



SprayMax Asymmetric Dual Fan Nozzles

The DF Dual Fan Nozzle employs conventional flat fan tips in an asymmetric dual cap. The dual tips are oriented 10° forward and 50° rearward to provide a combination of penetration and backside coverage in complex canopies. To maximize coverage, the 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.

DF nozzles may be used with PWM (pulse width modulation) systems such as Aim Command™, Capstan Synchro™, or Raven Hawkeye™ and other systems, in order to maximize coverage with contact chemicals.











	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	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH
	20	F	0.14	10.5	8.4	7.0	6.0	5.3	4.7	4.2	3.5	3.0	2.6	2.3	2.1
	30	F	0.17	12.9	10.3	8.6	7.3	6.4	5.7	5.1	4.3	3.7	3.2	2.9	2.6
	40	F	0.20	14.9	11.9	9.9	8.5	7.4	6.6	5.9	5.0	4.2	3.7	3.3	3.0
	50	VF	0.22	16.6	13.3	11.1	9.5	8.3	7.4	6.6	5.5	4.7	4.2	3.7	3.3
	60	VF	0.24	18.2	14.5	12.1	10.4	9.1	8.1	7.3	6.1	5.2	4.5	4.0	3.6
	20	F	0.18	13.1	10.5	8.8	7.5	6.6	5.8	5.3	4.4	3.8	3.3	2.9	2.6
	30	F	0.22	16.1	12.9	10.7	9.2	8.0	7.1	6.4	5.4	4.6	4.0	3.6	3.2
	40	F	0.25	18.6	14.9	12.4	10.6	9.3	8.3	7.4	6.2	5.3	4.6	4.1	3.7
	50	F	0.28	20.8	16.6	13.8	11.9	10.4	9.2	8.3	6.9	5.9	5.2	4.6	4.2
	60	VF	0.31	22.7	18.2	15.2	13.0	11.4	10.1	9.1	7.6	6.5	5.7	5.1	4.5
	20	F	0.21	15.8	12.6	10.5	9.0	7.9	7.0	6.3	5.3	4.5	3.9	3.5	3.2
	30	F	0.26	19.3	15.4	12.9	11.0	9.6	8.6	7.7	6.4	5.5	4.8	4.3	3.9
	40	F	0.30	22.3	17.8	14.9	12.7	11.1	9.9	8.9	7.4	6.4	5.6	5.0	4.5
	50	F	0.34	24.9	19.9	16.6	14.2	12.5	11.1	10.0	8.3	7.1	6.2	5.5	5.0
	60	F	0.37	27.3	21.8	18.2	15.6	13.6	12.1	10.9	9.1	7.8	6.8	6.1	5.5
	20	F	0.25	18.4	14.7	12.3	10.5	9.2	8.2	7.4	6.1	5.3	4.6	4.1	3.7
	30	F	0.30	22.5	18.0	15.0	12.9	11.3	10.0	9.0	7.5	6.4	5.6	5.0	4.5
	40	F	0.35	26.0	20.8	17.3	14.9	13.0	11.6	10.4	8.7	7.4	6.5	5.8	5.2
	50	F	0.39	29.1	23.2	19.4	16.6	14.5	12.9	11.6	9.7	8.3	7.3	6.5	5.8
	60	F	0.43	31.8	25.5	21.2	18.2	15.9	14.1	12.7	10.6	9.1	8.0	7.1	6.4
	20	M	0.28	21.0	16.8	14.0	12.0	10.5	9.3	8.4	7.0	6.0	5.3	4.7	4.2
