

RICE

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

	palmleaf morningglory	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
Gramoxone Inteon	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
Roundup	7	8	9	7	9	9	9	7	7	7	9	7	7	7	6	6	9
FirstShot	-	-	-	0	0	0	0	4	-	-	-	-	-	-	9	-	-
PREPLANT INCORPORATED or PREEMERGENCE:																	
Newpath	8	7	8	8	8	9	5	9	6	8	8	4	6	4	6	7	8
PREEMERGENCE:																	
Bolero PPS	4	0	8	8	8	7	6	5	4	7	3	0	6	4	5	7	5
Bolero (Delayed)	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	0	2	7	0
Facet (Drill seeded)	8	8	9	0	0	9	5	2	4	3	4	7	6	7	0	5	4
Ordram (PPI)	4	2	8	8 ²	5	7	6	4	0	0	0	2	2	0	5	3	4
Prowl (DPRE)	0	0	8	0	8	8	7	0	0	0	0	0	0	0	0	0	0

¹Annual sedge suppression; ²With proper water management

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

	palmleaf 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	5	6	8	9
Aim ³	8	6	0	0	0	0	0	5	5	4	6	9	7	7	8	5	6
Aim + Grandstand	9	8	0	0	0	0	0	5	8	6	9	9	8	9	8	6	7
Arrosolo	6	9	9	0	8 ⁴	9	8 ⁴	5 ¹	5	8 ⁴	7 ⁴	9	9	9 ⁴	6 ⁴	8 ⁴	8
Basagran	8	8	0	0	0	0	0	8	4	8	9	4	8	3	7 ⁴	9	2
Beyond	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
Clearpath	8	9	9	8	6	9	6	8	6	3	3	8	6	8	6	6	7
Clincher	0	0	9	0	9	9	8	0	0	0	0	0	0	0	0	0	0
Facet	8	9	9	0	0	9	5 ⁴	4	6	3	3	8	3	8	0	3	6
Facet + 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
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
HiDep 2,4-D	9	9	0	0	0	0	0	2 ¹	8	9	9	9	9	8 ³	6	8	9
Londax	5	8	0	0	0	0	0	8	7	9	9	6	9	6	6	8	8
Newpath	8	6	8	8	6	9	4	8	3	2	8	3	6	3	4	6	7 ³
Ordram	0	5	9	0	5	7	5	5	0	0	0	2	2	0	4	6	2
Permit	7 ³	2	0	0	0	0	0	9	4	5	8	9	4	9	4	8	7 ³
Permit + 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
propanil + Aim	9	8	9	0	7	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
Prowl + Facet	8	8	9	0	8	9	5 ⁴	4	6	3	2	8	4	7	0	3	6
Prowl + propanil	5	9	9	0	9	9	8 ⁴	5	5	7	9	9	8 ⁴	8 ⁴	6 ⁴	7	6
Regiment	8	6	9	0	3	3	0	7 ¹	7	8 ⁴	8	8	7	8	7	7	8 ³
Ricestar HT	0	0	9	0	8	9	7 ⁴	0	0	0	0	0	0	0	0	0	0
Strada	7	8	0	0	0	0	0	8	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

	Brook paspalum	Knotgrass	Creeping rivergrass ⁴	Water paspalum
Command PRE ²	4	5	4	5
Command PRE fb Clincher ³	5	9	8	8
Command + Facet PRE ²	4	5	4	5
Command + Facet PRE ² fb Clincher ³	5	9	8	9
Command PRE fb Grasp ³	5	5	7	5
Facet + Prowl DPRE ²	4	6	5	7
Facet + Prowl DPRE fb Clincher ³	6	9	7	9
Grasp ³	4	2	6	2
Clincher fb Clincher ³	7	9	8	9
Newpath fb Beyond ³	7	9	8	8
Newpath fb Newpath ³	7	9	8	8
Regiment fb Regiment ³	3	2	7	2
Ricestar HT fb Ricestar HT ³	3	4	5	6
Stam ³	2	3	2	2

¹ Control rating is based on herbicides applied to small actively growing plant segments.

² Two weeks after application.

