



## BOOM SPRAYER CALIBRATION\*

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1. Determine nozzle spacing.
2. Refer to the following chart to determine calibration course:

Nozzle Spacing	Length of Calibration Course*
15 in.	272 ft.
18 in.	227 ft.
20 in.	204 ft.
22 in.	186 ft.
24 in.	170 ft.

\*To determine calibration course for a nozzle spacing not listed, divide 340 by the spacing expressed in feet. Example: Calibration distance for 19 in nozzle spacing =  $340/(19/12) = 215$ .

3. Measure and stake off the appropriate calibration course based on nozzle spacing. The course should be on the same type of ground that will be sprayed. (Speeds may be faster on roads than on sod, changing the application rate.)
4. Drive the course in the gear and rpm you will use when actually spraying. Record the time in seconds. Do this and average the time.
5. Park the tractor and maintain the same rpm.
6. Turn on the sprayer and catch the water from one nozzle for exactly the same number of seconds that it took to drive the calibration course.
7. Ounces caught = gallons per acre.
8. Check all nozzles. Flow rate should not vary more than 10% among all nozzles. Replace any nozzles that do not fall into this range.
9. Capacity of Tank divided by gallons per acre = # of acres covered per tank.
10. Number of acres covered per tank X recommended application rate = total chemical per tank.

\* Prepared by: Paul V. Dixon, former Yellowstone County Extension Agricultural Agent