VALUE nies Testimonies

SharpShooter®

Patented



Quality of Application

Capability #1 Consistent Applications

"Spray from 3 mph to 20 mph at the same pressure through the same tip"

Capability #2 Added Drift Control

"Change pressure, on-the-go", to reduce drift and simultaneously increase rate to retain coverage control with the same tip."

Capability #3 Variable Rate Application

"One tip, held at a constant pressure, can do a range of rates for mapping, turn compensation, fence rows, individual nozzles

Capability #4 Boom Versatility and Improved Canopy Penetration

Larger droplets with enough mass sustain their tip exit velocity and penetrate canopy better.

PWM Technology

20 mph, 60 psi, 10 GPA, same tip

15 mph, 60 psi, 10 GPA, same tip

10 mph, 60 psi, 10 GPA, same tip

5 mph, 60 psi, 10 GPA, same tip

3 mph, 60 psi, 10 GPA, same tip







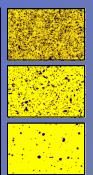


Rate Controller Only

15 mph, 90 psi, 10 GPA, same tip

10 mph, 40 psi, 10 GPA, same tip

5 mph, 10 psi, 10 GPA, same tip



60 psi, 10 GPA, 12 mph, same tip

30 psi, 10 GPA, 12 mph, same tip

30 psi, **12 GPA**, 12 mph, same tip



"Due to windy conditions, the state inspector shut down my competition's sprayers. When she came to shut me down, I demonstrated AIM Command and my ability to reduce drift. She let me keep running.

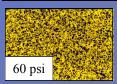
-Dennis Engen

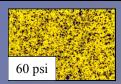
12 GPA

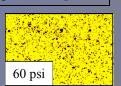
8 GPA

6 GPA

[Same Tip, Same Pressure, Same Droplet Sizes]



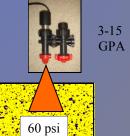


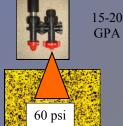


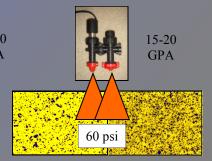
Systemic Chemical 340 to 500 um

<u>Fertilizer</u> > 500 um

Contact Chemical: Both Nozzles Broader Droplet Range: 135 to 500 um Larger Droplets Penetrate Better







VALUE nies Testimonies

Greater Productivity

Customer Claim #1

"We can run a selected pressure for faster speeds, 19-20 mph, in the flats and field perimeters, and still slow down for the corners without the pressure changing."

In row crops <u>average</u> field speed increase by 2 mph and 5 mph in the cereals.

Customer Claim #2

"Now we have more opportunity to keep on spraying throughout the day"

Typically applicators gain 5 to 7 spraying days back on the season and, on average, a gain of 1 hour per day.

Customer Claim #3
"We cover the same acres in a more timely fashion"

SharpShooter®

The Equation:

Acres/Hour = Average Speed x Boom Width x Efficiency x .1212

ROW CROPS:

Field Observation: 2 mph average speed increase

Assumptions: 100' boom, 40% typical efficiency, 10 mph average speed

Calculation: 2 mph x 100' x 40% x .1212 = 9.6 acres/hour more

Productivity Gain: 9.6 acres/hr

CEREAL GRAINS:

Field Observation: 5 mph average speed increase

Assumptions: 100' boom, 40% typical efficiency, 15 mph average speed

Calculation: 5 mph x 100' x 40% x .1212 = 24.3 acres/hr

Productivity Gain: 24.3 acres/hr

The Equation:

Total Acres/Season = Acres/hr x Hr/day x Days sprayed

Field Observation: 6 more days:

Spraying Assumptions: 60 acres/hour, 10 hours/day Calculation: 60 acres/hr x 10 hrs/day x 6 more days

Productivity Gain: 3,600 acres/season

Field Observation: Average of 1 hour/day more (per 30 spray days) Without: 60 acres/hour x 30 days x 10 hours/day = 18,000 acres With: 60 acres/hour x 30 days x 11 hours/day = 19,800 acres

Productivity Gain: 1,800 acres/season

The Equation:

Time (days) = Total Acres/(Acres/hr x Hrs/day) + Days lost to wind

ROW CROPS: (per 10,000 acres)

Without: 10,000 acres/(58.2 acres/hr x 10 hrs/day) + 10 lost days = 26 days

With: 10,000 acres/(67.8 x 11 hrs/day) + 5 lost days = 18 days **Spray Window: 8 less days/10,000 acres**

CEREAL CROPS: (per 10,000 acres)

Without: 10,000 acres/(72.7 acres/hr x 10 hrs/day) + 10 lost days = 24 daysWith: 10,000 acres/(97.0 acres/hr x 11 hrs/day) + 5 lost days = 14 days

Spray Window: 10 less days/10,000 acres