



Xc
TECHNOLOGY

Get even.....!

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New XC Technology Delivers



Maintains an even pattern on undulating courses

Combats spray drift

Backwards spray angle enhances coverage even at low water volumes



Ridge should be forward facing
(Syngenta is in front !)

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The XC nozzle family



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The issue with slopes

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The issue!

**Decreased nozzle
height leads to
uneven spray
patterns**

**Increased nozzle
height leads to more
drift**



The issue!



Increased drift

Uneven spray
pattern

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More even spray patterns at lower nozzle heights

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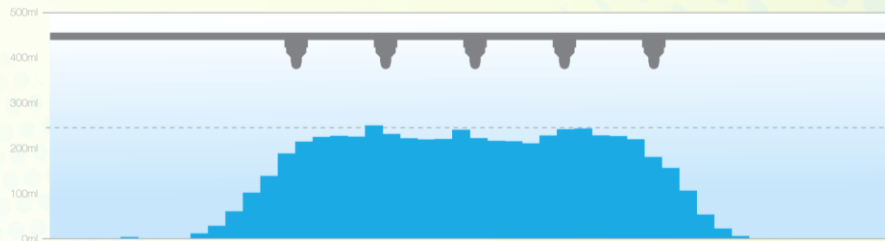
syngenta.

XC technology delivers more even spray patterns

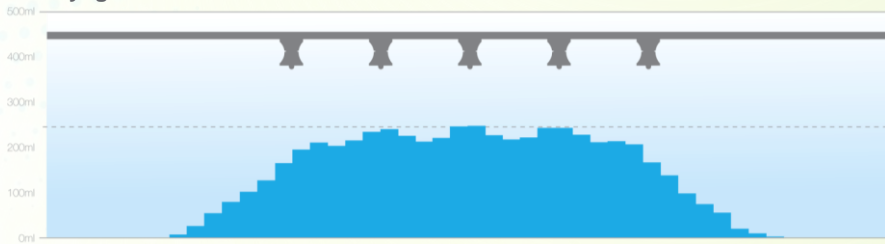
Nozzle height 50cm



Standard Flat Fan 110 04



Syngenta 04 XC



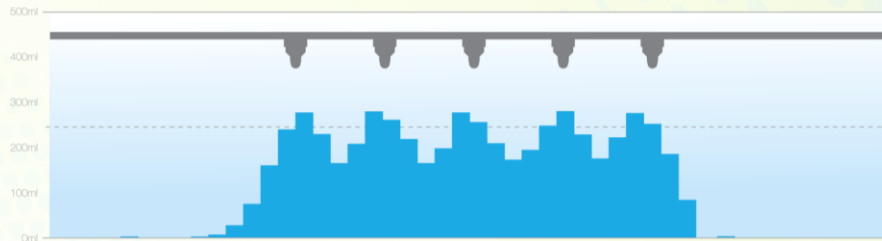
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XC technology delivers more even spray patterns

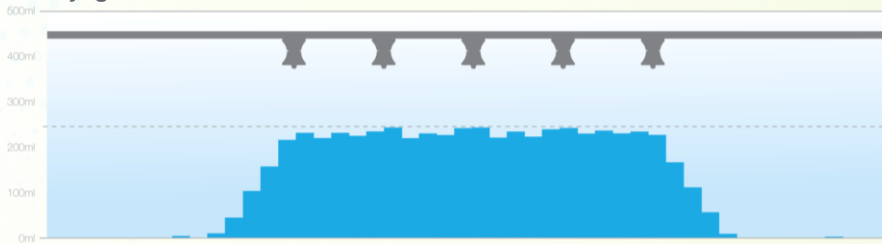
Nozzle height 30cm



Standard Flat Fan 110 04



Syngenta 04 XC



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XC technology delivers more even spray patterns

Nozzle height 50cm



Flat Fan 025 nozzle



XC Foliar 025 Nozzle



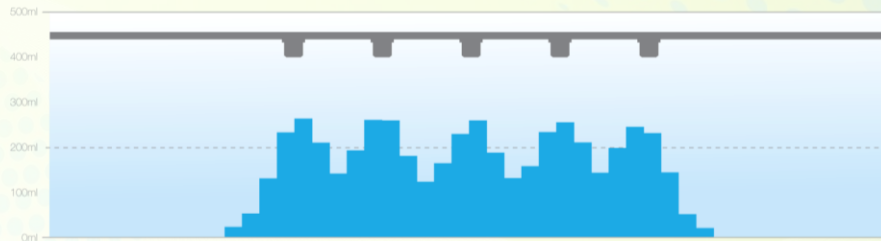
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XC technology delivers more even spray patterns

