

COLORED DISC ORIFICE CHART FOR 7½” ROWS

Application Rate (gal/ac) for Colored Disc Orifices

7½ 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	4.02	3.60	3.28	3.00	2.77	2.57
	10	5.66	5.10	4.62	4.24	3.92	3.64
	15	7.00	6.30	5.74	5.26	4.84	4.50
	20	8.04	7.24	6.58	6.02	5.57	5.17
	25	8.94	8.04	7.32	6.68	6.18	5.74
	30	9.82	8.84	8.04	7.36	6.80	6.31
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Gray	5	6.00	5.42	4.92	4.48	4.17	3.87
	10	8.48	7.64	6.94	6.36	5.88	5.45
	15	10.26	9.24	8.42	7.72	7.11	6.60
	20	12.82	11.52	10.46	9.62	8.86	8.23
	25	13.42	12.06	10.96	10.08	9.27	8.61
	30	14.62	13.14	11.92	10.96	10.10	9.38
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Black	5	8.22	7.38	6.72	6.16	5.68	5.27
	10	11.62	10.44	9.50	8.70	8.03	7.45
	15	14.30	12.86	11.68	10.72	9.89	9.18
	20	16.54	14.86	13.52	12.40	11.43	10.61
	25	18.48	16.60	15.10	13.86	12.77	11.85
	30	20.12	18.06	16.44	15.08	13.89	12.89
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Brown	5	11.06	9.94	9.04	8.30	7.64	7.10
	10	15.64	14.08	12.80	11.74	10.83	10.05
	15	19.06	17.14	15.58	14.30	13.18	12.24
	20	22.04	19.84	18.02	16.54	15.26	14.17
	25	24.72	22.26	20.22	18.56	17.12	15.89
	30	26.96	24.26	22.04	20.22	18.66	17.32
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Orange	5	14.00	12.62	11.46	10.50	9.70	9.01
	10	19.80	17.82	16.20	14.84	13.70	12.72
	15	24.12	21.70	19.74	18.10	16.69	15.49
	20	28.00	25.20	22.90	21.00	19.38	17.99
	25	31.28	28.14	25.58	23.46	21.64	20.09
	30	34.24	30.82	28.00	25.68	23.70	22.01
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Red	5	25.48	22.92	20.84	19.10	17.62	16.36
	10	36.02	32.42	35.48	27.02	24.94	23.14
	15	44.08	39.66	36.06	33.06	30.50	28.32
	20	50.92	45.82	38.20	38.20	35.24	32.72
	25	56.88	51.18	42.66	42.66	39.36	36.54
	30	62.38	56.12	46.80	46.80	43.16	40.06
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
C. Blue	5	41.26	37.14	33.78	30.96	28.56	26.52
	10	58.36	52.52	47.96	43.76	40.38	37.50
	15	71.48	64.32	58.48	53.60	49.46	45.92
	20	82.48	74.24	67.50	61.86	57.10	53.00
	25	92.14	82.92	75.40	59.88	63.76	59.20
	30	101.12	91.02	82.76	75.84	70.00	64.98
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Yellow	5	60.22	54.22	49.26	45.16	41.70	38.72
	10	85.16	76.66	69.68	63.86	58.96	54.74
	15	104.26	93.90	85.34	78.22	72.20	67.04
	20	120.44	108.40	98.56	90.34	83.36	77.40
	25	134.78	121.30	110.28	101.10	93.28	86.60
	30	147.54	132.80	120.74	110.66	102.12	94.81
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Em. Green	5	80.66	72.58	65.98	60.48	55.82	51.82
	10	114.06	102.64	93.30	85.54	78.94	73.28
	15	139.70	125.72	114.28	104.76	96.68	89.76
	20	161.30	145.18	131.96	120.98	116.64	103.66
	25	180.82	162.74	147.92	135.62	125.14	116.20
	30	197.10	177.40	161.26	147.84	136.42	126.66
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
White	5	101.28	91.14	82.86	75.96	70.08	65.08
	10	143.24	128.90	117.20	107.44	99.12	92.04
	15	175.42	157.46	143.54	131.56	121.08	112.42
	20	202.56	182.30	165.74	151.92	140.18	130.16
	25	226.46	203.82	185.30	169.84	156.74	145.52
	30	247.32	222.58	202.36	185.50	171.16	158.92
Disc	PSI	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
Lm. Green	5	163.06	146.64	133.40	122.30	112.82	104.78
	10	230.62	207.52	188.70	172.98	159.98	148.18
	15	282.42	253.52	231.10	211.82	194.94	181.00
	20	326.12	293.50	266.84	244.60	225.68	209.56
	25	364.60	328.16	298.34	273.44	252.36	234.28
	30	398.18	358.36	325.80	290.66	275.56	255.86

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