2003 Texas High Plains Grain Sorghum Weed Control Guide Brent Bean & Matt Rowland, Texas A&M-Amarillo, (806) 677-5600



The Texas A&M University System

Information is provided as a general information guide only; no discrimination is intended or endorsement implied.

Refer to individual labels for specific instructions before using any herbicides listed in this guide.

Preemergence Broadleaf and Grass Herbicides

Preemergence Broadleaf and Grass Herbicides					
Trade Name (common name)	Product Rate per Acre*	Rotation Restrictions	General Comments		
atrazine 4L (AAtrex) atrazine 90WDG (Aatrex Nine-0)	fine- 0.75-1.2 qts med- 0.75-1.2 qts coarse- do not use fine- 0.8-1.4 lbs med- 0.8-1.4 lbs coarse- do not use	Corn or sorghum - immediately; all others - usually the following year. Can be risky with cotton.	Apply PRE (to the soil prior to crop emergence). In the South Plains do not use more than 0.75 qts or 0.8 lbs of the two formulations. For good grass control add a grass herbicide. Will control pigweed when applied alone. 24c label-Restricted Use.		
Bicep II Magnum 5.5L (metolachlor + atrazine)	fine- 1.6-2.1 qts med- 1.6-2.1 qts coarse- do not use	Corn or sorghum - immediately; soybeans, cotton, peanuts, wheat - 18 - 24 mos.	Apply as either PPI or PRE for control of both annual grasses and broadleaves. Excellent pigweed, crabgrass, and barnyardgrass control. Must use safened seed. Restricted Use.		
Bicep Lite II Magnum 6.0L (metolachlor + atrazine)	fine- 1.1-1.5 qts med- 1.1-1.5 qts coarse- do not use	Corn or sorghum - immediately; check label for others.	Apply as either PPI or PRE for control of both annual grasses and broadleaves. Excellent pigweed, crabgrass, and barnyardgrass control. Must use safened seed. Restricted Use.		
Bullet 4EC (alachlor + atrazine)	fine- 3-4 qts med- 2.75-3.75 qts coarse- 2.5- 2.75 qt	Corn, sorghum - following year; others - check label.	Apply as either shallow PPI or PRE for control of annual grasses and broadleaves. Must use safened seed. Restricted Use.		
Dual II Magnum 7.64EC (metolachlor)	fine- 1.67 pts med- 1.5 pts coarse- 1.3 pts	Corn, cotton, peanuts, sorghum, soybeans - immediately; wheat - 4.5 mos.	Apply as either PPI or PRE for control of annual grasses and broadleaves. Must use safened seed.		
Frontier 6.0EC (dimethenamid)	fine- 28-32 oz med- 24-28 oz coarse- 20-24 oz	Corn, sorghum, soybeans - immediately; fall-seeded cereal crops - > 4 mos.	Apply as either PPI or PRE for control of annual grasses and broadleaves. Must use safened seed.		

^{*-} Product rates are given according to general soil type. Fine = silty clay loam, clay loam, sandy clay, silty clay, clay.

Medium = loam, silt loam, silt, sandy clay loam. Coarse = sand, loamy sand, sandy loam.

