

RICE WEED MANAGEMENT

TABLE 1. Effectiveness of selected preplant and preemergence rice herbicides on certain weeds.

	Palmleaf m- glory	eclipta	barnyardgrass	red rice	sprangletop	signalgrass	fall panicum	sedge	alligatorweed	ducksalad	redstem	hemp sesbania	waterhyssop	jointvetch	smartweed	dayflower	Texasweed
PREPLANT BURNDOWN:																	
2,4-D	9	9	0	0	0	0	0	5	8	8	9	9	9	8	5	7	9
FirstShot	7	7	0	0	0	0	0	5	9	7	6	8	-	8	9	-	-
Gambit	9	9	0	0	0	0	0	9	8	9 ⁴	9	9	7	9	9	8	8 ³
Gramoxone SL	8	9	9	8	9	9	9	5 ¹	6	7	9	9	7	8	4	7	9
Grandstand	9	8	0	0	0	0	0	5	9	7	9	9	8	8	5	7	9
LeadOff	5	-	8	6	7	5	8	5	-	-	-	7	-	7	8	-	-
Permit/Halomax	7	8	0	0	0	0	0	9	4	9	9	9	9	9	6	8	8
Roundup	7	8	9	7	9	9	9	7	7	7	9	7	7	7	6	6	9
Sharpen	8	8	0	6	6	5	6	6	7	8	9	8	6	9	7	7	8
PREPLANT INCORPORATED, PREPLANT, PREEMERGENCE or DELAYED PREEMERGENCE:																	
Bolero PPS ²	4	0	8	8	8	7	6	5	4	7	3	0	6	4	5	7	5
Bolero DPRE	5	8	8	0	8	5	7	5	4	8	8	6	8	5	5	8	6
Clearpath	8	8	9	8	8	9	5	9	6	8	8	7	6	7	6	7	8
Command	0	0	9	0	8	8	9	0	0	7	0	0	0	5	2	7	0
Facet PRE (drill-seeded)	8	8	9	0	0	9	5	2	4	3	4	7	6	7	0	5	4
Newpath PPI/PRE	8	6	8	8	8	9	5	9	6	8	8	4	6	4	6	7	8
Obey PRE	8	9	9	0	8	9	8	2	4	7	4	7	6	7	2	7	4
pendimethalin + Facet DPRE	8	8	9	0	9	8	5	4	6	3	2	8	4	7	0	3	6
pendimethalin DPRE	0	0	8	0	8	8	7	0	0	0	0	0	0	0	0	0	0
RiceOne	0	0	9	0	8	9	9	0	0	7	0	0	0	5	2	7	0
Sharpen PRE	8	7	4	4	4	4	6	6	4	4	6	7	6	7	6	7	7

¹Annual sedge suppression. ²With proper water management, refer to Bolero label. ³Weeds must be <4 inches tall. ⁴Controlled only when small (< 2 leaf).

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TABLE 2. Effectiveness of selected postemergence rice herbicides on certain weeds.

