

BOOMJET NOZZLE NO.	PRESSURE IN P.S.I.	CAPACITY IN G.P.M.	GALLONS PER ACRE BASED ON SPRAYING SOLUTION WEIGHING 10 LBS. PER GALLON FOR CONVERSION FACTOR SEE TABLE AT RIGHT																			
			SPRAYING HEIGHT "H" = 30"										SPRAYING HEIGHT "H" = 36"									
			"W" FT.-IN.	2	2½	3	3½	4	5	6	8	10	"W" FT.-IN.	2	2½	3	3½	4	5	6	8	10
4186-½-2TOC02	30	.32	12"	6.5	5.2	4.3	3.7	3.3	2.6	2.2	1.6	1.3	12 3/4"	6.4	5.1	4.3	3.7	3.2	2.6	2.1	1.6	1.3
	35	.34	12 1/2"	6.9	5.5	4.6	3.9	3.4	2.7	2.3	1.7	1.37	12 5/8"	6.7	5.3	4.5	3.8	3.3	2.7	2.2	1.7	1.34
	40	.37	12 1/2"	7.0	5.6	4.7	4.0	3.5	2.8	2.4	1.8	1.4	13 1/8"	6.9	5.5	4.6	3.9	3.5	2.8	2.3	1.79	1.4
	45	.39	13"	7.4	5.9	4.9	4.2	3.7	2.9	2.5	1.85	1.5	13 3/8"	7.2	5.8	4.9	4.1	3.6	2.9	2.4	1.8	1.45
	50	.41	13 1/2"	7.8	6.1	5.1	4.4	3.8	3.1	2.6	1.9	1.6	13 5/8"	7.5	6.0	5.0	4.3	3.8	3.0	2.5	1.9	1.5
60	.45	13 3/4"	8.3	6.7	5.6	4.8	4.2	3.3	2.8	2.1	1.7	13 7/8"	8.2	6.5	5.4	4.7	4.1	3.3	2.7	2.0	1.6	
4186-¼-2TOC03	30	.48	13 1/2"	8.5	6.8	5.7	4.9	4.3	3.4	2.8	2.1	1.7	14 1/8"	8.0	6.4	5.3	4.6	4.0	3.2	2.7	2.0	1.6
	35	.51	14 1/2"	9.0	7.2	6.0	5.1	4.4	3.6	3.0	2.2	1.8	15 1/8"	8.5	6.8	5.7	4.9	4.2	3.4	2.8	2.1	1.7
	40	.55	14 1/2"	9.4	7.5	6.3	5.4	4.7	3.8	3.1	2.3	1.9	15 3/8"	8.9	7.1	5.9	5.1	4.4	3.6	3.0	2.2	1.8
	45	.58	14 3/4"	9.9	7.9	6.6	5.7	5.0	4.0	3.3	2.5	2.0	15 5/8"	9.4	7.5	6.3	5.4	4.7	3.8	3.1	2.3	1.9
	50	.61	14 7/8"	10.4	8.8	6.9	6.0	5.2	4.2	3.5	2.6	2.1	15 7/8"	9.9	7.9	6.6	5.6	4.9	3.9	3.3	2.5	2.0
60	.67	14 7/8"	11.3	9.1	7.5	6.5	5.7	4.5	3.8	2.8	2.3	15 7/8"	10.7	8.6	7.1	6.1	5.4	4.3	3.6	2.7	2.1	
4186-¼-2TOC04	30	.68	14 6/8"	10.8	8.7	7.2	6.2	5.4	4.3	3.6	2.7	2.2	15 4/8"	10.2	8.2	6.8	5.8	5.1	4.1	3.4	2.6	2.0
	35	.68	14 10/16"	11.4	9.1	7.6	6.5	5.7	4.6	3.8	2.9	2.3	15 5/8"	10.8	8.6	7.2	6.1	5.4	4.3	3.6	2.7	2.2
	40	.73	15 1/16"	12.0	9.6	8.0	6.9	6.0	4.8	4.0	3.0	2.4	15 11/16"	11.4	9.1	7.6	6.5	5.7	4.6	3.8	2.8	2.3
	45	.78	15 1/2"	12.7	10.2	8.4	7.2	6.3	5.1	4.2	3.2	2.5	16"	12.0	9.6	8.0	6.9	6.0	4.8	4.0	3.0	2.4
	50	.82	15 3/4"	13.2	10.6	8.8	7.6	6.6	5.3	4.4	3.3	2.7	16 1/8"	12.6	10.1	8.4	7.2	6.3	5.0	4.2	3.2	2.5
