

Practice problems

1. A farmer wishes to apply atrazine at 3lbs ai/A. How much Aatrex Nine-O will be needed per acre?
2. A farmer wishes to apply 2,4-D at 0.25 lb ae/A to barley. Saber herbicide contains 3.8 lb of 2,4-D ae/gal. How many pints of product should be applied per acre? How many total gallons of herbicide will be applied to a 50 acre field?
3. Picloram can be applied to wheat at 0.25 oz ae/A. Tordon 22K contains picloram at 2 lb ae/gal. How many acres can be treated with 1 gal of Tordon 22K?
4. You have calibrated your equipment to spray 50 gallons per acre. You need to spray 1 acre. The label calls for 3 pounds of formulation per 100 gallons of water. How many pounds of formulation should you add to the tank to make 50 gallons of finished spray?
5. A sprayer with a tank capacity of 300 gallons is calibrated for an application rate of 30 gallons per acre. An 85% wettable powder herbicide is to be applied. The label recommends applying 3 pounds of active ingredient per acre. How many pounds of herbicide product should be added to the spray tank?
6. How many acres can be treated from a spray tank holding 400 gallons if the rate of application is 20 gallons per acre?
7. You have a 5 acre grass pasture that is heavily infested with Canada thistle. To get rid of the thistle you decide to treat it with Tordon 22K (2.0 lb ai/gal) at a recommended rate of 1.0 lb ai/a. Your 200 gal sprayer delivers 35 gal/a of water. How much Tordon 22K should be added to the spray tank to treat the 5 acre pasture?

