

COLORED DISC ORIFICE CHART FOR 12" ROWS

Application Rate (gal/ac) for Colored Disc Orifices

12 INCH SPACING

Electric Pump Pressure Recommendations (with 5 lb check valves):

- Minimum: 10 PSI
- Maximum: 30 PSI

Chart is for 10-34-0 Fertilizer (11.7 lb/gal material) @ 55-65°F

- Cleanliness, viscosity, and temperature affect the flow rate
- Heavier fertilizers will have 5-15% less flow than chart indicates for a certain pressure.
- Cold fertilizers will cause system pressure to increase at a given application rate.
- The electric pump systems will have reduced flow and increased electrical current draw due to cold fertilizer increasing operating pressure. Use the largest orifice possible for cold weather operation.
- Water or 8.34 lb/gal material—multiply by the factor of 1.188
- 555 Fertilizer or 11.2 lb/gal—multiply by the factor of 1.024
- 28-0-0 Fertilizer or 10.65 lb/gal—multiply by the factor of 1.051

Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Pink	5	2.50	2.25	2.04	1.87	1.73	1.61
	10	3.53	3.18	2.88	2.64	2.54	2.27
	15	4.36	3.92	3.57	3.28	3.01	2.80
	20	5.01	4.51	4.11	3.75	3.47	3.22
	25	5.57	5.01	4.57	4.17	3.85	3.58
	30	6.12	5.51	5.02	5.10	4.24	3.93
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Gray	5	3.74	3.37	3.07	2.80	2.59	2.41
	10	5.27	4.77	4.33	3.96	3.67	3.41
	15	6.40	5.76	5.24	4.81	4.43	4.11
	20	7.99	7.18	6.52	5.99	5.52	5.13
	25	8.37	7.52	6.83	6.27	5.78	5.37
	30	9.11	8.19	7.41	6.83	6.30	5.85
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Black	5	5.12	4.60	4.19	4.03	3.54	3.28
	10	7.24	6.51	5.92	5.71	5.01	4.65
	15	8.91	8.01	7.28	7.02	6.16	5.72
	20	10.31	9.27	8.42	7.73	7.13	6.62
	25	11.52	10.35	9.41	8.63	7.96	7.39
	30	12.54	11.27	10.24	9.40	8.67	8.05
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Brown	5	6.89	6.20	5.64	5.17	4.77	4.43
	10	9.74	8.77	7.97	7.31	6.74	6.26
	15	11.88	10.69	9.72	8.91	8.22	7.63
	20	13.74	12.36	11.23	10.31	9.50	8.83
	25	15.42	13.87	12.60	11.57	10.67	9.90
	30	16.80	15.12	13.73	12.61	11.63	10.80
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Orange	5	8.73	7.86	7.14	6.54	6.04	5.61
	10	12.34	11.11	10.10	9.25	8.54	7.93
	15	15.03	13.53	12.30	11.28	10.48	9.66
	20	17.45	15.71	14.27	13.09	12.08	11.22
	25	19.49	17.55	15.94	14.62	13.50	12.53
	30	21.34	19.21	17.45	16.01	14.77	13.72
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Red	5	15.87	14.28	12.99	11.91	10.98	10.20
	10	22.45	20.20	18.38	16.84	15.583	14.42
	15	27.47	24.72	22.47	20.60	19.01	17.65
	20	31.73	28.56	25397	23.80	21.96	20.39
	25	35.44	31.90	29.01	26.58	24.53	22.78
	30	38.87	34.99	31.81	29.87	26.91	24.98
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
C. Blue	5	25.72	23.14	21.05	19.29	17.99	16.52
	10	36.37	32.73	29.79	27.28	25.17	23.37
	15	44.54	40.09	36.44	33.41	30.83	28.62
	20	51.40	46.27	42.07	38.55	35.58	33.04
	25	57.41	51.68	46.99	43.06	39.74	36.90
	30	63.02	56.73	51.58	47.26	43.63	40.51
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Yellow	5	37.53	33.79	30.71	28.15	25.98	24.13
	10	53.08	47.78	43.43	39.80	36.74	34.11
	15	65.00	58.52	53.19	48.75	45.00	41.78
	20	75.07	67.56	61.43	56.30	51.95	48.24
	25	84.00	75.60	68.74	63.00	58.14	53.98
	30	91.96	82.76	75.25	68.97	63.64	59.09
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Em. Green	5	50.26	45.23	41.13	37.69	34.78	32.29
	10	71.09	63.97	58.15	53.32	49.19	45.67
	15	87.06	78.36	71.23	65.29	60.26	55.95
	20	100.53	90.48	82.24	75.40	69.58	64.60
	25	112.69	101.43	92.19	84.52	78.00	72.42
	30	122.85	110.57	100.30	92.14	85.03	78.95
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
White	5	63.12	56.80	51.64	47.34	43.68	40.56
	10	89.27	80.34	73.04	66.95	61.78	57.36
	15	109.23	98.39	89.46	82.00	75.66	70.25
	20	126.24	113.62	103.30	94.68	87.37	81.12
	25	141.14	127.03	115.49	105.85	97.69	90.70
	30	154.14	138.73	126.13	115.60	106.68	99.05
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Lm. Green	5	101.62	91.45	83.14	76.22	70.32	65.30
	10	143.72	129.35	117.59	107.79	99.47	92.35
	15	176.02	158.41	144.03	132.02	121.81	113.10
	20	203.25	182.93	166.31	152.43	140.67	130.60
	25	227.24	204.52	185.94	170.42	157.28	146.03
	30	248.17	223.36	203.07	186.12	171.75	159.47

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