60	.89	15 3/4"	14.4	11.5	9.6	8.2	7.2	5.8	4.8	3.6	2.9	16 1/2"	13.7	10.9	9.1	7.8	6.8	5.5	4.6	3.4	2.7	
4186-¼-2TOC06	30	.85	15 5/8"	15.2	12.1	10.1	8.7	7.6	6.1	5.1	3.8	3.0	17 1/8"	13.8	11.0	9.2	7.9	6.9	5.5	4.6	3.4	2.8
	35	1.0	15 9/8"	16.2	12.9	10.8	9.2	8.1	6.5	5.4	4.1	3.2	17 5/8"	14.8	11.8	9.8	8.4	7.4	5.9	4.9	3.7	3.0
	40	1.1	15 11/16"	17.1	13.6	11.4	9.8	8.5	6.8	5.7	4.3	3.4	17 9/8"	15.6	12.5	10.4	8.9	7.8	6.2	5.2	3.9	3.1
	45	1.17	16"	18.1	14.5	12.1	10.3	9.0	7.2	6.0	4.5	3.6	17 6/8"	16.5	13.2	11.0	9.4	8.3	6.6	5.5	4.1	3.3
	50	1.2	16 1/8"	18.9	15.1	12.5	10.8	9.4	7.5	6.3	4.7	3.8	17 7/8"	17.2	13.8	11.5	9.9	8.6	6.9	5.7	4.3	3.4
60	1.3	16 1/4"	21	16.5	13.8	11.8	10.4	8.3	6.9	5.2	4.1	17 7/8"	18.8	15.1	12.5	10.8	9.4	7.5	6.3	4.7	3.8	
4186-¼-2TOC08	30	1.3	15 9/8"	20	15.9	13.9	11.4	10.0	8.0	6.6	5.0	4.0	17 5/8"	18.0	14.4	12.0	10.3	9.0	7.2	6.0	4.5	3.6
	35	1.4	16"	21	16.9	14.1	12.1	10.5	8.4	7.0	5.3	4.2	17 5/8"	19.1	15.3	12.8	10.9	9.6	7.7	6.4	4.8	3.8
	40	1.5	16 2/8"	22	17.9	14.9	12.7	11.1	8.9	7.4	5.6	4.5	17 10/8"	20	16.2	13.5	11.6	10.1	8.1	6.8	5.1	4.1
	45	1.55	16 3/8"	24	18.9	15.7	13.5	11.8	9.4	7.9	5.9	4.7	17 11/8"	21	17.1	14.3	12.2	10.7	8.6	7.1	5.4	4.3
	50	1.6	16 1/4"	25	19.8	16.5	14.2	12.4	9.9	8.3	6.2	5.0	18"	22	18.0	15.0	12.8	11.2	9.0	7.5	5.6	4.5
60	1.8	16 1/4"	27	22	18.1	15.5	13.6	10.7	9.0	6.8	5.4	18 1/8"	25	19.7	16.4	14.1	12.3	9.9	8.2	6.2	4.9	
4186-¼-2TOC12	30	1.9	15 9/8"	30	24	20	17.1	14.9	11.9	9.9	7.5	6.0	17 5/8"	27	22	18.0	15.4	13.5	10.8	9.0	6.8	5.4
	35	2.1	16"	32	25	21	18.1	15.9	12.7	10.6	7.9	6.3	17 5/8"	29	23	19.2	16.5	14.4	11.5	9.6	7.2	5.8
	40	2.2	16 2/8"	34	27	22	19.2	16.8	13.4	11.2	8.4	6.7	17 10/8"	31	24	20	17.4	15.3	12.1	10.2	7.6	6.1
	45	2.3	16 3/8"	36	28	24	20	17.8	14.2	11.8	8.9	7.1	17 11/8"	32	26	21	18.4	16.1	12.9	10.7	8.1	6.5
	50	2.5	16 1/4"	37	30	25	21	18.6	14.8	12.4	9.3	7.4	17 11/8"	34	27	23	19.4	17.0	13.6	11.3	8.5	6.8
60	2.7	16 1/4"	41	33	27	23	20	16.3	13.6	10.2	8.2	18"	37	30	25	21	18.5	14.8	12.3	9.3	7.4	