³ One 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.	Beyond	Crawfish production not specifically mentioned.
Londax	Do not harvest crawfish prior to harvesting rice.	Newpath	Crawfish production not specifically mentioned.
Regiment	Crawfish not specifically mentioned.	Strada	Crawfish production not specifically mentioned.
Aim	Commercial crawfish not specifically mentioned; however, herbicide is moderately toxic to fish.	Bolero	Crawfish production not specifically mentioned. Toxic to shrimp.
Basagran	Do not use Basagran on rice fields in which the commercial cultivation of crawfish is practiced.	Clearpath	Do not use treated rice fields for aquaculture of edible fish and crustaceans (crawfish).
Command	Do not apply on rice fields in which concurrent crawfish farming is included in the cultural practices.	Duet	Do not apply to fields where commercial crawfish farming is practiced.
Facet	Do not use treated fields for aquaculture of edible fish or crawfish.	Grandstand	Do not commercially grow shellfish or crustaceans on treated acres during the year of treatment.
Ordram 15G	Crawfish not specifically mentioned. Product is extremely toxic to fish, however.	Permit	Crawfish production not specifically mentioned in restrictions.
Clincher	Do not fish or commercially grow fish, shellfish or crustaceans on treated acres during the year of treatment.	Grasp	Except for crawfish, do not fish or commercially grow fish, shellfish or crustaceans on treated acres during the year of treatment.
Prowl	Crawfish not specifically mentioned. Product may be hazardous to aquatic animals.	Ricestar HT or Whip	Ricestar must not be applied to fields where crawfish are cultured commercially.
Stam	Crawfish not specifically mentioned in restrictions. Commercial catfish production prohibited.	Storm	Do not use Storm on rice fields where commercial crawfish production is practiced.
Ultra Blazer	Do not harvest crawfish from treated rice areas for food.	Storm	Crawfish production not mentioned in restrictions. Cannot be applied to areas where surface water is present. Refer to individual glyphosate labels.
Hi-Dep	Commercial crawfish production is not specifically mentioned; however, the label states product is toxic to aquatic invertebrates.	Arrosolo	Commercial crawfish production not specifically mentioned; however, herbicide is considered extremely toxic to fish and drift, and runoff may be hazardous to aquatic organisms in neighboring areas.

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Active Ingredient ² and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
PREPLANT BURNDOWN:			
2,4-D @ 0.5-1.0 lb/A	2,4-D @ 1.0-2.0 pt of 4 lb/gal material	Most broadleaf weeds. Good on hard to control weeds like alligatorweed and cutleaf evening primrose	Labels differ in the time interval between application and planting. Follow label restrictions regarding application timing and total amount of 2,4-D that can be applied per season.
paraquat @ 0.6-0.75 lb/A	Gramoxone Inteon @ 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 @ 1.0 pt/A Surfactant required; see label.	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 @ 0.5-2.0 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	Curly dock, henbit, smartweed, and garlic	Apply before planting with other burndown products like glyphosate or paraquat.
halosulfuron @ 0.032-1.33 oz/A	Permit @ 0.66-1.33 oz/A Adjuvant required; consult label	Sedges, hemp sesbania, jointvetch	This is a 24C label that was approved March 10, 2008 and will expire in 5 years. Use as part of a preplant or at planting burndown treatment. May injure rice under certain environmental conditions; see label.
PREPLANT INCORPORATED:			
molinate @ 3.0-4.0 lb/A	Ordram 15G @ 20-25 lb/A Ordram 8E @ 3.0-4.0 pt/A	Barnyardgrass and annual sedges. Partial control of red rice.	Sales terminated June 30, 2008 and existing stocks may be used before August 31, 2009. Apply immediately prior to flooding for water-seeding. Recommended for water-seeded rice in all areas and dry-seeded rice on heavy soils. Incorporate 1" or less into a well prepared seedbed immediately after application. When water seeding, flood for seeding within 12-24 hours. To assure an adequate stand, increased seeding rate and temporary drainage may be desirable. Re-flood drained fields within 5 days.
PREPLANT:			
molinate @ 3.0-4.0 lb/A	Ordram 15G @ 20-25 lb/A	Barnyardgrass and annual sedges. Partial control of red rice	Sales terminated June 30, 2008 and existing stocks may be used before August 31, 2009. Apply into the flood before planting. Water should be muddy from water-working of soil. Follow practices mentioned above.

