

# Broadcast and Turf Applications Chart - 20" Tip Spacing

Spray Tips		Droplet Size @ 40 PSI	Pressure (PSI)	Flow Rate (GPM)	Gallons per Acre 20 Inch Tip Spacing											GAL/1000 Ft <sup>2</sup> 20 Inch Tip Spacing			
PSI	Spray Tip and Strainer				MPH											MPH			
					4	5	6	7	8	10	12	14	16	18	20	2	3	4	5
30-100	AVI - 11001	VC	15	0.06	4.5	3.6	3.0	2.5	2.2	1.8	1.5	1.3	1.1	1.0	0.9	0.20	0.14	0.10	0.08
20-60	ADI-11001	M	20	0.07	5.2	4.2	3.5	3.0	2.6	2.1	1.7	1.5	1.3	1.2	1.0	0.24	0.16	0.12	0.10
30-60	30-01F80	F	30	0.09	6.7	5.3	4.5	3.8	3.3	2.7	2.2	1.9	1.7	1.5	1.3	0.31	0.20	0.15	0.12
30-60	30-01F110	F	40	0.10	7.4	5.9	5.0	4.2	3.7	3.0	2.5	2.1	1.9	1.7	1.5	0.34	0.23	0.17	0.14
15-70	TR80-01	VF	50	0.11	8.2	6.5	5.4	4.7	4.1	3.3	2.7	2.3	2.0	1.8	1.6	0.38	0.25	0.19	0.15
15-70	TR110-01	VF	60	0.12	8.9	7.1	5.9	5.1	4.5	3.6	3.0	2.5	2.2	2.0	1.8	0.41	0.27	0.20	0.16
15-115	GRD120-01 (100 M Strainer)		70	0.13	9.7	7.7	6.4	5.5	4.8	3.9	3.2	2.8	2.4	2.1	1.9	0.44	0.30	0.22	0.18
			80	0.14	10.4	8.3	6.9	5.9	5.2	4.2	3.5	3.0	2.6	2.3	2.1	0.48	0.32	0.24	0.19
			90	0.15	11.1	8.9	7.4	6.4	5.6	4.5	3.7	3.2	2.8	2.5	2.2	0.51	0.34	0.26	0.20
			100	0.16	11.9	9.5	7.9	6.8	5.9	4.8	4.0	3.4	3.0	2.6	2.4	0.55	0.36	0.27	0.22
			115	0.17	12.6	10.1	8.4	7.2	6.3	5.0	4.2	3.6	3.2	2.8	2.5	0.58	0.39	0.29	0.23
30-100	AVI-110015	VC	15	0.09	6.7	5.3	4.5	3.8	3.3	2.7	2.2	1.9	1.7	1.5	1.3	0.31	0.20	0.15	0.12
15-115	ULD120-015	C	20	0.11	8.2	6.5	5.4	4.7	4.1	3.3	2.7	2.3	2.0	1.8	1.6	0.38	0.25	0.19	0.15
15-70	LD015F80	M	30	0.13	9.7	7.7	6.4	5.5	4.8	3.9	3.2	2.8	2.4	2.1	1.9	0.44	0.30	0.22	0.18
15-70	LD015F110	M	40	0.15	11.1	8.9	7.4	6.4	5.6	4.5	3.7	3.2	2.8	2.5	2.2	0.51	0.34	0.26	0.20
30-60	ADI-110015	M	50	0.17	12.6	10.1	8.4	7.2	6.3	5.0	4.2	3.6	3.2	2.8	2.5	0.58	0.39	0.29	0.23
15-70	TR80-015	F	60	0.18	13.4	10.7	8.9	7.6	6.7	5.3	4.5	3.8	3.3	3.0	2.7	0.61	0.41	0.31	0.25
15-70	TR110-015	F	70	0.20	14.9	11.9	9.9	8.5	7.4	5.9	5.0	4.2	3.7	3.3	3.0	0.68	0.45	0.34	0.27
15-70	VP80-015	F	80	0.21	15.6	12.5	10.4	8.9	7.8	6.2	5.2	4.5	3.9	3.5	3.1	0.72	0.48	0.36	0.29
15-70	VP110-015	F	90	0.23	17.1	13.7	11.4	9.8	8.5	6.8	5.7	4.9	4.3	3.8	3.4	0.78	0.52	0.39	0.31
20-60	AXI-80015	F	100	0.24	17.8	14.3	11.9	10.2	8.9	7.1	5.9	5.1	4.5	4.0	3.6	0.82	0.55	0.41	0.33
20-60	AXI-110015	F	115	0.25	18.6	14.9	12.4	10.6	9.3	7.4	6.2	5.3	4.6	4.1	3.7	0.85	0.57	0.43	0.34
30-60	30-015F80	F																	
30-60	30-015F110	F																	