	palm leaf morningglory	eclipta	barnyardgrass	red rice	sprangletop	signalgrass	fall panicum	sedge	alligatorweed	ducksalad	redstem	hemp sesbania	waterhyssop	jointvetch	smartweed	dayflower	Texasweed
2,4-D amine	9	9	0	0	0	0	0	2 ¹	8	9	9	9	9	7	6	8	9
Aim ³	8	6	0	0	0	0	0	5	5	4	6	9	7	6	8	5	6
Aim + Grandstand	9	8	0	0	0	0	0	5	8	6	9	9	8	9	8	6	7
Basagran	8	8	0	0	0	0	0	8 ⁴	4	8	9	4	8	3	7 ⁴	9	2
Beyond or Postscript	8	6	8	9	7	9	7	8	3	2	8	3	6	3	5	6	7
Blazer	5	4	0	0	0	0	0	0	4	3	9	9	0	0	0	0	5
Bolero + propanil	5	9	9	0	9	9	8 ⁴	7	5	7 ⁴	7 ⁴	9	9	8 ⁴	6 ⁴	8 ⁴	8
Broadhead	8	9	9	0	0	9	5 ⁴	5	6	4	6	9	7	7	8	5	6
Clearpath	8	9	9	8	6	9	6	8	6	3	3	8	6	8	6	6	7
Clincher ²	0	0	9	0	9	9	8	0	0	0	0	0	0	0	0	0	0
Facet L	8	9	9	0	0	9	5 ⁴	4	6	3	3	8	3	8	0	3	6
Facet L + propanil	8	9	9	0	7 ⁴	9	8 ⁴	5 ¹	6	7 ⁴	7 ⁴	9	8	9 ⁴	6 ⁴	7 ⁴	8
Gambit	9	9	0	0	0	0	0	9	8	9 ⁴	9	9	7	9	9	8	8 ³
Grandstand	9	8	0	0	0	0	0	5	7	3	9	7	8	8	7	6	9
Grasp	3	7	9	0	3	3	3	8	7	8	8	9	7	7	8	7	6
League	8	8	0	0	0	0	0	8	6	7	8	9	7	8	8	8	8
Londax ²	5	8	0	0	0	0	0	8	7	9	9	6	9	6	6	8	8
Loyant	9	9	6 ⁴	0	6 ⁴	6 ⁴	6 ⁴	8	9	9	8	9	8	9	9	8	4
Newpath or Preface	8	6	8	8	6	9	4	8	3	2	8	3	6	3	4	6	7 ³
Obey	8	9	9	0	8	9	8	2	4	7	4	7	6	7	2	7	4
pendimethalin + Facet	8	8	9	0	8	9	5 ⁴	4	6	3	2	8	4	7	0	3	6
pendimethalin + propanil	5	9	9	0	9	9	8 ⁴	5	5	7	9	9	8 ⁴	8 ⁴	6 ⁴	7	6
Permit/Halomax	7 ³	8	0	0	0	0	0	9	4	5	8	9	4	9	4	8	7 ³
Permit Plus	7	9	0	0	0	0	0	9	6	7	9	4	6	9	8	8	7
Permit/Halomax + Londax	7 ³	8	0	0	0	0	0	9	7	9	9	9	9	9	6	8	8
propanil	5	8	9	0	7 ⁴	9	8 ⁴	4 ¹	5	6 ⁴	7 ⁴	7	8	8 ⁴	6 ⁴	6 ⁴	6

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	palmleaf morningglory	eclipta	barnyardgrass	red rice	sprangletop	signalgrass	fall panicum	sedge	alligatorweed	ducksalad	redstem	hemp sesbania	waterhyssop	jointvetch	smartweed	dayflower	Texasweed
propanil + Aim	9	8	9	0	7 ⁴	9	8 ⁴	6	5	6	7	9	8	9	8 ⁴	6	6
propanil + Londax	9	9	9	0	7 ⁴	9	8 ⁴	9	7	7	9	9	8	9 ⁴	8	8 ⁴	9
propanil + Permit/Halomax	9	9	9	0	7 ⁴	9	8 ²	9	5	5	8	9	9	9	5	8	8 ⁴
Provisia	0	0	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0
RebelEX	3	7	9 ⁴	0	9 ⁴	9 ⁴	8 ⁴	8	7	8	8	9	7	7	8	7	6
Regiment	8	6	9	0	3	3	0	7 ¹	7	8 ⁴	8	8	7	8	7	7	8
RiceBeaux	5	9	9	0	9	9	8 ⁴	7	5	7 ²	7 ²	9	9	8 ²	6 ²	8 ²	0
Ricestar HT	0	0	9	0	8	9	7 ⁴	0	0	0	0	0	0	0	0	0	0
Sharpen	8	8	0	6	6 ⁴	5 ⁴	6 ⁴	6 ¹	7	8	9	8	6	9	7	7	8 ³
Strada	7	8	0	0	0	0	0	5	5	7	9	9	8	9	6	9	6
Strada PRO	7	8	0	0	0	0	0	9	5	7	9	9	8	9	6	9	6

¹Annual sedge suppression. ²With proper water management. ³Weeds must be <4 inches tall. ⁴Controlled only when small (< 2 leaf).

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Table 3. Activity of selective herbicide programs for perennial grass control¹

Herbicide Program	Brook paspalum	Knotgrass	Creeping rivergrass⁴	Water paspalum	Nealley's sprangletop
Command PRE ²	4	5	4	5	5
Command PRE fb Clincher ³	5	9	8	8	7
Command + Facet PRE ²	4	5	4	5	6
Command + Facet PRE ² fb Clincher ³	5	9	8	9	7
Command PRE fb Grasp ³	5	5	7	5	5
Facet + pendimethalin DPRE ²	4	6	5	7	6
Facet + pendimethalin DPRE fb Clincher ³	6	9	7	9	7
Clincher fb Clincher ³	7	9	8	9	8
Grasp ³	4	2	6	2	0
Loyant ¹	4	6	6	5	6
Newpath fb Beyond ³	7	9	8	8	5
Newpath fb Newpath ³	7	9	8	8	5
propanil ³	2	3	2	2	6
Provisia fb Provisia	5	9	7	9	9
Regiment fb Regiment ³	3	2	7	2	4
Ricestar HT fb Ricestar HT ³	3	4	5	6	9

¹ Control rating is based on herbicides applied to small, actively growing plant segments. ² Ratings taken 2 weeks after application. ³ Ratings taken 1 month after application.

