

COLORED DISC ORIFICE CHART FOR 10" ROWS

Application Rate (gal/ac) for Colored Disc Orifices

10 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	3.00	2.69	2.44	2.24	2.07	1.92
	10	4.23	3.81	3.45	3.17	2.93	2.72
	15	5.22	4.70	4.28	3.92	3.61	3.36
	20	6.00	5.41	4.92	4.50	4.16	3.86
	25	6.67	6.01	5.47	5.00	4.62	4.29
30	7.33	6.61	6.01	5.50	5.08	4.72	
Gray	5	4.48	4.04	3.67	3.35	3.11	2.88
	10	6.33	5.71	5.19	4.75	4.39	4.08
	15	7.66	6.90	6.28	5.76	5.31	4.93
	20	9.57	8.61	7.81	7.17	6.62	6.18
	25	10.02	9.01	8.18	7.51	6.93	6.43
30	10.91	9.82	8.90	8.17	7.55	7.01	
Black	5	6.13	5.51	5.02	4.60	4.24	3.93
	10	8.67	7.80	7.09	6.50	6.00	5.57
	15	10.68	9.60	8.72	8.00	7.38	6.85
	20	12.34	11.10	10.09	9.26	8.54	7.93
	25	13.78	12.40	11.27	10.34	9.54	8.85
30	15.01	13.50	12.27	11.26	10.38	9.64	
Brown	5	8.25	7.43	6.75	6.20	5.71	5.31
	10	11.67	10.51	9.55	8.76	8.08	7.50
	15	14.23	12.80	11.64	10.68	9.84	9.14
	20	16.45	14.80	13.46	12.34	11.38	10.57
	25	18.46	16.61	15.10	13.85	12.77	11.86
30	20.12	18.10	16.46	15.09	13.92	12.92	
Orange	5	10.46	9.41	8.55	7.83	7.24	6.72
	10	17.79	13.30	12.09	11.08	10.23	9.50
	15	18.00	16.20	14.74	13.51	12.46	11.57
	20	20.90	18.81	17.09	15.68	14.46	13.43
	25	23.35	21.01	19.09	17.51	16.16	15.00
30	25.56	23.00	20.90	19.18	17.59	16.42	
Red	5	19.01	17.11	15.56	14.26	13.16	12.22
	10	26.89	24.20	22.01	20.17	18.69	17.28
	15	32.91	29.60	26.91	24.67	22.76	21.13
	20	29.01	34.20	31.10	28.51	26.30	24.42
	25	42.46	38.20	34.74	31.85	21.69	20.13
30	46.56	41.90	38.10	34.92	32.22	29.92	
C. Blue	5	30.80	27.72	25.21	23.10	21.32	19.79
	10	43.57	39.20	35.65	32.67	30.14	27.99
	15	53.35	48.01	43.65	40.01	36.92	34.28
	20	61.57	55.42	50.39	46.18	42.62	39.57
	25	68.77	61.90	56.29	51.58	47.60	44.20
30	75.48	67.94	61.78	56.62	52.25	48.51	
Yellow	5	44.95	40.47	36.79	33.71	31.12	28.90
	10	63.57	57.22	52.02	47.67	44.00	40.86
	15	77.85	70.09	63.71	58.38	53.90	50.04
	20	89.91	80.92	73.57	67.43	62.23	57.78
	25	100.61	90.55	82.32	75.45	69.63	64.65
30	110.14	99.13	90.12	82.60	76.23	70.78	
Em. Green	5	60.20	54.17	49.26	45.15	41.66	38.68
	10	85.15	76.62	69.65	63.86	58.92	54.71
	15	104.27	93.85	85.31	78.20	72.17	67.01
	20	120.41	108.37	98.50	90.31	83.34	77.38
	25	134.98	121.48	110.42	101.24	93.42	86.74
30	147.14	132.42	120.37	110.36	101.83	94.55	
White	5	75.59	68.03	61.85	56.70	52.32	48.57
	10	116.92	96.22	87.48	80.19	73.99	68.70
	15	130.95	117.85	107.15	98.21	90.63	84.14
	20	151.21	136.08	123.72	113.40	104.65	97.10
	25	169.05	152.14	138.32	126.78	117.00	108.63
30	184.63	166.15	151.06	138.46	127.77	118.63	
Lm. Green	5	121.70	109.53	99.58	91.29	84.24	78.20
	10	188.24	154.91	140.84	129.11	119.12	110.61
	15	210.83	189.74	172.51	158.12	145.91	135.47
	20	243.45	219.09	199.19	182.57	168.49	156.43
	25	272.17	244.95	222.70	204.12	188.37	174.49
30	297.25	267.50	243.21	222.92	205.71	190.99	

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