15-115	GRD120-025 (100 M Strainer)																		
30-100	AVI-11002	VC	15	0.12	8.9	7.1	5.9	5.1	4.5	3.6	3.0	2.5	2.2	2.0	1.8	0.41	0.27	0.20	0.16
15-115	ULD120-02	C	20	0.14	10.4	8.3	6.9	5.9	5.2	4.2	3.5	3.0	2.6	2.3	2.1	0.48	0.32	0.24	0.19
15-70	LD02F80	M	30	0.17	12.6	10.1	8.4	7.2	6.3	5.0	4.2	3.6	3.2	2.8	2.5	0.58	0.39	0.29	0.23
15-70	LD02F110	M	40	0.20	14.9	11.9	9.9	8.5	7.4	5.9	5.0	4.2	3.7	3.3	3.0	0.68	0.45	0.34	0.27
30-60	ADI-11002	M	50	0.22	16.3	13.1	10.9	9.3	8.2	6.5	5.4	4.7	4.1	3.6	3.3	0.75	0.50	0.38	0.30
30-60	30-02F80	M	60	0.24	17.8	14.3	11.9	10.2	8.9	7.1	5.9	5.1	4.5	4.0	3.6	0.82	0.55	0.41	0.33
30-60	30-02F110	F	70	0.26	19.3	15.4	12.9	11.0	9.7	7.7	6.4	5.5	4.8	4.3	3.9	0.89	0.59	0.44	0.35
15-70	TR80-02	F	80	0.28	21	16.6	13.9	11.9	10.4	8.3	6.9	5.9	5.2	4.6	4.2	0.95	0.64	0.48	0.38
15-70	TR110-02	F	90	0.30	22	17.8	14.9	12.7	11.1	8.9	7.4	6.4	5.6	5.0	4.5	1.0	0.68	0.51	0.41
15-70	VP80-02	F	100	0.32	24	19.0	15.8	13.6	11.9	9.5	7.9	6.8	5.9	5.3	4.8	1.1	0.73	0.55	0.44
15-70	VP110-02	F	115	0.34	25	20	16.8	14.4	12.6	10.1	8.4	7.2	6.3	5.6	5.0	1.2	0.77	0.58	0.46
15-115	GRD120-02 (100 M Strainer)																		
30-100	AVI-110025	VC	15	0.15	11.1	8.9	7.4	6.4	5.6	4.5	3.7	3.2	2.8	2.5	2.2	0.51	0.34	0.26	0.20
15-115	ULD120-025	C	20	0.18	13.4	10.7	8.9	7.6	6.7	5.3	4.5	3.8	3.3	3.0	2.7	0.61	0.41	0.31	0.25
15-70	LD025F110	M	30	0.22	16.3	13.1	10.9	9.3	8.2	6.5	5.4	4.7	4.1	3.6	3.3	0.75	0.50	0.38	0.30
15-70	VP-110-025	F	40	0.25	18.6	14.9	12.4	10.6	9.3	7.4	6.2	5.3	4.6	4.1	3.7	0.85	0.57	0.43	0.34
15-115	GRD120-25 (100 M Strainer)		50	0.28	21	16.6	13.9	11.9	10.4	8.3	6.9	5.9	5.2	4.6	4.2	0.95	0.64	0.48	0.38
			60	0.31	23	18.4	15.3	13.2	11.5	9.2	7.7	6.6	5.8	5.1	4.6	1.1	0.70	0.53	0.42
			70	0.33	25	19.6	16.3	14.0	12.3	9.8	8.2	7.0	6.1	5.4	4.9	1.1	0.75	0.56	0.45
			80	0.35	26	21	17.3	14.9	13.0	10.4	8.7	7.4	6.5	5.8	5.2	1.2	0.80	0.60	0.48
			90	0.38	28	23	18.8	16.1	14.1	11.3	9.4	8.1	7.1	6.3	5.6	1.3	0.86	0.65	0.52
			100	0.40	30	24	19.8	17.0	14.9	11.9	9.9	8.5	7.4	6.6	5.9	1.4	0.91	0.68	0.55
			115	0.42	31	25	21	17.8	15.6	12.5	10.4	8.9	7.8	6.9	6.2	1.4	0.95	0.72	0.57

Droplet size refers to ASAE S-572 @ 40 PSI

- Broadcast spray tips are classified as GPM @ 40 PSI

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Spray Tips		Droplet Size @ 40 PSI	Pressure (PSI)	Flow Rate (GPM)	Gallons per Acre 20 Inch Tip Spacing										GAL/1000 Ft <sup>2</sup> 20 Inch Tip Spacing				
