

TurboDrop® Variable Rate TDVR Nozzle Tabulations

20 Inch Spacing

Each TDVR nozzle will cover the range of approximately four standard TurboDrop® sizes.

Flow increases at roughly twice the rate of a conventional nozzle.

A variety of pattern tips may be used with the Variable Rate TurboDrop® Venturi (twin fan, flood, fertilizer).

For coverage critical applications, a TwinFan setup with 80° and/or 110° flat fans is an option.

The TwinFan pattern setup will drop the ASAE Droplet Size by approximately one category.

For example, the TDVR02 with a TwinFan 08 combination will be roughly Medium at 70 and 80 psi.

Never use FirstPick™, CottonQuik™ (or any other strong acid) with TurboDrop® or Variable Rate nozzles.

TDVR 015 (includes 11006 tip) (approx. ISO 015-03)	Press.	ASAE Droplet size	Flow	TDVR 015 Application Rate GPA at MPH based on 20" spacing															
	PSI		GPM	6	8	9	10	11	12	13	14	15	16	17	18	19	20		
	40	XC	0.17	8.4	6.3	5.6	5.0	4.6	4.2	3.9	3.6	3.4	3.2	3.0	2.8	2.7	2.5		
50	VC	0.22	10.9	8.2	7.3	6.5	5.9	5.4	5.0	4.7	4.4	4.1	3.8	3.6	3.4	3.3			
60	VC	0.27	13.4	10.0	8.9	8.0	7.3	6.7	6.2	5.7	5.3	5.0	4.7	4.5	4.2	4.0			
70	C	0.33	16.3	12.3	10.9	9.8	8.9	8.2	7.5	7.0	6.5	6.1	5.8	5.4	5.2	4.9			
80	M	0.38	18.8	14.1	12.5	11.3	10.3	9.4	8.7	8.1	7.5	7.1	6.6	6.3	5.9	5.6			
90	M	0.42	20.8	15.6	13.9	12.5	11.3	10.4	9.6	8.9	8.3	7.8	7.3	6.9	6.6	6.2			
100	M	0.45	22.3	16.7	14.9	13.4	12.2	11.1	10.3	9.5	8.9	8.4	7.9	7.4	7.0	6.7			
120	F	0.50	24.8	18.6	16.5	14.9	13.5	12.4	11.4	10.6	9.9	9.3	8.7	8.3	7.8	7.4			
140	F	0.54	26.7	20.0	17.8	16.0	14.6	13.4	12.3	11.5	10.7	10.0	9.4	8.9	8.4	8.0			

TDVR 02 (includes 11008 tip) (approx. ISO 02-04)	Press.	ASAE Droplet size	Flow	TDVR 02 Application Rate GPA at MPH based on 20" spacing															
	PSI		GPM	6	8	9	10	11	12	13	14	15	16	17	18	19	20		
	40	XC	0.22	10.9	8.2	7.3	6.5	5.9	5.4	5.0	4.7	4.4	4.1	3.8	3.6	3.4	3.3		
50	XC	0.29	14.4	10.8	9.6	8.6	7.8	7.2	6.6	6.2	5.7	5.4	5.1	4.8	4.5	4.3			
60	VC	0.42	20.8	15.6	13.9	12.5	11.3	10.4	9.6	8.9	8.3	7.8	7.3	6.9	6.6	6.2			
70	C	0.51	25.2	18.9	16.8	15.1	13.8	12.6	11.7	10.8	10.1	9.5	8.9	8.4	8.0	7.6			
80	C	0.58	28.7	21.5	19.1	17.2	15.7	14.4	13.3	12.3	11.5	10.8	10.1	9.6	9.1	8.6			
90	M	0.64	31.7	23.8	21.1	19.0	17.3	15.8	14.6	13.6	12.7	11.9	11.2	10.6	10.0	9.5			
100	M	0.69	34.2	25.6	22.8	20.5	18.6	17.1	15.8	14.6	13.7	12.8	12.1	11.4	10.8	10.2			
120	M	0.75	37.1	27.8	24.8	22.3	20.3	18.6	17.1	15.9	14.9	13.9	13.1	12.4	11.7	11.1			
140	F	0.82	40.6	30.4	27.1	24.4	22.1	20.3	18.7	17.4	16.2	15.2	14.3	13.5	12.8	12.2			

TDVR 03 (includes 11010 tip) (approx. ISO 03-06)	Press.	ASAE Droplet size	Flow	TDVR 03 Application Rate GPA at MPH based on 20" spacing															
	PSI		GPM	6	8	9	10	11	12	13	14	15	16	17	18	19	20		
	40	XC	0.33	16.3	12.3	10.9	9.8	8.9	8.2	7.5	7.0	6.5	6.1	5.8	5.4	5.2	4.9		
50	XC	0.41	20.3	15.2	13.5	12.2	11.1	10.1	9.4	8.7	8.1	7.6	7.2	6.8	6.4	6.1			
60	VC	0.51	25.2	18.9	16.8	15.1	13.8	12.6	11.7	10.8	10.1	9.5	8.9	8.4	8.0	7.6			
70	VC	0.67	33.2	24.9	22.1	19.9	18.1	16.6	15.3	14.2	13.3	12.4	11.7	11.1	10.5	9.9			
80	C	0.80	39.6	29.7	26.4	23.8	21.6	19.8	18.3	17.0	15.8	14.9	14.0	13.2	12.5	11.9			
90	C	0.87	43.1	32.3	28.7	25.8	23.5	21.5	19.9	18.5	17.2	16.1	15.2	14.4	13.6	12.9			
100	M	0.93	46.0	34.5	30.7	27.6	25.1	23.0	21.2	19.7	18.4	17.3	16.2	15.3	14.5	13.8			
120	M	1.02	50.5	37.9	33.7	30.3	27.5	25.2	23.3	21.6	20.2	18.9	17.8	16.8	15.9	15.1			
140	M	1.10	54.5	40.8	36.3	32.7	29.7	27.2	25.1	23.3	21.8	20.4	19.2	18.2	17.2	16.3			

- Flow tolerance: ± 10-15%
- Flow control (vs. pressure control) systems will be more accurate
- Flush with clean water after each use
- Operate above 45 psi for best patternation