 21% w/w WP**

Sugarcane	<i>Trianthema Spp.</i>	563 + 525	2500	500L	307 days
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	<i>Amaranthus viridis</i> <i>Phyllanthus niruri</i> <i>Bracharia Spp.</i> <i>Dactyloctenium aegyptium</i> <i>Echinochloa spp.</i> <i>Digitaria Spp.</i> <i>Cynodon dactylon</i>				
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**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
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**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
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**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>Eluropus villosus</i> <i>Indigofera glandulosa</i> <i>Chloris barbata</i> <i>Trianthema sp.</i> <i>Digera arvensis</i> <i>Cleome viscose</i> <i>Phyllanthus niruri</i> <i>Amaranthus virdis</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>Dactyloctenium aegyptium,</i> <i>Digitaria sanguinolens,</i> <i>Cyperus rotundus</i>	180+45	1500	500	71
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**Fomesafen 17.5% + Clodinafop-propargyl 12.5% w/w ME**

<b>Soybean</b>	<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
<b>Green gram</b>	<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

**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
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**Halosulfuron Methyl 5% + Atrazine 48% WG**

<b>Maize</b>	<i>Echinochloa spp.</i> <i>Digitaria sanguinalis</i> <i>Eleusine indica</i> <i>Trianthema monogyna</i> <i>Celosia argentina</i> <i>Cyperus rotundus</i>	56.25+540	1125	375	37
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**Halauxifen-methyl 20.8% + Florasulam 20.0% w/w WG (with surfactant Polyglycol 26-2 N)**

<b>Wheat</b>	<i>Chenopodium album</i> <i>Rumex sp.</i> <i>Medicago denticulata</i> <i>Coronopus didymus</i>	12.76	31.23	375 (use along with surfactant Polyglycol 26-2 N at 750 ml/ha)	71
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**Halosulfuron Methyl 12% w/w+ Metribuzin 55% WG**

<b>Sugarcane</b>	<i>Digitaria sanguinalis</i> <i>Eleusine indica</i> <i>Cyperus rotundus</i> <i>Dactyloctenium aegyptium</i>	54+247.5	450	300	294
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**Hexazinone 13.2% + Diuron 46.8 % WP**

Sugarcane	<i>Enchinochloa 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
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**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
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**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
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**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
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**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
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**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
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**Metsulfuron Methyl 10% + Carfentrazone ethyl 40% DF**

Wheat	<i>Rumex dentatus</i> <i>Rumex spinosus</i> <i>Medicago denticulata</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
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**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
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**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>Echinocloa 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
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**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
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**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 (Cyanodon doctylon)</i>	875 +87.5 to 1050 + 105 gm	2.5-3.0	500	123
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**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
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**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> (common water clover), <i>Ludwigia parviflora</i> (water crest), <i>Cyperus diffirmis</i> (common sedge)	900 +20	2000	375	86
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**Pretilachlor 6% + Pyrazosulfuron Ethyl 0.15% (H)**

Paddy	Grassy weeds, Broad Leave, Sedges	600+15	10	-	83
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**Pretilachlor 6.0% +Pyrazosulfuron Ethyl 0.15% GR**

Transplanted Paddy	<i>Echinochloa Colonum</i> <i>Echinochloa Crusagalli</i> <i>Ludwigia paviflora,</i> <i>Eclipta alba,</i> <i>Leptochola chinensis,</i> <i>Monochoria vaginalis,</i> <i>Cyperus difformis,</i> <i>Cyperus iria,</i> <i>Fimbristylis miliacea</i>	600+15	10 kg	-	83
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**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>Abernanthera sessilis,</i> <i>Parthenium hysterophorous,</i> <i>Cyperus iria</i> <i>Cyperus difformis,</i> <i>Fimbristylis miliacea</i>	600+15	2000	375	113
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**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	<b>Monocot weeds</b> <i>Echinochloa colona,</i> <i>Cyperus difformis,</i> <i>Digitaria sanguinalis</i> <b>Broad leaved weeds</b> <i>Commelina benghalensis</i> <i>Digera arvensis</i>	50+75	2000	500	97
Blackgram	<b>Monocot weeds</b> <i>Digitaria sanguinalis</i> <i>Dcatyloctenium aegyptium</i> <i>Cynodan dactylan</i> <b>Broad leaved weed</b> <i>Parthenium hysterophorus</i> <i>Commelina benghalensis</i> <i>Euphorbia hirta</i>	50+75	2000	500	56
Clusterbean	<b>Monocot weeds</b> <i>Cyperus rotundus</i> <i>Digitaria sanguinalis</i> <b>Broad leaved Weeds</b> <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
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**Pyriftalid 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 Pyriftalid + 58.9g a.i. of Bensulfuron methyl)	375	Upto 5 L/ha	99
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**Pyrithiobac 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 argentina</i>	649.25-742.00 g	1.75-2.00 lt	500	152
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**Pyrithiobac Sodium 6% w/w+ Quizalofop-ethyl 4% w/w EC**

Cotton	<i>Trianthema spp</i> <i>Digera spp</i> <i>Celosia argentina</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
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**Quizalofop ethyl 4% + Oxyfluorfen 6% EC**

Onion	<i>Digitaria sanguinalis</i> (Crab grass) <i>Cyperus rotundus</i> (Moth)	100	1000	375	7
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**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 argentina</i> <i>Borreria spp.</i> <i>Parthenium spp.</i> <i>Euphorbia geniculata</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  Chlorimuron ethyl 25% WP  9g  Surfactant 0.2%	Quizalofop ethyl 10% EC  375ml  Chlorimuron ethyl 25% WP  36g  Surfactant 0.2%	300	75
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**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</i> <i>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>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
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<b>Sodium Acifluorfen 16.5% + Clodinafop Propargyl 8% EC</b>					
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>	80 + 165	1000	500	61
<b>Topramezone 10 g/l + Atrazine 300 g/l SC</b>					
Maize	<i>Parthenium hysterophorus</i> <i>Panicum spp.</i> <i>Amaranthus viridis</i> <i>Celotia argentina</i> <i>Melilotus alba</i> <i>Alternanthera sp.</i> <i>Digitaria sanguinalis</i>	775	2500	500	90
<b>Triafamone 20% + Ethoxysulfuron 10% WG</b>					
Rice Transplanted	<i>Echinochloa colona,</i> <i>Echinochloa crusgalli,</i> <i>Cyperus rotundus,</i> <i>Cyperus difformis,</i> <i>Fimbristylis miliaceae,</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

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