

# T-Bar Canopy - 500 l/ha

## ZESPRI 2011 sprayer nozzling guides:

For a sprayer fitted with TEN nozzle positions per side  
To apply 500, 1000, 1500 or 2000 l/ha at 5km/hr  
To T-Bar canopies at 3m, 4m or 5m row spacings

Note: The nozzling and pressure options shown in these charts are intended to provide an indication of a likely suitable sprayer configuration to deliver the predicted spray output range to a given canopy row spacing. There are other nozzle selections and configurations that could also be suitable. Different sprayers will vary in the exact location of nozzles on the spray ring, so may require different nozzle selections. The nozzle outputs shown are theoretical, actual nozzle outputs can vary and should be measured during calibration.

Nozzling recommendations developed for  
Zespri and KVH by  
Bill May (SprayTec Ltd) and  
David Manktelow (freshLearn Ltd)  
September 2011

T-Bar 4.5-5.0 m rows - 7 Nozzle sprayer 500 l/ha 5 km/hr					
Target Volume	500	l/ha	25.0 l/100m row		
Target speed	5.0	km/hr			
Row spacing	5.0	metres			
Output required	20.8	l/min total			
NOZZLING DETAILS					
Nozzle pressure	880	kPa	128 PSI		
Nozzle type	Nozzle	Predicted output	%	Nozzle angle	
	1 Off				
	2 Off				
TeeJet Disk+Core	3 D3-35	1.9	19%	Narrow	
Albuz ATR	4 Blue	3.2	31%	Wide	
Albuz ATR	5 Blue	3.2	31%	Wide	
TeeJet Disk+Core	6 D3-35	1.9	19%	Narrow	
	7 Off				
Output from one side (l/min)	10.2	100%			
Total predicted output (l/min)	20.4				

T-Bar 4.5-5.0 m rows - 8 Nozzle sprayer 500 l/ha 5 km/hr					
Target Volume	500	l/ha	25.0 l/100m row		
Target speed	5.0	km/hr			
Row spacing	5.0	metres			
Output required	20.8	l/min total			
NOZZLING DETAILS					
Nozzle pressure	860	kPa	125 PSI		
Nozzle type	Nozzle	Predicted output	%	Nozzle angle	
	1 Off				
	2 Off				
TeeJet Disk+Core	3 D3-35	1.9	19%	Narrow	
Albuz ATR	4 Green	2.3	23%	Wide	
Albuz ATR	5 Green	2.3	23%	Wide	
Albuz ATR	6 Red	1.8	18%	Wide	
TeeJet Disk+Core	7 D3-35	1.9	19%	Narrow	
	8 Off				
Output from one side (l/min)	10.2	100%			
Total predicted output (l/min)	20.3				

T-Bar 4.5-5.0 m rows - 10 Nozzle sprayer 500 l/ha 5 km/hr					
Target Volume	500	l/ha	25.0 l/100m row		
Target speed	5.0	km/hr			
Row spacing	5.0	metres			
Output required	20.8	l/min total			
NOZZLING DETAILS					
Nozzle pressure	610	kPa	88 PSI		
Nozzle type	Nozzle	Predicted output	%	Nozzle angle	
	1 Off				
	2 Off				
TeeJet Disk+Core	3 D3-35	1.6	16%	Narrow	
Albuz ATR	4 Green	2.0	19%	Wide	
Albuz ATR	5 Green	2.0	19%	Wide	
Albuz ATR	6 Red	1.5	15%	Wide	
Albuz ATR	7 Red	1.5	15%	Wide	
TeeJet Disk+Core	8 D3-35	1.6	16%	Narrow	
	9 Off				
	10 Off				
Output from one side (l/min)	10.2	100%			
Total predicted output (l/min)	20.4				



# T-Bar Canopy - 1000 l/ha

## ZESPRI 2011 sprayer nozzling guides:

For sprayer fitted with 7, 8 or 10 nozzle positions per side  
To apply 500, 1000, 1500 or 2000 l/ha at 5km/hr  
To T-Bar canopies at 4.5 to 5m row spacings

Note: The nozzling and pressure options shown in these charts are intended to provide an indication of a likely suitable sprayer configuration to deliver the predicted spray output range to a given canopy row spacing. There are other nozzle selections and configurations that could also be suitable. Different sprayers will vary in the exact location of nozzles on the spray ring, so may require different nozzle selections. The nozzle outputs shown are theoretical, actual nozzle outputs can vary and should be measured during calibration.