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Active Ingredient ² and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
PREPLANT: continued			
thiobencarb @ 4.0 lb/A	Bolero 10G @ 40 lbs/A	Barnyardgrass, sedges and partial control of red rice	Apply after flooding before seeding into "clear water". Similar to granular Ordram treatment. Do not disturb field after application. Don't use if fields were cultivated while flooded.
thiobencarb @ 4.0 lb/A	Bolero @ 4 pt/A	Barnyardgrass and annual sedges. Partial control of red rice. Ducksalad 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 as soon as seedlings have rooted (no more than 5 days).
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 75 DF @ 0.33-0.44 lb/A on light soil 0.44-0.5 lb/A on medium soil 0.5-0.67 lb/A on heavy soil	Barnyardgrass, hemp sesbania, signalgrass, and morningglory	Drill-seeded rice only. Apply after planting before rice and weeds have emerged. Do not use on sand or loamy sand. Does not control sprangletop. Can injure rice that is not completely covered with soil. Rainfall or flushing needed to activate.
DELAYED PREEMERGENCE:			
thiobencarb @ 4.0 lb/A	Bolero @ 4 pt/A	Barnyardgrass, sprangletop, annual sedges and 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 3 wks.
quinclorac @ 0.19-0.375 lb/A + pendimethalin @ 1 lb/A	Facet 75 DF @ 0.25-0.5 lb/A + Prowl/Pendimax 3.3 EC @ 2.4 pt/A or Prowl H2O @ 2.1 pt/A	Barnyardgrass, broadleaf signalgrass, sprangletop, morningglory, hemp sesbania, and northern jointvetch	Drill-seeded rice only. Apply 5-9 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.
POSTEMERGENCE:			
2,4-D @ 1.25-1.5 lb/A	2,4-D (3.8 L) @ 2.5-3.0 pt/A	Most broadleaf weeds and some seedling sedges	Apply after rice tillers, but before panicle initiation. Best time is at the first green ring which is the beginning of elongation, but apply 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. HiDep is currently labeled for ratoon crop.

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Active Ingredient ² and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
POSTEMERGENCE: continued			
molinate @ 4.5-6 lb/A + propanil @ 4.5-6.0 lb/A	Arrosolo 3+3E @ 3.0-4.0 qt/A	Barnyardgrass, sprangletop, and small broadleaf weeds	The molinate portion of Arrosolo sales terminated June 30, 2008 and existing stocks may be used before August 31, 2009. Apply at same time that would be suitable for propanil. Similar in control to propanil. May be more active on certain weeds or when grasses are larger than propanil alone.
carfentrazone @ 0.025-0.05 lb/A	Aim 2 EC @ 1.6-3.2 oz/A	Hemp sesbania, red stem, toothcup, palmleaf morningglory, 1-2 leaf jointvetch	Apply to rice with at least 2-3 leaves and actively growing. Similar activity to Blazer. Add surfactant only when large weeds are present. Expect injury with high temperatures and humidity.
thiobencarb @ 3.0 lb/A + propanil @ 3.0 lb/A	Bolero @ 3.0 pt/A + propanil @ 3.0 lb/A (see propanil label for appropriate amount)	Annual grasses, some sedges and 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 apply after rice has 2 laves. Treatment will provide residual activity if field is flushed or flooded within 3 days. Do not submerge rice when applying the permanent flood.
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 Adjuvants are required; consult label	Barnyardgrass, broadleaf signalgrass, fall panicum, junglerice, knotgrass, sprangletop	Apply pre-flood on 1-3 leaf grass or post-flood on 1-2 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.