	30	F	0.35	25.7	20.6	17.1	14.7	12.9	11.4	10.3	8.6	7.3	6.4	5.7	5.1
	40	F	0.40	29.7	23.8	19.8	17.0	14.9	13.2	11.9	9.9	8.5	7.4	6.6	5.9
	50	F	0.45	33.2	26.6	22.1	19.0	16.6	14.8	13.3	11.1	9.5	8.3	7.4	6.6
	60	F	0.49	36.4	29.1	24.2	20.8	18.2	16.2	14.5	12.1	10.4	9.1	8.1	7.3
	20	M	0.32	23.6	18.9	15.8	13.5	11.8	10.5	9.5	7.9	6.8	5.9	5.3	4.7
	30	F	0.39	28.9	23.1	19.3	16.5	14.5	12.9	11.6	9.6	8.3	7.2	6.4	5.8
	40	F	0.45	33.4	26.7	22.3	19.1	16.7	14.9	13.4	11.1	9.5	8.4	7.4	6.7
	50	F	0.50	37.4	29.9	24.9	21.3	18.7	16.6	14.9	12.5	10.7	9.3	8.3	7.5
	60	F	0.55	40.9	32.7	27.3	23.4	20.5	18.2	16.4	13.6	11.7	10.2	9.1	8.2
	20	M	0.35	26.3	21.0	17.5	15.0	13.1	11.7	10.5	8.8	7.5	6.6	5.8	5.3
	30	F	0.43	32.2	25.7	21.4	18.4	16.1	14.3	12.9	10.7	9.2	8.0	7.1	6.4
	40	F	0.50	37.1	29.7	24.8	21.2	18.6	16.5	14.9	12.4	10.6	9.3	8.3	7.4
	50	F	0.56	41.5	33.2	27.7	23.7	20.8	18.4	16.6	13.8	11.9	10.4	9.2	8.3
	60	F	0.61	45.5	36.4	30.3	26.0	22.7	20.2	18.2	15.2	13.0	11.4	10.1	9.1
	20	M	0.39	28.9	23.1	19.3	16.5	14.4	12.8	11.6	9.6	8.3	7.2	6.4	5.8
	30	F	0.48	35.4	28.3	23.6	20.2	17.7	15.7	14.1	11.8	10.1	8.8	7.9	7.1
	40	F	0.55	40.8	32.7	27.2	23.3	20.4	18.2	16.3	13.6	11.7	10.2	9.1	8.2
	50	F	0.61	45.7	36.5	30.4	26.1	22.8	20.3	18.3	15.2	13.0	11.4	10.1	9.1
	60	F	0.67	50.0	40.0	33.3	28.6	25.0	22.2	20.0	16.7	14.3	12.5	11.1	10.0
	20	M	0.42	31.5	25.2	21.0	18.0	15.8	14.0	12.6	10.5	9.0	7.9	7.0	6.3
	30	M	0.52	38.6	30.9	25.7	22.0	19.3	17.1	15.4	12.9	11.0	9.6	8.6	7.7
	40	F	0.60	44.6	35.6	29.7	25.5	22.3	19.8	17.8	14.9	12.7	11.1	9.9	8.9
	50	F	0.67	49.8	39.8	33.2	28.5	24.9	22.1	19.9	16.6	14.2	12.5	11.1	10.0
	60	F	0.73	54.6	43.6	36.4	31.2	27.3	24.2	21.8	18.2	15.6	13.6	12.1	10.9
	20	M	0.46	34.1	27.3	22.8	19.5	17.1	15.2	13.7	11.4	9.8	8.5	7.6	6.8
	30	M	0.56	41.8	33.4	27.9	23.9	20.9	18.6	16.7	13.9	11.9	10.4	9.3	8.4
	40	F	0.65	48.3	38.6	32.2	27.6	24.1	21.5	19.3	16.1	13.8	12.1	10.7	9.7
	50	F	0.73	54.0	43.2	36.0	30.8	27.0	24.0	21.6	18.0	15.4	13.5	12.0	10.8
	60	F	0.80	59.1	47.3	39.4	33.8	29.6	26.3	23.6	19.7	16.9	14.8	13.1	11.8

