

Milestone and Transline

How much should I use?

Milestone's labeled rate is **3 to 5 fluid ounces per acre** for Yellow starthistle and **cannot** exceed 7 ounces per acre per year. Milestone can be applied up to water's edge, but **cannot** drift into any waterbody. **Transline's** labeled rate is **4 to 10.5 fluid ounces per acre** for Yellow starthistle and **cannot** exceed 10.5 ounces per acre per year. A non-ionic surfactant may be added at 1 to 2 quarts per 100 gallons of spray mixture to improve uptake of Milestone/Transline by the plant. To figure out how much Milestone/Transline to put in your sprayer you must first calculate your spray volume and application rate. Follow these steps to calibrate your sprayer and thereby figure out your spray volume and application rate:

Step 1: Clean your sprayer and nozzle, then fill the tank with clean water. Check to make sure that the nozzle is producing a uniform spray. If not, adjust and/or re-clean the nozzle.

Step 2: Measure an area 18.5 feet by 18.5 feet in or near the terrain where you'll be spraying.

Step 3: Time the number of seconds it takes to spray the measured area uniformly with water using gentle side to side sweeping motions. Record the number of seconds required to spray the area. REPEAT THIS STEP at least one more time and take an average of all the times.

Step 4: Spray into a container for the average time calculated in Step 3.

Step 5: Measure the number of fluid ounces of water in the bucket.

The volume of fluid ounces = the gallons of water per acre (GPA)

Example: It takes 10 seconds to treat the 18.5 foot square. In 10 seconds you collect 30 ounces. Therefore you treated the square with a total spray volume at 30 GPA. Be uniform in your speed and remember as weeds get taller or more dense, you will slow down to insure coverage, and your volume per acre will increase.

Step 6: Use the following tables to determine how many ounces of Milestone/Transline to add to your spray tank.

Amount (in cc) to mix in 1 gallon of water:

GPA	5 fl oz per acre	7 fl oz per acre
20	7.5	10.5
30	5.0	7.0
40	3.8	5.3
50	3.0	4.2
60	2.5	3.5
70	2.1	3.0
80	1.9	2.6
90	1.7	2.3
100	1.5	2.1

Amount (in fluid ounces) to mix in 20 gallons of water:

GPA	5 fl oz per acre	7 fl oz per acre
20	5.0	7.0
30	3.3	4.7
40	2.5	3.5
50	2.0	2.8
60	1.7	2.3
70	1.4	2.0
80	1.3	1.8
90	1.1	1.6
100	1.0	1.4

Conversions:

1tsp = 5 cc

30 cc = 1 fluid ounce

3 tsp = 1 Tbsp

2 Tbsp = 1 fluid ounce

How much Milestone/Transline do I put in my 3 gallon tank? Using the above example GPA of 30, look at the chart above that says cc to mix in 1 gallon of water. Assume you want to apply 5 fluid ounces per acre; the amount listed for your GPA and your application rate is 5.0 cc. Take this times 3 for your 3 gallon tank and you would need 15cc (with a syringe) for your 3 gallon mix. Or, since there are 5 cc in a teaspoon, this would be 3 teaspoons in your mix. Don't forget to triple rinse all equipment after use! The resulting rinse water should be poured onto treatment site.