

BOOMJET NOZZLE NO.	PRESSURE IN P.S.I.	CAPACITY IN G.P.M.	W' IN FEET	GALLONS PER ACRE									
				BASED ON SPRAYING SOLUTION WEIGHING 10 LBS. PER GALLON (FOR CONVERSION FACTORS SEE AT RIGHT)									
				2 M.P.H.	2 1/2 M.P.H.	3 M.P.H.	3 1/2 M.P.H.	4 M.P.H.	5 M.P.H.	6 M.P.H.	8 M.P.H.	10 M.P.H.	
5880- $\frac{1}{2}$ -ETOC06 5430- $\frac{1}{2}$ -ETOC06	14	1.4	32%	10.7	8.6	7.1	6.1	5.4	4.3	3.6	2.7	2.1	
	16	1.5	33	11.3	9.0	7.6	6.4	5.6	4.5	3.7	2.9	2.3	
	18	1.6	33	11.9	9.5	7.9	6.8	5.9	4.7	3.9	3.0	2.4	
	20	1.7	33%	12.4	9.9	8.3	7.1	6.2	5.0	4.1	3.1	2.5	
	25	1.9	33%	13.8	11.0	9.2	7.9	7.0	5.5	4.6	3.4	2.8	
5880- $\frac{1}{2}$ -ETOC10 5430- $\frac{1}{2}$ -ETOC10	10	1.8	35	11.9	9.5	7.9	6.8	6.0	4.8	4.0	3.0	2.4	
	12	2.0	36%	12.9	10.4	8.6	7.4	6.5	5.2	4.3	3.2	2.6	
	14	2.2	36%	13.9	11.1	9.3	7.9	7.0	5.6	4.6	3.5	2.8	
	16	2.3	35	14.7	11.7	9.8	8.4	7.4	5.9	4.9	3.7	2.9	
	18	2.5	35	15.5	12.3	10.9	8.8	7.7	6.2	5.2	3.9	3.1	
5880- $\frac{1}{2}$ -ETOC20 5430- $\frac{1}{2}$ -ETOC20	10	3.9	41	27	19	15.8	13.3	11.9	9.6	7.9	5.9	4.8	
	12	4.3	42	25	20	16.9	14.5	12.5	10.2	8.5	6.4	5.1	
	14	4.7	43	21	17.9	15.3	13.4	10.7	8.9	6.7	5.4	4.4	
	16	5.0	44	22	18.6	15.9	14.0	11.1	9.3	7.0	5.6	4.5	
	18	5.3	45	23	19.1	16.4	14.3	11.5	9.6	7.2	5.7	4.6	
5880- $\frac{1}{2}$ -ETOC40 5430- $\frac{1}{2}$ -ETOC40	10	7.7	48	40	32	27	23	20	16.0	13.3	10.0	8.0	
	12	8.5	50	42	34	28	24	21	16.8	14.0	10.5	8.4	
	14	9.2	51	44	35	29	25	22	17.6	14.7	11.0	8.8	
	16	9.8	53	46	37	31	26	23	18.3	15.3	11.5	9.2	
	18	10.4	54	47	38	32	27	24	18.9	15.7	11.8	9.5	
5880- $\frac{1}{2}$ -ETOC60 5430- $\frac{1}{2}$ -ETOC60	10	11.0	56	49	39	33	28	25	19.4	16.2	12.1	9.7	
	12	12.3	58	52	42	35	30	26	21	17.4	13.1	10.5	
	14	13.4	60	55	44	37	32	28	22	18.4	13.8	11.1	
	16	14.5	61	58	47	39	33	29	23	19.5	14.6	11.7	
	18	15.5	63	61	49	41	35	31	24	20	15.2	12.2	
20	16.3	64	63	51	42	36	32	25	21	15.8	12.7		
25	17.3	65	66	53	44	38	33	26	22	16.5	13.2		
30	18.0	66	72	57	48	41	36	29	24	17.9	14.4		

