

TurboDrop® DualFan Medium Pressure Nozzles - 20" Spacing Tabulation Chart (Page 1)

The TurboDrop® Venturi (TDXLV/TDVC) is the heart of TurboDrop® DualFan nozzle. The Venturi (or injector) meters the flow and injects air into the spray fluid. The TurboDrop® Venturi is ISO color coded for flow rate. The pattern tip or combination of tips is double the flow rate of the Venturi. For example, a blue 03 Venturi requires an 06 pattern tip, or a pair of tips that add up to 06. The TurboDrop® Venturi nozzle utilizes a patented stabilization chamber and pulsation dampener which results in even mixing of air with the spray liquid, and a tighter, more uniform droplet spectrum for a unique combination of drift control and coverage. To maximize coverage, TADF nozzles may be alternated on the boom to provide four angles of spray orientation into the canopy, effectively spraying the target four times in one pass.

One size will often fit a variety of applications. For example, the 04 TurboDrop® DualFan will deliver glyphosate at 10 gpa at 11-15 mph between 35 and 65 psi. For 15 gpa fungicides, or other contact pesticides, this same nozzle could be operated at 11-13 mph at roughly 80-110 psi. Sprayer speed may be reduced a couple of miles per hour (9-10 mph) to deliver 20 gpa at 90-110 psi.

Pressure Range: 20-120 psi (30-150 psi, ceramic) **Recommended Boom Height:** 15-25" (with 20" nozzle spacing)
Materials of Construction: Polyacetal, EPDM. Semi-ceramic version (TACDF) utilizes ceramic pre-orifice for extended wear life.