⁴ Also referred to as perennial barnyardgrass.

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Table 4. Crawfish production and rice herbicides.

2,4-D	May be toxic to aquatic invertebrates.	Newpath or Preface	Crawfish production not specifically mentioned.
		Loyant	Except for crawfish, do not fish or commercially grow fish, shellfish, or crustaceans on treated acres during the year of Loyant treatment.
Aim	Commercial crawfish not specifically mentioned; however, herbicide is moderately toxic to fish.	Obey	Do not apply on rice fields in which concurrent crawfish or catfish farming are included in the cultural practices.
Basagran	Do not use Basagran on rice fields in which the commercial cultivation of crawfish is practiced.	propanil	Crawfish not specifically mentioned in restrictions. Commercial catfish production prohibited.
Beyond or Postscript	Crawfish production not specifically mentioned.	Prowl/pendimethalin	Crawfish not specifically mentioned. Product may be hazardous to aquatic animals.
Bolero	Crawfish production not specifically mentioned. Toxic to shrimp.	Permit/Halomax	Crawfish not specifically mentioned.
Broadhead	Do not use treated rice fields for aquaculture of edible fish and crustaceans (crawfish).	Permit Plus	Crawfish not specifically mentioned.
Clincher	Do not fish or commercially grow fish, shellfish or crustaceans on treated acres during the year of treatment.	Provisia	Crawfish not specifically mentioned; however, do not allow Provisia rice go to seed in a non-rice year. This includes any fallow or crawfish production fields.
Clearpath	Do not use treated rice fields for aquaculture of edible fish and crustaceans (crawfish).	Ultra Blazer	Do not harvest crawfish from treated rice areas for food.
Command, RiceOne	Do not apply on rice fields in which concurrent crawfish farming is included in the cultural practices.	RebelEX	Do not fish or commercially grow fish, shellfish or crustaceans on treated acres during the year of treatment.
Duet	Do not apply to fields where commercial crawfish farming is practiced.	RiceBeaux	Applications to fields where catfish/crawfish farming is practiced and draining water from treated fields into areas where catfish farming is practiced is prohibited during 12 months following treatment. Do not use adjacent to catfish/crawfish ponds.
Facet	Do not use treated fields for aquaculture of edible fish or crawfish.		
		RiceOne	Do not apply on rice fields in which concurrent crawfish farming is included in the cultural practices.
Gambit	Do not commercially grow fish, shellfish, or crustaceans on treated acres during the year of treatment.	Ricestar HT	Ricestar must not be applied to fields where crawfish are cultured commercially.
Grandstand	Do not commercially grow shellfish or crustaceans on treated acres during the year of treatment.	Roundup and glyphosate formulations	Crawfish production not mentioned in restrictions. Cannot be applied to areas where surface water is present. Refer to individual glyphosate labels.
Grasp	Except for crawfish, do not fish or commercially grow fish, shellfish or crustaceans on treated acres during the year of treatment.	Strada, Strada PRO, Strada XT	Crawfish production not specifically mentioned.
GraspXtra	Do not apply later than three months prior to crawfish production.	Storm	Do not use Storm on rice fields where commercial crawfish production is practiced.
Londax	Do not harvest crawfish prior to harvesting rice.	Sharpen	May be applied to rice fields used for crustaceans, including crawfish production and commercial fish production.

