Jon “Corn Cob” Ruscoe is farming 1200 acres of cotton and has an infestation of cocklebur. He will spray Daconate 6.0 EC at a rate of 2.0 lb. ai/A as a directed spray. He will be using a spray volume of 25 GPA, and his tank holds 400 gallons. Speed is 4.2 mph and nozzle spacing is 20”.

1. How much Daconate will be used to treat the acreage? 400 gal
2. How many tank loads will be required to treat all the acreage? 75 tank loads
3. How many ml should be caught in 30 sec. from 1 nozzle to be calibrated? 699 mL

A peanut grower wants to treat a peanut field with Dual 25G at a rate of 7.27 lbs /A

1. How much Dual 25G, in pounds, will be needed to treat the 50 acre field on a broadcast basis?

363.5 lbs

1. If an applicator traveled 5 mph, how much Dual 25G (in grams) should be collected over a course 100 feet long if the applicator ports are at a 15” spacing? 9.47 g

You wish to apply atrazine preplant to corn at a rate of 2.25 lb ai per acre. You buy a product called AAtrex 4L. Your 300 gallon sprayer is calibrated to deliver 25 gal per acre driving 4 mph at 40 psi.

1. How much product do you need to add to one tankful? 6.75 gal/tank
2. How many acres will one tankful spray? 12 acres
3. What is the nozzle delivery rate in ml/minute if the nozzle spacing is 15 inches? 955.8 mL/min

If you travel 200 ft in 36 seconds, how many MPH are you going? 3.79 MPH

I need to apply 5 lb ai/A of Weedkiller 50WP. How much should I buy to treat 40 acres? 400 lbs