

TELAR DF[®] HERBICIDE IN RANGELAND

Frank Aulgur
Dupont Vegetation Management Specialist
Roseville, California

In early summer 2003, California granted Dupont registration of a supplemental label allowing for use of Telar[®] DF Herbicide (chlorsulfuron) in Pasture, Range, and Conservation Reserve Program (CRP) in the state of California. This is important news for California ranchers, wildlife biologists conducting habitat restoration, and Vegetation Managers in general. Telar DF was developed by Dupont to provide control of unwanted vegetation, thereby helping to provide protection from the introduction and/or spread of invasive species which can have a negative impact on species diversity.

Dupont Telar[®] DF is a member of the Dupont family of sulfonyleurea (SU) herbicides which are characterized by very low use rates-typically ¼ to 2 ounces per acre. This is beneficial because, as compared to higher use rate products, the use of Telar[®] DF and other SUs helps decrease the load of chemicals in the environment. Additionally, SUs have been found to be very low in toxicity to mammals, birds, insects, and fish.

Treatments may be applied by any ground equipment or by fixed wing aircraft or by helicopter.

Telar[®] DF herbicide offers a two way approach to controlling weeds offering foliar systemic activity, and soil residual activity.

There are no grazing or hay harvest restrictions for any livestock, including lactating animals, with application rates up to 1 1/3 ounce product/acre of Telar[®] DF. No enclosure is required for any animals.

Application Rates and Weeds Controlled

The following application rates are recommended for broadcast applications on the respective forage grasses:

¼ to 1 ounce/acre

Bahiagrass	Orchardgrass**
Bermudagrass	Wheatgrass
Blue gramma	(crested, intermediate, thick spike, pubescent, slender,
Bluegrass	streambank, tall, and western)
Brome grasses	
(smooth, meadow)	

¼ to ½ ounce/acre

Bluestems (big, little, sandy)	Indiangrass
Buffalograss	Kleingrass**
Fescue*	Lovegrass
(tall, Kentucky, hard creeping)	Sideoats gramma
Green needlegrass**	Switchgrass
	Wildrye

*Some types of fescue are sensitive. Use rates at the lower end of the rate range.

**Except California

In pasture, range, and conservation reserve program (CRP), Telar® DF's maximum use rate is 1 oz/acre. Application rates higher than those recommended for specific grasses, up to 1 1/3 oz/acre, may be made as a spot treatment provided the resulting injury and possible loss of forage can be tolerated by the grower.

Weeds Controlled

Telar® DF effectively controls weeds when applied at the use rates shown. When applied at lower rates, Telar DF provides short term control of weeds listed; when applied at the higher recommended rates weed control is increased or extended. Make a single application per season to control the following weeds:

¼ to ½ ounce/acre (product)

Annual sowthistle	Mayweed**
Blue mustard	Miners lettuce**
Common chickweed	Pineapple-weed**
Common speedwell	Prostrate pigweed**
Conical catchfly**	Redroot pigweed
Fiddleneck (tarweed)**	Shepherd's-purse**
Field pennycress	Smooth pigweed**
Flixweed*	Treacle mustard**
Hempnettle**	Tumble mustard (Jim Hill)
Henbit	Wild mustard
London rocket**	

**Except California

½ to 1 ounce/acre (product)

Bouncingbet	Goldenrod
Bur beakchervil**	Groundsel**
Buttercup	Marestail
Canada thistle*	Musk thistle
Common lambsquarters	Sweet clover*
Common Sunflower	Tumble mustard

Common speedwell**
Dandelion*

Turkey mullein*
Whitetop (hoary cress)

Prebloom to bloom and fall rosette are recommended timings for Canada thistle, and Whitetop.

*Partial Control only

**Except California

1 to 1 1/3 ounces/acre (product)

Bedstraw*	Horsetail (Equisetum spp)
Black mustard	Pepperweed (perennial)
Bull thistle	Poison hemlock
Burclover	Puncturevine
Canada thistle	Red clover**
Common cinquefoil*	Russian knapweed
Common mallow	Scotch thistle
Common mullein	Scouringrush (Equisetum spp)
Common tansy	Tansymustard
Common yarrow	Whiteclover
Curly dock	Wild carrot

*Partial control only

**Except California

Prebloom to bloom and fall rosette are recommended timings for Russian knapweed.

Broadleaf forage species, such as, clover and alfalfa, are sensitive to Dupont Telar DF and will be severely stunted or injured by Telar DF.

Forage grasses should be well established before applying Telar DF as the newly emerged seedlings of some forage grasses are sensitive to Telar DF.

Varieties and species of forage grasses differ in their tolerance to Telar[®] DF. Ryegrass (perennial and Italian) may be severely injured. Fescues may be temporarily stunted or yellowed. When using Telar[®] DF on a particular grass for the first time, limit the area treated. If no injury occurs, larger areas may be treated in subsequent years.

Given Telar[®] DF's effectiveness on key invasive species, such as, whitetop and perennial pepperweed, and other invasive species, such as Canada thistle, Scotch thistle, and Russian knapweed, California ranchers, and vegetation managers now have another valuable tool available to them in the battle against invasive weed species in our rangeland settings. In 2004, Dupont will seek a 2EE label in California allowing Telar[®] DF herbicide to be tank mixed with Dow Agri Science's Transline[®] herbicide for control of yellow Starthistle.

This document is not a label. Please refer to the Telar[®] DF Herbicide Supplemental Labeling for weed control in pasture, range, and conservation reserve program (CRP), available from Dupont for complete use instructions, precautions, and guidelines for use.