

COLORED DISC ORIFICE CHART FOR 13¹/₃" ROWS

Application Rate (gal/ac) for Colored Disc Orifices

13¹/₃ 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	2.26	2.03	1.84	1.69	1.56	1.45
	10	3.19	2.87	2.61	2.39	2.21	2.05
	15	3.94	3.55	3.23	2.96	2.73	2.53
	20	4.52	4.08	3.71	3.39	3.14	2.91
	25	5.02	4.53	4.12	3.77	3.48	3.23
	30	5.52	4.99	4.53	4.14	3.84	3.56
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Gray	5	3.38	3.05	2.77	2.53	2.35	2.18
	10	4.78	4.31	3.91	3.58	3.31	3.08
	15	5.78	5.21	4.74	4.35	4.01	3.72
	20	7.22	6.49	5.90	5.41	4.99	4.63
	25	7.56	6.80	6.18	5.66	5.23	4.86
	30	8.23	7.40	6.73	6.17	5.69	5.28
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Black	5	4.63	4.16	3.79	3.47	3.20	2.97
	10	6.55	5.88	5.35	4.91	4.52	4.20
	15	8.06	7.24	6.58	6.04	5.57	5.17
	20	9.32	8.58	7.61	6.99	6.60	6.13
	25	10.41	9.36	8.50	7.81	7.20	6.68
	30	11.33	10.19	9.25	8.50	7.84	7.28
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Brown	5	6.23	5.61	5.10	4.68	4.31	4.01
	10	8.81	7.93	7.21	6.61	6.10	5.66
	15	10.74	9.66	8.78	8.06	7.43	6.90
	20	12.42	11.17	10.16	9.32	8.59	7.98
	25	13.94	12.53	11.40	10.46	9.64	8.95
	30	15.19	13.66	12.43	11.40	10.49	9.75
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Orange	5	7.89	7.10	6.46	5.91	5.46	5.07
	10	11.16	10.04	9.13	8.36	7.72	7.17
	15	13.59	12.23	11.12	10.19	9.40	8.73
	20	15.77	14.20	12.90	11.83	10.92	10.14
	25	17.62	15.86	14.41	13.21	12.20	11.32
	30	19.29	17.37	15.78	14.47	13.36	12.40
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Red	5	14.35	12.91	11.74	10.77	9.93	9.22
	10	20.30	18.26	16.61	15.23	14.04	13.04
	15	24.84	22.34	20.31	18.62	17.18	15.95
	20	28.69	25.81	23.48	21.52	19.85	18.43
	25	32.05	28.83	26.23	24.04	22.17	20.58
	30	35.15	31.62	28.76	26.36	24.32	22.58
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
C. Blue	5	23.25	20.92	19.03	17.44	16.09	14.94
	10	32.88	29.59	26.91	24.66	22.75	21.13
	15	40.27	36.24	32.94	30.20	27.87	25.88
	20	46.47	41.83	38.03	34.85	32.17	29.87
	25	51.91	46.72	42.48	38.93	35.82	33.31
	30	56.97	51.28	46.62	42.73	39.43	36.61
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Yellow	5	33.92	30.54	27.76	25.45	23.49	21.81
	10	47.98	43.19	39.26	35.98	33.21	30.84
	15	58.76	52.90	48.08	44.07	40.68	37.77
	20	67.86	61.07	55.53	50.89	41.47	43.60
	25	75.94	68.34	62.14	45.95	52.55	48.79
	30	83.13	74.81	68.02	62.34	57.53	53.41
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Em. Green	5	45.44	40.89	37.18	34.08	31.44	29.20
	10	64.26	57.83	52.57	48.20	44.47	41.29
	15	78.70	70.83	64.39	59.03	54.47	50.57
	20	90.88	81.79	74.34	68.16	62.90	58.40
	25	101.88	91.69	83.34	76.41	70.51	65.47
	30	111.06	99.95	90.84	83.29	76.86	71.36
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
White	5	57.06	51.35	45.68	42.79	39.49	36.66
	10	80.70	76.62	66.03	60.53	58.82	54.71
	15	98.83	88.94	80.87	74.12	68.39	63.50
	20	114.12	102.71	93.38	85.59	78.98	73.33
	25	127.59	114.83	104.40	95.69	88.30	81.99
	30	139.34	125.41	114.02	104.51	96.44	89.54
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Lm. Green	5	91.87	82.62	73.54	68.85	63.58	59.02
	10	129.93	123.36	106.31	97.45	94.86	88.08
	15	159.12	143.19	130.20	119.33	110.11	102.24
	20	183.73	165.36	150.34	137.80	127.16	118.06
	25	205.42	184.88	168.08	154.06	142.16	132.00
	30	224.34	201.91	183.57	168.26	155.27	144.16

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