TurboDrop® XL Medium Pressure Nozzles - 20” Spacing Tabulation Chart (Page 1)

The TurboDrop® Venturi (TDXLV/TDVC) is the heart of both the TurboDrop® 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.

The TurboDrop® XL nozzle is unique among air injection nozzles in that it was designed for contact chemicals, not just glyphosate (a systemic herbicide). In fact, the TurboDrop® XL, the TurboDrop® DualFan and the AirMix® were the first air injection nozzles recommended by Bayer CropScience for use with Liberty™ herbicide. The single fan XL can be used in most ag spray applications by choosing the appropriate combination of carrier rate and droplet size.

Pressure Range: 20-120 psi (30-150 psi, ceramic) **Recommended Boom Height XL:** 18-36” (with 20” nozzle spacing)
Materials of Construction: Polyacetal, EPDM. Semi-ceramic version (TDCXL) utilizes ceramic pre-orifice for extended wear life.

TurboDrop® XL

TDXL11001
TDXL110015
TDXL11002
TDXL110025
TDXL11003
TDXL11004
TDXL11005
TDXL11006
TDXL11008
TDXL11010
TDXL11015

					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
TDXL11001	VC	1.1	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	2.5	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	4.3	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	6.2	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	7.9	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	9.6	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	11.1	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	12.7	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	14.5	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
	F	17.6	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
TDXL110015	VC	0.7	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	1.6	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	2.9	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
	C	4.2	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	5.5	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	6.8	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	8.1	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	9.4	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	10.8	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	13.0	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
TDXL11002	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
	XC	0.8	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	1.5	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
	VC	2.3	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	3.2	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	4.0	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
	C	5.0	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	6.1	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	7.1	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	8.5	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
TDXL110025	XC	0.3	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
	XC	0.5	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	1.0	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	1.7	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	2.7	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	3.5	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
	C	4.3	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
	C	5.0	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	5.9	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	7.4	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
TDXL11003	XC	0.3	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	0.7	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	1.2	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	1.9	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	2.7	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	3.4	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	4.2	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	5.0	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	5.9	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	7.0	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
TDXL11004	UC	0.2	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	0.4	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	0.9	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	1.4	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	1.8	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
	VC	2.5	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	3.1	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	3.7	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	4.4	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
	C	5.4	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
TDXL11005	UC	0.1	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
	UC	0.3	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
	XC	0.6	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	1.0	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	1.3	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	1.7	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	2.2	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
	VC	2.8	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
	VC	3.3	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	4.2	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

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

TurboDrop® XL Medium Pressure Nozzles - 20” Spacing Tabulation Chart (Page 2)

					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
TDXL11006 	UC	0.1	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	6.3
	UC	0.3	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	7.7
	XC	0.6	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	8.9
	XC	0.9	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	10.0
	VC	1.2	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	10.9
	VC	1.6	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	11.8
	VC	2.1	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	12.6
	VC	2.6	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	13.4
	VC	3.1	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	14.1
	VC	3.7	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	15.4
TDXL11008 	UC	0.0	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	8.4
	UC	0.3	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	10.3
	XC	0.5	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	11.9
	XC	0.8	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	13.3
	XC	1.1	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	14.5
	VC	1.4	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	15.7
	VC	1.8	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	16.8
	VC	2.3	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	17.8
	VC	2.8	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	18.8
	VC	3.4	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	20.6
TDXL11010 	UC	0.0	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	10.5
	UC	0.3	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	12.9
	XC	0.5	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	14.9
	XC	0.7	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	16.6
	XC	1.0	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	18.2
	VC	1.3	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	19.6
	VC	1.7	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	21.0
	VC	2.1	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	22.3
	VC	2.5	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	23.5
	VC	3.4	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	25.7
TDXL11015 	UC	0.0	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	15.8
	UC	0.2	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	19.3
	UC	0.4	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	22.3
	XC	0.6	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	24.9
	XC	0.9	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	27.3
	XC	1.1	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	29.5
	XC	1.3	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	31.5
	XC	1.7	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	33.4
	VC	2.1	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	35.2
	VC	2.7	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	38.6

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