On Coarse® DRA

% < 150um	Fine 24-69	Medium 10 - 24	Coarse 6 - 10	Very Coarse 3 - 6	Extra Coarse 1 - 3	Ultra Coarse < 1

		Low Pressure Air Induction (run between 3 and 4 bar)														High Pressure Air Induction (run between 4 and 6 bar)									
Brand		Hypro®	TeeJet®	Lechler®	Agroprop®	Hypro®	Hardi®	Hardi®	Lechler®	TeeJet®	Hypro®	Belle-rkay	ARAG®	Albuz®		TeeJet®	Lechler®	ALBUZ®	ARAG®	HARDI®	ARAG®	Agrotop®	TeeJet®	TeeJet®	TeeJet®
Model		Guardian Air Twin	AI3070 TwinJet	IDK-120	Airmix	Guardian Air	Minidrift-Duo twinjet	Minidrift	IDKT twinjet	AIXR	ULD-120	bubble-jet	CFA	CVI		AITTJ60 twinjet*	ID	AVI	CFA-ULTRA	Injet	TFA twin jet	Turbo-drop TD-XL-D	AI	TTI60 twinjet	TTI
Spray Quality Standard		ASABE 572.1	ASABE 572.1	ASAE/BCPC	ASAE/BCPC	ASABE 572.1	ASAE/BCPC	ASAE/BCPC	ASAE/BCPC	ASABE 572.1	ASABE 572.1	ASABE 572.1	ASABE 572.1	ASABE 572.1		ASABE 572.1	ASAE/BCPC	ASABE 572.1	ASABE 572.1	ASAE/BCPC	ASABE 572.1	ASABE 572.1	ASABE 572.1	ASABE 572.1	ASABE 572.1
Size	Bar														Bar										

Nozzle type/pressures that deliver VC, XC, UC based on manufacturer tests with water only

(As compiled from manufacturer specs and listed on GRDC nozzle chart)

Size	Bar														Bar										
Yellow 02	3														3										
	4														4			VC	VC	VC	VC	XC	XC	UC	UC
	5														5			VC		VC		XC	VC	VC	UC
	6														6			VC		VC		VC	VC	VC	XC
Lilac 025	3	VC								VC		VC	VC		3										
	4														4		VC			VC		XC	XC	XC	UC
	5														5		VC	VC		VC		XC	VC	VC	XC
	6														6			VC		VC		VC	VC	VC	XC
Blue 03	3		VC			VC				VC		VC			3	VC									
	4												VC		4		VC	VC	VC	VC	XC	XC	VC	XC	UC
	5														5										
	6														6										

Nozzle type/pressures that deliver VC, XC, UC based on tests of a robust rate of Roundup Ultramax® with 2,4-D amine

Size	Bar														Bar										
Yellow 02	3														3										
	4														4							VC		VC	VC
	5														5										VC
	6														6										VC
Lilac 025	3														3										
	4														4		VC							VC	XC
	5														5		VC							VC	XC
	6														6										VC
Blue 03	3														3	VC									
	4														4					VC	VC	VC		XC	XC
	5														5										
	6														6										

Nozzle type/pressures that deliver VC, XC and UC when using On Coarse® Drift Reduction Adjuvant at 0.25% with a robust rate of Roundup Ultramax® and 2,4-D amine

Size	Bar														Bar										
Yellow 02	3		VC							VC					3	VC									
	4														4	VC			VC	VC	XC	VC	XC	VC	XC
	5														5				VC	VC	VC	VC	VC	VC	XC
	6														6										XC
Lilac 025	3						VC			VC			VC		3	VC									
	4						VC						VC		4	VC	XC			VC		VC	VC	XC	UC
	5														5		XC					VC	VC	VC	UC
	6														6									VC	XC
Blue 03	3												VC		3	XC									
	4														4	VC	VC	VC	VC	XC	XC	XC	XC	UC	UC
	5														5										
	6														6										

*should be run between 3 and 5 bar

Practical travel speed, nozzle size and pressure options to apply Roundup Ultramax® between 50 and 80 L/ha as per label

Size	Bar	km/h						
		16	17	18	19	20	21	22
Yellow 02	3	59	56	53	50			
	4	68	64	61	58	55	52	50
	5	76	72	68	64	61	58	56
	6		79	74	71	67	64	61
Lilac 025	3	74	70	66	62	59	56	54
	4		80	76	72	68	65	62
	5				80	76	73	69
	6						80	76
Blue 03	3			79	75	71	68	65
	4						78	75
	5							
	6							

NOTES

1. Nozzle spray quality was tested using a mixture of 3.8% Roundup Ultramax®, 1.6% Amicide Advance 700 and 2% Liaise according to the ASABE 572.1 standard at CPAS Gatton.
2. The herbicide spray mixture was chosen to be representative of the worst-case scenario effect on spray quality by ground boom applied broadcast spraying of glyphosate mixtures for broadacre use in general since:
   - Roundup Ultramax® is highly formulated with surfactants which have a marked effect on spray quality
   - The highest labelled concentration for general broadacre use was used (1.9L/50L) at all pressures tested.
3. Accordingly, when using On Coarse® DRA at 0.25% in a mixture containing glyphosate at up to 3.8%, the applicator can be confident of the spray quality listed in the On Coarse spray chart.
4. FMC advises that:
   - Both lower concentrations of Roundup Ultramax® and different glyphosate formulations may have different effects on % fine droplets produced which could be sufficient to produce variation in spray quality from that listed in the chart where On Coarse DRA was not used.
5. Nozzles and spraying parameters used for testing were selected from the 2019 version of the GRDC Nozzle Selection Guide by:
   - Restricting travel speeds for application to between 16 and 22 km/h, then
   - Restricting application pressures to the optimum operating range for the pre-orifice nozzle group to between 2 and 4 bar; the low pressure air-induction nozzle group to between 3 and 4 bar; the high pressure air-induction group to between 4 and 6 bar, then
   - Restricting application volume to between 50 and 80 L/ha, then
   - Restricting combinations to those that produced VC, XC and UC spray qualities.

For further information please visit *www.fmccrop.com.au* or contact your local reseller or FMC territory representative.

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