

# WOOFTER CONSTRUCTION & IRRIGATION

NOVEMBER 02, 2016

WISH-85141

CUSTOMER : TERRY HOCKERSMITH

LINDSAY GEN II - 90  
10 TOWER - 1801.47 FT  
SYSTEM 1000 GPM @ 40 PSI

P.O. NO. : 35991

SENNINGER UP3 LDN SPRAY NOZZLES  
SENNINGER 10 PSI REGULATORS  
NO ENDGUN  
ELEVATION 15 FT UP, 0 FT DOWN

LEGAL : SECTION 15-11-32

1965 THIELEN AVENUE

COLBY, KANSAS 67701

(785)462-8653

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## WARRANTY

WATER APPLICATION UNIFORMITY OBTAINED WITH THIS SYSTEM CAN BE ADVERSELY AFFECTED BY MANY VARIABLES INCLUDING THE IMPROPER MAKEUP OR INSTALLATION OF THE SPRINKLER OR SPRAY NOZZLE PACKAGE, OBSTRUCTED NOZZLES, MAINTAINING INCORRECT PIVOT PRESSURE, UNFAVORABLE CLIMATIC CONDITIONS, TIGHT AND/OR SLOPING SOILS, IMPROPER END GUN ARC SETTINGS, ERRATIC AND IMPROPER OPERATING SPEED OF THE SYSTEM, POOR QUALITY OF WATER WITH ABRASIVES, CORROSIVES, AND/OR SOLIDS WHICH CAN CAUSE PLUGGING AND JAMMING, AS WELL AS INHERENT VARIABLES IN THE MANY COMPONENTS COMPRISING THE SYSTEM. THEREFORE WESTERN IRRIGATION SUPPLY HOUSE, INC., MAKES NO WARRANTY AS TO THE UNIFORMITY OF COVERAGE OBTAINED FROM THIS WATER APPLICATION PRINTOUT OTHER THAN ITS MATHEMATICAL ACCURACY.

IT IS THE RESPONSIBILITY OF THE END USER TO DETERMINE IF ANY INCOMPATIBILITY EXISTS BETWEEN THE WATER DISTRIBUTION DEVICES AND THE CROP, THE SOIL, AND THE PHYSICAL STRUCTURE OF THE MECHANICAL MOVE SYSTEM. WESTERN IRRIGATION SUPPLY HOUSE, INC., THEREFORE, DISCLAIMS ANY LIABILITY FOR DAMAGES DUE TO FAILURE OF THE SYSTEM TO PERFORM AS CONTEMPLATED.

FIGURES PRESENTED ON THIS COMPUTER PRINTOUT ARE BASED ON THE FOLLOWING:

1. DATA FURNISHED TO WESTERN IRRIGATION SUPPLY HOUSE, INC., ON PIPE LENGTH, DIAMETER, SURFACE FINISH, OUTLET SPACINGS, WATER FLOW, PIVOT PRESSURE AND ALL OTHER APPLICABLE INFORMATION.
2. THERE IS 100% WATER APPLICATION EFFICIENCY (ZERO WIND VELOCITY AND NO EVAPORATION).
3. PIVOT PRESSURE IS MEASURED ON THE MAIN HORIZONTAL DISTRIBUTION PIPE JUST AFTER THE LAST ELBOW.
4. MAIN PIPE PRESSURE IS CALCULATED AS IF THE PIVOT IS ALWAYS ON LEVEL GROUND.
5. SPRINKLER OR SPRAY NOZZLE BASE PRESSURE MAY BE LESS THAN MAIN LINE PIPE PRESSURE DUE TO THE USE OF PRESSURE REGULATORS. WHERE DROP PIPES ARE USED THE STATIC HEAD IS ADDED TO AND FRICTION LOSS IS SUBTRACTED FROM THE MAIN LINE PIPE PRESSURE TO DETERMINE INLET PSI. REGULATORS ARE CONSIDERED MOUNTED AT THE SAME HEIGHT AS THE SPRINKLING DEVICE UNLESS NOTED.