TurboDrop® DualFan



TADF01
TADF015
TADF02
TADF025
TADF03
TADF04
TADF05
TADF06
TADF08
TADF10
TADF15

		GALLONS PER ACRE BASED ON 20" NOZZLE SPACING																		
	Droplet	Drift %	PSI	GPM	5 MPH	6 MPH	7 MPH	8 MPH	9 MPH	10 MPH	11 MPH	12 MPH	13 MPH	14 MPH	15 MPH	16 MPH	18 MPH	20 MPH		
	TADF01	C	0.7	20	0.07	4.2	3.5	3.0	2.6	2.3	2.1	1.9	1.8	1.6	1.5	1.4	1.3	1.2	1.1	
		C	2.4	30	0.09	5.1	4.3	3.7	3.2	2.9	2.6	2.3	2.1	2.0	1.8	1.7	1.6	1.4	1.3	
		M	4.4	40	0.10	5.9	5.0	4.2	3.7	3.3	3.0	2.7	2.5	2.3	2.1	2.0	1.9	1.7	1.5	
		M	6.8	50	0.11	6.6	5.5	4.7	4.2	3.7	3.3	3.0	2.8	2.6	2.4	2.2	2.1	1.8	1.7	
		M	9.3	60	0.12	7.3	6.1	5.2	4.5	4.0	3.6	3.3	3.0	2.8	2.6	2.4	2.3	2.0	1.8	
		M	11.9	70	0.13	7.9	6.5	5.6	4.9	4.4	3.9	3.6	3.3	3.0	2.8	2.6	2.5	2.2	2.0	
		M	14.3	80	0.14	8.4	7.0	6.0	5.3	4.7	4.2	3.8	3.5	3.2	3.0	2.8	2.6	2.3	2.1	
		M	16.4	90	0.15	8.9	7.4	6.4	5.6	5.0	4.5	4.1	3.7	3.4	3.2	3.0	2.8	2.5	2.2	
		F	18.2	100	0.16	9.4	7.8	6.7	5.9	5.2	4.7	4.3	3.9	3.6	3.4	3.1	2.9	2.6	2.3	
	TADF015	F	21.9	120	0.17	10.3	8.6	7.3	6.4	5.7	5.1	4.7	4.3	4.0	3.7	3.4	3.2	2.9	2.6	
		VC	0.6	20	0.11	6.3	5.3	4.5	3.9	3.5	3.2	2.9	2.6	2.4	2.3	2.1	2.0	1.8	1.6	
		VC	1.7	30	0.13	7.7	6.4	5.5	4.8	4.3	3.9	3.5	3.2	3.0	2.8	2.6	2.4	2.1	1.9	
		C	3.1	40	0.15	8.9	7.4	6.4	5.6	5.0	4.5	4.1	3.7	3.4	3.2	3.0	2.8	2.5	2.2	
		M	4.9	50	0.17	10.0	8.3	7.1	6.2	5.5	5.0	4.5	4.2	3.8	3.6	3.3	3.1	2.8	2.5	
		M	6.7	60	0.18	10.9	9.1	7.8	6.8	6.1	5.5	5.0	4.5	4.2	3.9	3.6	3.4	3.0	2.7	
		M	8.6	70	0.20	11.8	9.8	8.4	7.4	6.5	5.9	5.4	4.9	4.5	4.2	3.9	3.7	3.3	2.9	
		M	10.4	80	0.21	12.6	10.5	9.0	7.9	7.0	6.3	5.7	5.3	4.8	4.5	4.2	3.9	3.5	3.2	
		M	12.1	90	0.23	13.4	11.1	9.5	8.4	7.4	6.7	6.1	5.6	5.1	4.8	4.5	4.2	3.7	3.3	
		M	13.5	100	0.24	14.1	11.7	10.1	8.8	7.8	7.0	6.4	5.9	5.4	5.0	4.7	4.4	3.9	3.5	
		M	16.3	120	0.26	15.4	12.9	11.0	9.6	8.6	7.7	7.0	6.4	5.9	5.5	5.1	4.8	4.3	3.9	
		XC	0.4	20	0.14	8.4	7.0	6.0	5.3	4.7	4.2	3.8	3.5	3.2	3.0	2.8	2.6	2.3	2.1	
		VC	0.9	30	0.17	10.3	8.6	7.3	6.4	5.7	5.1	4.7	4.3	4.0	3.7	3.4	3.2	2.9	2.6	
