

# COLORED DISC ORIFICE CHART FOR 18" ROWS

## Application Rate (gal/ac) for Colored Disc Orifices

# 18 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	1.66	1.5	1.36	1.24		
	10	2.35	2.11	1.92	1.76	1.63	1.52
	15	2.90	2.61	2.37	2.18	2.02	1.88
	20	3.33	3.00	2.73	2.50	2.32	2.16
	25	3.70	3.33	3.03	2.78	2.58	2.40
	30	4.07	3.67	3.34	3.06	2.84	2.64
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Gray	5	2.49	2.24	2.04	1.86		
	10	3.52	3.17	2.88	2.64	2.45	2.28
	15	4.25	3.83	3.49	3.20	2.96	2.75
	20	5.31	4.78	4.34	3.98	3.70	3.43
	25	5.56	5.00	4.54	4.17	3.87	3.59
	30	6.05	5.45	4.95	4.54	4.21	3.91
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Black	5	3.40	3.06	2.79	2.55		
	10	4.82	4.33	3.94	3.61	3.35	3.12
	15	5.93	5.33	4.84	4.44	4.13	3.83
	20	6.85	6.16	5.60	5.14	4.78	4.43
	25	7.65	6.88	6.26	5.74	5.33	4.95
	30	8.33	7.49	6.81	6.25	5.80	5.39
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Brown	5	4.58	4.12	3.75	3.44		
	10	6.48	5.83	5.30	4.86	4.52	4.19
	15	7.90	7.11	6.46	5.93	5.50	5.11
	20	9.13	8.22	7.47	6.85	6.36	5.91
	25	10.24	9.22	8.38	7.69	7.14	6.63
	30	11.17	10.05	9.14	8.38	7.79	7.23
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Orange	5	5.81	5.23	4.75	4.35		
	10	8.21	7.39	6.71	6.15	5.72	5.31
	15	10.00	8.99	8.18	7.50	6.97	6.47
	20	11.60	10.44	9.49	8.70	8.09	7.51
	25	12.96	11.66	10.60	9.72	9.03	8.38
	30	14.19	12.77	11.61	10.64	9.89	9.18
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Red	5	10.56	9.50	8.64	7.92		
	10	14.93	13.44	12.22	11.20	10.41	9.66
	15	18.27	16.44	14.94	13.70	12.73	11.82
	20	21.10	18.99	17.27	15.83	14.71	13.66
	25	23.57	21.21	19.29	17.68	16.43	15.26
	30	25.85	23.26	21.16	19.39	18.02	16.74
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
C. Blue	5	17.10	15.39	14.00	12.83		
	10	24.19	21.77	19.79	18.14	16.86	15.66
	15	29.62	26.66	24.24	22.22	20.65	19.17
	20	34.18	30.77	27.98	25.64	23.83	22.13
	25	38.18	34.36	31.25	28.64	26.63	24.73
	30	41.90	37.72	34.30	31.43	29.21	27.12
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Yellow	5	24.96	22.47	20.42	18.72		
	10	35.30	31.77	28.88	26.47	24.61	22.85
	15	43.23	38.91	35.37	32.42	30.11	27.96
	20	49.92	44.93	40.85	37.43	34.76	32.28
	25	55.86	50.28	45.71	41.88	38.89	36.12
	30	61.15	55.04	50.04	45.85	42.59	39.55
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Em. Green	5	33.43	30.08	27.35	25.07		
	10	47.27	42.25	38.67	35.46	33.38	31.00
	15	57.90	52.11	47.37	43.42	40.35	37.47
	20	66.85	60.17	54.69	51.14	46.46	43.18
	25	74.94	67.45	61.31	56.21	52.06	48.34
	30	81.69	73.53	66.83	61.27	56.79	52.74
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
White	5	41.97	37.77	34.34	31.48		
	10	59.36	53.43	48.57	44.52	41.38	38.43
	15	72.71	65.44	59.49	54.53	50.33	46.74
	20	83.95	75.56	68.69	62.96	58.51	54.33
	25	93.86	84.48	76.80	70.39	65.39	60.73
	30	102.50	92.26	83.87	76.87	71.42	66.32
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Lm. Green	5						
	10	96.32	86.69	78.81	72.24	66.68	61.92
	15	117.45	105.71	96.10	88.09	81.31	75.51
	20	136.10	122.49	111.36	102.08	94.22	87.49
	25	152.26	137.03	124.57	114.19	105.41	97.88
	30	166.55	149.89	136.27	124.91	115.30	107.07

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