PSI Range	Spray Tip and Strainer				MPH										MPH				
					4	5	6	7	8	10	12	14	16	18	20	2	3	4	5
30-100	AVI-11003	XC	15	0.18	13.4	10.7	8.9	7.6	6.7	5.3	4.5	3.8	3.3	3.0	2.7	0.61	0.41	0.31	0.25
15-115	ULD120-03	C	20	0.21	15.6	12.5	10.4	8.9	7.8	6.2	5.2	4.5	3.9	3.5	3.1	0.72	0.48	0.36	0.29
15-70	LD03F80	C	30	0.26	19.3	15.4	12.9	11.0	9.7	7.7	6.4	5.5	4.8	4.3	3.9	0.89	0.59	0.44	0.35
20-60	AXI-11003	M	40	0.30	22	17.8	14.9	12.7	11.1	8.9	7.4	6.4	5.6	5.0	4.5	1.0	0.68	0.51	0.41
15-70	LD03F110	M	50	0.34	25	20	16.8	14.4	12.6	10.1	8.4	7.2	6.3	5.6	5.0	1.2	0.77	0.58	0.46
30-60	ADI-11003	M	60	0.37	27	22	18.3	15.7	13.7	11.0	9.2	7.8	6.9	6.1	5.5	1.3	0.84	0.63	0.50
30-60	30-03F80	M	70	0.40	30	24	19.8	17.0	14.9	11.9	9.9	8.5	7.4	6.6	5.9	1.4	0.91	0.68	0.55
15-70	TR80-03	F	80	0.42	31	25	21	17.8	15.6	12.5	10.4	8.9	7.8	6.9	6.2	1.4	0.95	0.72	0.57
15-70	TR110-03	F	90	0.45	33	27	22	19.1	16.7	13.4	11.1	9.5	8.4	7.4	6.7	1.5	1.0	0.77	0.61
15-70	VP80-03	F	100	0.47	35	28	23	19.9	17.4	14.0	11.6	10.0	8.7	7.8	7.0	1.6	1.1	0.80	0.64
15-70	VP110-03	F	115	0.51	38	30	25	22	18.9	15.1	12.6	10.8	9.5	8.4	7.6	1.7	1.2	0.87	0.70
15-115	GRD120-03 (100 M Strainer)																		
30-100	AVI-11004	XC	15	0.24	17.8	14.3	11.9	10.2	8.9	7.1	5.9	5.1	4.5	4.0	3.6	0.82	0.55	0.41	0.33
15-115	ULD120-04	C	20	0.28	21	16.6	13.9	11.9	10.4	8.3	6.9	5.9	5.2	4.6	4.2	0.95	0.64	0.48	0.38
15-70	LD004F80	C	30	0.35	26	21	17.3	14.9	13.0	10.4	8.7	7.4	6.5	5.8	5.2	1.2	0.80	0.60	0.48
30-60	ADI-11004	C	40	0.40	30	24	19.8	17.0	14.9	11.9	9.9	8.5	7.4	6.6	5.9	1.4	0.91	0.68	0.55
15-70	TR80-04	M	50	0.45	33	27	22	19.1	16.7	13.4	11.1	9.5	8.4	7.4	6.7	1.5	1.0	0.77	0.61
15-70	VP80-04	M	60	0.49	36	29	24	21	18.2	14.6	12.1	10.4	9.1	8.1	7.3	1.7	1.1	0.84	0.67
15-70	VP110-04	M	70	0.53	39	31	26	22	19.7	15.7	13.1	11.2	9.8	8.7	7.9	1.8	1.2	0.90	0.72
20-60	AXI-8004	M	80	0.57	42	34	28	24	21	16.9	14.1	12.1	10.6	9.4	8.5	1.9	1.3	0.97	0.78
20-60	AXI-11004	M	90	0.60	45	36	30	25	22	17.8	14.9	12.7	11.1	9.9	8.9	2.0	1.4	1.0	0.82
15-70	LD04F110	M	100	0.63	47	37	31	27	23	18.7	15.6	13.4	11.7	10.4	9.4	2.1	1.4	1.1	0.86
30-60	30-04F80	M	115	0.68	50	40	34	29	25	20	16.8	14.4	12.6	11.2	10.1	2.3	1.5	1.2	0.93
30-60	30-04F110	M																	
15-70	TR110-04	F																	
15-115	GRD120-04 (50 M Strainer)																		
30-100	AVI-11005	XC	15	0.31	23	18.4	15.3	13.2	11.5	9.2	7.7	6.6	5.8	5.1	4.6	1.1	0.70	0.53	0.42
15-70	LD05F80	VC	20	0.35	26	21	17.3	14.9	13.0	10.4	8.7	7.4	6.5	5.8	5.2	1.2	0.80	0.60	0.48
