

FIELDJET NO.	PRESSURE IN P.S.I.	CAPACITY IN G.P.M.	W ¹ 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.																																																				
1/4 KLC-9	10	.82	16	12.7	10.2	8.5	7.3	6.4	5.1	4.2	3.2	2.9	12	.90	16 1/2	13.6	10.8	9.0	7.7	6.8	5.4	4.5	3.4	2.7	14	.97	17	14.1	11.3	9.4	8.1	7.1	5.6	4.7	3.5	2.8	16	1.04	17 1/2	14.8	11.8	9.9	8.5	7.4	5.9	4.9	3.7	2.9	18	1.10	18	15.4	12.3	10.3	8.8	7.7	6.2	5.1	3.8	3.1				
	20	1.16	18 1/2	15.9	12.7	10.6	9.1	8.0	6.4	5.3	4.0	3.2	25	1.30	19 1/2	17.9	13.8	11.6	9.9	8.7	6.9	5.8	4.3	3.5	30	1.42	19	18.5	14.8	12.3	10.6	9.3	7.4	6.2	4.6	3.7	35	1.54	20	19.0	15.2	12.7	10.9	9.5	7.6	6.3	4.7	3.8	40	1.64	21	19.3	15.4	12.9	11.0	9.7	7.7	6.4	4.8	3.9				
	1/4 KLC-18	10	1.6	18	21.5	18.0	15.0	12.9	11.3	9.0	7.5	5.6	4.5	12	1.8	18 1/2	24.0	19.2	16.0	13.7	12.0	9.6	8.0	6.0	4.8	14	1.9	19	25.4	20	16.8	14.5	12.7	10.2	8.5	6.4	5.1	16	2.1	19 1/2	26.6	21	17.7	15.2	13.3	10.7	8.9	6.7	5.3	18	2.2	20	27.6	22	18.4	15.9	13.8	11.1	9.2	6.9	5.5			
		20	2.3	20	28.7	23	18.1	16.4	14.4	11.5	9.6	7.2	5.7	25	2.6	20 1/2	31.2	25	17.9	15.6	12.5	10.4	7.8	6.2	30	2.8	21	32.4	27	19.1	16.7	13.4	11.1	8.4	6.6	35	3.1	21 1/2	35.0	28	20	17.5	14.0	11.7	8.8	7.0	40	3.3	22	35.9	29	21	18.4	14.7	12.3	9.2	7.4							
		1/4 KLC-36	10	3.3	19	42.6	34	28	24	21	17.1	14	10.7	8.5	12	3.6	19 1/2	43.8	36	30	26	23	18.2	15	11.3	9.1	14	3.9	20	47.6	38	32	27	24	19.1	16	11.9	9.5	16	4.2	21	48.9	39	33	28	25	20	16.4	12.3	9.9	18	4.4	21 1/2	50.9	41	34	29	25.5	20.4	17.0	12.7	10.2		
			20	4.8	22	52.1	42	35	30	26	21	17.4	13.0	10.4	25	5.2	23	56.1	45	37	32	28	22	18.7	14.0	11.2	30	5.7	24	58.6	47	39	34	29	23	19.6	14.7	11.7	35	6.1	25	60.6	48	40	35	30	24	20	15.2	12.1	40	6.6	26	62.3	50	42	36	31	25	21	15.6	12.5		
			1/4 KLC-72	10	6.6	21	78	62	52	44	39	31	26	19.4	15.3	12	7.2	22	82	66	55	47	41	33	27	20	16.4	14	7.8	22 1/2	86	69	57	49	43	34	28	21	17.2	16	8.3	23	88	70	59	50	44	35	29	22	17.6	18	8.8	24	90	72	60	51	45	36	30	22.5	18.0	
				20	9.3	25	92	74	61	52	46	37	31	23	18.4	25	10.4	27	95	76	63	54	48	38	32	24	19.0	30	11.4	29	97	78	65	55	49	39	33	24.5	19.4	35	12.3	30	102	81	68	58	51	41	34	25	20	40	13.2	31	105	84	70	60	53	42	35	26	21	
				3/4 KLC-108	10	8.9	21	116	93	77	66	58	46	38	29	23	12	10.8	23	118	95	79	67	59	47	39	28.5	24	14	11.7	24	121	96	80	69	60	48	40	30	24.2	16	12.5	25	122	97	81	69	61	49	40.5	30.5	24.4	18	13.2	27	123	98	82	70	61.5	49.5	41	31	24.6
					20	14.0	28	125	99	83	71	62	50	41.5	31.3	24.7	25	15.6	31	126	101	84	72	63	50.5	42	31.7	25	30	17.1	33	128	102	85	73	64	51	43	32	26	35	18.5	35	132	106	88	75	66	53	44	33	26.4	40	19.8	36	136	109	91	78	68	54	45	34	27

P.S.I. = PRESSURE IN LBS. PER SQUARE INCH
 G.P.M. = CAPACITY IN GALLONS PER MINUTE
 W¹ = SPRAY COVERAGE IN FEET (SEE DWG. 6797)
 M.P.H. = RIG 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
ROUNDS PER GALLON	SPECIFIC GRAVITY	TRADE NAME		ROUNDS 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	1.23	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 21 ; URAN 28	.97
8.1	.97	UAS-B	1.11	10.8	1.29	URAN 30	.96
8.35	1.00	2,4-D AND 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 9 ; URAN 12	1.05	11.8	1.41	SODAN	.92
9.5	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 ARE LISTED ABOVE AND ARE BASED ON 60°F. - 72°F. TEMPERATURES. OTHER TRADE NAMES WILL BE ADDED WHEN MADE AVAILABLE.

CAUTION: THESE CONVERSION FACTORS ARE ONLY TO BE USED ON TABULATIONS WHICH ARE BASED ON A 10 LB. 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 1/4 KLC 36 FIELDJET AT 40 P.S.I. - AT 5 M.P.H.

FROM TABLE AT LEFT - COVERAGE IS 25 G.P.A. (FOR 10 LB./GAL. SOLUTION)
 FROM TABLE ABOVE - CONVERSION FACTOR (FOR 9 LB./GAL. SOLUTION) = 1.05
 THEREFORE: 25 G.P.A. X 1.05 FACTOR = 26 G.P.A. (FOR 9 LB./GAL. SOLUTION)

FOR DETAILS ON FIELDJET NOZZLES SEE DATA SHEET 6797

DESCRIPTION:

GALLONS PER ACRE FOR
 KLC - FIELDJET NOZZLES
 BASED ON SPRAYING
 10 LBS./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.

7030

Ref.

SHEET OF