

## **SPECIFIC WEED PROBLEMS - YELLOW STARHISTLE**

General Information

### **PRODUCT INFORMATION**

Telar XP Herbicide is a dry flowable that is mixed in water and applied as a spray.

Telar XP Herbicide is for the control of many invasive and noxious broadleaf weeds in pasture, range, Conservation Reserve Program (CRP) lands, and non-crop industrial sites, including grazed areas on these sites.

These non-crop industrial sites include, industrial sites, banks of dry drainage ditches, airports, military installations, fence rows, roadsides and associated rights-of-way, lumberyards, petroleum tank farms, pipeline and utility rights-of-way, pumping installations, railroads, storage areas, and plant sites, including governmental and private lands.

Telar XP Herbicide is noncorrosive, nonflammable, nonvolatile and does not freeze.

Telar XP Herbicide can be applied as a preemergence or postemergence treatment. For best annual weed control, apply Telar XP Herbicide during early stages of weed growth. The degree and duration of control may depend on the following:

- use rate
- weed spectrum and size at application
- environmental conditions at and following treatment

For control of perennial weeds with Telar XP Herbicide alone, best results are obtained when weeds are treated in the bud to bloom or fall rosette stage. This product may be applied on pasture, range, CRP and non-crop sites that contain areas of temporary surface water caused by the collection of water between planting beds, in equipment ruts, or in other depressions created by management activities. It is permissible to treat intermittent drainage, intermittently flooded low lying sites, seasonably dry flood plains and transitional areas between upland and lowland sites when no water is present. It is also permissible to treat marshes, swamps and bogs after water has receded as well as seasonally dry flood deltas. DO NOT make applications to natural or man-made bodies of water such as lakes, reservoirs, ponds, streams and canals.

#### Environmental Conditions and Biological Activity

Telar XP Herbicide is absorbed by both the roots and foliage of plants, rapidly inhibiting the growth of susceptible weeds. Two to 3 weeks after application to weeds, leaf growth slows, and the growing points turn reddish-purple. Within 4 to 6 weeks of application, leaf veins and leaves become discolored, and the growing points subsequently die.

Warm, moist conditions following treatment enhance the effectiveness of Telar XP Herbicide since moisture carries Telar XP Herbicide into weed roots, preventing roots from developing. Cold, dry conditions delay the activity of Telar XP Herbicide. Weeds hardened off by cold weather or drought stress are less susceptible to Telar XP Herbicide.

Telar XP Herbicide is safe to labeled grasses under normal conditions. However, grasses that are stressed from adverse environmental conditions (such as extreme temperatures or moisture), abnormal soil conditions, or cultural practices may be injured by applications of Telar XP Herbicide. In addition, different species of grass may be sensitive to treatment with Telar XP Herbicide under otherwise normal conditions. Application of Telar XP Herbicide to these species may result in injury.

#### RESISTANCE

When herbicides that affect the same biological site of action are used repeatedly over several years to control the same weed species in the same field, naturally-occurring resistant biotypes may survive a correctly applied herbicide treatment, propagate, and become dominant in that field. Adequate control of these resistant

weed biotypes cannot be expected. If weed control is unsatisfactory, it may be necessary to retreat the problem area using a product affecting a different site of action.

To better manage herbicide resistance through delaying the proliferation and possible dominance of herbicide resistant weed biotypes, it may be necessary to change cultural practices within and between crop seasons such as using a combination of tillage, retreatment, tank-mix partners and/or sequential herbicide applications that have a different site of action. Weed escapes that are allowed to go to seed will promote the spread of resistant biotypes.

It is advisable to keep accurate records of pesticides applied to individual fields to help obtain information on the spread and dispersal of resistant biotypes.

Consult your agricultural dealer, consultant, applicator, and/or appropriate state agricultural extension service representative for specific alternative cultural practices or herbicide recommendations available in your area.