		VC	1.8	40	0.20	11.9	9.9	8.5	7.4	6.6	5.9	5.4	5.0	4.6	4.2	4.0	3.7	3.3	3.0	
		C	2.9	50	0.22	13.3	11.1	9.5	8.3	7.4	6.6	6.0	5.5	5.1	4.7	4.4	4.2	3.7	3.3	
		C	4.1	60	0.24	14.5	12.1	10.4	9.1	8.1	7.3	6.6	6.1	5.6	5.2	4.8	4.5	4.0	3.6	
		C	5.4	70	0.26	15.7	13.1	11.2	9.8	8.7	7.9	7.1	6.5	6.0	5.6	5.2	4.9	4.4	3.9	
		M	6.6	80	0.28	16.8	14.0	12.0	10.5	9.3	8.4	7.6	7.0	6.5	6.0	5.6	5.3	4.7	4.2	
		M	7.8	90	0.30	17.8	14.9	12.7	11.1	9.9	8.9	8.1	7.4	6.9	6.4	5.9	5.6	5.0	4.5	
		M	8.8	100	0.32	18.8	15.7	13.4	11.7	10.4	9.4	8.5	7.8	7.2	6.7	6.3	5.9	5.2	4.7	
		M	10.8	120	0.35	20.6	17.1	14.7	12.9	11.4	10.3	9.4	8.6	7.9	7.3	6.9	6.4	5.7	5.1	
		XC	0.4	20	0.18	10.5	8.8	7.5	6.6	5.8	5.3	4.8	4.4	4.0	3.8	3.5	3.3	2.9	2.6	
		VC	1.0	30	0.22	12.9	10.7	9.2	8.0	7.1	6.4	5.8	5.4	4.9	4.6	4.3	4.0	3.6	3.2	
		VC	1.8	40	0.25	14.9	12.4	10.6	9.3	8.3	7.4	6.8	6.2	5.7	5.3	5.0	4.6	4.1	3.7	
		VC	2.7	50	0.28	16.6	13.8	11.9	10.4	9.2	8.3	7.5	6.9	6.4	5.9	5.5	5.2	4.6	4.2	
		C	3.7	60	0.31	18.2	15.2	13.0	11.4	10.1	9.1	8.3	7.6	7.0	6.5	6.1	5.7	5.1	4.5	
		C	4.8	70	0.33	19.6	16.4	14.0	12.3	10.9	9.8	8.9	8.2	7.6	7.0	6.5	6.1	5.5	4.9	
		M	5.8	80	0.35	21.0	17.5	15.0	13.1	11.7	10.5	9.5	8.8	8.1	7.5	7.0	6.6	5.8	5.3	
		M	6.7	90	0.38	22.3	18.6	15.9	13.9	12.4	11.1	10.1	9.3	8.6	8.0	7.4	7.0	6.2	5.6	
		M	7.5	100	0.40	23.5	19.6	16.8	14.7	13.0	11.7	10.7	9.8	9.0	8.4	7.8	7.3	6.5	5.9	
		M	9.1	120	0.43	25.7	21.4	18.4	16.1	14.3	12.9	11.7	10.7	9.9	9.2	8.6	8.0	7.1	6.4	
		XC	0.4	20	0.21	12.6	10.5	9.0	7.9	7.0	6.3	5.7	5.3	4.8	4.5	4.2	3.9	3.5	3.2	
		XC	1.0	30	0.26	15.4	12.9	11.0	9.6	8.6	7.7	7.0	6.4	5.9	5.5	5.1	4.8	4.3	3.9	
		VC	1.6	40	0.30	17.8	14.9	12.7	11.1	9.9	8.9	8.1	7.4	6.9	6.4	5.9	5.6	5.0	4.5	
		VC	2.4	50	0.34	19.9	16.6	14.2	12.5	11.1	10.0	9.1	8.3	7.7	7.1	6.6	6.2	5.5	5.0	
		VC	3.3	60	0.37	21.8	18.2	15.6	13.6	12.1	10.9	9.9	9.1	8.4	7.8	7.3	6.8	6.1	5.5	
		C	4.2	70	0.40	23.6	19.6	16.8	14.7	13.1	11.8	10.7	9.8	9.1	8.4	7.9	7.4	6.5	5.9	
		C	5.1	80	0.42	25.2	21.0	18.0	15.8	14.0	12.6	11.5	10.5	9.7	9.0	8.4	7.9	7.0	6.3	