Trade Name (common name)	Product Rate per Acre*	Rotation Restrictions	General Comments
Guardsman 5L (dimethenamid + atrazine)	fine- 4.5-5.0 pts med- 3.5-4.5 pts coarse- 3.0-3.5 pts Do not use on coarse soil if	Corn, sorghum - immediately; cotton, soybeans, peanuts - following year; others - check label.	Apply as either PPI or PRE for control of annual grasses and broadleaves. Must use safened seed. Restricted Use.
Guardsman Max 5L (dimethenamid + atrazine)	fine- 3.4-4.0 pts med- 2.8-3.4 pts coarse- 2.4-2.8 pts Do not use on coarse soil if less than 1% OM.	Corn, sorghum - immediately; cotton, soybeans, peanuts - following year; others - check label.	Contains a more active isomer of dimethenamid than what is in Guardsman. Apply as either PPI or PRE for control of annual grasses and broadleaves. Must use safened seed. Restricted Use.
Lariat 4L (alachlor + atrazine)	fine- 3.0 qts med- 2.75 qts coarse- 2.5 qts	Corn, sorghum - immediately; soybeans - following year; wheat and most others - 18 mos.	Apply as either PPI or PRE for control of annual grasses and broadleaves. Do not apply as PPI to coarse soils. Must use safened seed. Restricted Use.
Lasso 4L (alachlor)	Preemergence fine- 2.0-2.5 qts med- 2.0-2.25 qts coarse- 1.5-2.0 qts Preplant Inc. fine- 2.5-3.0 qts med- 2.5-2.75 qts coarse- 2.0-2.5 qts	Corn, sorghum - immediately; most others - after harvest.	Apply as either PPI or PRE using given rates to control annual grasses and broadleaves. Must use safened seed. Restricted Use.
LeadOff 6L (dimethenamid + atrazine)	fine- 4.0-4.5 pts med- 3.0-4.0 pts coarse- 2.5-3.0 pts Do not use on coarse soil if less than 1% OM.	Corn, sorghum - immediately; soybeans - following year; wheat and most others - 18 mos.	Apply as either PPI or PRE to control annual grasses and broadleaves. Must use safened seed. Restricted Use.
Outlook 6EC (dimethenamid)	fine- 16-18 ozs med- 14-16 ozs coarse- 10-14 ozs Do not use on coarse soil if less than 1% OM.	Corn, sorghum, soybeans - immediately; fall-seeded cereal crops -> 4 mos.	Contains a more active isomer of dimethenamid than what is in Frontier. Apply as either PPI or PRE for control of annual grasses and broadleaves. Must use safened seed.
Prowl 3.3EC Pendimax (pendimethalin)	fine-check label medcheck label coarse-check label	Corn, sorghum - following year; soybeans - immediately; wheat - 4 mos	Apply in spring 0-60 days prior to planting and incorporate within 7 days; check label for further information.

Treflan, trifluralin Yellow herbicide has a label for limited use in grain sorghum.

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Medium = loam, silt loam, silt, sandy clay loam. Coarse = sand, loamy sand, sandy loam.