#### INTEGRATED PEST MANAGEMENT

This product may be used as part of an Integrated Pest Management (IPM) program that can include biological, cultural, and genetic practices aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

#### INVASIVE SPECIES MANAGEMENT

This product may be used on public, private, and tribal lands to treat certain weed species infestations that have been determined to be invasive, consistent with the Federal Interagency Committee for the Management of Noxious and Exotic Weeds (FICMNEW) National Early Detection and Rapid Response (EDRR) System for invasive plants. Effective EDRR systems address invasions by eradicating the invader where possible, and controlling them when the invasive species is too established to be feasibly eradicated. Once an EDRR assessment has been completed and action is recommended, a Rapid Response needs to be taken to quickly contain, deny reproduction, and if possible eliminate the invader. Consult

your appropriate state extension service, forest service, or regional multidisciplinary invasive species management coordination team to determine the appropriate Rapid Response provisions and allowed treatments in your area.

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Telar XP Herbicide must be used only in accordance with instructions on this label or in separately published BAYER CROPSCIENCE LP information. BAYER CROPSCIENCE LP will not be responsible for losses or damages resulting from the use of this product in any manner not specified by BAYER CROPSCIENCE.

Do not apply this product through any type of irrigation system.

#### PREPARING FOR USE - Site Specific Considerations

Understanding the risks associated with the application of Telar XP Herbicide is essential to aid in preventing off-site injury to desirable vegetation and agricultural crops. The risk of off-site movement both during and after application may be affected by a number of site specific factors such as the nature, texture and stability of the soil, the intensity and direction of prevailing winds, vegetative cover, site slope, rainfall, drainage patterns, and other local physical and environmental conditions. A careful evaluation of the potential for off-site movement from the intended application site, including movement of treated soil by wind or water erosion, must be made prior to using Telar XP Herbicide. This evaluation is particularly critical where desirable vegetation or crops are grown on neighboring land for which the use of Telar XP Herbicide is not labeled. If prevailing local conditions may be expected to result in off-site movement and cause damage to neighboring desirable vegetation or agricultural crops, do not apply Telar XP Herbicide.

Before applying Telar XP Herbicide the user must read and understand all label directions, precautions and restrictions completely, including these requirements for a site specific evaluation. If you do not understand any of the instructions or precautions on the label, or are unable to make a site specific evaluation yourself,

consult with your local BAYER CROPSCIENCE Crop Protection representative, local agricultural dealer, university cooperative extension service, land manager, professional applicator, agricultural consultant, or other qualified authorities familiar with the area to be treated. If you still have questions regarding the need for site specific considerations please call 1-800-331-2867.

## ADDITIONAL USE INSTRUCTIONS FOR AGRICULTURAL AND NON-AGRICULTURAL USES

### SPRAY EQUIPMENT

Application to non-crop sites, except rights-of-way, is restricted to ground application only, unless otherwise directed by Supplemental or Special Local Need labeling. Rights-of-way may also be treated by helicopter.

In pasture, range or Conservation Reserve Program (CRP), treatments of Telar XP Herbicide may be applied by either ground equipment, fixed wing aircraft, or helicopter.

Equipment used to apply Telar XP Herbicide should not be used for applications to crops following a Telar XP Herbicide application, as low rates of Telar XP Herbicide may kill or severely injure most crops (except pasture, range, and small grains).

For specific application equipment, refer to the manufacturer's specifications for additional information on GPA, pressure, speed, nozzle types and arrangements, nozzle heights above the target canopy, etc.

Be sure to calibrate air or ground equipment before application. Select a spray volume and delivery system that will ensure a uniform spray pattern and thorough coverage of weed pests. Use higher spray volumes to obtain better coverage when the weed canopy is dense. Avoid swath overlapping, and shut off spray booms while starting, slowing, or stopping to avoid crop injury.

Do not make applications using equipment and/or spray volumes or under weather conditions that might cause spray drift onto nontarget sites. For additional information on spray drift, refer to the Spray Drift Management section of the label.

Continuous agitation is required to keep Telar XP Herbicide in suspension.

### GROUND APPLICATION

#### BROADCAST APPLICATION

Use sufficient spray volume (minimum of 10 gallons per acre) to help provide uniform coverage of the target weeds. For areas with heavy weed infestations, best results are achieved with higher spray volumes, generally 20 to 40 gallons per acre. Be sure to calibrate sprayers before application. When spraying industrial turf, avoid overlapping and shut off spray booms while starting, turning, slowing, or stopping to avoid injury to desired species.