Table based on spraying water at 70°F. Flow rates may vary +/- 5%.



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	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	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH
	20	M	0.49	36.8	29.4	24.5	21.0	18.4	16.3	14.7	12.3	10.5	9.2	8.2	7.4
	30	M	0.61	45.0	36.0	30.0	25.7	22.5	20.0	18.0	15.0	12.9	11.3	10.0	9.0
	40	F	0.70	52.0	41.6	34.7	29.7	26.0	23.1	20.8	17.3	14.9	13.0	11.6	10.4
	50	F	0.78	58.1	46.5	38.7	33.2	29.1	25.8	23.2	19.4	16.6	14.5	12.9	11.6
	60	F	0.86	63.7	50.9	42.4	36.4	31.8	28.3	25.5	21.2	18.2	15.9	14.1	12.7
	20	M	0.53	39.4	31.5	26.3	22.5	19.7	17.5	15.8	13.1	11.3	9.8	8.8	7.9
	30	M	0.65	48.2	38.6	32.2	27.6	24.1	21.4	19.3	16.1	13.8	12.1	10.7	9.6
	40	F	0.75	55.7	44.6	37.1	31.8	27.8	24.8	22.3	18.6	15.9	13.9	12.4	11.1
	50	F	0.84	62.3	49.8	41.5	35.6	31.1	27.7	24.9	20.8	17.8	15.6	13.8	12.5
	60	F	0.92	68.2	54.6	45.5	39.0	34.1	30.3	27.3	22.7	19.5	17.1	15.2	13.6
	20	M	0.57	42.0	33.6	28.0	24.0	21.0	18.7	16.8	14.0	12.0	10.5	9.3	8.4
	30	M	0.69	51.4	41.2	34.3	29.4	25.7	22.9	20.6	17.1	14.7	12.9	11.4	10.3
	40	F	0.80	59.4	47.5	39.6	33.9	29.7	26.4	23.8	19.8	17.0	14.9	13.2	11.9
	50	F	0.89	66.4	53.1	44.3	37.9	33.2	29.5	26.6	22.1	19.0	16.6	14.8	13.3
	60	F	0.98	72.7	58.2	48.5	41.6	36.4	32.3	29.1	24.2	20.8	18.2	16.2	14.5
	20	M	0.64	47.3	37.8	31.5	27.0	23.6	21.0	18.9	15.8	13.5	11.8	10.5	9.5
	30	M	0.78	57.9	46.3	38.6	33.1	28.9	25.7	23.1	19.3	16.5	14.5	12.9	11.6
	40	F	0.90	66.8	53.5	44.6	38.2	33.4	29.7	26.7	22.3	19.1	16.7	14.9	13.4
	50	F	1.01	74.7	59.8	49.8	42.7	37.4	33.2	29.9	24.9	21.3	18.7	16.6	14.9
	60	F	1.10	81.8	65.5	54.6	46.8	40.9	36.4	32.7	27.3	23.4	20.5	18.2	16.4
	20	M	0.71	52.5	42.0	35.0	30.0	26.3	23.3	21.0	17.5	15.0	13.1	11.7	10.5
	30	M	0.87	64.3	51.4	42.9	36.7	32.2	28.6	25.7	21.4	18.4	16.1	14.3	12.9
	40	F	1.00	74.3	59.4	49.5	42.4	37.1	33.0	29.7	24.8	21.2	18.6	16.5	14.9
	50	F	1.12	83.0	66.4	55.3	47.4	41.5	36.9	33.2	27.7	23.7	20.8	18.4	16.6
	60	F	1.22	90.9	72.7	60.6	52.0	45.5	40.4	36.4	30.3	26.0	22.7	20.2	18.2
	20	M	0.85	63.0	50.4	42.0	36.0	31.5	28.0	25.2	21.0	18.0	15.8	14.0	12.6
	30	M	1.04	77.2	61.7	51.4	44.1	38.6	34.3	30.9	25.7	22.0	19.3	17.1	15.4
	40	F	1.20	89.1	71.3	59.4	50.9	44.6	39.6	35.6	29.7	25.5	22.3	19.8	17.8
	50	F	1.34	99.6	79.7	66.4	56.9	49.8	44.3	39.8	33.2	28.5	24.9	22.1	19.9
