Effect of nozzle type, size, spray pressure & spray angle

- Important variation in the crop
  - Low coverage at the lower side of leaves and inside the crop
  - Best results with 0° and 30° spray angle

Effect of air support and spray angle on coarse droplet sprays

- With a coarse droplet spray, air support improves spray distribution
- Biggest effect on penetration for the standard 0° spray angle
- Biggest effect on lower leaf side deposition for 30° spray angle

Effect of air support, spray angle & volume on medium droplet sprays

- Medium spray + Air support → Sign. improvement of spray deposition
- Best results with 30° spray angle → deposition at 5 plant positions
- 1000 L ha⁻¹ > 500, 2 x 500 & 2000 L ha⁻¹ (Results not shown)

Optimal horizontal spray boom setting:
Standard flat fan nozzle, air support, 30° forward spray angle, 1000 L ha⁻¹

Effect of nozzle type, size & spray volume

- Overall best results with XR, ID and TXB nozzles
- Fine (TXB) and medium droplet sprays
- 4900 L ha⁻¹ > 7310 L ha⁻¹ + no runoff
- Coarse droplet sprays (ID & AVI Twin)
- 4900 L ha⁻¹ > 7310 L ha⁻¹ (avg. runoff)

Conclusions