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## Kev's Tech Tips

### Refining your WeedSeeker Boom Setup

#### Nozzle Selection

As part of Crop Optics ongoing commitment to improving WeedSeeker operation we have been working closely with Bill Gordon Consulting and TeeJet to find a spray nozzle that best suits the system.

Recent field trials have shown that TP65 Degree Even Fan nozzles are still the best nozzle to be used with WeedSeeker.

The trials reinforced Crop Optics advice to customers that if you use TP6503 nozzles you should increase your chemical rate in the tank by 30%. This is to ensure that when a weed is detected by a single WeedSeeker sensor and a single nozzle fires you get the correct rate of chemical applied to the weed.

The trials also showed that there may be an efficacy advantage in changing to TP6504 nozzles.

The use of TP6504 nozzles in your WeedSeeker will increase the water rate applied by a single nozzle fire to 100l/Ha. This means you do not have to increase the chemical rate by 30%.

See the second page of this Tip to view the WeedSeeker Water Rate Chart.

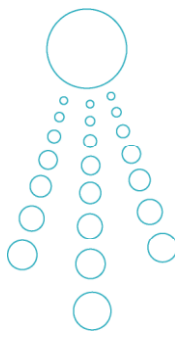
***NB: Testing has shown that the effective spray coverage of a single nozzle is 60cm. Increasing spray pressure above 3 Bar will reduce WeedSeeker accuracy and increase the chance of creating driftable fines.***

#### Direct Chemical Injection

Goldacres have announced the imminent release of a Direct Chemical Injection (DCI) System that is compatible with WeedSeeker.

The BatchMate system allows WeedSeeker users to Direct Inject up to 4 products into the WeedSeeker sprayline via a batch tank. Using water in the main spray tank and neat chemical in separate injection tanks reduces the possibility of chemical wastage due to unforeseen circumstances.

More information will be available soon.



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## WeedSeeker Rates (L/Ha) using TP65 even nozzles

Sprayed Width (cm) 60 Testing has shown that the effective spray coverage of a single nozzle is 60cm.

Nozzle Size	Pressure (Bar)	Droplet Size	Flowrate (L/min/nozzle)	Speed (Km/H)				
				12	14	16	18	20
TP6503	2	C	0.96	80	69	60	53	48
	2.5	C	1.08	90	77	68	60	54
	3	C	1.18	98	84	74	66	59
	4	M	1.36	113	97	85	76	68
TP6504	2	C	1.29	108	92	81	72	65
	2.5	C	1.44	120	103	90	80	72
	3	C	1.58	132	113	99	88	79
	4	M	1.82	152	130	114	101	91
TP6505	2	C	1.61	134	115	101	89	81
	2.5	C	1.8	150	129	113	100	90
	3	C	1.97	164	141	123	109	99
	4	C	2.27	189	162	142	126	114

**Caution:** *Increasing spray pressure above 3 Bar will reduce WeedSeeker accuracy and increase the chance of creating driftable fines.*