DEALER

WOOFTER CONSTRUCTION & IRRIGATION  
 1965 THIELEN AVENUE  
 COLBY, KANSAS 67701

IRRIGATOR

TERRY HOCKERSMITH  
 SECTION 15-11-32  
 35991

TOTAL TARGET GPM	1000.00	FRICTION FACTOR USED	138	SPANS	LENGTH	PIPE I.D.
TOP OF PIVOT PRESSURE	40.00	TOTAL LENGTH	1801.47	1	181.60	6.395
NO ENDGUN		NUMBER OF TOWERS	10	5	179.00	6.395
NUMBER OF OUTLETS	252	NUMBER OF SPRINKLERS	240	1	135.00	6.395
				3	179.00	6.395
SENNINGER UP3 LDN SPRAY NOZZLES - CONCAVE 24 DEEP GROOVED PADS				OH	44.87	5.369
SENNINGER PSR-2 10 PSI SERIES REGULATORS					8.00	0.824
DROPS AVERAGE 10 FT OF .75 I.D. FLEXIBLE HOSE PLUS 24 INCH SCHEDULE 40 GALVANIZED WEIGHT						
ELEVATION IS 15 FT UP AND 0 FT DOWN						

## CAUTIONS AND WARNINGS

1. Inadequate crop clearance and/or structural interference may cause poor water distribution, resulting in decreased uniformity and possible streaking.
2. Over watering at beginning of system due to practical limitations on smallest nozzle sizes available and/or allowable for proper operation.
3. This system designed for minimum pressure. Failure to deliver indicated pressure at the top of pivot point will adversely affect regulator and/or sprinkler/spray performance. Elevations, pipe sizes and type of drop pipe must be as shown.

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE	SPRK NO.	REG SIZE	PLUG NO.	DROP LENGTH
1		2.92	-	-	-	-	-	-	-	-	1
2		7.76	-	-	-	-	-	-	-	-	2
3		15.26	-	-	-	-	-	-	-	-	3
4	22.59	22.59	0.21	0.59	39.26	11.40	LD NOZ UP3 5 BEIGE	1	SPSR2-10		138
5	7.34	29.93	0.13	0.59	38.96	11.40	LD NOZ UP3 5 BEIGE	2	SPSR2-10		138
6	7.33	37.26	0.17	0.59	38.68	11.40	LD NOZ UP3 5 BEIGE	3	SPSR2-10		144
7	7.50	44.76	0.20	0.59	38.41	11.40	LD NOZ UP3 5 BEIGE	4	SPSR2-10		144
8	7.00	51.76	0.23	0.59	38.17	11.40	LD NOZ UP3 5 BEIGE	5	SPSR2-10		150
9	7.50	59.26	0.27	0.59	37.93	11.40	LD NOZ UP3 5 BEIGE	6	SPSR2-10		150
10	7.33	66.59	0.30	0.59	37.71	11.40	LD NOZ UP3 5 BEIGE	7	SPSR2-10		156
11	7.34	73.93	0.33	0.59	37.51	11.40	LD NOZ UP3 5 BEIGE	8	SPSR2-10		156
12	7.33	81.26	0.37	0.59	37.33	11.40	LD NOZ UP3 5 BEIGE	9	SPSR2-10		156
13	7.50	88.76	0.39	0.59	37.16	11.40	LD NOZ UP3 5 BEIGE	10	SPSR2-10		156
14	7.00	95.76	0.43	0.59	37.01	11.40	LD NOZ UP3 5 BEIGE	11	SPSR2-10		156
15	7.50	103.26	0.47	0.59	36.87	11.40	LD NOZ UP3 5 BEIGE	12	SPSR2-10		156
