Air-Blast Sprayer Calibration Worksheet

Retain the following information for your records:

Date _____.

Farm_____ Operator _____ Phone _____.

Address_____ Town _____ State _____ Zipcode _____.

Tractor _____ Sprayer_____

Tractor Gear _____ Tank_____gallons

Tractor RPM_____ Pump Pressure_____PSI

Measured Distance_____ feet

Time in seconds (down) _____ Time in seconds (back) _____

Average Time in seconds _____

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

For Orchards:
Block (#_____) Tree Height _____ ft. Tree Width _____ ft. Row Width _____ ft.

For Vegetable or Other Crops Sprayed:
Block (#_____) Spray Swath Width _____ft

Linear Feet of Row per Acre = $\frac{43{,}560}{\text{Row Width Or Spray Swath Width}}$ = $\frac{43{,}560}{(\quad)}$ = (_____) Feet per Acre

Speed in Feet per Minute = MPH **X** 88 = (_____) MPH **X** 88 = (_____) Feet per Minute

For Orchards:
DG/A = Tree Height **X** Tree Width **X** Linear Feet of Row **X** $\frac{0.7}{1000}$ = (_____) GPA

Block (#_____) DG/A = (_____) **X** (_____) **X** (_____) **X** $\frac{0.7}{1000}$ = (_____) GPA

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-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				

All Nozzles Output = (_____) gpm

Alternative Output: Nozzles (#_____) = (_____) gpm

Alternative Output: Nozzles (#_____) = (_____) gpm

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

Arrangement Nozzles (#_____) GPA = GPM **X** MPA = (_____) GPM **X** (_____) MPA = (_____)GPA

Arrangement Nozzles (#_____) GPA = GPM **X** MPA = (_____) GPM **X** (_____) MPA = (_____)GPA

Arrangement Nozzles (#_____) GPA = GPM **X** MPA = (_____) GPM **X** (_____) MPA = (_____)GPA

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Penn State Pesticide Education Program is proud to partner with George Hamilton and UNH CE - Hillsborough County to bring this program to Pennsylvania growers