

HYPRO[®] SPRAY NOZZLE SELECTION GUIDE

What are you spraying?	When are you spraying?	Are you using a PWM system?*	Is your chemical Contact or Systemic?	Primary Concern: Drift	Primary Concern: Coverage
Liquid Fertilizer Plant Nutrients	Pre-Emerge			Hi-Flow	Hi-Flow
	Post-Emerge			ESI Six Stream	ESI Six Stream
Herbicides Weed Control	Pre-Emerge	No		GuardianAIR	GuardianAIR Twin
		Yes		3D* or Lo-Drift	3D* or Lo-Drift
	Post-Emerge	No	Systemic	Ultra Lo-Drift	GuardianAIR
		Yes	Contact	GuardianAIR	GuardianAIR Twin
Plant Growth Regulators	Post-Emerge	No		GuardianAIR	GuardianAIR Twin
		Yes		3D* or Lo-Drift	3D* or Lo-Drift
Insectide/ Fungicide	Post-Emerge	No	Systemic	GuardianAIR	GuardianAIR Twin
		Yes	Contact	GuardianAIR Twin	3D
Desiccants	Pre-Harvest	No	Systemic	Ultra Lo-Drift	GuardianAIR
		Yes	Contact	GuardianAIR Twin	3D
				3D* or Lo-Drift	3D* or Lo-Drift

Spray quality will vary with pressure. For details see spray quality charts. Always comply with the product label recommendations or latest manufacturer advice on application on spray quality.

* When using a PWM pick a pressure that provides the right droplet spectrum for contact/systemic or drift control/coverage.

**When using the 3D and PWM at less than 30 Hz you must install the nozzles facing the same direction.



Hi-Flow



ESI Six Stream



Ultra Lo-Drift



3D



GuardianAIR



GuardianAIR Twin



SPRAY IT CALCULATOR
sprayit.hypropumps.com

Spray It Spray Nozzle Selection App
Search 'Hypro' on the
Apple Store or Android Market



HYPRO® SPRAY NOZZLE APPLICATION CHART

Spray Nozzle	Uses	Pressure Range	Part Number	Droplet Size			
				PSI			
				30	40	60	80
Hi-Flow™		20-80	HF140-08	UC	UC	XC	XC
			HF140-10	UC	UC	XC	XC
			HF140-15	UC	UC	XC	XC
			HF140-20	UC	UC	XC	XC
			HF140-30	UC	UC	XC	XC
			HF140-40	UC	UC	XC	XC
			HF140-50	UC	UC	XC	XC
			HF140-60	UC	UC	XC	XC
ESI		20-60	FC-ESI-11003	S	S	S	S
			FC-ESI-11004	S	S	S	S
			FC-ESI-11005	S	S	S	S
			FC-ESI-11006	S	S	S	S
			FC-ESI-11008	S	S	S	S
			FC-ESI-11010	S	S	S	S
			FC-ESI-11015	S	S	S	S
Ultra Lo-Drift™		20-115	FC-ULD120-015	XC	VC	C	C
			FC-ULD120-02	XC	C	C	M
			FC-ULD120-025	XC	C	C	M
			FC-ULD120-03	XC	C	C	M
			FC-ULD120-04	UC	XC	XC	VC
			FC-ULD120-05	UC	XC	XC	VC
			FC-ULD120-06	UC	XC	VC	C
			FC-ULD120-08	XC	VC	C	C
3D™		12-90	3D100-015	F	F	F	F
			3D100-02	F	F	F	F
			3D100-025	M	M	F	F
			3D100-03	M	M	F	F
			3D100-035	M	M	M	F
			3D100-04	M	M	M	M
			3D100-05	C	M	M	M
			3D100-06	C	M	M	M
			3D100-08	C	C	M	M
			GuardianAir™		20-115	FC-GA110-015	XC
FC-GA110-02	VC	M				M	M
FC-GA110-025	VC	C				M	M
FC-GA110-03	XC	VC				C	M
FC-GA110-035	VC	C				M	M
FC-GA110-04	VC	C				M	M
GuardianAIR Twin™		30-115	FC-GA110-05	XC	C	C	M
			GAT110-02	C	M	M	M
			GAT110-025	UC	VC	M	M
			GAT110-03	VC	C	M	M
			GAT110-035	XC	C	M	M
			GAT110-04	VC	C	M	M
			GAT110-05	VC	C	M	M
			GAT110-06	XC	C	C	M
GAT110-08	VC	C	C	M			