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T-Bar 4.5-5.0 m rows - 7 Nozzle sprayer 1000 l/ha 5 km/hr					
Target Volume	1000	l/ha	50.0	l/100m row	
Target speed	5.0	km/hr			
Row spacing	5.0	metres			
Output required	41.7	l/min total			
NOZZLING DETAILS					
Nozzle pressure	1840	kPa	267	PSI	
Nozzle type	Nozzle	Predicted output	%	Nozzle angle	
	1 Off				
	2 Off				
TeeJet Disk+Core	3 D4-35	4.5	22%	Medium	
TeeJet Disk+Core	4 D6-45	5.9	28%	Wide	
TeeJet Disk+Core	5 D6-45	5.9	28%	Wide	
TeeJet Disk+Core	6 D4-46	4.6	22%	Narrow	
	7 Off				
Output from one side (l/min)	20.8	100%			
Total predicted output (l/min)	41.7				

T-Bar 4.5-5.0 m rows - 8 Nozzle sprayer 1000 l/ha 5 km/hr					
Target Volume	1000	l/ha	50.0	l/100m row	
Target speed	5.0	km/hr			
Row spacing	5.0	metres			
Output required	41.7	l/min total			
NOZZLING DETAILS					
Nozzle pressure	1420	kPa	206	PSI	
Nozzle type	Nozzle	Predicted output	%	Nozzle angle	
	1 Off				
	2 Off				
TeeJet Disk+Core	3 D4-35	4.0	19%	Medium	
TeeJet Disk+Core	4 D6-45	5.1	25%	Wide	
TeeJet Disk+Core	5 D6-45	5.1	25%	Wide	
TeeJet Disk+Core	6 D5-45	3.8	18%	Medium	
TeeJet Disk+Core	7 D3-46	2.7	13%	Narrow	
	8				
Output from one side (l/min)	20.8	100%			
Total predicted output (l/min)	41.7				

T-Bar 4.5-5.0 m rows - 10 Nozzle sprayer 1000 l/ha 5 km/hr					
Target Volume	1000	l/ha	50.0	l/100m row	
Target speed	5.0	km/hr			
Row spacing	5.0	metres			
Output required	41.7	l/min total			
NOZZLING DETAILS					
Nozzle pressure	1080	kPa	157	PSI	
Nozzle type	Nozzle	Predicted output	%	Nozzle angle	
	1 Off				
	2 Off				
TeeJet Disk+Core	3 D4-35	3.5	17%	Medium	
TeeJet Disk+Core	4 D6-45	4.5	21%	Wide	
TeeJet Disk+Core	5 D6-45	4.5	21%	Wide	
TeeJet Disk+Core	6 D5-45	3.3	16%	Medium	
TeeJet Disk+Core	7 D4-45	2.6	13%	Medium	
TeeJet Disk+Core	8 D3-46	2.4	11%	Narrow	
	9 Off				
	10 Off				
Output from one side (l/min)	20.8	100%			
Total predicted output (l/min)	41.6				



# T-Bar Canopy - 1500 l/ha

## ZESPRI 2011 sprayer nozzling guides:

For a sprayer fitted with TEN nozzle positions per side  
To apply 500, 1000, 1500 or 2000 l/ha at 5km/hr  
To T-Bar canopies at 3m, 4m or 5m row spacings

Note: The nozzling and pressure options shown in these charts are intended to provide an indication of a likely suitable sprayer configuration to deliver the predicted spray output range to a given canopy row spacing. There are other nozzle selections and configurations that could also be suitable. Different sprayers will vary in the exact location of nozzles on the spray ring, so may require different nozzle selections. The nozzle outputs shown are theoretical, actual nozzle outputs can vary and should be measured during calibration.

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T-Bar 4.5-5.0 m rows - 7 Nozzle sprayer 1500 l/ha 5 km/hr					
Target Volume	1500	l/ha	75.0	l/100m row	
Target speed	5.0	km/hr			
Row spacing	5.0	metres			
Output required	62.5	l/min total			
NOZZLING DETAILS					
Nozzle pressure	1490	kPa	216	PSI	
Nozzle type	Nozzle	Predicted output	%	Nozzle angle	
	1 Off				
	2 Off				
TeeJet Disk+Core	3 D5-46	6.8	22%	Narrow	
TeeJet Disk+Core	4 D6-46	9.8	31%	Narrow	
TeeJet Disk+Core	5 D6-46	9.8	31%	Narrow	
TeeJet Disk+Core	6 D4-56	4.8	15%	Narrow	
	7 Off				
Output from one side (l/min)	31.3	100%			
Total predicted output (l/min)	62.5				

T-Bar 4.5-5.0 m rows - 8 Nozzle sprayer 1500 l/ha 5 km/hr					
Target Volume	1500	l/ha	75.0	l/100m row	
Target speed	5.0	km/hr			
Row spacing	5.0	metres			
Output required	62.5	l/min total			
NOZZLING DETAILS					
Nozzle pressure	2180	kPa	316	PSI	
Nozzle type	Nozzle	Predicted output	%	Nozzle angle	
	1 Off				
	2 Off				
TeeJet Disk+Core	3 D4-35	4.9	16%	Medium	
TeeJet Disk+Core	4 D7-45	7.5	24%	Wide	
TeeJet Disk+Core	5 D7-45	7.5	24%	Wide	
TeeJet Disk+Core	6 D6-45	6.4	20%	Wide	
TeeJet Disk+Core	7 D4-46	5.0	16%	Narrow	
	8 Off				
Output from one side (l/min)	31.3	100%			
Total predicted output (l/min)	62.5				