Nozzle height 30cm



Flat Fan 025 nozzle



XC Foliar XC Nozzle



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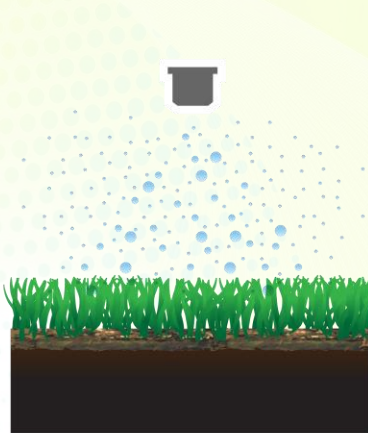
Reducing drift

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Benefits of XC air induction



Flat fan



Standard Air induction nozzle



XC nozzle



• Drift

• Retained

• Run off

• Shock absorber

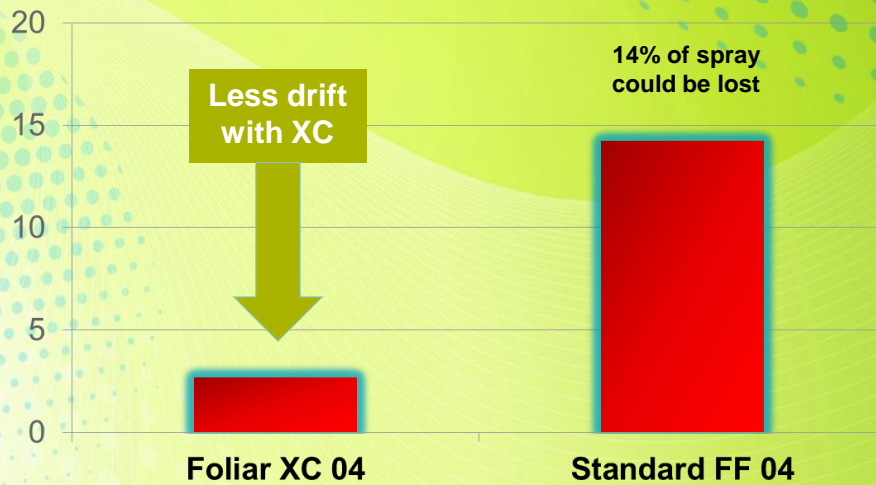
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Less drift and lost of product



% spray volume with
potential for drift

% spray volume under 100 microns – 2.5 bar



Jealott's Hill International Research Centre - 2012

Spray measured by Laser diffraction

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More even coverage of the target

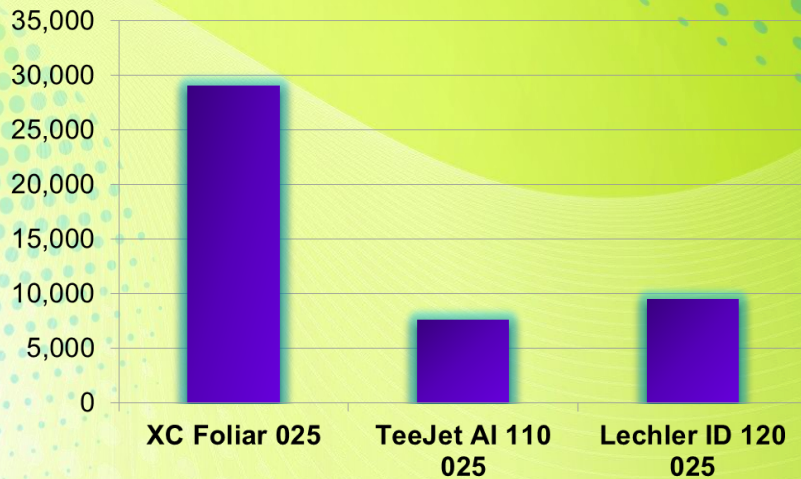
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More droplets than other AI nozzles for superior coverage