15-70	LD05F110	C	30	0.43	32	26	21	18.2	16.0	12.8	10.6	9.1	8.0	7.1	6.4	1.5	0.98	0.73	0.59
15-115	ULD120-05	C	40	0.50	37	30	25	21	18.6	14.9	12.4	10.6	9.3	8.3	7.4	1.7	1.1	0.85	0.68
15-70	TR80-05	M	50	0.56	42	33	28	24	21	16.6	13.9	11.9	10.4	9.2	8.3	1.9	1.3	0.95	0.76
15-70	VP80-05	M	60	0.61	45	36	30	26	23	18.1	15.1	12.9	11.3	10.1	9.1	2.1	1.4	1.0	0.83
15-70	VP110-05	M	70	0.66	49	39	33	28	25	19.6	16.3	14.0	12.3	10.9	9.8	2.3	1.5	1.1	0.90
20-60	AXI-8005	M	80	0.71	53	42	35	30	26	21	17.6	15.1	13.2	11.7	10.5	2.4	1.6	1.2	0.97
20-60	AXI-11005	M	90	0.75	56	45	37	32	28	22	18.6	15.9	13.9	12.4	11.1	2.6	1.7	1.3	1.0
30-60	30-05F80	M	100	0.79	59	47	39	34	29	23	19.6	16.8	14.7	13.0	11.7	2.7	1.8	1.3	1.1
30-60	30-05F110	M	115	0.85	63	50	42	36	32	25	21	18.0	15.8	14.0	12.6	2.9	1.9	1.4	1.2
15-70	TR110-05	M																	
15-115	GRD120-05 (50 M Strainer)																		
30-100	AVI-11006	XC	15	0.37	27	22	18.3	15.7	13.7	11.0	9.2	7.8	6.9	6.1	5.5	1.3	0.84	0.63	0.50
15-115	ULD120-06	VC	20	0.42	31	25	21	17.8	15.6	12.5	10.4	8.9	7.8	6.9	6.2	1.4	0.95	0.72	0.57
15-70	VP80-06	C	30	0.52	39	31	26	22	19.3	15.4	12.9	11.0	9.7	8.6	7.7	1.8	1.2	0.89	0.71
15-70	LD06F80	C	40	0.60	45	36	30	25	22	17.8	14.9	12.7	11.1	9.9	8.9	2.0	1.4	1.0	0.82
15-70	LD06F110	C	50	0.67	50	40	33	28	25	19.9	16.6	14.2	12.4	11.1	9.9	2.3	1.5	1.1	0.91
30-60	30-06F80	C	60	0.73	54	43	36	31	27	22	18.1	15.5	13.6	12.0	10.8	2.5	1.7	1.2	1.0
15-70	TR80-06	M	70	0.79	59	47	39	34	29	23	19.6	16.8	14.7	13.0	11.7	2.7	1.8	1.3	1.1
15-70	TR110-06	M	80	0.85	63	50	42	36	32	25	21	18.0	15.8	14.0	12.6	2.9	1.9	1.4	1.2
15-70	VP110-06	M	90	0.90	67	53	45	38	33	27	22	19.1	16.7	14.9	13.4	3.1	2.0	1.5	1.2
30-60	30-06F110	M	100	0.95	71	56	47	40	35	28	24	20	17.6	15.7	14.1	3.2	2.2	1.6	1.3
15-115	GRD120-06 (50 M Strainer)		115	1.02	76	61	50	43	38	30	25	22	18.9	16.8	15.1	3.5	2.3	1.7	1.4

# Broadcast and Turf Applications Chart - 20" Tip Spacing

Spray Tips		Droplet Size @ 40 PSI	Pressure (PSI)	Flow Rate (GPM)	Gallons per Acre 20 Inch Tip Spacing										GAL/1000 Ft <sup>2</sup> 20 Inch Tip Spacing					
PSI Range	Spray Tip and Strainer				MPH										MPH					
					4	5	6	7	8	10	12	14	16	18	20	2	3	4	5	
30-100	AVI-11008	XC	15	0.49	36	29	24	21	18.2	14.6	12.1	10.4	9.1	8.1	7.3	1.7	1.1	0.84	0.67	
15-115	ULD120-08	VC	20	0.57	42	34	28	24	21	16.9	14.1	12.1	10.6	9.4	8.5	1.9	1.3	0.97	0.78	