T-Bar 4.5-5.0 m rows - 10 Nozzle sprayer 1500 l/ha 5 km/hr					
Target Volume	1500	l/ha	75.0	l/100m row	
Target speed	5.0	km/hr			
Row spacing	5.0	metres			
Output required	62.5	l/min total			
NOZZLING DETAILS					
Nozzle pressure	2440	kPa	354	PSI	
Nozzle type	Nozzle	Predicted output	%	Nozzle angle	
	1 Off				
	2 Off				
TeeJet Disk+Core	3 D4-35	5.2	17%	Medium	
TeeJet Disk+Core	4 D6-45	6.8	22%	Wide	
TeeJet Disk+Core	5 D6-45	6.8	22%	Wide	
TeeJet Disk+Core	6 D5-45	5.0	16%	Medium	
TeeJet Disk+Core	7 D4-45	4.0	13%	Medium	
TeeJet Disk+Core	8 D3-46	3.6	11%	Narrow	
	9 Off				
	10 Off				
Output from one side (l/min)	31.2	100%			
Total predicted output (l/min)	62.5				



# T-Bar Canopy - 2000 l/ha

## ZESPRI 2011 sprayer nozzling guides:

For sprayer fitted with 7, 8 or 10 nozzle positions per side  
To apply 500, 1000, 1500 or 2000 l/ha at 5km/hr  
To T-Bar canopies at 4.5 to 5m row spacings

Note: The nozzling and pressure options shown in these charts are intended to provide an indication of a likely suitable sprayer configuration to deliver the predicted spray output range to a given canopy row spacing. There are other nozzle selections and configurations that could also be suitable. Different sprayers will vary in the exact location of nozzles on the spray ring, so may require different nozzle selections. The nozzle outputs shown are theoretical, actual nozzle outputs can vary and should be measured during calibration.

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T-Bar 4.5-5.0 m rows - 7 Nozzle sprayer 2000 l/ha 5 km/hr					
Target Volume	2000	l/ha	100.0	l/100m row	
Target speed	5.0	km/hr			
Row spacing	5.0	metres			
Output required	83.3	l/min total			
NOZZLING DETAILS					
Nozzle pressure	2650	kPa	384	PSI	
Nozzle type	Nozzle	Predicted output	%	Nozzle angle	
	1 Off				
	2 Off				
TeeJet Disk+Core	3 D5-46	9.2	22%	Narrow	
TeeJet Disk+Core	4 D6-46	13.1	31%	Narrow	
TeeJet Disk+Core	5 D6-46	13.1	31%	Narrow	
TeeJet Disk+Core	6 D4-56	6.4	15%	Narrow	
	7 Off				
Output from one side (l/min)	41.8	100%			
Total predicted output (l/min)	83.6				

T-Bar 4.5-5.0 m rows - 8 Nozzle sprayer 2000 l/ha 5 km/hr					
Target Volume	2000	l/ha	100.0	l/100m row	
Target speed	5.0	km/hr			
Row spacing	5.0	metres			
Output required	83.3	l/min total			
NOZZLING DETAILS					
Nozzle pressure	2150	kPa	312	PSI	
Nozzle type	Nozzle	Predicted output	%	Nozzle angle	
	1 Off				
	2 Off				
TeeJet Disk+Core	3 D4-35	4.9	12%	Medium	
TeeJet Disk+Core	4 D6-46	11.8	28%	Narrow	
TeeJet Disk+Core	5 D6-46	11.8	28%	Narrow	
TeeJet Disk+Core	6 D5-46	8.3	20%	Narrow	
TeeJet Disk+Core	7 D4-46	4.9	12%	Narrow	
	8 Off				
Output from one side (l/min)	41.6	100%			
Total predicted output (l/min)	83.3				

T-Bar 4.5-5.0 m rows - 10 Nozzle sprayer 2000 l/ha 5 km/hr					
Target Volume	2000	l/ha	100.0	l/100m row	
Target speed	5.0	km/hr			
Row spacing	5.0	metres			
Output required	83.3	l/min total			
NOZZLING DETAILS					
Nozzle pressure	1840	kPa	267	PSI	
Nozzle type	Nozzle	Predicted output	%	Nozzle angle	
	1 Off				
	2 Off				
TeeJet Disk+Core	3 D4-46	4.6	11%	Narrow	
TeeJet Disk+Core	4 D6-46	10.9	26%	Narrow	
TeeJet Disk+Core	5 D6-46	10.9	26%	Narrow	
TeeJet Disk+Core	6 D5-46	7.6	18%	Narrow	
TeeJet Disk+Core	7 D4-46	4.6	11%	Narrow	
TeeJet Disk+Core	8 D3-46	3.1	7%	Narrow	
	9 Off				
	10 Off				
Output from one side (l/min)	41.7	100%			
Total predicted output (l/min)	83.3				