		C	5.9	90	0.45	26.7	22.3	19.1	16.7	14.9	13.4	12.2	11.1	10.3	9.5	8.9	8.4	7.4	6.7	
		M	6.8	100	0.47	28.2	23.5	20.1	17.6	15.7	14.1	12.8	11.7	10.8	10.1	9.4	8.8	7.8	7.0	
		M	8.0	120	0.52	30.9	25.7	22.0	19.3	17.1	15.4	14.0	12.9	11.9	11.0	10.3	9.6	8.6	7.7	
		XC	0.3	20	0.28	16.8	14.0	12.0	10.5	9.3	8.4	7.6	7.0	6.5	6.0	5.6	5.3	4.7	4.2	
		XC	0.8	30	0.35	20.6	17.1	14.7	12.9	11.4	10.3	9.4	8.6	7.9	7.3	6.9	6.4	5.7	5.1	
		VC	1.3	40	0.40	23.8	19.8	17.0	14.9	13.2	11.9	10.8	9.9	9.1	8.5	7.9	7.4	6.6	5.9	
		VC	1.9	50	0.45	26.6	22.1	19.0	16.6	14.8	13.3	12.1	11.1	10.2	9.5	8.9	8.3	7.4	6.6	
		VC	2.6	60	0.49	29.1	24.2	20.8	18.2	16.2	14.5	13.2	12.1	11.2	10.4	9.7	9.1	8.1	7.3	
		C	3.6	70	0.53	31.4	26.2	22.5	19.6	17.5	15.7	14.3	13.1	12.1	11.2	10.5	9.8	8.7	7.9	
		C	4.6	80	0.57	33.6	28.0	24.0	21.0	18.7	16.8	15.3	14.0	12.9	12.0	11.2	10.5	9.3	8.4	
		C	5.4	90	0.60	35.6	29.7	25.5	22.3	19.8	17.8	16.2	14.9	13.7	12.7	11.9	11.1	9.9	8.9	
		C	5.4	100	0.63	37.6	31.3	26.8	23.5	20.9	18.8	17.1	15.7	14.4	13.4	12.5	11.7	10.4	9.4	
		M	6.4	120	0.69	41.2	34.3	29.4	25.7	22.9	20.6	18.7	17.1	15.8	14.7	13.7	12.9	11.4	10.3	
		UC	0.3	20	0.35	21.0	17.5	15.0	13.1	11.7	10.5	9.5	8.8	8.1	7.5	7.0	6.6	5.8	5.3	
		XC	0.5	30	0.43	25.7	21.4	18.4	16.1	14.3	12.9	11.7	10.7	9.9	9.2	8.6	8.0	7.1	6.4	
		VC	1.0	40	0.50	29.7	24.8	21.2	18.6	16.5	14.9	13.5	12.4	11.4	10.6	9.9	9.3	8.3	7.4	
		VC	1.5	50	0.56	33.2	27.7	23.7	20.8	18.4	16.6	15.1	13.8	12.8	11.9	11.1	10.4	9.2	8.3	
		VC	1.9	60	0.61	36.4	30.3	26.0	22.7	20.2	18.2	16.5	15.2	14.0	13.0	12.1	11.4	10.1	9.1	
		VC	2.6	70	0.66	39.3	32.7	28.1	24.6	21.8	19.6	17.9	16.4	15.1	14.0	13.1	12.3	10.9	9.8	
		VC	3.2	80	0.71	42.0	35.0	30.0	26.3	23.3	21.0	19.1	17.5	16.2	15.0	14.0	13.1	11.7	10.5	
		C	3.8	90	0.75	44.6	37.1	31.8	27.8	24.8	22.3	20.3	18.6	17.1	15.9	14.9	13.9	12.4	11.1	
		C	4.3	100	0.79	47.0	39.1	33.5	29.3	26.1	23.5	21.3	19.6	18.1	16.8	15.7	14.7	13.0	11.7	
		C	5.3	120	0.87	51.4	42.9	36.7	32.2	28.6	25.7	23.4	21.4	19.8	18.4	17.1	16.1	14.3	12.9	