15-70	LD08F80	VC	30	0.69	51	41	34	29	26	20	17.1	14.6	12.8	11.4	10.2	2.4	1.6	1.2	0.94	
15-70	TR80-08	C	40	0.80	59	48	40	34	30	24	19.8	17.0	14.9	13.2	11.9	2.7	1.8	1.4	1.1	
15-70	VP80-08	C																		
15-70	VP110-08	C	50	0.89	66	53	44	38	33	26	22	18.9	16.5	14.7	13.2	3.0	2.0	1.5	1.2	
15-70	LD08F110	C	60	0.98	73	58	49	42	36	29	24	21	18.2	16.2	14.6	3.3	2.2	1.7	1.3	
30-60	30-08F80	C	70	1.06	79	63	52	45	39	31	26	22	19.7	17.5	15.7	3.6	2.4	1.8	1.4	
30-60	30-08F110	C	80	1.13	84	67	56	48	42	34	28	24	21	18.6	16.8	3.9	2.6	1.9	1.5	
15-70	TR110-08	M	90	1.20	89	71	59	51	45	36	30	25	22	19.8	17.8	4.1	2.7	2.0	1.6	
20-80	HF140-08		100	1.26	94	75	62	53	47	37	31	27	23	21	18.7	4.3	2.9	2.1	1.7	
15-115	GRD120-08 (50 M Strainer)			115	1.36	101	81	67	58	50	40	34	29	25	22	20	4.6	3.1	2.3	1.9
30-100	AVI-11010		XC	15	0.61	45	36	30	26	23	18.1	15.1	12.9	11.3	10.1	9.1	2.1	1.4	1.0	0.83
15-70	TR80-10	C	20	0.71	53	42	35	30	26	21	17.6	15.1	13.2	11.7	10.5	2.4	1.6	1.2	0.97	
30-60	30-10F80	C	30	0.87	65	52	43	37	32	26	22	18.5	16.1	14.4	12.9	3.0	2.0	1.5	1.2	
30-60	30-10F110	C	40	1.00	74	59	50	42	37	30	25	21	18.6	16.5	14.9	3.4	2.3	1.7	1.4	
15-70	TR110-10	M																		
15-70	VP110-10	M	50	1.12	83	67	55	48	42	33	28	24	21	18.5	16.6	3.8	2.5	1.9	1.5	
20-80	HF140-10 (50 M Strainer)		60	1.22	91	72	60	52	45	36	30	26	23	20	18.1	4.2	2.8	2.1	1.7	
			70	1.32	98	78	65	56	49	39	33	28	25	22	19.6	4.5	3.0	2.3	1.8	
			80	1.41	105	84	70	60	52	42	35	30	26	23	21	4.8	3.2	2.4	1.9	
30-60	30-15F80	VC	15	0.92	68	55	46	39	34	27	23	19.5	17.1	15.2	13.7	3.1	2.1	1.6	1.3	
15-70	TR80-15	C	20	1.06	79	63	52	45	39	31	26	22	19.7	17.5	15.7	3.6	2.4	1.8	1.4	
15-70	TR110-15	C	30	1.30	97	77	64	55	48	39	32	28	24	21	19.3	4.4	3.0	2.2	1.8	
15-70	VP110-15	C	40	1.50	111	89	74	64	56	45	37	32	28	25	22	5.1	3.4	2.6	2.0	
30-60	30-15F110	C																		
20-80	HF140-10 (50 M Strainer)		50	1.68	125	100	83	71	62	50	42	36	31	28	25	5.7	3.8	2.9	2.3	
			60	1.84	137	109	91	78	68	55	46	39	34	30	27	6.3	4.2	3.1	2.5	
			70	1.98	147	118	98	84	74	59	49	42	37	33	29	6.8	4.5	3.4	2.7	
			80	2.12	157	126	105	90	79	63	52	45	39	35	31	7.2	4.8	3.6	2.9	
30-60	30-20F80	C	30	1.73	129	103	86	73	64	51	43	37	32	29	26	5.9	3.9	2.9	2.4	
30-60	30-20F110 (50 M Strainer)	C	40	2.00	149	119	99	85	74	59	50	42	37	33	30	6.8	4.5	3.4	2.7	
			50	2.24	166	133	111	95	83	67	55	48	42	37	33	7.6	5.1	3.8	3.1	
			60	2.45	182	146	121	104	91	73	61	52	46	40	36	8.3	5.6	4.2	3.3	