

Broadacre Nozzles



Spray Quality

Systems of nozzle classification (BCPC, ASAE) have been developed around the world to unify and simplify the description of droplet size ranges that different nozzles produce. Accordingly, nozzles can be classified as producing an EXTREMELY COARSE, VERY COARSE, COARSE, MEDIUM, FINE and VERY FINE spray quality.

The spray quality a nozzle produces is very important. Generally, FINE spray quality will increase potential for coverage, but the small droplets are very prone to drift and environmental loss (evaporation). On the other hand, COARSE spray quality with larger droplets will greatly reduce drift potential but may compromise coverage, especially on small targets.

Choosing the coarsest spray quality without compromising efficacy is the trick. Refer to the information provided by the manufacturer of the chemicals being used, e.g. chemical labels or data sheets, or consult the **Nufarm Spraywise Boom Spray Application Guide** – available from Nufarm or Croplands.

The table at right will assist you in finding a nozzle suitable for the job. An important point to remember when choosing a spray nozzle is that one nozzle can produce different spray qualities at different pressures. For example, an AirMix® 02 will produce a COARSE spray quality at 3 bar, but a MEDIUM spray quality at 5 bar.



Coarse ← → Fine

TeeJet® TTI Range Chart

Turbo TeeJet® TTI	BAR
TT110015	XC
TT11002	XC
TT110025	XC
TT1103	XC
TT11004	XC

SAMPLES OF DROPLETS ON WATER SENSITIVE PAPER	SPRAY QUALITY CLASSIFICATION	NOZZLE TYPE	APPLICATION
	EXTREMELY COARSE XC	TeeJet® TTI	Some soil applied herbicides and some translocated herbicides (use if drift control is paramount over efficacy)
	VERY COARSE VC	TurboDrop® TeeJet® AI	Translocated herbicides, soil applied herbicides
	COARSE C	Airmix®	Translocated herbicides, soil applied herbicides
	MEDIUM M	Airmix® 02	Contact herbicides, fungicides and insecticides
	FINE F	TeeJet® XR	Some fungicides and insecticides
	VERY FINE VF		Specialised applications

Spray Quality Range

Airmix® Range Chart

agrotop AirMix® Flat Fan	BAR									
	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
AM11001	C	M	M	M	M	F	F	F	F	F
AM110015	XC	XC	VC	C	C	C	C	C	C	M
AM11002	VC	C	C	C	C	M	M	M	M	M
AM110025	XC	VC	C	C	C	C	C	M	M	M
AM11003	XC	VC	VC	C	C	C	C	C	C	M

TurboDrop® Range Chart

agrotop TurboDrop®	BAR								
	4	4.5	5	5.5	6	6.5	7	7.7	8
TD110015	XC	XC	XC	XC	XC	XC	VC	VC	VC
TD11002	XC	XC	XC	XC	XC	XC	VC	VC	VC
TD11003	XC	VC	VC	VC	VC	VC	VC	C	C

TeeJet® AI/AIC Range Chart

TeeJet® AI/AIC	BAR											
	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	8
AI110015	VC	VC	VC	VC	C	C	C	C	C	C	C	C
AI11002	VC	VC	VC	VC	VC	C	C	C	C	C	C	C
AI110025	XC	VC	VC	VC	VC	VC	VC	C	C	C	C	C
AI11003	XC	XC	VC	VC	VC	VC	VC	VC	C	C	C	C

TeeJet® XR Range Chart

XR & XRC TeeJet®	BAR						
	1	1.5	2	2.5	3	3.5	4
XR11001	F	F	F	F	F	VF	VF
XR110015	F	F	F	F	F	F	F
XR11002	M	F	F	F	F	F	F
XR11025	M	F	F	F	F	F	F
XR11003	M	M	F	F	F	F	F

Disclaimer: Spray Quality classifications are based on BCPC specification and in accordance with ASAE Standard S-572 at the date of printing. Classifications are subject to change without notice.