

COLORED DISC ORIFICE CHART FOR 20" ROWS

Application Rate (gal/ac) for Colored Disc Orifices

20 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	1.50	1.35	1.22	1.12		
	10	2.11	1.90	1.73	1.58	1.47	1.36
	15	2.61	2.35	2.14	1.96	1.82	1.69
	20	3.00	2.70	2.46	2.25	2.09	1.94
	25	3.33	3.00	2.73	2.50	2.32	2.15
	30	3.67	3.30	3.01	2.75	2.55	2.37
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Gray	5	2.24	2.02	1.84	1.68		
	10	3.17	2.85	2.59	2.37	2.21	2.05
	15	3.83	3.45	3.14	2.88	2.67	2.48
	20	4.78	4.30	3.91	3.59	3.33	3.09
	25	5.00	4.50	4.09	3.76	3.48	3.23
	30	5.45	4.90	4.46	4.09	3.79	3.52
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Black	5	3.06	2.75	2.51	2.30		
	10	4.34	3.90	3.54	3.25	3.02	2.80
	15	5.34	4.80	4.36	4.00	3.72	3.45
	20	6.17	5.55	5.04	4.63	4.29	3.99
	25	6.89	6.20	5.63	5.17	4.80	4.45
	30	7.50	6.75	6.13	5.63	5.22	4.85
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Brown	5	4.13	3.71	3.38	3.10		
	10	5.84	5.25	4.77	4.38	4.06	3.77
	15	7.11	6.40	5.82	5.34	4.95	4.60
	20	8.23	7.40	6.73	6.17	5.73	5.32
	25	9.23	8.30	7.55	6.92	6.42	5.96
	30	10.07	9.05	8.23	7.55	7.00	6.51
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Orange	5	5.23	4.71	4.28	3.92		
	10	7.39	6.65	6.05	5.54	5.15	4.78
	15	9.00	8.10	7.37	6.75	6.27	5.82
	20	10.45	9.41	8.55	7.84	7.27	6.75
	25	11.67	10.51	9.55	8.76	8.13	7.55
	30	12.78	11.51	10.46	9.59	8.90	8.27
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Red	5	9.51	8.55	7.78	7.13		
	10	13.45	12.10	11.00	10.09	9.37	8.70
	15	16.45	14.80	13.46	12.34	11.46	10.64
	20	19.00	17.10	15.55	14.26	13.24	12.29
	25	21.22	19.10	17.37	15.93	14.79	13.73
	30	23.28	20.95	19.05	17.47	16.22	15.06
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
C. Blue	5	15.40	13.86	12.60	11.55		
	10	21.78	19.60	17.83	16.33	15.17	14.09
	15	26.67	24.01	21.82	20.01	18.58	17.25
	20	30.78	27.71	25.19	23.09	21.45	19.91
	25	34.38	30.95	28.14	25.79	23.96	22.25
	30	37.74	33.97	30.88	28.31	26.29	24.41
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Yellow	5	24.47	20.23	18.39	16.86		
	10	31.79	28.61	26.01	23.84	22.15	20.56
	15	38.93	35.04	31.85	29.19	27.10	25.16
	20	44.95	40.46	36.79	33.71	31.28	29.05
	25	50.30	45.27	41.17	37.72	35.00	32.50
	30	55.06	49.56	45.07	41.29	38.33	35.59
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Em. Green	5	30.10	27.09	24.63	22.57		
	10	42.57	38.31	34.83	31.93	30.04	27.90
	15	52.14	46.92	42.66	39.10	36.32	33.72
	20	60.20	54.18	49.25	45.16	41.82	38.83
	25	67.48	60.74	55.21	50.62	46.85	43.50
	30	73.56	66.21	60.18	55.19	51.11	47.46
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
White	5	37.80	34.02	30.93	28.35		
	10	53.46	48.11	43.74	40.10	37.25	34.59
	15	65.47	58.92	53.58	49.11	45.30	42.06
	20	75.60	68.04	61.68	56.70	52.66	48.90
	25	84.52	76.07	69.16	63.39	58.85	54.65
	30	92.31	83.08	75.53	69.23	64.27	59.68
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Lm. Green	5						
	10	86.69	78.02	70.93	65.02	60.02	55.73
	15	105.71	95.14	86.49	79.28	73.19	67.95
	20	122.49	110.24	100.22	81.86	84.80	78.74
	25	137.03	123.33	112.11	102.77	94.87	88.09
	30	149.90	134.90	122.64	112.42	103.77	96.36

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