



Retain the following information for your records:

Date _____ ID _____

Farm _____ Contact _____ Phone _____

Address _____ Town _____ State _____ Zip Code _____

Email _____ Operator _____

Tractor _____ Tractor Tires Brand _____ Sprayer _____

Tractor Gear _____ Tractor Tires Size _____ Tank _____

Tractor RPM _____ Height: Ground to Top of Tire _____ (left) Pump Pressure _____

PTO RPM _____ Ground to Top of Tire _____ (right)

Measured Distance_____ feet	Measured Distance_____ feet	Measured Distance_____ feet
Tractor Gear_____	Tractor Gear_____	Tractor Gear_____
Time in seconds (down)_____	Time in seconds (down)_____	Time in seconds (down)_____
Time in seconds (back)_____	Time in seconds (back)_____	Time in seconds (back)_____
Average Time in seconds_____	Average Time in seconds_____	Average Time in seconds_____

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

Speed in Feet per Minute = MPH x 88 : () MPH x 88 : Feet per Minute

For Tree Fruit Orchards, Grape Vineyards, Bramble Plantings or Blueberry Patches:

Block #: () Row Width* (ft.) * Or Spray Swath Width if spraying alternate row centers.

For Vegetable or Other Crops Sprayed:

Crop: () Block #: () Spray Swath Width (ft.)

$$\text{Linear Feet of Row per Acre} = \frac{43,560}{\text{Row Width or Spray Width}} = \frac{43,560}{(\quad)} = \text{_____ Feet per Acre}$$
$$\text{Minutes / Acre} = \frac{\text{Linear Feet Row per Acre}}{\text{Feet per Minute}} = \frac{(\quad)}{(\quad)} = \quad \text{Minutes per Acre}$$

Nozzle / Spray Tips

Brand _____

Nozzle Output for Air-Blast Sprayer - To determine the left versus the right side, look at the sprayer from behind.													
Nozzle Output - Left							Nozzle Output - Right						
Nozzle #	Tip Size #	Disc Core #	# Sec. Collected	Fl. Oz. Collected	Fl. Oz. Per Minute	Gallons Per Minute	Nozzle #	Tip Size #	Disc Core #	# Sec. Collected	Fl. Oz. Collected	Fl. Oz. Per Minute	Gallons Per Minute
L-01							R-01						
L-02							R-02						
L-03							R-03						
L-04							R-04						
L-05							R-05						
L-06							R-06						
L-07							R-07						
L-08							R-08						
L-09							R-09						
L-10							R-10						
L-11							R-11						
L-12							R-12						
L-13							R-13						
L-14							R-14						
L-15							R-15						
Total Left Side Manifold Output in GPM							Total Right Side Manifold Output in GPM						
Total Output for Sprayer in GPM													

GPM = Gallons per Minute

GPA = Gallons per Acre

MPA = Minutes per Acre or Minutes / Acre

Total of All Nozzles Output = _____ GPM

Output in Gallons per Acre

GPM x MPA = (_____ GPM) x (_____ MPA) = _____ GPA

NOTES:

George Hamilton, Extension Field Specialist, emeritus, fruit and vegetable production, 2013; 2023 revised.

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