#### HIGH VOLUME HANDGUN APPLICATION

Use 50 to 300 gallons of spray solution per broadcast acre. Mix Telar XP Herbicide at 1 to 2.6 ounces per acre. Determine spray volume application amount needed for coverage of the site prior to adding Telar XP Herbicide to the spray tank. Ensure thorough weed and/or site coverage for best results and use the higher rate for harder to control species.

#### INVERT SPRAY APPLICATION

Apply the high viscosity invert solution as a total volume of 10 to 40 gallons per acre. Mix 1/4 to 2.6 ounces of Telar XP Herbicide per acre in the water phase of the invert solution. Refer to the Weeds Controlled sections of this label for selecting the appropriate use rate for the target weeds. Follow all use directions and cautionary statements appearing on the labels of the inverting oils and additives or listed in the operators manual of the inverting equipment by its manufacturer.

#### SPOT APPLICATION

##### PASTURE, RANGE AND CONSERVATION RESERVE PROGRAM (CRP)

Telar XP Herbicide is to be used for control of the previously listed weeds in pasture, range, and CRP using spot applications. Spot applications may be made by using equipment such as back pack sprayers.

Telar XP Herbicide should be applied as a spray to the foliage and stems. The application volume will vary with the height and density of the weeds and the application equipment used. Regardless of the application volume and equipment used, thorough coverage of the foliage and stems is required to optimize results. To improve postemergence control of weeds, a spray adjuvant should be added at 0.25% volume or at the manufacturer's specified rate.

Use the measuring guide enclosed with the Telar XP Herbicide container to mix one gram of Telar XP Herbicide per one gallon of water along with a suitable surfactant. Spray to the point of wetting the entire surface of the target weeds, approximately

35 gallons of solution per acre.

#### NON-CROP SITES

Spot applications in non-crop sites may be applied at an equivalent broadcast rate of up to 5.2 ounces product per acre per year but not more than 50% of an acre may be treated. Do not apply more than 2.6 ounces product per broadcast acre per year as a result of broadcast, spot or repeat applications.

To prevent misapplication, spot applications should be applied with either a calibrated boom sprayer, a boom-less sprayer, or a hand-held or backpack sprayer.

For smaller areas, the application rates in Table 1 are based on treating an area of 1000 square feet (sq ft). Mix Telar XP Herbicide in 0.3 to 3 gallons of water, depending on the spray volume necessary to uniformly treat 1000 sq ft. A spray volume of 0.3 to 3 gallons per 1000 sq ft is equivalent to 13 to 130 gallons per acre.

#### AERIAL APPLICATION

Use nozzle types and arrangements that provide optimum spray distribution and maximum coverage.

Use a minimum of 3 GPA.

When applying Telar XP Herbicide by air in areas adjacent to sensitive crops, use solid stream nozzles oriented straight back. Adjust the swath to avoid spray drift damage to sensitive crops downwind and/or use ground equipment to treat the border edge of fields. See the Spray Drift Management section of this label.

#### SPRAY ADJUVANTS

To improve postemergence weed control, a high quality spray adjuvant should be added at the manufacturer's specified use rate. Do not use LI-700 or any acidifying spray adjuvants with Telar XP Herbicide.

#### CROP ROTATION

Before using Telar XP Herbicide, carefully consider your rotation plans and options. If rotational flexibility is desired, do not treat all of your pasture, rangeland, or CRP acres at the same time.

#### BIOASSAY

A field bioassay must be completed before rotating to any crop or grass species/variety not listed in this label.

To conduct a field bioassay, grow test strips of the crop(s) or grass(es) you plan to

grow the following year in fields previously treated with Telar XP Herbicide. Crop or grass response to the bioassay will indicate whether or not to rotate to the crop(s) or grass(es) grown in the test strip.

If a field bioassay is planned, check with your local dealer or BAYER CROPSCIENCE LP representative for information detailing the field bioassay procedure.

#### GRAZING/HAYING

There are no grazing or hay harvest restrictions for any livestock, including lactating animals, with application rates up to 1 1/3 ounces/acre of Telar XP Herbicide. No enclosure is required for any animals.