16	7.33	110.59	0.50	0.59	36.76	11.40	LD NOZ UP3 5 BEIGE	13	SPSR2-10		156
17	7.34	117.93	0.53	0.59	36.65	11.40	LD NOZ UP3 5 BEIGE	14	SPSR2-10		156
18	7.33	125.26	0.57	0.59	36.57	11.40	LD NOZ UP3 5 BEIGE	15	SPSR2-10		150
19	7.50	132.76	0.59	0.59	36.50	11.40	LD NOZ UP3 5 BEIGE	16	SPSR2-10		150
20	7.00	139.76	0.62	0.59	36.44	11.40	LD NOZ UP3 5 BEIGE	17	SPSR2-10		144
21	7.50	147.26	0.67	0.72	36.41	11.40	LD NOZ UP3 5.5 BEIGE	18	SPSR2-10		144
22	7.33	154.59	0.69	0.72	36.39	11.40	LD NOZ UP3 5.5 BEIGE	19	SPSR2-10		138
23	7.34	161.93	0.73	0.72	36.38	11.40	LD NOZ UP3 5.5 BEIGE	20	SPSR2-10		138
24	7.33	169.26	0.77	0.72	36.39	11.40	LD NOZ UP3 5.5 BEIGE	21	SPSR2-10		132
25	7.50	176.76	0.95	1.00	36.30	11.40	LD NOZ UP3 6.5 GOLD	22	SPSR2-10		126
TOWER 1	181.60	181.60									
26		182.59	-	-	-	-	-	-	-	-	4
27	10.00	186.76	1.00	1.00	36.09	11.40	LD NOZ UP3 6.5 GOLD	23	SPSR2-10		126
28	7.50	194.26	0.88	0.85	35.83	11.40	LD NOZ UP3 6 GOLD	24	SPSR2-10		132
29	7.33	201.59	0.91	0.85	35.52	11.40	LD NOZ UP3 6 GOLD	25	SPSR2-10		138
30	7.34	208.93	0.94	1.00	35.23	11.40	LD NOZ UP3 6.5 GOLD	26	SPSR2-10		138
31	7.33	216.26	0.98	1.00	34.95	11.40	LD NOZ UP3 6.5 GOLD	27	SPSR2-10		144
32	7.50	223.76	0.99	1.00	34.69	11.40	LD NOZ UP3 6.5 GOLD	28	SPSR2-10		144
33	7.00	230.76	1.03	1.00	34.45	11.40	LD NOZ UP3 6.5 GOLD	29	SPSR2-10		150
34	7.50	238.26	1.08	1.00	34.22	11.40	LD NOZ UP3 6.5 GOLD	30	SPSR2-10		150
35	7.33	245.59	1.10	1.16	34.01	11.40	LD NOZ UP3 7 LIME	31	SPSR2-10		156
36	7.34	252.93	1.14	1.16	33.81	11.40	LD NOZ UP3 7 LIME	32	SPSR2-10		156
37	7.33	260.26	1.18	1.16	33.63	11.40	LD NOZ UP3 7 LIME	33	SPSR2-10		156
38	7.50	267.76	1.19	1.16	33.47	11.40	LD NOZ UP3 7 LIME	34	SPSR2-10		156
39	7.00	274.76	1.22	1.16	33.33	11.40	LD NOZ UP3 7 LIME	35	SPSR2-10		156
40	7.50	282.26	1.28	1.35	33.20	11.40	LD NOZ UP3 7.5 LIME	36	SPSR2-10		156
41	7.33	289.59	1.30	1.35	33.08	11.40	LD NOZ UP3 7.5 LIME	37	SPSR2-10		156
42	7.34	296.93	1.33	1.35	32.99	11.40	LD NOZ UP3 7.5 LIME	38	SPSR2-10		156
43	7.33	304.26	1.38	1.35	32.91	11.40	LD NOZ UP3 7.5 LIME	39	SPSR2-10		150
44	7.50	311.76	1.38	1.35	32.84	11.40	LD NOZ UP3 7.5 LIME	40	SPSR2-10		150
45	7.00	318.76	1.42	1.35	32.80	11.40	LD NOZ UP3 7.5 LIME	41	SPSR2-10		144
46	7.50	326.26	1.48	1.53	32.77	11.40	LD NOZ UP3 8 LAVENDER	42	SPSR2-10		144
47	7.33	333.59	1.50	1.53	32.76	11.40	LD NOZ UP3 8 LAVENDER	43	SPSR2-10		138

