

# SPRAY DECISION FLOW CHART

**AGRONOMISTS  
START HERE**

Steps	Who's Involved	Questions/Information required
<b>THE PROBLEM</b>	Agronomist client	<ul style="list-style-type: none"> <li>▪ Symptoms.</li> <li>▪ Insect/disease/Weed/nutrition                             <ul style="list-style-type: none"> <li>▪ Also consider weather/moisture</li> </ul> </li> </ul>
<b>Select solution</b>	Agronomist client	<ul style="list-style-type: none"> <li>▪ What is the desired result</li> <li>▪ What is the price range</li> <li>▪ Availability issues</li> <li>▪ Previous experience with chemicals may influence decision</li> <li>▪ Must be on the label</li> </ul>
<b>Select Rate</b>	Agronomist Client	<ul style="list-style-type: none"> <li>▪ Read the label</li> <li>▪ Usually based on pest size, growth stage, host stage, time of year</li> </ul>
<b>Spray quality</b>	Agronomist Client	<ul style="list-style-type: none"> <li>▪ Droplet Count based on:</li> <li>▪ Canopy size / Pest location</li> <li>▪ Chemical mode of action</li> <li>▪ Vertical or horizontal target</li> </ul>
<b>Coverage Required</b>	Agronomist	<ul style="list-style-type: none"> <li>▪ Leaf Area Index - Ratio of target to be covered over hectares to be sprayed.</li> <li>▪ Canopy size / pest location</li> </ul>

## PESTICIDE APPLICATION MANAGEMENT PLAN

<b>Water volume</b>	Agronomist pilot, Calculator	Volume of Droplet x number of droplets/area x area to be covered x leaf area index
<b>Drift profile</b>	Operator Pilot	<ul style="list-style-type: none"> <li>▪ Environmental conditions</li> <li>▪ Nearest susceptible areas</li> <li>▪ Downwind buffer available</li> <li>▪ Droplet size required to remain in buffer</li> <li>▪ Alternatives such as wait for wind direction to change.</li> </ul>
<b>Environmental Conditions</b>	Operator Client	<ul style="list-style-type: none"> <li>▪ Temp, Humidity Wind speed and Direction</li> <li>▪ Weather forecasts</li> <li>▪ Local weather stations</li> <li>▪ On farm indicators ( smoke, handhelds etc)</li> </ul>
<b>Susceptible areas</b>	Operator Client	<ul style="list-style-type: none"> <li>▪ Ramsar wetlands, rivers, waterways,</li> <li>▪ National parks,</li> <li>▪ crops, livestock, pasture, TSR,</li> <li>▪ schools, inhabited dwellings/</li> <li>▪ workplaces, people, other contractors,</li> <li>▪ roads/traffic, bus stops</li> <li>▪ powerlines, towers</li> <li>▪ Google earth, Satellite images</li> </ul>
<b>Job initiation</b>	Operator Client	<ul style="list-style-type: none"> <li>▪ Spray Order Form</li> <li>▪ Maps</li> <li>▪ Google earth, Satellite images</li> </ul>

**PILOT/OPERATORS  
START HERE**

