

2003 Texas Panhandle Grain Sorghum Weed Control Guide

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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

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 qt med- 0.75-1.2 qt coarse- do not use fine- 0.8-1.4 lb med- 0.8-1.4 lb 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 qt med- 1.6-2.1 qt 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 qt med- 1.1-1.5 qt 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 qt med- 2.75-3.75 qt 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 pt med- 1.5 pt coarse- 1.3 pt	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. See label for low O.M. or high PH soil restrictions.

*- 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 pt med- 3.5-4.5 pt coarse- 3.0-3.5 pt Do not use on coarse soil if less than 1% OM.	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 pt med- 2.8-3.4 pt coarse- 2.4-2.8 pt 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 qt med- 2.75 qt coarse- 2.5 qt	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)	<u>Preemergence</u> fine- 2.0-2.5 qt med- 2.0-2.25 qt coarse- 1.5-2.0 qt <u>Preplant Inc.</u> fine- 2.5-3.0 qt med- 2.5-2.75 qt coarse- 2.0-2.5 qt	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 pt med- 3.0-4.0 pt coarse- 2.5-3.0 pt 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 oz med- 14-16 oz coarse- 10-14 oz 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.

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

Postemergence Broadleaf Herbicides

Trade Name (common name)	Product Rate per Acre*	Rotation Restrictions	General Comments
Aim 40DF or Avalanche 2EC (carfentrazone- ethyl)	Aim 0.33 oz Avalanche 0.5 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 60 DF + 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.	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 qt 1.3 lb	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.
Buctril 2E Buctril 4EC (bromoxynil)	1 pt - 3 leaf to pre- boot sorghum 1.5 pt - 4 leaf to pre-boot sorghum 0.5 pt - 3 leaf to pre-boot sorghum 0.75 pt - 4 leaf to pre-boot sorghum	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)	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 pt	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.

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

Trade Name (common name)	Product Rate per Acre*	Rotation Restrictions	General Comments
Paramount 75DF (quinclorac)	8.0 oz	Do not apply to any crop other than wheat or sorghum for 10 mos.	Apply over the top of milo up to the 12 inch stage. Provides good control of field bindweed. Provides 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)	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 LV ester)	2 pt	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 pt 0.5 pt	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.

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

Layby Treatments

Prowl 3.3 EC (pendimethalin)	Coarse 1.2 - 1.8 pt Med. 1.8 - 2.4 pt Fine 1.8 - 3.6 pt	Wheat - after 4 mo., Cotton and soybeans - immediately Corn, sorghum - the following year.	Must cultivate to throw at least one inch of soil over bases of the grain sorghum plants prior to herbicide application. Sorghum must be at least 4 inches in height. Drop nozzles may be required. Only controls weeds that have not germinated. See label for further instructions.
Treflan HFP 4EC (trifluralin)	Coarse 1.0 pt Med. 1.25 - 1.5 pt Fine 1.5 - 2.0 pt	Depends somewhat on annual rainfall. Wheat - 4 mo., Sorghum - 12 to 18 mo., Corn - 5 mo., Cotton and soybeans - immediately.	

Other herbicide labeled for use in sorghum, but seldom recommended or use in the Texas panhandle and south plains include Basagran, Ramrod, and Karmex (diuron).

A few generic herbicides are not mentioned here, but should be effective. In using generics check the formulation to make sure that the amount of active ingredient is the same as the name brand product. This will effect the rate used.

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