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE	SPRK NO.	REG SIZE	PLUG NO.	DROP LENGTH
48	7.34	340.93	1.53	1.53	32.76	11.40	LD NOZ UP3 8 LAVENDER	44	SPSR2-10		138
49	7.33	348.26	1.58	1.53	32.78	11.40	LD NOZ UP3 8 LAVENDER	45	SPSR2-10		132
50	7.50	355.76	1.91	1.93	32.69	11.40	LD NOZ UP3 9 GREY	46	SPSR2-10		126
TOWER 2	179.00	360.60									
51		361.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	5
52	10.00	365.76	1.96	1.93	32.50	11.40	LD NOZ UP3 9 GREY	47	SPSR2-10		126
53	7.50	373.26	1.70	1.73	32.25	11.40	LD NOZ UP3 8.5 LAVENDER	48	SPSR2-10		132
54	7.33	380.59	1.71	1.73	31.95	11.40	LD NOZ UP3 8.5 LAVENDER	49	SPSR2-10		138
55	7.34	387.93	1.74	1.73	31.66	11.40	LD NOZ UP3 8.5 LAVENDER	50	SPSR2-10		138
56	7.33	395.26	1.80	1.73	31.39	11.40	LD NOZ UP3 8.5 LAVENDER	51	SPSR2-10		144
57	7.50	402.76	1.79	1.73	31.14	11.40	LD NOZ UP3 8.5 LAVENDER	52	SPSR2-10		144
58	7.00	409.76	1.82	1.73	30.91	11.40	LD NOZ UP3 8.5 LAVENDER	53	SPSR2-10		150
59	7.50	417.26	1.90	1.93	30.69	11.40	LD NOZ UP3 9 GREY	54	SPSR2-10		150
60	7.33	424.59	1.91	1.93	30.49	11.40	LD NOZ UP3 9 GREY	55	SPSR2-10		156
61	7.34	431.93	1.94	1.93	30.30	11.40	LD NOZ UP3 9 GREY	56	SPSR2-10		156
62	7.33	439.26	2.00	1.93	30.13	11.40	LD NOZ UP3 9 GREY	57	SPSR2-10		156
63	7.50	446.76	1.98	1.93	29.98	11.40	LD NOZ UP3 9 GREY	58	SPSR2-10		156
64	7.00	453.76	2.02	1.93	29.85	11.40	LD NOZ UP3 9 GREY	59	SPSR2-10		156
65	7.50	461.26	2.10	2.16	29.73	11.38	LD NOZ UP3 9.5 GREY	60	SPSR2-10		156
66	7.33	468.59	2.11	2.16	29.63	11.38	LD NOZ UP3 9.5 GREY	61	SPSR2-10		156
67	7.34	475.93	2.14	2.16	29.54	11.38	LD NOZ UP3 9.5 GREY	62	SPSR2-10		156
68	7.33	483.26	2.20	2.16	29.48	11.38	LD NOZ UP3 9.5 GREY	63	SPSR2-10		150
69	7.50	490.76	2.18	2.16	29.42	11.38	LD NOZ UP3 9.5 GREY	64	SPSR2-10		150
70	7.00	497.76	2.21	2.16	29.39	11.38	LD NOZ UP3 9.5 GREY	65	SPSR2-10		144
71	7.50	505.26	2.30	2.39	29.37	11.36	LD NOZ UP3 10 TURQUOISE	66	SPSR2-10		144
72	7.33	512.59	2.30	2.39	29.37	11.36	LD NOZ UP3 10 TURQUOISE	67	SPSR2-10		138
73	7.34	519.93	2.34	2.39	29.39	11.36	LD NOZ UP3 10 TURQUOISE	68	SPSR2-10		138
74	7.33	527.26	2.40	2.39	29.42	11.36	LD NOZ UP3 10 TURQUOISE	69	SPSR2-10		132
75	7.50	534.76	2.87	2.89	29.35	11.31	LD NOZ UP3 11 YELLOW	70	SPSR2-10		126
TOWER 3	179.00	539.60									
76		540.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	6
77	10.00	544.76	2.92	2.89	29.17	11.31	LD NOZ UP3 11 YELLOW	71	SPSR2-10		126
78	7.50	552.26	2.51	2.63	28.94	11.34	LD NOZ UP3 10.5 TURQUOISE	72	SPSR2-10		132
79	7.33	559.59	2.51	2.63	28.65	11.34	LD NOZ UP3 10.5 TURQUOISE	73	SPSR2-10		138
80	7.34	566.93	2.55	2.63	28.38	11.34	LD NOZ UP3 10.5 TURQUOISE	74	SPSR2-10		138
81	7.33	574.26	2.61	2.63	28.12	11.34	LD NOZ UP3 10.5 TURQUOISE	75	SPSR2-10		144
82	7.50	581.76	2.58	2.63	27.88	11.34	LD NOZ UP3 10.5 TURQUOISE	76	SPSR2-10		144
83	7.00	588.76	2.61	2.63	27.67	11.34	LD NOZ UP3 10.5 TURQUOISE	77	SPSR2-10		150
84	7.50	596.26	2.71	2.63	27.46	11.34	LD NOZ UP3 10.5 TURQUOISE	78	SPSR2-10		150
85	7.33	603.59	2.71	2.63	27.28	11.34	LD NOZ UP3 10.5 TURQUOISE	79	SPSR2-10		156
86	7.34	610.93	2.75	2.63	27.11	11.34	LD NOZ UP3 10.5 TURQUOISE	80	SPSR2-10		156
87	7.33	618.26	2.81	2.89	26.95	11.31	LD NOZ UP3 11 YELLOW	81	SPSR2-10		156
88	7.50	625.76	2.78	2.89	26.81	11.31	LD NOZ UP3 11 YELLOW	82	SPSR2-10		156
89	7.00	632.76	2.81	2.89	26.70	11.31	LD NOZ UP3 11 YELLOW	83	SPSR2-10		156
90	7.50	640.26	2.91	2.89	26.60	11.31	LD NOZ UP3 11 YELLOW	84	SPSR2-10		156
91	7.33	647.59	2.91	2.89	26.51	11.31	LD NOZ UP3 11 YELLOW	85	SPSR2-10		156
92	7.34	654.93	2.94	2.89	26.44	11.31	LD NOZ UP3 11 YELLOW	86	SPSR2-10		156
93	7.33	662.26	3.01	2.89	26.39	11.31	LD NOZ UP3 11 YELLOW	87	SPSR2-10		150