P.S.I. = PRESSURE IN LBS. PER SQUARE INCH
 G.P.M. = CAPACITY IN GALLONS PER MINUTE
 W' = SPRAY COVERAGE IN FEET (SEE DWGS. 5880 & 5430)
 M.P.H. = RKG SPEED IN MILES PER HOUR

CONVERSION FACTORS - TO OBTAIN GALLONAGES OF OTHER SOLUTIONS MULTIPLY BY CONVERSION FACTOR


SOLUTION DATA			CONVERSION FACTOR	SOLUTION DATA			CONVERSION FACTOR
POUNDS PER GALLON	SPECIFIC GRAVITY	TRADE NAME		POUNDS PER GALLON	SPECIFIC GRAVITY	TRADE NAME	
6.5	.78		1.24	9.5	1.14	NITRANA 2	1.02
6.7	.80	DDT IN KEROSENE BASE	1.22	9.9	1.18	NITRANA 4	1.01
7.0	.84		1.20	10.0	1.20	FERAN 16	1.00
7.5	.90	UAS-W	1.16	10.3	1.25	999 ; NFS-50	.99
7.7	.92	UAS-A	1.14	10.5	1.26		.98
8.0	.96	UAS-S	1.12	10.7	1.28	FERAN 81, URAN 28	.97
8.1	.97	UAS-B	1.11	10.8	1.29	URAN 30	.96
8.35	1.00	2,4-D & WATER	1.10	11.0	1.32	URAN 32	.95
8.5	1.02		1.08	11.3	1.35	FERAN 28	.94
8.7	1.04	NITRANA 6 ; URAN 15	1.07	11.5	1.38	NFS-83	.93
9.0	1.08	NITRANA 3 ; URAN 12	1.05	11.8	1.41	SODAN	.92
9.3	1.11	URAN 10	1.04	12.0	1.44		.91

SINCE THE GALLONAGE TABULATION IS BASED ON A 10 LBS. PER GALLON SOLUTION, IT IS NECESSARY TO MULTIPLY THE TABULATED GALLONAGES BY A CONVERSION FACTOR ANY TIME A DIFFERENT WEIGHT SOLUTION IS USED. THE CONVERSION FACTORS LISTED ABOVE ARE BASED ON 60°F-70°F TEMPERATURES. OTHER TRADE NAMES WILL BE ADDED WHEN MADE AVAILABLE. CAUTION: THESE CONVERSION FACTORS ARE TO BE USED ONLY ON TABULATIONS BASED ON A 10 LBS. PER GALLON SOLUTION. DO NOT USE ON TABULATIONS WHICH ARE BASED ON SPRAYING WATER.

EXAMPLE

TO DETERMINE G.P.A. OF SOLUTION WEIGHING 9 LBS. PER GALLON (OR 1.08 SPECIFIC GRAVITY) - WHEN USING A 5880- $\frac{1}{2}$ -ETOC20 BOOMJET AT 60 P.S.I. AND 10 M.P.H. FROM TABLE AT LEFT - COVERAGE IS 8.8 G.P.A. (FOR 10 LBS. PER GAL. SOLUTION) FROM TABLE ABOVE - CONVERSION FACTOR (FOR 9 LBS./GAL. SOLUTION) - 1.05 THEREFORE : 8.8 G.P.A. X 1.05 FACTOR = 9.2 G.P.A. (FOR 9 LBS./GAL. SOLUTION)

FOR DETAILS ON BOOMJET NOZZLES SEE AG. CATALOG & DATA SHEET Nos. 5880 & 5430

DESCRIPTION: GALLONS PER ACRE FOR NO. 5880 & NO. 5430 BOOMJETS BASED ON SPRAYING 10 LBS. PER GALLON SOLUTION -AND CONVERSION FACTORS-		Spraying Systems Co. Spray Nozzles and Accessories P.O. Box 7900 - Wheaton, Il. 60189-7900	
		Rev. No. _____	Data Sheet No. 7040
Ref. _____		SHEET OF _____	