

COLORED DISC ORIFICE CHART FOR 30" ROWS

Application Rate (gal/ac) for Colored Disc Orifices

30 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	1.00	0.90	0.81	0.75	0.69	0.64
	10	1.41	1.27	1.15	1.05	0.98	0.91
	15	1.74	1.57	1.42	1.31	1.21	1.12
	20	2.00	1.80	1.64	1.50	1.38	1.29
	25	2.22	2.00	1.82	1.67	1.54	1.43
	30	2.44	2.20	2.00	1.83	1.69	1.57
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Gray	5	1.49	1.35	1.22	1.12	1.04	0.96
	10	2.11	1.90	1.73	1.58	1.46	1.36
	15	2.55	2.30	2.09	2.50	1.77	1.64
	20	3.19	2.87	2.60	2.39	2.21	2.05
	25	3.34	3.00	2.72	2.50	2.31	2.14
	30	3.64	3.27	2.96	2.72	2.51	2.33
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Black	5	2.04	1.83	1.67	1.53	1.41	1.31
	10	2.89	2.60	2.36	2.17	2.00	1.86
	15	3.56	3.20	2.91	2.66	2.46	2.28
	20	4.11	3.70	3.36	3.09	2.85	1.64
	25	4.59	4.13	3.75	3.45	3.18	2.95
	30	5.00	4.50	4.09	3.76	3.46	3.21
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Brown	5	2.75	2.47	2.25	2.06	1.90	1.76
	10	3.89	3.50	3.18	2.92	2.69	2.50
	15	4.74	4.26	3.88	3.56	3.28	3.04
	20	5.48	4.93	4.48	4.11	3.79	3.52
	25	6.15	5.53	5.03	4.61	4.25	3.95
	30	6.70	6.03	5.48	5.03	4.64	4.31
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Orange	5	3.48	3.14	2.85	2.61	2.41	2.24
	10	4.93	4.43	4.03	3.69	3.41	3.16
	15	6.00	5.40	4.91	4.50	4.15	3.86
	20	6.95	6.27	5.69	5.22	4.82	4.48
	25	7.77	7.00	6.36	5.83	5.37	5.00
	30	8.51	7.67	6.96	6.38	5.90	5.48
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Red	5	6.33	5.70	5.18	4.75	4.38	4.07
	10	8.96	8.06	7.33	6.72	6.20	5.75
	15	10.96	9.86	8.96	8.22	7.58	7.04
	20	12.66	11.39	10.36	9.50	8.76	8.13
	25	14.14	12.72	11.57	10.61	9.78	9.08
	30	15.51	13.95	12.69	11.64	10.73	9.96
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
C. Blue	5	10.26	9.23	8.40	7.70	7.10	6.59
	10	14.51	13.06	11.88	10.88	10.04	9.32
	15	17.77	15.99	14.54	13.33	12.30	11.42
	20	20.51	18.46	16.79	15.38	14.20	13.18
	25	22.91	20.62	18.75	17.18	15.86	14.72
	30	25.15	22.63	20.58	18.86	17.40	16.16
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Yellow	5	14.97	13.48	12.25	11.23	10.37	9.62
	10	21.18	19.06	17.88	15.88	14.66	13.61
	15	25.94	23.35	21.22	19.45	17.96	16.67
	20	29.95	26.96	24.51	22.46	20.73	19.25
	25	33.51	30.17	27.43	25.13	23.00	21.54
	30	36.69	33.03	30.02	27.51	25.40	23.58
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Em. Green	5	20.06	18.05	16.41	15.04	13.88	12.89
	10	28.36	25.52	23.20	21.27	19.62	18.22
	15	34.74	31.26	28.42	26.05	24.02	22.32
	20	40.11	36.10	32.81	30.09	27.76	25.78
	25	44.96	40.47	36.78	33.73	31.12	28.90
	30	49.01	44.11	40.09	36.77	33.92	31.49
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
White	5	25.18	22.66	20.61	18.89	17.43	16.18
	10	35.62	32.06	29.14	26.71	24.65	22.89
	15	43.62	39.26	35.70	32.72	30.19	28.03
	20	50.37	45.33	41.22	37.78	34.86	32.37
	25	56.31	50.68	46.08	42.24	38.97	36.19
	30	61.50	55.35	50.33	46.13	42.56	39.52
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Lm. Green	5	40.52	36.46	33.15	30.38	28.06	26.05
	10	57.29	51.55	46.86	42.97	39.69	36.85
	15	70.17	63.15	57.41	52.62	48.61	45.13
	20	81.02	72.92	66.28	60.78	56.12	52.12
	25	90.82	81.75	74.30	68.13	62.74	58.27
	30	99.00	89.10	80.98	74.28	68.52	63.63

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