

COLORED DISC ORIFICE CHART FOR 15" ROWS

Application Rate (gal/ac) for Colored Disc Orifices

15 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	2.01	1.80	1.64	1.50	1.38	1.29
	10	2.83	2.55	2.31	2.12	1.96	1.82
	15	3.50	3.15	2.87	2.63	2.43	2.25
	20	4.02	3.62	3.29	3.01	2.79	2.58
	25	4.47	4.02	3.66	3.34	3.09	2.87
	30	4.91	4.42	4.02	3.68	3.40	3.16
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Gray	5	3.00	2.71	2.46	2.24	2.08	1.93
	10	4.24	3.82	3.47	3.18	2.94	2.73
	15	5.13	4.62	4.21	3.86	3.55	3.30
	20	6.41	5.76	5.23	4.81	4.43	4.11
	25	6.71	6.03	5.48	5.04	4.64	4.31
	30	7.31	6.57	5.96	5.48	5.05	4.69
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Black	5	4.11	3.69	3.36	3.08	2.84	2.63
	10	5.81	5.22	4.75	4.35	4.01	3.73
	15	7.15	6.43	5.84	5.36	4.94	4.59
	20	8.29	7.43	6.76	6.20	5.71	5.31
	25	9.24	8.30	7.55	6.93	6.38	5.93
	30	10.06	9.03	8.22	7.34	6.94	6.45
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Brown	5	5.53	4.97	4.52	4.15	3.82	3.55
	10	7.82	7.04	6.40	5.87	5.41	5.03
	15	9.53	8.57	7.79	7.15	6.59	6.12
	20	11.02	9.92	9.01	8.27	7.63	7.08
	25	12.36	11.13	10.11	9.28	8.56	7.95
	30	13.48	12.13	11.02	10.11	9.33	8.66
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Orange	5	7.00	6.31	5.73	5.25	4.85	4.51
	10	9.90	8.91	8.10	7.42	6.85	6.36
	15	12.06	10.85	9.87	9.05	8.34	7.75
	20	14.00	12.60	11.45	10.50	9.69	9.00
	25	15.64	14.07	12.79	11.73	10.82	10.05
	30	17.12	15.41	14.00	12.84	11.85	11.00
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Red	5	12.74	11.46	10.42	9.55	8.81	8.18
	10	18.01	16.21	14.74	13.51	12.47	11.57
	15	22.04	19.83	18.03	16.53	15.25	14.16
	20	25.46	22.91	20.83	19.10	17.62	16.36
	25	28.44	25.59	23.27	21.33	19.68	18.27
	30	31.19	28.06	25.52	23.40	21.58	20.03
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
C. Blue	5	20.63	18.57	16.89	15.48	14.28	13.26
	10	29.18	26.26	23.88	21.88	20.19	18.75
	15	35.74	32.16	29.24	26.80	24.73	22.96
	20	41.24	37.12	33.75	30.93	28.55	26.50
	25	46.07	41.46	37.70	29.94	31.88	29.60
	30	50.56	45.51	41.38	37.92	35.00	32.49
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Yellow	5	30.11	27.11	24.63	22.58	20.85	19.36
	10	42.58	38.33	34.84	31.93	29.48	27.37
	15	52.13	46.95	42.67	39.11	36.10	33.52
	20	60.22	54.20	49.28	45.17	41.68	38.70
	25	67.39	60.65	55.14	50.55	46.64	43.30
	30	73.77	66.40	60.37	55.33	51.06	47.41
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Em. Green	5	40.33	36.29	32.99	30.24	27.91	25.91
	10	57.03	51.32	46.65	42.77	39.47	36.64
	15	69.85	62.86	57.14	52.38	48.34	44.88
	20	80.65	72.59	65.98	60.49	55.82	51.83
	25	90.41	81.37	73.96	67.81	62.57	58.10
	30	98.55	88.70	80.63	73.92	68.21	63.33
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
White	5	50.64	45.57	41.43	37.98	35.04	32.54
	10	71.62	64.45	58.60	53.72	49.56	46.02
	15	87.71	78.73	71.77	65.78	60.54	56.21
	20	101.28	91.15	82.87	75.96	70.09	65.08
	25	113.23	101.91	92.65	84.92	78.37	72.76
	30	123.66	111.29	101.18	92.75	85.58	79.46
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Lm. Green	5	81.53	73.37	66.70	61.15	56.41	52.39
	10	115.31	103.76	94.35	86.49	79.99	74.09
	15	141.21	126.76	115.55	105.91	97.47	90.50
	20	163.06	146.75	133.42	122.30	112.84	104.78
	25	182.30	164.08	149.17	136.72	126.18	117.14
	30	199.09	179.18	162.90	145.33	137.78	127.93

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