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Active Ingredient ² and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
POSTEMERGENCE: continued			
propanil @ 3.0-6.0 lb/A	Sold under various Trade names. 4 L/SC/EC @ 3-6 qt/A 80 DF @ 3.5-7 lb/A Consult labels; dry and non-EC formulations require the addition of adjuvants.	Most annual grasses, some sedges and 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 1-2 leaf stage; add 1lb for each additional leaf. Use 5-6 lb on 5 leaf-tillering grasses; control usually not satisfactory. EC formulations may perform better on large grass or grass under stress. Do not apply after rice is in the late tillering stage. Don't use more than 6.0 lb/application or apply more than 8.0 lb/season. Apply to drained fields and flood in about 12 to 24 hours. During cool cloudy weather, leave unflooded 4-5 days if possible. Do not treat when temperature is below 50°F or above 100°F. No residual control; retreatment may be necessary. Do not apply to second crop.
bentazon @ 0.75-1.0 lb/A	Basagran @ 1.5-2.0 pt/A Adjuvant is generally needed. May not need an adjuvant when mixed with certain herbicides. Consult label.	Redstem, duckweed, dayflower, and some sedges	Apply before weeds exceed labeled heights. Lowering of the flood may be necessary to expose weeds to insure proper coverage. Refer to label for tank-mix options.
bensulfuron @ 0.45-0.6 oz/A	Londax 60 DF @ 0.75-1.0 oz/A Adjuvant required; consult label.	Eclipta, gooseweed, redstem and sedges	Apply 1-7 days following permanent flood. Need 3-4 leaves above water level at the time of treatment.
bensulfuron @ 0.6 oz/A + propanil @ 3.0-4.0 lb/A	Londax 60 DF @ 1.0 oz/A + propanil at 3.0 to 4.0 lb/A See propanil label for appropriate amount and adjuvant requirements.	Eclipta, gooseweed, palmleaf morningglory, Texasweed, sedges and grasses	Apply before permanent flood. Good for controlling aquatic weeds where 2,4-D cannot be used.
quinclorac @ 0.375-0.50 lb/A	Facet 75DF @ 0.50-0.67 lb/A Apply with COC @ 2 pt/A	Barnyardgrass, signalgrass, jointvetch, 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 @ 3.0 lb/A	Facet 75DF @ 0.50 lb + propanil @ 3.0 lb/A (see propanil label for appropriate amount)	Same as above plus increased control of sprangletop and some sedges	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
POSTEMERGENCE: continued			
triclopyr @ 0.375 lb/A	Grandstand @ 1.0 pt/A Apply with NIS or COC; consult label.	Alligatorweed, Texasweed, jointvetch and other broadleaf weeds Sesbania control is improved with propanil; see label.	Apply when weeds are small. Rice must be in the 3-4 leaf to 1/2" internode stage. Weak on ducksalad, overlapping of swaths may result in rice injury. Do not "dress" ends of field. Two applications per season are allowed.
bispyribac-sodium @ 0.32-0.63 oz/A	Regiment 80 WP @ 0.4-0.8 oz/A Adjuvant required; consult label.	Barnyardgrass, junglerice, nutsedge, and small broadleaf weeds Little to no control of sprangletop, broadleaf signalgrass, and fall panicum.	Apply to rice that is at least 3 leaves. Barnyardgrass should be 1 leaf-tillering. Broadleaf weeds should be 1-4 leaf. Controls large barnyardgrass and junglerice and suppresses some perennial <i>Echinochloa</i> species.
penoxsulam @ 0.032-0.036 lb/A	Grasp @ 2-2.3 oz/A Apply with COC or MSO @ 1 qt/A.	Barnyardgrass, junglerice, ducksalad, annual sedges, and small actively growing weeds. Little to no control of sprangletop, broadleaf signalgrass, and fall panicum.	In drill-seeded rice apply from emergence up to 60 days before harvest. In water-seeded rice apply from pegging-1 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
bensulfuron @ 0.6-1.0 oz/A	Londax 60 DF @ 1.0-1.60 oz/A	Aquatic broadleaf weeds and sedges. Suppression of alligatorweed.	Apply into flood when weeds are small and submerged. Alligator-weed 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 ducksalad.
halosulfuron @ 0.023-0.063 lb/A	Permit @ 0.5-1.333 oz/A Apply with NIS @ 1qt/A	Sedges, hemp sesbania, jointvetch	Apply after rice emergence to 48 day before harvest. Do not use more than 1.33 oz/A/season. Consult label for post-flood applications.
bensulfuron @ 0.028-0.04 lb/A + halosulfuron @ 0.012 to 0.023 lb/A	Londax @ 0.75-1 oz/A + Permit @ 0.25-0.5 oz/A Adjuvant required; consult label.	Sedges, hemp sesbania, jointvetch, most aquatic weeds	See comments for bensulfuron and halosulfuron.
orthosulfamuron @ 0.053-0.065 lb/A	Strada 50 WG @ 1.7-2.1 oz/A Adjuvant required; consult label.	Annual sedges, hem sesbania, and jointvetch	Apply after the 2-3 leaf rice stage to actively growing weeds with 1-4 leaves. Strada may be mixed with other herbicides to the broaden spectrum; see label.

