# **Spraying techniques - Tips for** improving accuracy and efficiency

### Use only flat fan nozzles for uniformity in spray swath



# Use multiple-nozzle booms



- Effective spray swath = number of nozzles x space between nozzles • All tips on boom should have same angle and matching volume output. Eq- 80°/700 ml/min. 110°/900 ml/min.
- All nozzle tips must be aligned horizontally to give widest spray swath. ۲
- Check spray pattern and output of all tips using water. .

# Use pressure regulators to increase accuracy and uniformity



With Regulator



**Constant Flow Valve** 



1.5 bars

- Constant flow valves are attached to a lance or boom line directly before the nozzles.
- A single 1.5 bar regulator will control 1-3 nozzles.
- Constant flow regulator will help eliminate incorrect applications.

Even pattern

# Hold boom 45-50 cm above the target



• For pre-emergence herbicide applications the target is the soil.

• For post-emergence applications the target is the top of the plant.

Boom held too low leaves untreated strips

### Avoid using worn-out or damaged nozzle tips

Good Nozzle

**Damaged Nozzle** 





- Strainers must be used to filter out particles that can clog the nozzle tip.
- Damaged nozzle tips will have an erratic output and must be replaced.
- Clean nozzle only with water and a soft brush (old tooth brush).
- Do not use sharp objects.
- Among plastic, brass and stainless steel nozzle tips, stainless steel will have the longest life.

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