Drops per ml

025 nozzle comparison

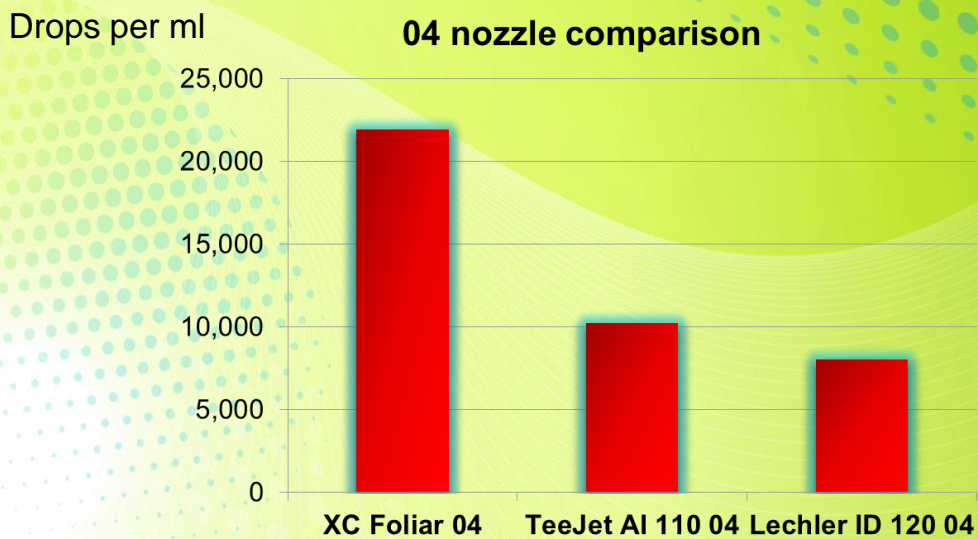


2.5 bar pressure

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More droplets than other AI nozzles for superior coverage

