



Air Blast Sprayer Calibration Worksheet

Retain the following information for your records:

Date _____

Farm _____ Operator _____ Phone _____

Address _____ Town _____ State _____ Zip Code _____

Tractor _____ Sprayer _____

Tractor Gear _____ Tank _____ gallons

Tractor RPM _____ Pump Pressure _____ PSI

Measured Distance _____ feet

Time in seconds (down) _____ seconds

Time in seconds (back) _____ seconds

Average Time in seconds _____ seconds

Miles per Hour (MPH)

$$\text{Miles per Hour} = \frac{\text{Distance in Feet} \times 60}{\text{Time in Seconds} \times 88} = \frac{(\text{ } \text{Feet}) \times 60}{(\text{ } \text{Seconds}) \times 88} = \text{ } = \text{ } \text{ MPH}$$

$$\text{Speed in Feet per Minute} = (\text{ }) \text{ MPH} \times 88 = (\text{ }) \text{ Feet per Minute}$$

For Orchards:

Block (# _____) Tree Height _____ ft. Tree Width _____ ft. Row Width _____ ft.
of individual tree between tree rows.

$$\text{Linear Feet of Row per Acre} = \frac{43,560}{\text{Row Width} (\text{ })} = \frac{43,560}{(\text{ })} = (\text{ }) \text{ Feet per Acre}$$

Or Spray Swath Width (if you are spraying alternative row centers)

Nozzle Output for Air-Blast Sprayer - To determine the left versus right side, look at the sprayer from behind										
Nozzle Output - Left					Nozzle Output - Right					
Nozzle #	Tip Size #	Disc Core #	Fluid Ounces Per Minute	Gallons Per Minute	Nozzle #	Tip Size #	Disc Core #	Fluid Ounces Per Minute	Gallons Per Minute	
L-12					R-12					
L-11					R-11					
L-10					R-10					
L-09					R-09					
L-08					R-08					
L-07					R-07					
L-06					R-06					
L-05					R-05					
L-04					R-04					
L-03					R-03					
L-02					R-02					
L-01					R-01					
Total Left Side Manifold Output in GPM					Total Right Side Manifold Output in GPM					
Total Output for Sprayer in GPM										

GPM = Gallons per Minutes

GPA = Gallons per Acre

MPA = Minutes per Acre or Minutes/Acre

All Nozzles Output =

Total Left Side Manifold Output (_____) + Total Right Side Manifold Output (_____) = (_____) GPM

Minutes to spray one acre (MPA)

Block (#_____) Minutes/Acre = $\frac{\text{Linear Feet Row per Acre}}{\text{Feet per Minute}}$ = (_____) = (_____) Minutes Per Acre

Gallons to spray one acre (GPA)

Output - Gallons per Acre = GPM X MPA = (_____) GPM X (_____) MPA = (_____) GPA

NOTES:

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