

PROBLEM	CAUSE	REMEDY
<ul style="list-style-type: none"> <li>• SPRAY PATTERN IS SHORT</li> </ul>	<ol style="list-style-type: none"> <li>1) Spray pressure is too low</li> <li>2) Nozzle mounted too low</li> <li>3) Plumbing components and lines are too small</li> <li>4) Spray pump is too small</li> </ol>	<ul style="list-style-type: none"> <li>• Re-adjust spray pressure</li> <li>• Verify correct mounting height</li> <li>• Make sure all plumbing components and lines are large enough</li> <li>• Check size of spray pump</li> </ul>
<ul style="list-style-type: none"> <li>• END OF SPRAY PATTERN IS HEAVY</li> </ul>	<ol style="list-style-type: none"> <li>1) Spray pressure is too low</li> <li>2) Plumbing components and lines are too small</li> <li>3) Spray pump is too small</li> </ol>	<ul style="list-style-type: none"> <li>• Re-adjust spray pressure</li> <li>• Make sure all plumbing components and lines are large enough</li> <li>• Check size of spray pump</li> </ul>
<ul style="list-style-type: none"> <li>• CENTER OF SPRAY PATTERN IS LIGHT</li> </ul>	<ol style="list-style-type: none"> <li>1) Spray pressure is too high</li> <li>2) Spray pressure is too low</li> <li>3) Spray pump is too small</li> </ol>	<ul style="list-style-type: none"> <li>• Re-adjust spray pressure</li> <li>• Re-adjust spray pressure</li> <li>• Check size of spray pump</li> </ul>
<ul style="list-style-type: none"> <li>• SPRAY PATTERN DOES NOT MEET IN CENTER* *Left and Right nozzle together</li> </ul>	<ol style="list-style-type: none"> <li>1) Spray pressure is too low</li> <li>2) Plumbing components and lines are too small</li> <li>3) Center mounting distance is too great</li> <li>4) Nozzles adjusted incorrectly</li> </ol>	<ul style="list-style-type: none"> <li>• Re-adjust spray pressure</li> <li>• Make sure all plumbing components and lines are large enough</li> <li>• Refer to nozzle mounting center distance chart</li> <li>• Re-adjust nozzles – rotate downward until spray pattern meets</li> </ul>
<ul style="list-style-type: none"> <li>• SPRAY PATTERN IS TOO LONG</li> </ul>	<ol style="list-style-type: none"> <li>1) Spray pressure is too high</li> <li>2) Nozzle mounted higher than tested height</li> </ol>	<ul style="list-style-type: none"> <li>• Re-adjust spray pressure</li> <li>• Verify correct mounting height</li> </ul>
<ul style="list-style-type: none"> <li>• EXCESSIVE DRIFT OR PATTERN SHIFTING</li> </ul>	<ol style="list-style-type: none"> <li>1) Spray pressure is too high</li> <li>2) Adverse wind conditions</li> </ol>	<ul style="list-style-type: none"> <li>• Re-adjust spray pressure</li> <li>• Wait for calmer conditions</li> </ul>

**\*Spray pressure should always be checked at the nozzle or nozzles, not at the feed pump**

**\*All spray nozzles are tested at 30 PSI; operating range 20-40 PSI**

### SPRAY NOZZLE CONVERSION FORMULAS

$$\text{Gallons per 1,000 sq. ft.} = \frac{\text{GPM} \times 136}{\text{MPH} \times \text{Spray width in inches}}$$

$$\text{Gallons per Acre} = \frac{\text{GPM} \times 5940}{\text{MPH} \times \text{Spray width in inches}}$$

### NOZZLE MOUNTING CENTER DISTANCE CHART

2 – 1/4" Nozzles	3" – 4" Center Distance
2 – 1/2" Nozzles	6" – 7" Center Distance
2 – 1" Nozzles	8" – 9" Center Distance

**Tested mounting height of spray nozzles:**

**Short pattern nozzles – 18"**  
**Regular pattern nozzles – 36"**  
**Full spray nozzles – 36"**