

Charts for John Deere Planter Tip Selection for Combo-Jet® Tip-Caps



NOTE: DRE spray pattern is designed to work with seed firmers.

Tip label specifies tip series (DR), spray angle (50°), and flow rate (i.e. -005 = .05 US gpm @ 40PSI) with water

Pre-orifice must remain in the tip-cap during operation. Strainer snaps into top of pre-orifice. Use plug when not in use.

Adapters are used to fit Combo-Jet® tip-cap onto existing square lug outlet.

KIT PART NUMBER (Includes tip, strainer, adapter, plug cap)	PART NUMBER FOR		TIP COLOR SCREEN	LIQUID PSI	CAPACITY (1 NOZZLE) US GPM	Application Rate outside of recommended 1.5-3.0 GPA range								
	TIP CAP	TIP COLOR SCREEN				US GALLONS PER ACRE (30" nozzle spacing)								
	STRAINER					4	4.5	5	5.5	6	6.5	7	7.5	8
ADAPTER	MPH		MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH				
PLUG CAP														
70109-V005	70086-V005 [TIP CAP]	DR50-005E BLACK 100 MESH	16	0.03	1.6	1.4	1.3	1.1	1.0	1.0	0.9	0.8	0.8	
			20	0.04	1.8	1.6	1.4	1.3	1.2	1.1	1.0	0.9	0.9	
	25		0.04	2.0	1.7	1.6	1.4	1.3	1.2	1.1	1.0	1.0		
	30		0.04	2.1	1.9	1.7	1.6	1.4	1.3	1.2	1.1	1.1		
	35		0.05	2.3	2.1	1.9	1.7	1.5	1.4	1.3	1.2	1.2		
	40		0.05	2.5	2.2	2.0	1.8	1.7	1.5	1.4	1.3	1.2		
	50		0.06	2.8	2.5	2.2	2.0	1.8	1.7	1.6	1.5	1.4		
	60		0.06	3.0	2.7	2.4	2.2	2.0	1.9	1.7	1.6	1.5		
65	0.06	3.2	2.8	2.5	2.3	2.1	1.9	1.8	1.7	1.6				
70109-V007	70086-V007 [TIP CAP]	DR50-0067E BLACK 100 MESH	16	0.04	2.1	1.9	1.7	1.5	1.4	1.3	1.2	1.1	1.0	
			20	0.05	2.3	2.1	1.9	1.7	1.6	1.4	1.3	1.3	1.2	
	25		0.05	2.6	2.3	2.1	1.9	1.7	1.6	1.5	1.4	1.3		
	30		0.06	2.9	2.6	2.3	2.1	1.9	1.8	1.6	1.5	1.4		
	35		0.06	3.1	2.8	2.5	2.3	2.1	1.9	1.8	1.7	1.6		
	40		0.07	3.3	2.9	2.7	2.4	2.2	2.0	1.9	1.8	1.7		
	50		0.07	3.7	3.3	3.0	2.7	2.5	2.3	2.1	2.0	1.9		
	60		0.08	4.1	3.6	3.2	3.0	2.7	2.5	2.3	2.2	2.0		
65	0.09	4.2	3.8	3.4	3.1	2.8	2.6	2.4	2.3	2.1				
70109-V01	70086-V01 [TIP CAP]	DR50-01E ORANGE 100 MESH	16	0.06	3.1	2.8	2.5	2.3	2.1	1.9	1.8	1.7	1.6	
			20	0.07	3.5	3.1	2.8	2.5	2.3	2.2	2.0	1.9	1.8	
	25		0.08	3.9	3.5	3.1	2.8	2.6	2.4	2.2	2.1	2.0		
	30		0.09	4.3	3.8	3.4	3.1	2.9	2.6	2.4	2.3	2.1		
	35		0.09	4.6	4.1	3.7	3.4	3.1	2.8	2.6	2.5	2.3		
	40		0.10	5.0	4.4	4.0	3.6	3.3	3.0	2.8	2.6	2.5		
	50		0.11	5.5	4.9	4.4	4.0	3.7	3.4	3.2	3.0	2.8		
	60		0.12	6.1	5.4	4.8	4.4	4.0	3.7	3.5	3.2	3.0		
65	0.13	6.3	5.6	5.0	4.6	4.2	3.9	3.6	3.4	3.2				

To Convert US gpm (of water) to other solutions:

1. Find weight or Specific Gravity of solution in below table.
2. Multiply desired US gpm rate (or GPA) by conversion factor listed.
3. Find calculated US gpm rate (or GPA) in flow charts.

Weight of Solution	Specific Gravity	Conversion Factor
7.0 lbs/gallon	0.84	0.92
8.0 lbs/gallon	0.96	0.98
8.34 lbs/gallon (Water)	1.00	1.00
9.0 lbs/gallon	1.08	1.04
10.0 lbs/gallon	1.20	1.10
10.65 lbs/gallon (28% Nitrogen)	1.28	1.13
11.0 lbs/gallon	1.32	1.15
12.0 lbs/gallon	1.44	1.20
14.0 lbs/gallon	1.68	1.30

To Convert from 30" to OTHER spacing:

1. Find desired spacing in the below table.
2. Multiply GPA in nozzle charts by conversion factor
3. Divide 30" by desired nozzle spacing (inches)

Desired spacing (IN)	Conversion Factor	Desired spacing (IN)	Conversion Factor
8	3.75	20	1.50
9	3.33	22	1.36
10	3.00	24	1.25
12	2.50	26	1.15
14	2.14	28	1.07
15	2.00	30	1.00
16	1.88	32	0.94
18	1.67	34	0.88
19	1.58	36	0.83