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Active Ingredient ² and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
PREPLANT BURNDOWN:			
2,4-D @ 0.5-1 lb/A	2,4-D @ 1-2 pt of 4 lb/gal material	Most broadleaf weeds	Labels differ between application timing and planting. Follow label restrictions regarding application timing and total amount of 2,4-D applied per season.
prosulfuron plus halosulfuron @ 0.094-0.099 lb/A	Gambit 79 DF @ 1-2 oz/A	Most annual broadleaf weeds and sedges	1.5 oz/A is adequate in a burndown weed management program with glyphosate.
paraquat @ 0.6-0.75 lb/A	Gramoxone SL @ 2-3 pt/A Apply with NIS @ 1-2 pt/100 gal	Most annual broadleaf weeds and grasses	Apply near planting and when weeds are less than 6 inches tall. Especially useful on small red rice immediately before flooding to water-seed. Apply 2 days before establishing a flood. Avoid nontarget drift.
triclopyr @ 0.375 lb/A	Grandstand @ 1 pt/A Consult label for adjuvant requirement.	Good on alligatorweed and other perennial broadleaf weeds	Apply 21 days prior to planting. May be useful where 2,4-D use is restricted.
glyphosate @ 0.5-2 lb/A	4 L glyphosate formulations ³ @ 1-4 pt/A	Most annual grasses and many broadleaf weeds	Apply 7-14 days prior to planting. For use in reduced-till or no-till rice. Allow 5-7 days between application and flooding for planting.
thifensulfuron @ 0.0164-0.025 lb/A + tribenuron @ 0.0164-0.025 lb/A	FirstShot @ 0.5-0.8 oz/A Consult label for adjuvant requirement.	Curly dock, henbit, smartweed, garlic	Apply before planting with other burndown products, like glyphosate or paraquat.
rimsulfuron @ 0.0155-0.021 lb/A + tribenuron @ 0.0155-0.021 lb/A	LeadOff @ 1.5-2 oz/A Consult label for adjuvant requirement.	Annual grass and broadleaf weeds; control or suppression of many sedge species	This is a 24C label that was approved Dec. 5, 2012 and will expire Dec. 5, 2017. There is a 60-day recropping restriction for rice with soil pH 6.5 or less at 1.5 oz/A and 90 days at 2 oz/A.
halosulfuron @ 0.031 lb/A	Permit/Halomax @ 0.66 oz/A Consult label for adjuvant requirement.	Sedges, hemp sesbania, jointvetch	Use as part of a preplant or burndown treatment. Safe on soil pH up to 8. May injure rice under certain environmental conditions.
saflufenacil @ 0.04 lb/A	Sharpen @ 2 oz/A Consult label for adjuvant requirement.	Annual broadleaf and grass weeds and suppression of sedges and aquatics	Grasses must be less than 2- to 3-leaf. Apply in mixture with glyphosate to broaden weed spectrum.
PREPLANT:			
thiobencarb @ 4 lb/A	Bolero 10G @ 40 lbs/A	Barnyardgrass, sedges, partial control of red rice	Apply after flooding before seeding into "clear water." Do not disturb field after application. Do not use if fields were cultivated while flooded.
thiobencarb @ 4 lb/A	Bolero @ 4 pt/A	Barnyardgrass and annual sedges; partial control of red rice; duckweed and waterhyssop on silt loam soils	Apply immediately after soil preparation and before flooding for water-seeding. Apply to seedbed free of vegetation. Field should be flooded, seeded with pre-sprouted seed, drained to optimize stand and re-flooded when seedlings have rooted (within 5 days).

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Active Ingredient ² and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
PREEMERGENCE:			
clomazone @ 0.3-0.5 lb/A	Command 3 ME @ 0.8-1 pt/A on light soil 1-1.33 pt/A on heavy soil	Annual grasses	Apply after planting before rice and weeds have emerged. Consult label before applying by air. Adhere to buffer zone restrictions. Medium-grain varieties may be more sensitive to Command.
quinclorac @ 0.25-0.5 lb/A	Facet L @ 22-28 oz/A on light soil 32 oz/A on medium soil 43 oz/A on heavy soil	Barnyardgrass, hemp sesbania, broadleaf signalgrass, morningglory Does not control sprangletop.	Drill-seeded rice only. Apply after planting prior to emergence. Do not use on sand or loamy sand. Injury can occur on rice not covered with soil. Rainfall or flushing needed to activate. No more than 43 oz/A/season.
clomazone @ 0.244-0.488 lb/A+ quinclorac @ 0.244-0.488 lb/A	Obey @ 26-52 oz/A 26-39 oz/A on light soil 39 oz/A on medium soil 52 oz/A on heavy soil	Barnyardgrass, broadleaf signalgrass, fall panicum, sprangletop (spp.), elicpta, jointvetch, morningglory	Apply 14 days before planting through planting but before weed emergence. If weeds emerged before application, consult label for proper adjuvant.
saflufenacil @ 0.04 lb/A	Sharpen @ 2 oz/A Consult label for adjuvant requirement.	Annual broadleaf and grass weeds and suppression of sedges and aquatics	Grasses must be less than 2- to 3-leaf. Refer to label for proper adjuvant. Apply in mixture with glyphosate to broaden weed spectrum.
DELAYED PREEMERGENCE:			
clomazone @ 0.3-0.42 lb/A pendimethalin @ 0.6-1 lb/A	RiceOne @ 35-50 oz/A 35 oz/A on light soil 35-50 on medium and heavy soil	Barnyardgrass, broadleaf signalgrass, sprangletop, and other annual grass weeds	Drill-seeded rice only. Apply 4-9 days after planting to soil that has been sealed by rain or a flush. Drain surface water before application. Rice seed exposed to spray may be severely injured. Rice seed must have imbibed water prior to application. Rainfall or flush required for reactivation.
thiobencarb @ 4 lb/A	Bolero @ 4 pt/A	Barnyardgrass, sprangletop, annual sedges, suppression of broadleaf weeds	Apply after planting dry-seeded rice once soils have been sealed by rainfall or a flush, but 1-5 days before rice emerges. Don't allow soil to dry and crack. Control usually will not exceed three weeks.
quinclorac @ 0.19-0.375 lb/A + pendimethalin @ 1 lb/A	Facet L @ 0.1625-32 oz/A + pendimethalin 3.3 EC @ 2.4 pt/A or Prowl H2O @ 2.1 pt/A	Barnyardgrass, broadleaf signalgrass, sprangletop, morningglory, hemp sesbania, northern jointvetch	Drill-seeded rice only. Apply 4-9 days after planting to soil that has been sealed by rain or a flush. Drain surface water before application. Rice seed exposed to spray may be severely injured. Rice seed must have imbibed water prior to application. Rainfall or flush required for reactivation.
pendimethalin @ 1 lb/A	pendimethalin 3.3 EC @ 2.4 pt/A or Prowl H2O @ 2.1 pt/A	Barnyardgrass, broadleaf signalgrass, sprangletop,	Drill-seeded rice only. Apply 4-9 days after planting to soil that has been sealed by rain or a flush. Drain surface water before application. Rice seed exposed to spray may be severely injured. Rice seed must have imbibed water prior to application. Rainfall or flush required for reactivation.