Nozzle Size	Pressure PSI	Flow Rate (GPM)	Speed (MPH) -20 inch nozzle spacing								
			Gallons per Acre								
			5.0	7.5	10.0	12.5	15.0	17.0	20.0	22.5	25.0
015	20	0.11	6.3	4.2	3.2	2.5	2.1	17.5	1.6	1.4	1.3
	30	0.13	7.7	5.1	3.9	3.1	2.6	1.8	1.9	1.7	1.5
	40	0.15	8.9	5.9	4.5	3.6	3.0	2.2	2.2	2.0	1.8
	50	0.17	10.0	6.6	5.0	4.0	3.3	2.5	2.5	2.2	2.0
	60	0.18	10.9	7.3	5.5	4.4	3.6	2.8	2.7	2.4	2.2
	70	0.20	11.8	7.9	5.9	4.7	3.9	3.1	2.9	2.6	2.4
	80	0.21	12.6	8.4	6.3	5.0	4.2	3.4	3.2	2.8	2.5
	90	0.23	13.4	8.9	6.7	5.3	4.5	3.6	3.3	3.0	2.7
	02	20	0.14	8.4	5.6	4.2	3.4	2.8	3.8	2.1	1.9
30		0.17	10.3	6.9	5.1	4.1	3.4	2.4	2.6	2.3	2.1
40		0.20	11.9	7.9	5.9	4.8	4.0	2.9	3.0	2.6	2.4
50		0.22	13.3	8.9	6.6	5.3	4.4	3.4	3.3	3.0	2.7
60		0.24	14.5	9.7	7.3	5.8	4.8	3.8	3.6	3.2	2.9
70		0.26	15.7	10.5	7.9	6.3	5.2	4.2	3.9	3.5	3.1
80		0.28	16.8	11.2	8.4	6.7	5.6	4.5	4.2	3.7	3.4
90		0.30	17.8	11.9	8.9	7.1	5.9	4.8	4.5	4.0	3.6
025	20	0.18	10.5	7.0	5.3	4.2	3.5	5.1	2.6	2.3	2.1
	30	0.22	12.9	8.6	6.4	5.1	4.3	3.0	3.2	2.9	2.6
	40	0.25	14.9	9.9	7.4	5.9	5.0	3.7	3.7	3.3	3.0
	50	0.28	16.6	11.1	8.3	6.6	5.5	4.2	4.2	3.7	3.3
	60	0.31	18.2	12.1	9.1	7.3	6.1	4.7	4.5	4.0	3.6
	70	0.33	19.6	13.1	9.8	7.9	6.5	5.2	4.9	4.4	3.9
	80	0.35	21.0	14.0	10.5	8.4	7.0	5.6	5.3	4.7	4.2
	90	0.38	22.3	14.9	11.1	8.9	7.4	6.0	5.6	5.0	4.5
03	20	0.21	12.6	8.4	6.3	5.0	4.2	6.4	3.2	2.8	2.5
	30	0.26	15.4	10.3	7.7	6.2	5.1	3.6	3.9	3.4	3.1
	40	0.30	17.8	11.9	8.9	7.1	5.9	4.4	4.5	4.0	3.6
	50	0.34	19.9	13.3	10.0	8.0	6.6	5.1	5.0	4.4	4.0
	60	0.37	21.8	14.5	10.9	8.7	7.3	5.7	5.5	4.8	4.4
	70	0.40	23.6	15.7	11.8	9.4	7.9	6.2	5.9	5.2	4.7
	80	0.42	25.2	16.8	12.6	10.1	8.4	6.7	6.3	5.6	5.0
035	20	0.25	14.7	9.8	7.4	5.9	4.9	7.6	3.7	3.3	2.9
	30	0.30	18.0	12.0	9.0	7.2	6.0	4.2	4.5	4.0	3.6
	40	0.35	20.8	13.9	10.4	8.3	6.9	5.1	5.2	4.6	4.2
	50	0.39	23.2	15.5	11.6	9.3	7.7	5.9	5.8	5.2	4.6
	60	0.43	25.5	17.0	12.7	10.2	8.5	6.6	6.4	5.7	5.1
	70	0.46	27.5	18.3	13.8	11.0	9.2	7.3	6.9	6.1	5.5
	80	0.49	29.4	19.6	14.7	11.8	9.8	7.9	7.4	6.5	5.9
	90	0.53	-	20.8	15.6	12.5	10.4	8.4	7.8	6.9	6.2