	60	F	1.47	109.1	87.3	72.7	62.4	54.6	48.5	43.6	36.4	31.2	27.3	24.2	21.8
	20	M	0.99	73.5	58.8	49.0	42.0	36.8	32.7	29.4	24.5	21.0	18.4	16.3	14.7
	30	M	1.21	90.0	72.0	60.0	51.4	45.0	40.0	36.0	30.0	25.7	22.5	20.0	18.0
	40	F	1.40	104.0	83.2	69.3	59.4	52.0	46.2	41.6	34.7	29.7	26.0	23.1	20.8
	50	F	1.57	116.2	93.0	77.5	66.4	58.1	51.7	46.5	38.7	33.2	29.1	25.8	23.2
	60	F	1.71	127.3	101.8	84.9	72.7	63.7	56.6	50.9	42.4	36.4	31.8	28.3	25.5
	20	M	1.13	84.0	67.2	56.0	48.0	42.0	37.3	33.6	28.0	24.0	21.0	18.7	16.8
	30	M	1.39	102.9	82.3	68.6	58.8	51.4	45.7	41.2	34.3	29.4	25.7	22.9	20.6
	40	M	1.60	118.8	95.0	79.2	67.9	59.4	52.8	47.5	39.6	33.9	29.7	26.4	23.8
	50	F	1.79	132.8	106.3	88.5	75.9	66.4	59.0	53.1	44.3	37.9	33.2	29.5	26.6
	60	F	1.96	145.5	116.4	97.0	83.1	72.7	64.7	58.2	48.5	41.6	36.4	32.3	29.1
	20	C	1.27	94.5	75.6	63.0	54.0	47.3	42.0	37.8	31.5	27.0	23.6	21.0	18.9
	30	M	1.56	115.7	92.6	77.2	66.1	57.9	51.4	46.3	38.6	33.1	28.9	25.7	23.1
	40	M	1.80	133.7	106.9	89.1	76.4	66.8	59.4	53.5	44.6	38.2	33.4	29.7	26.7
	50	M	2.01	149.4	119.5	99.6	85.4	74.7	66.4	59.8	49.8	42.7	37.4	33.2	29.9
	60	F	2.20	163.7	130.9	109.1	93.5	81.8	72.7	65.5	54.6	46.8	40.9	36.4	32.7
	20	VC	1.41	105.0	84.0	70.0	60.0	52.5	46.7	42.0	35.0	30.0	26.3	23.3	21.0
	30	C	1.73	128.6	102.9	85.7	73.5	64.3	57.2	51.4	42.9	36.7	32.2	28.6	25.7
	40	M	2.00	148.5	118.8	99.0	84.9	74.3	66.0	59.4	49.5	42.4	37.1	33.0	29.7
	50	M	2.24	166.0	132.8	110.7	94.9	83.0	73.8	66.4	55.3	47.4	41.5	36.9	33.2
	60	M	2.45	181.9	145.5	121.2	103.9	90.9	80.8	72.7	60.6	52.0	45.5	40.4	36.4
	20	VC	1.77	131.3	105.0	87.5	75.0	65.6	58.3	52.5	43.8	37.5	32.8	29.2	26.3
	30	C	2.17	160.8	128.6	107.2	91.9	80.4	71.4	64.3	53.6	45.9	40.2	35.7	32.2
	40	C	2.50	185.6	148.5	123.8	106.1	92.8	82.5	74.3	61.9	53.0	46.4	41.3	37.1
	50	M	2.80	207.5	166.0	138.4	118.6	103.8	92.2	83.0	69.2	59.3	51.9	46.1	41.5
	60	M	3.06	227.3	181.9	151.6	129.9	113.7	101.0	90.9	75.8	65.0	56.8	50.5	45.5
	20	XC	2.12	157.5	126.0	105.0	90.0	78.8	70.0	63.0	52.5	45.0	39.4	35.0	31.5
	30	VC	2.60	192.9	154.3	128.6	110.2	96.5	85.7	77.2	64.3	55.1	48.2	42.9	38.6
	40	VC	3.00	222.8	178.2	148.5	127.3	111.4	99.0	89.1	74.3	63.6	55.7	49.5	44.6
	50	C	3.35	249.0	199.2	166.0	142.3	124.5	110.7	99.6	83.0	71.2	62.3	55.3	49.8
	60	C	3.67	272.8	218.2	181.9	155.9	136.4	121.2	109.1	90.9	77.9	68.2	60.6	54.6

Table based on spraying water at 70°F. Flow rates may vary +/- 5%.