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RICE ¹			
Active Ingredient ² and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
POSTEMERGENCE:			
2,4-D @ 1.25-1.5 lb/A	2,4-D (3.8 L) @ 2.5-3 pt/A	Most broadleaf weeds and seedling sedges	Apply after rice tillers but before panicle initiation. Best application time is at the rice first green ring at beginning of joint elongation but may be applied up to second green ring. Earlier or later applications may result in rice injury. Rice should have a shallow flood at the time of treatment.
carfentrazone @ 0.025-0.05 lb/A	Aim 2 EC @ 1 to 1.6 oz/A	Hemp sesbania, red stem, toothcup, palmleaf morningglory, 1- to 2-leaf jointvetch	Apply to rice with at least 2-3 leaves and actively growing. Add surfactant only when large weeds are present. Expect injury with high temperatures and humidity.
thiobencarb @ 3 lb/A + propanil @ 3 lb/A	Bolero @ 3 pt/A + propanil @ 3 lb/A (see propanil label for appropriate amount) RiceBeaux @ 4 qt/A	Annual grasses, some sedges, small broadleaf weeds	In dry-seeded rice, apply after emergence if soil is wet. If soil is dry, wait until rice has 2-3 leaves. In water-seeded rice, apply after rice has 2 leaves. Treatment will provide residual activity if field is flushed or flooded within 3 days. Do not submerge rice when applying the permanent flood.
carfentrazone @ 0.00975-0.02 lb/A + quinclorac @ 0.165-0.35 lb/A	Broadhead @ 4-12.1 oz/A	Barnyardgrass, signalgrass, Hemp sesbania, red stem, toothcup, palmleaf morningglory, hemp sesbania, 1- to 2-leaf jointvetch vetch	A prepackaged mixture of quinclorac plus carfentrazone (Aim) for control of broadleaf weeds and grasses. Quinclorac provides residual and postemergence activity and carfentrazone provides postemergence activity. The product is labeled as preplant, preemergence and postemergence to rice. Rice should have 2 leaves before applied postemergence.
bentazon @ 0.75-1 lb/A	Basagran @ 1.5-2 pt/A Consult label for adjuvant requirement.	Redstem, ducksalad, dayflower, some sedges	Apply before weeds exceed labeled heights. Lowering of the flood may be necessary to expose weeds to ensure proper coverage. Refer to label for tank-mix options.
clomazone @ 0.3-0.5 lb/A	Command 3 ME @ 0.8-1.33 pt/A Impregnate on 150 lb/A fertilizer	Barnyardgrass, broadleaf signal grass, junglerice, sprangletop, ducksalad	Water-seeded rice only. Apply when rice is pegging and actively growing with 1-2 visible leaves. Allow 24-48 hours before flushing or establishing a pinpoint flood. Hybrids, medium- and short-grain cultivars may be more sensitive.
cyhalofop @ 0.25-0.28 lb/A	Clincher @ 13-15 oz/A Consult label for adjuvant requirement.	Barnyardgrass, broadleaf signalgrass, fall panicum, junglerice, knotgrass, Sprangletop	Apply pre-flood on 1- to 3-leaf grass or post-flood on 1- to 2-tiller grass. Use 13 oz/A when applied early. Use 15 oz/A when applied on larger grasses or perennials. Best activity under saturated soil conditions. Refer to label for approved tank-mixes, additives and adjuvants.
quinclorac @ 0.375-0.50 lb/A	Facet L @ 32-43 oz/A Apply with COC @ 2 pt/A	Barnyardgrass, signalgrass, jointvetch, hemp sesbania Suppression of alligatorweed at the highest rate	In water-seeded rice, apply after the 2-leaf rice stage. In dry-seeded rice, apply after emergence. Does not control sprangletop. After application, flushing may be required for reactivation.
quinclorac @ 0.375 lb/A + propanil @ 3 lb/A	Facet L @ 43 oz/A + propanil @ 3 lb/A	Same as above plus increased	For timing, see quinclorac comments above. Follow directions on propanil label for adjuvants.

