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COOPERATIVE EXTENSION • TUOLUMNE COUNTY

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“Star Thistle Killer” Brand Herbicide

Note: In California, the maximum application rate is $\frac{1}{4}$ fl oz (1½ teaspoons) per 1000 square feet per annual use season.

Calibration Notes:

- Label application rate is 1/8 to 1/4 fluid oz in 2 gallons of water per 1000 sq ft
- One acre = 43,560 sq ft
- At 1/8 fluid oz application rate, 8-oz bottle will treat 1.5 acres
- At 3/16 fluid oz application rate, 8-oz bottle will treat 1 acre
- At 1/4 fluid oz application rate, 8-oz bottle will treat ¾ acre
- Typical backpack sprayer = 3 gallons (enough solution to treat 1500 sq ft)
- **¾ to 1½ teaspoon Star Thistle Killer in 2 gallons water** will treat 1000 sq ft.
- 1-1/8 teaspoons to 2½ teaspoons in typical three-gallon backpack sprayer will treat 1500 sq ft.

To calibrate spray rate, place one gallon water in three-gallon sprayer. Mark out 500 square feet, using line, flags, 500 sq.ft. tarp, etc. The dimensions of the plot aren't critical; it can be 10' x 50', 20' x 25', etc.

Walk the area, spraying evenly from the backpack sprayer. Make sure you can cover the entire area with spray and use all the spray within that area. That will be the same rate at which you spray Star Thistle Killer solution in a three-gallon backpack sprayer.

Safety Notes:

- Wear personal protective equipment (goggles, chemical-resistant gloves, long sleeves); clopyralid can cause eye damage.
- Optimal spray coverage is light; avoid wetting plants.
- Do not spray within 25' of water or drainages where water can collect.
- Do not spray when rain is expected.
- Moves through soil, especially sandy soil.
- Spray when wind is less than 10 miles per hour—drift can damage desirable plants and crops.
- Do not compost materials sprayed with Star Thistle Killer.
- Do not use on lawns.
- Do not use near vegetable gardens or crops.
- **Read the label.**