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Active Ingredient ² and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
POSTEMERGENCE: continued			
molinat @ 3.0-4.0 lb/A	Ordram I5G @ 20-25 lb/A	Barnyardgrass, seedling yellow nutsedge, fimbrystylis, and spike-rush	Sales terminated June 30, 2008 and existing stocks may be used before August 31, 2009. Apply when rice is large enough to be flooded. Grass should be a minimum of 1" but no taller than 5". Grass must be at least 2/3 submerged at time of application. A flood of at least 2 in depth must be maintained after treatment. Drainage may result in loss of control. Can reduce yields of varieties Millie and Alan if applied late.
fenoxypyr @ 0.059-0.109 lb/A + a safener	Ricestar HT 0.58 EC @ 13-24 oz/A	Barnyardgrass, broadleaf signalgrass, junglerice, sprangletop.	Apply 13 oz/A on 1-2 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 on the Ricestar label.
fenoxypyr – rescue treatment	Ricestar HT @ 12 oz/A + Whip 360 @ 5 oz/A or Ricestar HT @ 9 oz/A + Whip 360 @ 8 oz/A	Barnyardgrass, broadleaf signalgrass, junglerice, sprangletop	Apply to 4 leaf-tillering grasses. As grass size increases reduce the rate of Ricestar and add Whip 360. When adding Whip 360 refer to label for application precautions. Do not apply Ricestar + Whip to aromatic, short, and medium grain rice varieties.
acifluofen @ 0.125 lb/A	Ultra Blazer 2L @ 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:			
imazethapyr @ 0.063-0.094 lb/A	NewPath @ 4 to 6 oz/A Adjuvant required; consult label.	Red rice, barnyardgrass, broadleaf signalgrass, junglerice	Two applications required: The 1 st application can be lightly incorporated before planting or applied preemergence or at the spike-1lf rice stage. The second application should be applied to 3-5-leaf rice or 10-14 days after the spiking treatment. Approved for tolerant Clearfield rice cultivars and Clearfield hybrids.
imazamox @ 0.04 lb/A	Beyond @ 5 oz/A POST Adjuvant required; consult label.	Red rice, barnyardgrass, broadleaf signalgrass, junglerice, and sedges. Some broadleaf weeds; refer to label.	Apply after two applications of imazethapyr and up to 14 days after PI. Approved for tolerant Clearfield cultivars and Clearfield hybrids. Refer to label for approved tank-mixes.

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Active Ingredient ² and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
HERBICIDE-TOLERANT RICE: continued			
imazethapyr @ 0.063 lb/A + quinclorac @ 0.312 lb/A	Clearpath @ 0.5 lb/A Adjuvant required; consult label.	Red rice, hemp sesbania, barnyardgrass, broadleaf signalgrass, junglerice and sedges	Apply preplant up to 7 days prior to planting, preemergence, or postemergence (up to 5 lf rice if drill-seeded and 2- leaf rice if water-seeded). Approved for tolerant Clearfield rice cultivars and Clearfield hybrids. Refer to label for tank-mixes. Must be preceded or followed by a 2nd imazethapyr application.

ADDITIONAL COMMENTS/FOOTNOTES

RATOON CROP HERBICIDES:

*HiDep 2,4-D, Basagran and Grandstand 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.

OTHER LABELED HERBICIDES:

Several additional herbicides have been labeled for rice. Although not generally recommended by the LSU Agricultural Center for all rice farmers, these materials may have some use in certain situations.

Prowl + Propanil (postemergence)	Apply 1.8-2.4 pts/A of Prowl (Use higher rates on heavier soils) + 3.0-4.0 qts/A of Propanil. Apply when barnyardgrass is in the 1 to 3-leaf stage of growth. Reflooding or flushing of field may be delayed. Rainfall or flushing of field within 7 days is required to activate Prowl. If used on water-seeded rice do not apply before the 3 to 4-leaf stage.
Prowl (delayed - drill-seeded)	Apply 1.8-2.4 pt/A of Prowl (use higher rates on heavier soils). Apply after rice seed has absorbed water and germinated. Soil should be sealed from rainfall or flushing before application. May be mixed with Roundup Ultra or Facet.

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 effectively killed 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 that has been kept free of vegetation all winter will become compacted and rice seedling may have difficulty "pegging" and will tend to drift.

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

³ See "Appendix A" for **GLYPHOSATE PRODUCTS, FORMULATIONS AND SURFACTANT RECOMMENDATIONS.**