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Active Ingredient ² and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
	See propanil label for adjuvant requirement.	control of sprangletop, some sedges	
POSTEMERGENCE continued:			
prosulfuron plus halosulfuron @ 0.094-0.099 lb/A	Gambit 79 DF @ 1-2 oz/A	Activity on most annual broadleaf weeds and sedges	1-2 oz/A per application not to exceed 2 oz/A per year. Wait 3-4 days before establishing permanent flood after application.
triclopyr @ 0.375 lb/A	Grandstand @ 1 pt/A Apply with NIS or COC; consult label.	Alligatorweed, Texasweed, jointvetch, other broadleaf weeds Sesbania control is improved with propanil; see label.	Apply when weeds are small. Rice must be in the 3- to 4-leaf to 1/2-inch internode stage. Weak on duck salad. Overlapping of swaths may result in rice injury. Do not "dress" ends of field. Two applications per season are allowed.
penoxsulam @ 0.032-0.036 lb/A	Grasp @ 2-2.3 oz/A Apply with COC or MSO @ 1 qt/A.	Barnyardgrass, junglerice, duck salad, annual sedges, small actively growing weeds Little to no control of sprangletop, signalgrass, fall panicum	In drill-seeded rice, apply from emergence up to 60 days before harvest. In water-seeded rice, apply from pegging-one-leaf (no exposed roots) up to 60 days before harvest. Consult label for rates used post-flood or on larger weeds. Refer to label for surface irrigation and permanent flood establishment.
penoxsulam @ 0.032-0.042 lb/A + triclopyr @ 0.25- 0.35 lb/A	Grasp Xtra @ 16-22 oz Apply with COC or MSO @ 1 qt/A.	Barnyardgrass, junglerice, duck salad, annual sedges, small actively growing weeds	In drill-seeded rice , 2- to 3-leaf to 1/2-inch internode. In water-seeded rice , 3- to 4-leaf to 1/2-inch. Do not apply more than 22 oz/A/year.
imazosulfuron @ 0.15 -0.3 lb/A	League @ 3.2-6.4 oz/A Consult label for adjuvant requirement.	Sesbania, duck salad, nutsedge	Apply postemergence. Slight injury can occur on medium- and short-grain rice.
florpyrauxifen @ 0.026 lb/A	Loyant @ 16 oz/A See Loyant label for approved surfactant	Suppression of barnyardgrass and other annual grasses. Activity on many broadleaf weeds and annual sedges.	Apply to small actively growing grass and broadleaf weeds 1-4 leaf. Activity on rice flatsedge and suppression of yellow nutsedge. Apply when adequate soil moisture is present. If target weeds under moisture stress do not apply.
bensulfuron @ 0.6-1 oz/A	Londax 60 DF @ 1-1.6 oz/A	Aquatic broadleaf weeds, gooseweed, sedges; suppression of alligatorweed	Apply into flood when weeds are small and submerged. Alligatorweed cannot be well established. Control may be reduced under cold water conditions. Londax may be applied impregnated on dry fertilizer. May not control certain populations of duck salad.
bensulfuron @ 0.6 oz/A + propanil @ 3-4 lb/A	Londax 60 DF @ 1 oz/A + propanil at 3-4 lb/A	Eclipta, gooseweed, palmleaf morningglory, Texasweed, sedges, grasses	Apply before permanent flood. Good for controlling aquatic weeds where 2,4-D cannot be used.