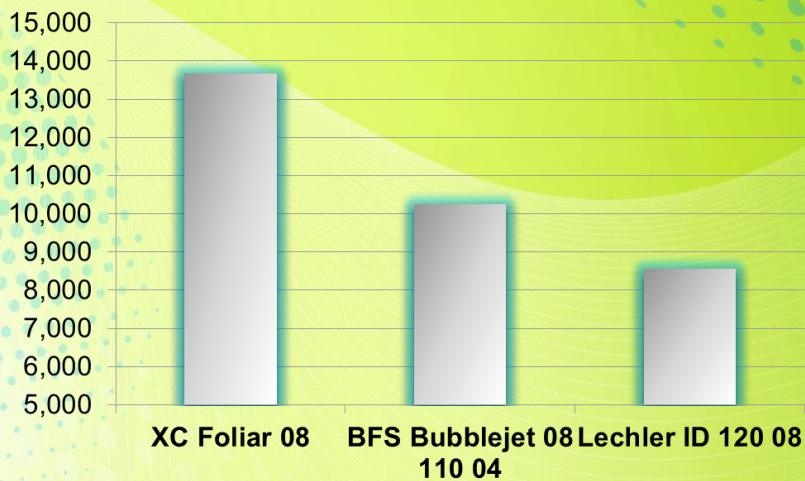


More droplets than other AI nozzles for superior coverage



Drops per ml

08 nozzle comparison

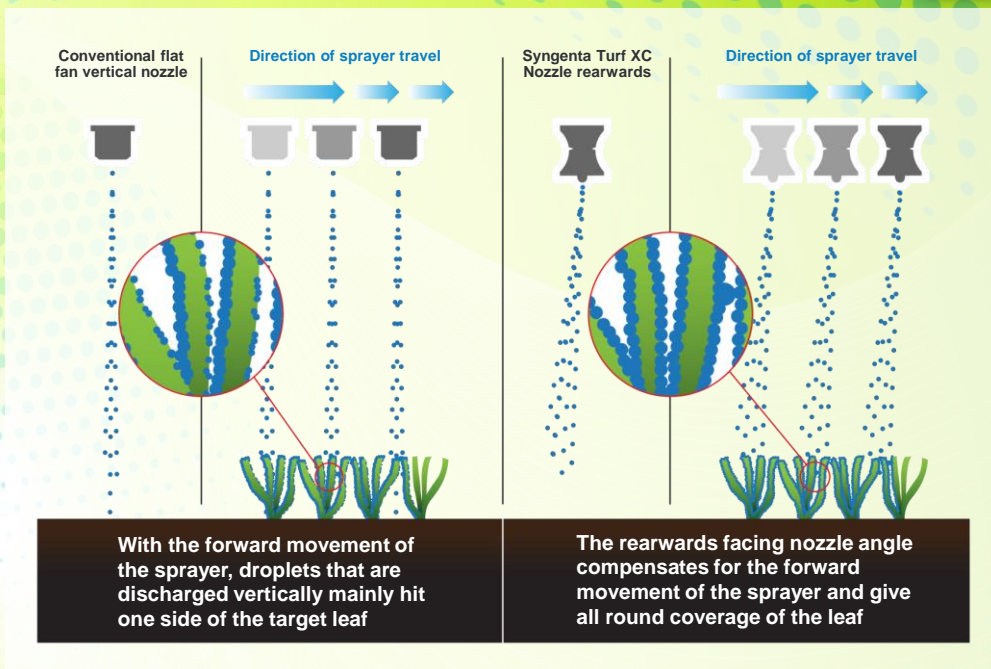


2.5 bar pressure

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Backward angle provides superior coverage



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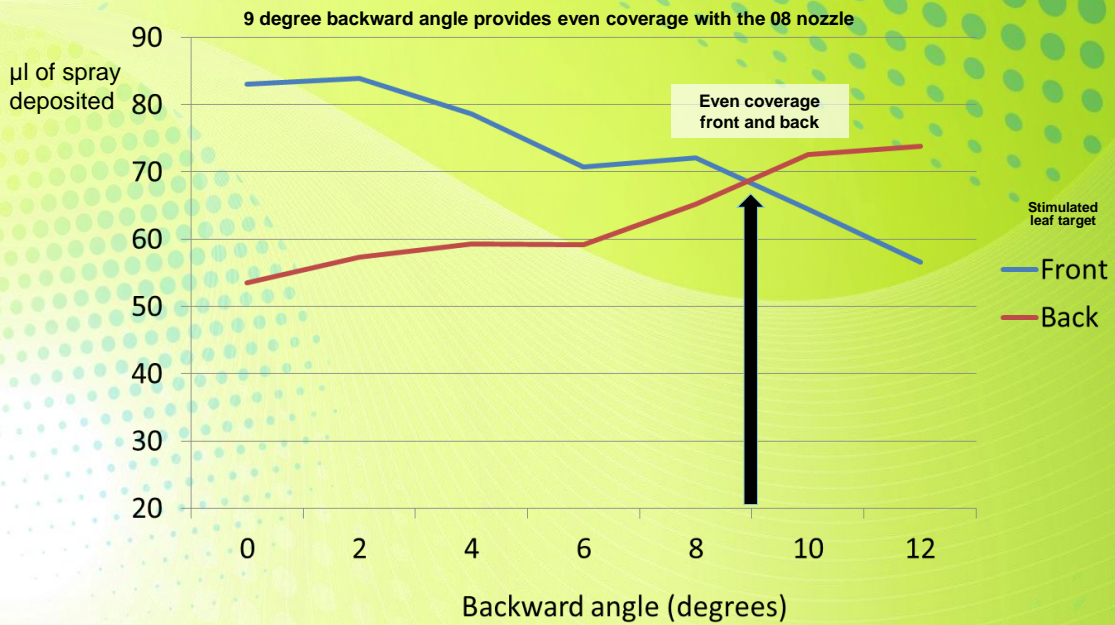
Standard nozzles provide uneven coverage of the leaf



Silsoe Spray Application Unit – wind tunnel 2011
6 KPH forward speed

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XC backward angle provides for more even coverage of the leaf



Silsoe Spray Application Unit – wind tunnel 2011
6 KPH forward speed

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Technical specification



	Foliar XC 025	Foliar XC 04	Soil XC 08
Orifice design	XC 110°	XC 127°	XC 127°
Backward inclination	6.5°	4.5°	9.0°
Size	025	04	08
Operating speed	3 - 5 km/hr	5 - 7 km/hr	5 - 7 km/hr
Optimum nozzle height	0.5 m	0.5 m	0.5 m
Operating pressure	2 - 4 bar	2 - 4 bar	2 - 4 bar
Optimum pressure	2.5 bar	2.5 bar	3.0 bar
Typical spray volumes l/ha	220-400	220-400	500-800

XC nozzle benefits



Maintains an even spray pattern on undulating courses



Combats spray drift allowing more spray days



Backwards spray angle enhances coverage even at low water volumes

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