CONVERSION FACTORS TO OBTAIN GALLONAGES OF OTHER SOLUTIONS MULTIPLY TABULATED VALUES BY CONVERSION FACTOR			
SOLUTION DATA			
POUNDS PER GALLON	SPECIFIC GRAVITY	TRADE NAME	CONVERSION FACTOR
6.7	.80	DDT IN KEROSENE BASE	1.22
7.0	.84		1.20
7.5	.90	UAS-W	1.16
7.7	.92	UAS-A	1.14
8.0	.96	UAS-S	1.12
8.1	.97	UAS-B	1.11
8.35	1.00	2,4-D IN WATER	1.10
8.5	1.02		1.08
8.7	1.04	NITRANA 6 ; URAN 15	1.07
9.0	1.08	NITRANA 3 ; URAN 12	1.05
9.3	1.11	URAN 10	1.04
9.5	1.14	NITRANA 2	1.02
9.9	1.18	NITRANA 4	1.01
10.0	1.20	FERAN 16	1.00
10.3	1.23	999 ; NFS-50	.99
10.5	1.26		.98
10.7	1.28	FERAN 21 ; URAN 28	.97
10.8	1.29	URAN 30	.96
11.0	1.32	URAN 32	.95
11.3	1.35	FERAN 28	.94
11.5	1.38	NFS-83	.93
11.8	1.41	SODAN	.92

SINCE THE TABULATED GALLONAGES ARE BASED ON A 10 LBS. PER GALLON SOLUTION, IT IS NECESSARY TO MULTIPLY THESE GALLONAGES BY A CONVERSION FACTOR ANY TIME A DIFFERENT WEIGHT SOLUTION IS SPRAYED.

CAUTION: DO NOT USE THESE CONVERSION FACTORS ON TABULATIONS WHICH ARE BASED ON SPRAYING WATER.

THE LISTED CONVERSION FACTORS ARE BASED ON 60°F.-72°F. OTHER TRADE NAMES WILL BE ADDED WHEN MADE AVAILABLE.

PS.I. = PRESSURE IN LBS. PER SQUARE INCH
G.P.M. = CAPACITY IN GALLONS PER MINUTE
"W" = SPRAY COVERAGE "SEE TABLE AT RIGHT"
M.P.H. = RIG SPEED IN MILES PER HOUR

EXAMPLE

TO DETERMINE G.P.A. OF SOLUTION WEIGHING 9 LBS. PER GALLON (OR 1.08 SPECIFIC GRAVITY) - USING A 4186-¼-2TOC12 AT 60 P.S.I., 10 M.P.H AND 30" SPRAYING HEIGHT.

FROM TABLE ABOVE - COVERAGE IS 8.2 G.P.M. (FOR 10 LBS. PER GAL. SOLUTION)
FROM FACTOR TABLE - CONVERSION FACTOR = 1.05 (FOR 9 LBS. PER GAL. SOLUTION)

THEREFORE: 8.2 G.P.A. X 1.05 FACTOR = 8.6 G.P.A. (FOR 9 LBS. PER GALLON SOLUTION)

DESCRIPTION:

GALLONS PER ACRE FOR
NO.4186-BOOMJET
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.

7050

Ref.

SHEET OF