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RICE ¹			
Active Ingredient ² and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
	See propanil label for adjuvant requirements.		
POSTEMERGENCE continued:			
clomazone 0.3-0.488 lb/A + quinclorac 0.3-0.488 lb/A	Obey @ 32-52 oz/A 32 oz/A on light soil 32-43 oz/A on medium soil 43-52 oz/A on heavy soil Consult label for proper adjuvant.	Barnyardgrass, broadleaf signalgrass, fall panicum, sprangletop (spp.), elicoptera, jointvetch, morningglory	Apply postemergence to rice from the 2- to 5-leaf stage. Application will control emerged and provide residual activity.
halosulfuron @ 0.023-0.063 lb/A	Permit/Halomax @ 0.5-1.34 oz/A Apply with COC @ 1 qt/A	Sedges, hemp sesbania, jointvetch	Apply after rice emergence to 48 days before harvest. Do not use more than 1.34 oz/A/season. Consult label for post-flood applications.
bensulfuron @ 0.028-0.04 lb/A + halosulfuron @ 0.012-0.023 lb/A	Londax @ 0.75-1 oz/A + Permit/Halomax @ 0.25-0.5 oz/A	Sedges, hemp sesbania, jointvetch, most aquatic weeds	See comments for bensulfuron and halosulfuron. Adjuvant required; consult label.
halosulfuron @ 0.023-0.063 lb/A + propanil @ 3-4 lb/A	Permit/Halomax @ 0.5-1.333 oz/A + propanil at 3-4 lb/A See propanil label for adjuvant requirements.	Sedges, hemp sesbania, jointvetch, grasses	Broad-spectrum weed control. Consult label for post-flood applications.
propanil @ 3-6 lb/A	Sold under various trade names. 4 L/SC/EC @ 3-6 qt/A 80 DF @ 3.5-7 lb/A	Most annual grasses, some sedges, broadleaf weeds in the seedling stage	Apply to grasses before the 4-leaf stage. Usually within 10-14 days after seeding. Use 3 lb for grass in the 1- to 2-leaf stage; add 1 lb for each additional leaf. Use 5-6 lb on 5-leaf to tillering grasses; control usually not satisfactory. Consult label for adjuvants requirement.
bispyribac-sodium @ 0.32-0.63 oz/A	Regiment 80 WP @ 0.4-0.8 oz/A Consult label for adjuvant requirement.	Barnyardgrass, junglerice, nutsedge, small broadleaf weeds; little to no control of sprangletop, signalgrass, fall panicum	Apply to rice that is at least 3 leaves. Barnyardgrass should be 1- leaf-tillering. Broadleaf weeds should be 1- to 4-leaf stage. Controls large barnyardgrass and junglerice and suppresses some perennial <i>Echinochloa</i> species.
saflufenacil @ 0.02 lb/A	Sharpen @ 1 oz/A Consult label for adjuvant requirement.	Annual broadleaf and grass weeds and suppression of sedges and aquatics	Grasses must be less than 2- to 3-leaf. Refer to label for proper adjuvant.
orthosulfamuron @ 0.053-0.065 lb/A	Strada 50 WG @ 1.7-2.1 oz/A Consult label for adjuvant requirement.	Annual sedges, hemp sesbania, jointvetch	Apply after the 2- to 3-leaf rice stage to actively growing weeds with 1-4 leaves. Strada may be mixed with other herbicides to broaden spectrum. See label.