Postemergence Broadleaf Herbicides

Postemergence Broadleaf Herbicides					
Trade Name (common name)	Product Rate per Acre*	Rotation Restrictions	General Comments		
Aim 40DF (carfentrazone- ethyl)	0.33 oz	Corn, cotton, sorghum, soybeans - 1 mo.; wheat - immediately.	Apply to small, actively growing weeds. Does not provide good control of palmer amaranth. Provides good control of velvetleaf. Crop leaf burn may occur after treatment. Add NIS @ 0.25 % v/v as a surfactant.		
Ally 60DF + 2,4-D amine (metsulfuron)	1/20 oz + 0.25 lb a.i. 2,4-D amine	Corn-12 mo., cotton 14-22 mo., sorghum-10 mo., wheat immediately, other crops 34 mo.	Section 18 label for 2001. Use for broadleaf weed control. Apply when weeds are less than 6 inches tall. Do not use with surfactant or crop oil.		
atrazine 4L atrazine 90WDG	1.2 qts 1.3 lbs	Corn, sorghum - immediately; soybeans - following year; wheat - check label; cotton - following year, but risky.	Apply when crop is 6 to 12 inches in height. Apply before pigweed exceeds 6 inches in height. Add COC @ 1 qt/ac. Can use drop nozzles after crop is 12 inches. Restricted Use.		
Basagran 4SL (bentazon)	1.5 pts(under 6" weeds) 2.0 pts(over 6" weeds)	No restrictions when applied alone.	Good cocklebur control. Will not control pigweed unless tank-mixed with atrazine. Apply to grain sorghum prior to boot. Add COC @ 1 qt/ac.		
Buctril 2E Buctril 4EC (bromoxynil)	<pre>1 pt - 3 leaf to pre-boot sorghum 1.5 pts - 4 leaf to pre- boot sorghum 0.5 pt - 3 leaf to pre-boot sorghum 0.75 pt - 4 leaf to pre- boot sorghum</pre>	Corn, sorghum - immediately; most others - 1 mo.	Apply to small, actively growing weeds. May not provide satisfactory control of pigweeds. See label for complete list of controlled weeds and weed size at application. Addition of spray additives may increase occurrence of leaf burn to sorghum.		
Clarity 4L (diglycolamine salt of dicamba) Banvel also labeled; research indicates that Clarity salt has similar drift, volatility	8 oz	Corn - immediately; sorghum - 15 days; others - after harvest.	Apply to sorghum from spike to prior to 15 inches in height. Use drop nozzles if sorghum if taller than 8 inches. Do not apply Clarity to sorghum grown for seed production. Apply to actively growing weeds less than 3 inches tall. Application may result in leaf rolling or leaning sorghum plants. Plants usually grow out in 10 - 14 days.		
Marksman 3.2L (dicamba + atrazine)	1.5 - 2.0 pts	Corn, sorghum - immediately; cotton - 18 mos.; soybeans - following year; wheat - 10 mos.	Apply to milo between the 2 - 5 leaf stage. Apply 1.5 pts rate to redroot pigweed less than 3 inches tall. Apply 2.0 pts rate to all other broadleaf weeds. Do not use a spray additive unless a certain amount of crop injury is acceptable. Restricted Use.		
Paramount 75DF (quinclorac)	5.33 oz - bindweed 8.0 oz -	Do not apply to any crop other than wheat or sorghum for 10	Apply over the top of milo up to the 12 inch stage. Provides good control of field bindweed. Provides		

^{* -} Product rate may vary according to weed size and/or crop stage.

Trade Name (common name)	Product Rate per Acre*	Rotation Restrictions	General Comments
	barnyardgrass	mos.	suppression of barnyardgrass. Apply with COC @ 1 qt/ac. 24c label for top 14 counties of the Panhandle only.
Peak 57WDG (prosulfuron)	0.5 - 1.0 oz Rate depends upon weed species, weed size, and rotational crop.	Wheat, IR corn - immediately; corn, sorghum - 1 mo.; STS soybeans, soybeans, cotton - 10 mos. Sunflowers - 22 mo.	Apply to actively growing sorghum between 5 and 30 inches in height and prior to head emergence. In drier climates, COC is preferred over NIS as an additive. Tank mix with atrazine for improved control of pigweeds.
Permit 75WSG (halosulfuron) also Sempra	0.67 oz	Corn - 1 mo.; IMI corn - immediately; sorghum, wheat - 2 mos.; cotton - 4 mos.; soybeans - 9 mos.	Apply postemergence to grain sorghum from 2 leaf through layby stage, before head emergence. Refer to label for specific weed stages. Provides control of yellow nutsedge. Needs to be tank mixed with Clarity or 2,4-D for control of pigweeds. Add NIS @ 0.25% v/v as an additive.
Shotgun 3.25L (atrazine + 2,4-D Lvester)	2 pints	Corn, sorghum - immediately; soybeans - following year; wheat - check label; cotton - following year.	Apply postemergence to sorghum from spike to 5-leaf stage, but before crop is more than 12 inches in height. Apply to small, actively growing broadleaf weeds. Lodging and brittle stems may occur in sorghum after application. Restricted Use.
2,4-D amine 4 2,4-D LV6	0.5 - 1.0 pint 0.5 pint	cotton - following year; corn - immediately; sorghum, wheat 0.5 mo.; soybeans - check label.	Apply postemergence to sorghum from 6 to 15 inches in height. If sorghum is taller than 8 inches in height, use drop nozzles and keep spray off foliage. Do not treat during the boot, flowering, or dough stage as head blasting may occur. Apply to small, actively growing broadleaf weeds.