

Quick Guide for Weed Control in Texas High Plains Grain Sorghum – 2008

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Pre-emergence Use

Trade Name (common name)	Product Rate per Acre	Rotation Restrictions	General Comments
AAtrex atrazine (4L) AAtrex Nine-0 WDG See label for Nine-0 rates	Northern High Plains: 0.75 to 1.2 qts S. High Plains: 0.5 to 0.75 qts Coarse soil: do not use	Corn or sorghum - immediately; all others usually the following year. Can be risky to cotton under prolonged dry conditions.	Apply PRE (to the soil prior to crop emergence. Do not use on soils with less than 1% O.M. or sand, loamy sand or sandy loam textured. Good broadleaf herbicide, particularly pigweed. 24c label for Texas use.
Bicep II Magnum or Cinch ATZ 5.5L (s-metolachlor + atrazine)	Fine: 1.6 - 2.1 qts Med: 1.6 - 2.1 qts Coarse: do not use Do not use on any soils with < 1% O.M.	Only corn or sorghum can be planted the following season. See atrazine restrictions.	Apply preplant, PPI or PRE for control of both annual grasses and broadleaves. Excellent pigweed, crabgrass, and barnyardgrass control. Must use Concep safened seed.
Bicep Lite II Magnum or Cinch ATZ Lite 6.0L (s-metolachlor + atrazine)	Fine: 1.1 - 1.5 qts Med: 1.1 - 1.5 qts Coarse: do not use Do not use on any soils with < 1% O.M.	Only corn or sorghum can be planted the following season. See atrazine restrictions.	Apply as either PPI or PRE for control of both annual grasses and broadleaves. Excellent pigweed, crabgrass, and barnyardgrass control. Must use Concep safened seed.
Bullet 4EC or Lariat 4EC (alachlor + atrazine)	Coarse: 2.5 qts Med: 2.75 qts Fine: 3.0 qts	Corn and sorghum the following year; others follow atrazine restrictions.	Apply PRE for control of annual grasses and broadleaves. Slightly increased rates for minimum and no-tillage systems. Must use safened seed.
Dual Magnum or Cinch 7.64EC (metolachlor)	Fine: 1.3 - 1.67 pts Med: 1.3 - 1.5 pts Coarse: 1.0-1.3 pts	Corn, cotton, peanuts, sorghum, soybeans - immediately; wheat - 4.5 mos.	Apply as either PPI or PRE for control of annual grasses, broadleaves and yellow nutsedge. Must use safened seed.

Trade Name (common name)	Product Rate per Acre	Rotation Restrictions	General Comments
Guardsman Max 5L (dimethenamid + atrazine) See label for G - Max Lite (less ATZ)	Med to fine soils: 3.0 to 4.0 pts. Coarse soils: 2.0 to 3.0 pts. Do not use on coarse soils if less than 1% O.M.	Corn, sorghum - immediately; cotton, soybeans, peanuts - following year; others - check label.	Apply as either PPI or PRE for control of annual grasses and broadleaves. Reduced rates can be used for less carryover and partial control. Must use safened seed.
Micro-Tech 4EC Intrro 4EC (alachlor)	<u>Pre</u> Fine: 2.0 - 2.5 qts Med: 2.0 - 2.25 qts Coarse: 1.5-2.0 qts <u>Preplant Inc.</u> 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.
Milo-Pro 4 EC (propazine)	Coarse: Do not use. Sandy loam & med. to fine soils: 0.75 – 1.2 qts	Wheat – 120 days. Corn & cotton – 12 months.	Apply preplant or PRE for control of broadleaf weeds. Will NOT control atrazine tolerant weeds. Shallow incorporation when applied preplant can improve weed control under dry conditions. Do not incorporate in sandy loam soils. Best to use 50 mesh screens and at least 30 to 40 lbs pressure.
Outlook 6EC (dimethenamid)	Med and fine soil: 14 to 18 ozs. Coarse soil: 12 to 14 ozs. Do not use on coarse soil if < 1% OM.	Corn, sorghum, soybeans - immediately; fall-seeded cereal crops - > 4 mos. Cotton should be okay the following year.	Apply as either preplant, PPI, or PRE for control of annual grasses and broadleaves. Must use safened seed.
Prowl 3.3EC (pendimethalin) Prowl H2O (3.8 lb/gal)	Fine: 2.4 – 3.6 pts Med: 1.8 – 2.4 pts Coarse: 1.2-1.8 pts Coarse, med., fine: 1.5, 2.0 and 3.0, respectively	Corn and sorghum the following year; soybeans and cotton immediately; wheat - 4 mos	Apply to 4 inch sorghum up to last cultivation. Culti-spray -- must throw 1 inch of soil around base of plant. Incorporate with sweeps, rolling cultivator, or irrigation.

Post-emergence Use

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, sorghum, and cotton the following season, wheat immediately, other crops see label.	Supplemental label. 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 Nine-0 WDG	1.2 qts 1.3 lbs	If rainfall is sparse only plant corn or sorghum the following year. Label vague on rotation to cotton.	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. Weak on grass control.
Starane 1.5L (fluroxypyr)	2/3 pt	No crop rotation restrictions.	Apply over-the-top of 3 to 7-lf sorghum. Drop nozzles may be used for 7-lf up to boot stage sorghum. Good on kochia and morningglory. Use with NIS. Cotton can be injured from drift.
Buctril 2E Buctril 4EC (bromoxynil)	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	Corn and 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. Best used in combination with atrazine.
Clarity 4L (diglycolamine salt of dicamba) Banvel also labeled	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 is 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.

Trade Name (common name)	Product Rate per Acre*	Rotation Restrictions	General Comments
Marksman 3.2L (dicamba + atrazine)	1.5 - 2.0 pts	See Clarity and atrazine restrictions.	Apply to sorghum prior to 12 inches in height. 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.
Paramount 75DF (quinclorac)	8.0 oz	Do not plant most crops other than wheat or sorghum for 10 mos. Alfalfa 24 mos.	Apply over the top of sorghum up to 12 inch in height. Provides good control of field bindweed. Provides suppression of barnyardgrass. Apply with COC @ 1 qt/ac or MSO.
Peak 57WDG (prosulfuron)	0.5 - 1.0 oz Rate depends upon weed species, size and rotational crop.	Wheat immediately, corn, sorghum - 1 mo., soybeans, cotton - 18 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 pigweed.
Permit 75WSG (halosulfuron)	0.67 oz	Corn - 1 mo. sorghum, wheat - 2 mos., cotton - 4 mos., soybeans - 9 mos.	Apply post emergence 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.
Yukon (halosulfuron + dicamba)	4 – 6 ozs	Follow Clarity restrictions.	Apply from 2 lf through 15 inches in height. Use drop nozzles if sorghum is > 8 inches. Use with COC or NIS. Good for nutsedge and vol. sunflower control.
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 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.

Other notes:

Direx: Can be applied post-direct.

Treflan or trifluralin: Limited label for use in grain sorghum.

Several generic brands not mentioned in the table are available.

General soil types:

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

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