RICE WEED MANAGEMENT

RICE¹			
Active Ingredient² and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
POSTEMERGENCE continued:			
orthosulfamuron @ 0.053-0.065 lb/A + halosulfuron @ 0.0155-0.0186 lb/A	Strada PRO 54 WG @ 2.08-2.5 oz/A Consult label for adjuvant requirement.	Annual sedges, rice flatsedge, yellow nutsedge, hemp sesbania, jointvetch	Apply to emerged weeds from prior to rice emergence until after permanent flood establishment. Do not apply past 1/2-inch internode.
orthosulfamuron 0.0406 - 0.0625 lb/A + quinclorac @ + 0.2438 - 0.375 lb/A	Strada XT 70WG 6.5-10 oz/A. Consult label for adjuvant requirement.	Barnyardgrass, broadleaf signalgrass, morningglory, hemp sesbania, flatsedge, northern jointvetch	Apply before or after rain or flushing. Rice seed exposed to spray may be severely injured. Best weed control is obtained if soil surface is smooth and wet, especially on clays. Rice seed exposed to Strada XT may be severely injured. Do not use preemergence in water-seeded rice production.
penoxulam 0.03-0.04 lb/A @ + cyhalofop @ 0.22-0.28 lb/A	RebelEX @ 16-20 oz/A	Barnyardgrass, broadleaf signalgrass, fall panicum, junglerice, knotgrass, sprangletop, ducksalad, hemp sesbania, annual sedges	A prepackaged mixture of Clincher plus Grasp. Apply to small actively growing weeds. Grasses should not exceed the 3-leaf stage to avoid antagonism. Field should be wet for maximum Clincher activity; however, plant should be 75% exposed for Grasp activity.
fenoxaprop @ 0.059-0.109 lb/A	Ricestar HT 0.58 EC @ 13-24 oz/A	Barnyardgrass, broadleaf signalgrass, junglerice, sprangletop	Apply 13 oz/A on 1- to 2-leaf grasses and up to 24 oz/A on larger grasses. Activity decreases on grasses with more than 4 leaves. Do not apply more than 30 oz/A per year. Tank-mix with only approved herbicides. See label.
acifluofen @ 0.125 lb/A	Ultra Blazer 2 L @ 0.5 pt/A Apply with NIS @ 1 qt/100 gal	Hemp sesbania	Apply after sesbania is above rice plants but before sesbania flowers. Do not apply within 50 days of harvest. Refer to label for tank-mixes.
HERBICIDE-TOLERANT RICE:			
imazamox @ 0.031 to 0.047 lb/A	Beyond or Postscript@ 4-6 oz/A POST Consult label for adjuvant requirement.	Red rice, barnyardgrass, broadleaf signalgrass, junglerice, sedges, some broadleaf weeds	Apply after one application of imazethapyr on rice 4-leaf up to 14 days after PI. Approved for tolerant Clearfield rice cultivars and Clearfield hybrids. Refer to label for approved tank-mixes.
imazethapyr @ 0.063 lb/A + quinclorac @ 0.312 lb/A	Clearpath @ 0.5 lb/A Consult label for adjuvant requirement.	Red rice, hemp sesbania, barnyardgrass, broadleaf signalgrass, junglerice, sedges	Apply preplant up to 7 days prior to planting, preemergence, or postemergence (up to 5- leaf rice if drill-seeded and 2-leaf rice if water-seeded). Refer to label for tank-mixes. Must be preceded or followed by a Newpath or Beyond application.
imazethapyr @ 0.063-0.094 lb/A	Newpath or Preface @ 4-6 oz/A Consult label for adjuvant requirement.	Red rice, barnyardgrass, broadleaf signalgrass, junglerice	Two applications required. The first application can be lightly incorporated before planting or applied preemergence or at the spike-leaf rice stage. The second application should be applied to 3- to 5-leaf rice or 10-14 days after the spiking treatment. Beyond can be substituted for second application.

RICE WEED MANAGEMENT

RICE ¹			
Active Ingredient ² and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
quizalofop @ 0.089-0.124 lb/A	Provisia @ 13-18 oz/A Apply with COC @ 1% v/v	Barnyardgrass, broadleaf signalgrass, junglerice, red rice, sprangletop, and perennial grass weed,	Apply 13-18 oz/A on 1- to 2-leaf grasses and up to 18 oz/A on larger grasses. Do not apply more than 31 oz/A per year. Tank-mix with only approved herbicides. See label.
SALVAGE TREATMENT:			
halosulfuron @ 0.047-0.063 lb/A	Permit/Halomax @ 1-1.34 oz/A Apply with COC @ 1 qt/A	Sedges, hemp sesbania, jointvetch	Apply up to 48 days before harvest. Do not use more than 1.34 oz/A/season.
fenoxaprop @ 0.109 lb/A	Ricestar HT @ 24 oz/A	Barnyardgrass, broadleaf signalgrass, junglerice, sprangletop	Apply to four-leaf to tillering grasses. As grass size increases, activity is delayed.

ADDITIONAL COMMENTS/FOOTNOTES

RATOON CROP HERBICIDES:
*HiDep 2,4-D, Basagran, Grandstand, and Grasp are also labeled for ratoon (stubble) crop rice. See labels for rates and timing of application. 2,4-D Dacamine production has been discontinued, and supply is very limited.

¹ Refer to the burndown section of this guide for additional suggestions on managing cool-season weeds. **Water-seeded, no-till systems.** Research has shown that dense vegetation may be killed effectively with herbicides but stand establishment is difficult because of inadequate soil/seed contact due to mats of dead vegetation. Additional research has shown that soil kept free of vegetation all winter will become compacted, and rice seedlings may have difficulty "pegging" and will tend to drift.

² Certain populations of barnyardgrass, duckweed and pickerelweed have become resistant to some traditional herbicides. If this occurs, use alternative herbicides. Contact your local LSU AgCenter county agent for recommendations. Also, refer to the herbicide resistance section of this guide for suggestions on herbicide resistance management.