Nozzle Size	Pressure PSI	Flow Rate (GPM)	Speed (MPH) -20 inch nozzle spacing								
			Gallons per Acre								
			5.0	7.5	10.0	12.5	15.0	17.0	20.0	22.5	25.0
04	20	0.28	16.8	11.2	8.4	6.7	5.6	4.8	4.2	3.7	3.4
	30	0.35	20.6	13.7	10.3	8.2	6.9	5.9	5.1	4.6	4.1
	40	0.40	23.8	15.8	11.9	9.5	7.9	6.8	5.9	5.3	4.8
	50	0.45	26.6	17.7	13.3	10.6	8.9	7.6	6.6	5.9	5.3
	60	0.49	29.1	19.4	14.5	11.6	9.7	8.3	7.3	6.5	5.8
	70	0.53	-	21.0	15.7	12.6	10.5	9.0	7.9	7.0	6.3
	80	0.57	-	22.4	16.8	13.4	11.2	9.6	8.4	7.5	6.7
	90	0.60	-	23.8	17.8	14.3	11.9	10.2	8.9	7.9	7.1
05	20	0.35	21.0	14.0	10.5	8.4	7.0	6.0	5.3	4.7	4.2
	30	0.43	25.7	17.1	12.9	10.3	8.6	7.3	6.4	5.7	5.1
	40	0.50	29.7	19.8	14.9	11.9	9.9	8.5	7.4	6.6	5.9
	50	0.56	-	22.1	16.6	13.3	11.1	9.5	8.3	7.4	6.6
	60	0.61	-	24.2	18.2	14.5	12.1	10.4	9.1	8.1	7.3
	70	0.66	-	26.2	19.6	15.7	13.1	11.2	9.8	8.7	7.9
	80	0.71	-	28.0	21.0	16.8	14.0	12.0	10.5	9.3	8.4
	90	0.75	-	29.7	22.3	17.8	14.9	12.7	11.1	9.9	8.9
06	20	0.42	25.2	16.8	12.6	10.1	8.4	7.2	6.3	5.6	5.0
	30	0.52	-	20.6	15.4	12.3	10.3	8.8	7.7	6.9	6.2
	40	0.60	-	23.8	17.8	14.3	11.9	10.2	8.9	7.9	7.1
	50	0.67	-	26.6	19.9	15.9	13.3	11.4	10.0	8.9	8.0
	60	0.73	-	29.1	21.8	17.5	14.5	12.5	10.9	9.7	8.7
	70	0.79	-	-	23.6	18.9	15.7	13.5	11.8	10.5	9.4
	80	0.85	-	-	25.2	20.2	16.8	14.4	12.6	11.2	10.1
	90	0.90	-	-	26.7	21.4	17.8	15.3	13.4	11.9	10.7
08	20	0.57	33.6	22.4	16.8	13.4	11.2	9.6	8.4	7.5	6.7
	30	0.69	-	27.4	20.6	16.5	13.7	11.8	10.3	9.1	8.2
	40	0.80	-	-	23.8	19.0	15.8	13.6	11.9	10.6	9.5
	50	0.89	-	-	26.6	21.3	17.7	15.2	13.3	11.8	10.6
	60	0.98	-	-	29.1	23.3	19.4	16.6	14.5	12.9	11.6
	70	1.06	-	-	-	25.1	21.0	18.0	15.7	14.0	12.6
	80	1.13	-	-	-	26.9	22.4	19.2	16.8	14.9	13.4
	90	1.20	-	-	-	28.5	23.8	20.4	17.8	15.8	14.3
10	20	0.71	-	28.0	21.0	16.8	14.0	12.0	10.5	9.3	8.4
	30	0.87	-	-	25.7	20.6	17.1	14.7	12.9	11.4	10.3
	40	1.00	-	-	29.7	23.8	19.8	17.0	14.9	13.2	11.9
	50	1.12	-	-	-	26.6	22.1	19.0	16.6	14.8	13.3
	60	1.22	-	-	-	29.1	24.2	20.8	18.2	16.2	14.5
	70	1.32	-	-	-	26.2	22.5	19.6	17.5	15.7	
	80	1.41	-	-	-	28.0	24.0	21.0	18.7	16.8	
	90	1.50	-	-	-	29.7	25.5	22.3	19.8	17.8	

Weed Control Plant Health Fertilizer Air Induction Twin Spray

