

2007 Texas High Plains Sunflower Weed Control Guide

Brent Bean, Extension Agronomy, Texas A&M-Amarillo, bbean@ag.tamu.edu, 806-677-5600

Calvin Trostle, Extension Agronomy, Texas A&M-Lubbock, ctrostle@ag.tamu.edu, 806-746-6101

Info. is provided as a general education guide only; no discrimination is intended or endorsement implied.

Refer to individual labels for specific instructions before using any herbicide listed.

Preemergence Broadleaf and Grass Herbicides

Trade Name (common name)	Product Rate per Acre*	Rotation Restrictions	General Comments
Dual Magnum (not Dual II Magnum) s-metolachlor	All soils <3% O.M. fine- 1.33-1.67 pts./A med.-1.33-1.67 pts./A coarse-1.00-1.33 pts./A	Small grain, 4.5 mos. to following spring Next spring-corn, cotton, peanut, sorghum, soybean	Preplant incorporate 0-14 days before seeding or pre-emerge (PRE).
Eptam 7E Eptam 20G (EPTC)	fine- 3.0-3.5 pts med.- 2.5-3.0 pts coarse- 2.5 pts fine- 15 lbs med.- 15 lbs coarse- 10 lbs	After harvest.	Apply and incorporate just before planting. Can also apply in fall at higher rates. Can tank-mix 7E with Prowl or Treflan.
Prowl 3.3EC Pendimax 3.3 (pendimethalin)	fine- 2.4-3.6 pts med.- 1.8-3.6 pts coarse- 1.2-2.4 pts	Corn, sorghum - following year; soybeans - immediately; wheat - 4 mos	Apply in spring 0-60 days prior to planting and incorporate within 7 days.
Sonalan HFP Sonalan 10G (ethalfluralin)	fine- 2.5-3.0 pts med.- 2.0-2.5 pts coarse- 1.5-2.0 pts fine- 9.5-11.5 lbs med.- 7.5-9.5 lbs coarse- 5.5-7.5 lbs	Most crops - next season. Refer to label.	Apply preplant 0-21 days prior to planting. Incorporate within 2 days. For no-till, granules are preferred.
Sonalan HFP Sonalan 10G (ethalfluralin)	fine- 2.5-3.0 pts med.- 2.0-2.5 pts coarse- 1.5-2.0 pts fine- 9.5-11.5 lbs med.- 7.5-9.5 lbs coarse- 5.5-7.5 lbs	Most crops - next season. Refer to label.	Apply preplant 0-21 days prior to planting. Incorporate within 2 days. For no-till, granules are preferred.
Spartan 4F (sulfentrazone)	<1.0% organic matter, fine- 3.75-5.25 oz med.- 3.0-4.5 oz coarse- 3.0-3.75 oz 1.0-3.0% organic matter fine- 4.5-6.75 oz med.- 3.75-6.0 oz coarse- 3.0-4.5 oz	Cotton - 18 months Small grains - 4 months Corn, sorghum - 10 mos. Refer to label.	Apply preplant 0-21 days prior to planting., or up to 3 days after planting. For PPI do not exceed 2" deep. If soil pH > 7 use lower range of labeled rate. **Coarse, sandy soils— apply at least 7-14 (preferably ≥ 14 days before planting). Adverse crop response may occur for coarse soils with OM < 1.5% and soil pH > 7.8— reduce rates, esp. if caliche.

Treflan HFP	fine- 1.5-2.0 pts med.- 1.25-1.5 pts coarse- 1.0 pt	Most grass crops - 18 mos.	Apply as fall or spring preplant. Incorporate immediately. Prefer granular for heavy residue.
Treflan TR-10 (trifluralin)	fine- 7.5-10.0 lbs med.- 6.25-7.5 lbs coarse- 5.0 lbs		

*Product rates are given for 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.

Postemergence Broadleaf Broadleaf & Grass Herbicides

Trade Name (common name)	Product Rate per Acre*	Rotation Restrictions	General Comments
Beyond only for imi-tolerant Clearfield sunflower (imazamox)	4 oz.	Clearfield crops anytime. Wheat – 4 mos. Other small grains, 4-18 mos. Corn, grain sorghum, cotton, peanut – 9 mos.	At 2-8 true leaf stage; broadleaves ≤3” and grasses ≤4-5” label recommends that grass herbicide such as pendimethalin be used before Beyond

Dupont Express herbicide is also labeled for Express-tolerant sunflower.

Postemergence Grass Herbicides

Trade Name (common name)	Product Rate per Acre	Rotation Restrictions	General Comments
Poast (sethoxydim)	Up to 2.5 pts. in one application, max. 2.5 season long + 1.0 qt COC	No restrictions.	Apply to actively growing grasses at sizes and rates specified in label. Sunflowers are tolerant to Poast at all stages. Do not apply within 70 days of harvest.

Trade Name (common name)	Product Rate per Acre	Rotation Restrictions	General Comments
Select 2EC Prism Arrow 2EC (clethodim)	6.0-16.0 fluid ounces/A + 1.0 qt COC	No restrictions.	Apply to actively growing grasses at sizes and rates specified in label. Sunflowers are tolerant to clethodim at all stages. Do not apply within 70 days of harvest. AMS gives improved grass control for johnsongrass, other grasses.