TurboDrop® DualFan Medium Pressure Nozzles - 20" Spacing Tabulation Chart (Page 2)

		GALLONS PER ACRE BASED ON 20" NOZZLE SPACING																	
	Droplet	Drift		PSI	GPM	5	6	7	8	9	10	11	12	13	14	15	16	18	20
		%				MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH
	TADF06		XC	0.3	20	0.42	25.2	21.0	18.0	15.8	14.0	12.6	11.5	10.5	9.7	9.0	8.4	7.9	7.0
			XC	0.7	30	0.52	30.9	25.7	22.0	19.3	17.1	15.4	14.0	12.9	11.9	11.0	10.3	9.6	8.6
			VC	1.2	40	0.60	35.6	29.7	25.5	22.3	19.8	17.8	16.2	14.9	13.7	12.7	11.9	11.1	9.9
			VC	1.8	50	0.67	39.8	33.2	28.5	24.9	22.1	19.9	18.1	16.6	15.3	14.2	13.3	12.5	11.1
			VC	2.4	60	0.73	43.6	36.4	31.2	27.3	24.2	21.8	19.8	18.2	16.8	15.6	14.5	13.6	12.1
			C	3.1	70	0.79	47.1	39.3	33.7	29.5	26.2	23.6	21.4	19.6	18.1	16.8	15.7	14.7	13.1
			C	3.8	80	0.85	50.4	42.0	36.0	31.5	28.0	25.2	22.9	21.0	19.4	18.0	16.8	15.8	14.0
			C	4.6	90	0.90	53.5	44.6	38.2	33.4	29.7	26.7	24.3	22.3	20.6	19.1	17.8	16.7	14.9
			C	5.6	100	0.95	56.4	47.0	40.3	35.2	31.3	28.2	25.6	23.5	21.7	20.1	18.8	17.6	15.7
			M	6.7	120	1.04	61.7	51.4	44.1	38.6	34.3	30.9	28.1	25.7	23.7	22.0	20.6	19.3	17.1
	TADF08		UC	0.3	20	0.57	33.6	28.0	24.0	21.0	18.7	16.8	15.3	14.0	12.9	12.0	11.2	10.5	9.3
			XC	0.5	30	0.69	41.2	34.3	29.4	25.7	22.9	20.6	18.7	17.1	15.8	14.7	13.7	12.9	11.4
			VC	1.0	40	0.80	47.5	39.6	33.9	29.7	26.4	23.8	21.6	19.8	18.3	17.0	15.8	14.9	13.2
			VC	1.4	50	0.89	53.1	44.3	37.9	33.2	29.5	26.6	24.1	22.1	20.4	19.0	17.7	16.6	14.8
			VC	1.8	60	0.98	58.2	48.5	41.6	36.4	32.3	29.1	26.5	24.2	22.4	20.8	19.4	18.2	16.2
			VC	2.5	70	1.06	62.9	52.4	44.9	39.3	34.9	31.4	28.6	26.2	24.2	22.5	21.0	19.6	17.5
			VC	3.1	80	1.13	67.2	56.0	48.0	42.0	37.3	33.6	30.5	28.0	25.8	24.0	22.4	21.0	18.7
			C	3.7	90	1.20	71.3	59.4	50.9	44.6	39.6	35.6	32.4	29.7	27.4	25.5	23.8	22.3	19.8
			C	4.3	100	1.26	75.1	62.6	53.7	47.0	41.7	37.6	34.2	31.3	28.9	26.8	25.0	23.5	20.9
			C	5.3	120	1.39	82.3	68.6	58.8	51.4	45.7	41.2	37.4	34.3	31.7	29.4	27.4	25.7	22.9
	TADF10		UC	0.2	20	0.71	42.0	35.0	30.0	26.3	23.3	21.0	19.1	17.5	16.2	15.0	14.0	13.1	11.7
			XC	0.4	30	0.87	51.4	42.9	36.7	32.2	28.6	25.7	23.4	21.4	19.8	18.4	17.1	16.1	14.3
			XC	0.7	40	1.00	59.4	49.5	42.4	37.1	33.0	29.7	27.0	24.8	22.8	21.2	19.8	18.6	16.5
			VC	1.1	50	1.12	66.4	55.3	47.4	41.5	36.9	33.2	30.2	27.7	25.5	23.7	22.1	20.8	18.4
			VC	1.4	60	1.22	72.7	60.6	52.0	45.5	40.4	36.4	33.1	30.3	28.0	26.0	24.2	22.7	20.2
			VC	1.8	70	1.32	78.6	65.5	56.1	49.1	43.7	39.3	35.7	32.7	30.2	28.1	26.2	24.6	21.8
			VC	2.3	80	1.41	84.0	70.0	60.0	52.5	46.7	42.0	38.2	35.0	32.3	30.0	28.0	26.3	23.3
			VC	2.9	90	1.50	89.1	74.3	63.6	55.7	49.5	44.6	40.5	37.1	34.3	31.8	29.7	27.8	24.8
			VC	3.6	100	1.58	93.9	78.3	67.1	58.7	52.2	47.0	42.7	39.1	36.1	33.5	31.3	29.3	26.1
			C	4.6	120	1.73	102.9	85.7	73.5	64.3	57.2	51.4	46.8	42.9	39.6	36.7	34.3	32.2	28.6
	TADF15		UC	0.1	20	1.06	63.0	52.5	45.0	39.4	35.0	31.5	28.6	26.3	24.2	22.5	21.0	19.7	17.5
			XC	0.3	30	1.30	77.2	64.3	55.1	48.2	42.9	38.6	35.1	32.2	29.7	27.6	25.7	24.1	21.4
			XC	0.6	40	1.50	89.1	74.3	63.6	55.7	49.5	44.6	40.5	37.1	34.3	31.8	29.7	27.8	24.8
			XC	0.8	50	1.68	99.6	83.0	71.2	62.3	55.3	49.8	45.3	41.5	38.3	35.6	33.2	31.1	27.7
			VC	1.2	60	1.84	109.1	90.9	77.9	68.2	60.6	54.6	49.6	45.5	42.0	39.0	36.4	34.1	30.3
			VC	1.6	70	1.98	117.9	98.2	84.2	73.7	65.5	58.9	53.6	49.1	45.3	42.1	39.3	36.8	32.7
			VC	2.1	80	2.12	126.0	105.0	90.0	78.8	70.0	63.0	57.3	52.5	48.5	45.0	42.0	39.4	35.0
			VC	2.6	90	2.25	133.7	111.4	95.5	83.5	74.3	66.8	60.8	55.7	51.4	47.7	44.6	41.8	37.1
			VC	3.1	100	2.37	140.9	117.4	100.6	88.0	78.3	70.4	64.0	58.7	54.2	50.3	47.0	44.0	39.1
			VC	3.7	120	2.60	154.3	128.6	110.2	96.5	85.7	77.2	70.1	64.3	59.4	55.1	51.4	48.2	42.9

Droplet data based off of ASABE S572.3 testing and Drift % is percent of <141um driftable fines.