#### PESTICIDE HANDLING

- Calibrate sprayers only with clean water away from the well site.
- Make scheduled checks of spray equipment.
- Assure accurate measurement of pesticides by all operation employees.
- Mix only enough product for the job at hand.
- Avoid over-filling of spray tank.
- Do not discharge excess material on the soil at a single spot in the field/grove or mixing/loading station.
- Dilute and agitate excess solution and apply at labeled rates/uses.
- Avoid storage of pesticides near well sites.
- When triple rinsing the pesticide container, be sure to add the rinsate to the spray mix.

#### IMPORTANT PRECAUTIONS AND RESTRICTIONS

- Injury to or loss of desirable trees or other plants may result if equipment is drained or flushed on or near desirable trees or other plants, on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.
- Treatment of powdery, dry soil and light, sandy soils when there is little likelihood of rainfall soon after treatment may result in off target movement and possible damage to susceptible crops when soil particles are moved by wind or water. Injury to crops may result if treated soil is washed, blown or moved onto land used to produce crops. Exposure to Telar XP Herbicide may injure or kill most crops (except small grains). Injury may be more severe when crops are irrigated. Do not apply Telar XP Herbicide when conditions are identified and powdery, dry soil or light or sandy soils are known to be prevalent in the area being treated.
- Applications made during periods of intense rainfall, to soils saturated with water,



surfaces paved with materials such as asphalt or concrete, or soils through which rainfall will not penetrate may result in runoff and movement of Telar XP Herbicide.

- Do not treat frozen or snow covered soil.
- Treated soil should be left undisturbed to reduce the potential for Telar XP Herbicide movement by soil erosion due to wind or water.
- Applications made where runoff water flows onto agricultural land may injure crops.
- When Telar XP Herbicide is applied at rates of 1 1/3 ounces/acre and less there is no restriction on grazing or haying of forage grasses.
- Grass species or varieties may differ in their response to various herbicides. BAYER CROPS SCIENCE LP recommends that you first consult your state experiment station, university, or extension agent as to sensitivity to any herbicide. If no information is available, limit the initial use of Telar XP Herbicide to a small area. Components in a grass seed mixture will vary in tolerance to Telar XP Herbicide so the final stand may not reflect the seed ratio.
- Under certain conditions such as heavy rainfall, high pH, prolonged cold weather, or wide fluctuations in day/night temperatures prior to or soon after Telar XP Herbicide application, temporary discoloration and/or grass injury may occur. Telar XP Herbicide should not be applied to grass that is stressed by severe weather conditions, drought, low fertility, watersaturated soils, disease, or insect damage, as grass injury may result. Severe winter stress, drought, disease, or insect damage before or following application may also result in grass injury.
- Applications of Telar XP Herbicide to pastures, range or CRP undersown with legumes may cause injury to the legumes. Legumes in a seeding mixture may be severely injured or killed following an application of Telar XP Herbicide.
- Do not use on lawns, walks, driveways, tennis courts, or similar areas.
- Do not apply in or on irrigation or drainage ditches or canals including their outer banks.
- Do not allow Telar XP Herbicide to drift or move into irrigation or drainage ditches.
- Do not apply through any type of irrigation system.
- Do not use this product in the following counties of Colorado: Saguache, Rio Grande, Alamosa, Costilla, and Conejos.
- Do not apply this product in a way that will contact any person or pet, either directly or through drift. Keep people and pets out of the area during application.
- Do not allow people or pets to enter the treated area until sprays have dried.

Limitations, Restrictions, and Exceptions

Yellow Starthistle (*Centaurea solstitialis*): Apply Telar XP Herbicide at 1/2 to 2.6 ounces per acre in combination with the specified rates of other herbicides registered for this use (such as, "Transline", "Tordon" 22K or 2,4-D). For application method and other use instructions, use the most restrictive directions for the intended use. To improve postemergence control, a spray adjuvant should be added at the manufacturer's specified use rate.

When applied at lower rates, Telar XP Herbicide provides short term control; when applied at higher rates, weed control spectrum and residual is increased.

#### Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

#### Restricted Entry Interval

4 hours

#### Timings

[Postemergence \(Weed\)](#)