








Nozzles for BASF's Engenia® Herbicide

Greenleaf Technologies has five nozzles approved for BASF's Engenia® herbicide, our TDXL11003-D, TDXL11004-D, TDXL11005-D, TDXL11006-D, and the SD110-10 for PWM Systems. Only the D version of the TDXL in approved sizes may be used with Engenia® herbicide. The TDXL11004-D and TDXL11005-D nozzles require an approved DRA(drift reduction adjuvant) for use with Engenia®. Visit www.EngeniaTankMix.com for more information about requirements and recommendations. Best pattern distribution with the approved TDXL-D nozzles is achieved with pressures of 40 psi and above.

The SD110-10 SoftDrop Nozzle from Greenleaf Technologies is the only size 10 PWM nozzle approved for use with Engenia® herbicide that connects directly to a standard nozzle body, no adapter needed. The SoftDrop is particularly well-suited for PWM systems, operating between 10 and 50 Hertz. The SD110-10 is approved for a broad operating range, from 20-60PSI.

The BASF Engenia® label requires a minimum of 15 GPA.

20" Engenia® Tabulation Chart

	Liquid Pressure PSI	Droplet Size ASABE	Nozzle Capacity GPM	GALLONS PER ACRE BASED ON 20" NOZZLE SPACING										
				4 MPH	5 MPH	6 MPH	7 MPH	8 MPH	9 MPH	10 MPH	11 MPH	12 MPH	13 MPH	15 MPH
 TDXL11003-D	20	UC	0.21	15.8	12.6	10.5	9.0	7.9	7.0	6.3	5.7	5.3	4.8	4.2
	30	UC	0.26	19.3	15.4	12.9	11.0	9.6	8.6	7.7	7.0	6.4	5.9	5.1
	40	UC	0.30	22.3	17.8	14.9	12.7	11.1	9.9	8.9	8.1	7.4	6.9	5.9
	50	XC	0.34	24.9	19.9	16.6	14.2	12.5	11.1	10.0	9.1	8.3	7.7	6.6
	60	XC	0.37	27.3	21.8	18.2	15.6	13.6	12.1	10.9	9.9	9.1	8.4	7.3
	70	XC	0.40	29.5	23.6	19.6	16.8	14.7	13.1	11.8	10.7	9.8	9.1	7.9
	80	VC	0.42	31.5	25.2	21.0	18.0	15.8	14.0	12.6	11.5	10.5	9.7	8.4
	90	VC	0.45	33.4	26.7	22.3	19.1	16.7	14.9	13.4	12.2	11.1	10.3	8.9
	 TDXL11004-D	20	UC	0.28	21.0	16.8	14.0	12.0	10.5	9.3	8.4	7.6	7.0	6.5
30		UC	0.35	25.7	20.6	17.1	14.7	12.9	11.4	10.3	9.4	8.6	7.9	6.9
40		UC	0.40	29.7	23.8	19.8	17.0	14.9	13.2	11.9	10.8	9.9	9.1	7.9
50		UC	0.45	33.2	26.6	22.1	19.0	16.6	14.8	13.3	12.1	11.1	10.2	8.9
60		XC	0.49	36.4	29.1	24.2	20.8	18.2	16.2	14.5	13.2	12.1	11.2	9.7
70		XC	0.53	39.3	31.4	26.2	22.5	19.6	17.5	15.7	14.3	13.1	12.1	10.5
80		XC	0.57	42.0	33.6	28.0	24.0	21.0	18.7	16.8	15.3	14.0	12.9	11.2
90		XC	0.60	44.6	35.6	29.7	25.5	22.3	19.8	17.8	16.2	14.9	13.7	11.9
 TDXL11005-D		20	UC	0.35	26.3	21.0	17.5	15.0	13.1	11.7	10.5	9.5	8.8	8.1
	30	UC	0.43	32.2	25.7	21.4	18.4	16.1	14.3	12.9	11.7	10.7	9.9	8.6
	40	UC	0.50	37.1	29.7	24.8	21.2	18.6	16.5	14.9	13.5	12.4	11.4	9.9
	50	UC	0.56	41.5	33.2	27.7	23.7	20.8	18.4	16.6	15.1	13.8	12.8	11.1
	60	UC	0.61	45.5	36.4	30.3	26.0	22.7	20.2	18.2	16.5	15.2	14.0	12.1
	70	UC	0.66	49.1	39.3	32.7	28.1	24.6	21.8	19.6	17.9	16.4	15.1	13.1
	80	XC	0.71	52.5	42.0	35.0	30.0	26.3	23.3	21.0	19.1	17.5	16.2	14.0
	90	XC	0.75	55.7	44.6	37.1	31.8	27.8	24.8	22.3	20.3	18.6	17.1	14.9
	 TDXL11006-D	20	UC	0.42	31.5	25.2	21.0	18.0	15.8	14.0	12.6	11.5	10.5	9.7
30		UC	0.52	38.6	30.9	25.7	22.0	19.3	17.1	15.4	14.0	12.9	11.9	10.3
40		UC	0.60	44.6	35.6	29.7	25.5	22.3	19.8	17.8	16.2	14.9	13.7	11.9
50		UC	0.67	49.8	39.8	33.2	28.5	24.9	22.1	19.9	18.1	16.6	15.3	13.3
60		UC	0.73	54.6	43.6	36.4	31.2	27.3	24.2	21.8	19.8	18.2	16.8	14.5
70		UC	0.79	58.9	47.1	39.3	33.7	29.5	26.2	23.6	21.4	19.6	18.1	15.7
80		UC	0.85	63.0	50.4	42.0	36.0	31.5	28.0	25.2	22.9	21.0	19.4	16.8
90		UC	0.90	66.8	53.5	44.6	38.2	33.4	29.7	26.7	24.3	22.3	20.6	17.8
 SD110-10		20	UC	0.71	52.5	42.0	35.0	30.0	26.3	23.3	21.0	19.1	17.5	16.2
	30	UC	0.87	64.3	51.4	42.9	36.7	32.2	28.6	25.7	23.4	21.4	19.8	17.1
	40	UC	1.00	74.3	59.4	49.5	42.4	37.1	33.0	29.7	27.0	24.8	22.8	19.8
	50	UC	1.12	83.0	66.4	55.3	47.4	41.5	36.9	33.2	30.2	27.7	25.5	22.1
	60	UC	1.22	90.9	72.7	60.6	52.0	45.5	40.4	36.4	33.1	30.3	28.0	24.2
	70		1.32	98.2	78.6	65.5	56.1	49.1	43.7	39.3	35.7	32.7	30.2	26.2
	80		1.41	105.0	84.0	70.0	60.0	52.5	46.7	42.0	38.2	35.0	32.3	28.0
	90		1.50	111.4	89.1	74.3	63.6	55.7	49.5	44.6	40.5	37.1	34.3	29.7

Yellow highlighting represents operating range of each nozzle for Engenia®

Engenia® is a US EPA Restricted Use Pesticide. Always read and follow label directions. Additional state restrictions may apply.
Engenia® is a registered trademark of BASF Corporation. ASABE droplet size based on University of Nebraska-Lincoln wind tunnel testing.