

COLORED DISC ORIFICE CHART FOR 36" ROWS

Application Rate (gal/ac) for Colored Disc Orifices

36 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	0.83	0.75	0.68	0.62		
	10	1.17	1.06	0.96	0.88	0.81	0.75
	15	1.45	1.31	1.19	1.09	1.01	0.93
	20	1.67	1.50	1.37	1.25	1.16	1.07
	25	1.86	1.67	1.52	1.39	1.29	1.19
	30	2.04	1.83	1.67	1.53	1.41	1.31
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Gray	5	1.24	1.12	1.02	0.93		
	10	1.76	1.59	1.44	1.32	1.22	1.13
	15	2.13	1.92	1.75	1.60	1.48	1.37
	20	2.66	2.39	2.17	1.99	1.85	1.72
	25	2.79	2.50	2.27	2.08	1.93	1.79
	30	3.03	2.72	2.47	2.27	2.10	1.95
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Black	5	1.70	1.53	1.39	1.28		
	10	2.41	2.17	1.97	1.81	1.68	1.55
	15	2.97	2.67	2.42	2.22	2.06	1.92
	20	3.43	3.08	2.80	2.57	2.38	2.21
	25	3.83	3.44	3.13	2.87	2.66	2.47
	30	4.17	3.75	3.40	3.13	2.90	2.69
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Brown	5	2.29	2.06	1.88	1.72		
	10	3.24	2.92	2.65	2.43	2.25	2.09
	15	3.95	3.56	3.23	2.97	2.75	2.55
	20	4.57	4.11	3.74	3.43	3.18	2.95
	25	5.13	4.61	4.20	3.85	3.57	3.31
	30	5.59	5.03	4.57	4.19	3.89	3.61
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Orange	5	2.91	2.62	2.38	2.18		
	10	4.11	3.70	3.36	3.08	2.86	2.65
	15	5.00	4.50	4.10	3.75	3.48	3.23
	20	5.81	5.23	4.75	4.36	4.04	3.75
	25	6.49	5.84	5.31	4.87	4.51	4.19
	30	7.11	6.40	5.81	5.33	4.94	4.59
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Red	5	5.28	4.75	4.32	3.96		
	10	7.47	6.73	6.12	5.61	5.20	4.83
	15	9.14	8.23	7.48	6.86	6.36	5.91
	20	10.56	9.51	8.64	7.92	7.35	6.83
	25	11.80	10.62	9.65	8.85	8.21	7.63
	30	12.94	11.65	10.58	9.70	9.01	8.36
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
C. Blue	5	8.56	7.70	7.01	6.42		
	10	12.11	10.90	9.91	9.08	8.43	7.83
	15	14.83	13.34	12.13	11.12	10.32	9.58
	20	17.08	15.40	14.00	12.83	11.91	11.06
	25	19.08	17.20	15.64	14.33	13.31	12.36
	30	20.94	18.88	17.16	15.73	14.60	13.56
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Yellow	5	12.49	11.25	10.22	9.37		
	10	17.67	15.90	14.46	13.25	12.30	11.42
	15	21.64	19.48	17.70	16.23	15.05	13.98
	20	24.99	22.49	20.45	18.74	17.38	16.14
	25	27.96	25.17	22.88	20.97	19.44	18.05
	30	30.61	27.55	25.05	22.96	21.29	19.77
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Em. Green	5	16.73	15.06	13.69	12.55		
	10	23.66	21.29	19.36	17.75	16.69	15.50
	15	28.98	26.08	23.71	21.73	20.17	18.73
	20	33.46	30.12	27.37	25.10	23.23	21.57
	25	37.51	33.76	30.68	28.14	26.03	24.17
	30	40.89	36.81	33.45	30.67	28.39	26.36
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
White	5	21.01	18.91	17.19	15.76		
	10	29.71	26.74	24.31	22.29	20.69	19.21
	15	36.39	32.75	29.78	27.29	25.17	23.37
	20	42.02	37.82	34.38	31.52	29.25	27.16
	25	49.98	42.28	38.44	35.24	32.70	30.36
	30	51.31	46.18	41.98	38.49	35.71	33.16
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Lm. Green	5						
	10	48.16	43.34	46.50	36.12	33.34	30.96
	15	58.72	52.85	48.05	44.04	40.65	37.75
	20	68.05	61.24	55.67	51.03	47.11	43.75
	25	76.13	68.51	62.28	57.019	52.70	48.94
	30	83.27	74.94	68.13	62.45	57.65	53.53

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