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE	SPRK NO.	REG SIZE	PLUG NO.	DROP LENGTH
94	7.50	669.76	2.97	2.89	26.36	11.31	LD NOZ UP3 11 YELLOW	88	SPSR2-10		150
95	7.00	676.76	3.01	2.89	26.34	11.31	LD NOZ UP3 11 YELLOW	89	SPSR2-10		144
96	7.50	684.26	3.11	3.15	26.34	11.28	LD NOZ UP3 11.5 YELLOW	90	SPSR2-10		144
97	7.33	691.59	3.11	3.15	26.35	11.28	LD NOZ UP3 11.5 YELLOW	91	SPSR2-10		138
98	7.34	698.93	3.14	3.15	26.39	11.28	LD NOZ UP3 11.5 YELLOW	92	SPSR2-10		138
99	7.33	706.26	3.21	3.15	26.44	11.28	LD NOZ UP3 11.5 YELLOW	93	SPSR2-10		132
100	7.50	713.76	3.83	3.73	26.38	11.23	LD NOZ UP3 12.5 RED	94	SPSR2-10		126
TOWER 4	179.00	718.60									
101		719.59	-	-	-	-	-	-	-	-	7
102	10.00	723.76	3.88	3.73	26.23	11.23	LD NOZ UP3 12.5 RED	95	SPSR2-10		126
103	7.50	731.26	3.32	3.44	26.01	11.26	LD NOZ UP3 12 RED	96	SPSR2-10		132
104	7.33	738.59	3.32	3.44	25.74	11.26	LD NOZ UP3 12 RED	97	SPSR2-10		138
105	7.34	745.93	3.35	3.44	25.49	11.26	LD NOZ UP3 12 RED	98	SPSR2-10		138
106	7.33	753.26	3.42	3.44	25.25	11.26	LD NOZ UP3 12 RED	99	SPSR2-10		144
107	7.50	760.76	3.38	3.44	25.03	11.26	LD NOZ UP3 12 RED	100	SPSR2-10		144
108	7.00	767.76	3.41	3.44	24.84	11.26	LD NOZ UP3 12 RED	101	SPSR2-10		150
109	7.50	775.26	3.52	3.44	24.65	11.26	LD NOZ UP3 12 RED	102	SPSR2-10		150
110	7.33	782.59	3.52	3.44	24.48	11.26	LD NOZ UP3 12 RED	103	SPSR2-10		156
111	7.34	789.93	3.55	3.44	24.33	11.26	LD NOZ UP3 12 RED	104	SPSR2-10		156
112	7.33	797.26	3.62	3.73	24.20	11.23	LD NOZ UP3 12.5 RED	105	SPSR2-10		156
113	7.50	804.76	3.57	3.44	24.08	11.26	LD NOZ UP3 12 RED	106	SPSR2-10		156
114	7.00	811.76	3.61	3.73	23.98	11.23	LD NOZ UP3 12.5 RED	107	SPSR2-10		156
115	7.50	819.26	3.72	3.73	23.90	11.23	LD NOZ UP3 12.5 RED	108	SPSR2-10		156
116	7.33	826.59	3.71	3.73	23.83	11.23	LD NOZ UP3 12.5 RED	109	SPSR2-10		156
117	7.34	833.93	3.75	3.73	23.78	11.23	LD NOZ UP3 12.5 RED	110	SPSR2-10		156
118	7.33	841.26	3.82	3.73	23.75	11.23	LD NOZ UP3 12.5 RED	111	SPSR2-10		150
119	7.50	848.76	3.77	3.73	23.74	11.23	LD NOZ UP3 12.5 RED	112	SPSR2-10		150
120	7.00	855.76	3.80	3.73	23.74	11.23	LD NOZ UP3 12.5 RED	113	SPSR2-10		144
121	7.50	863.26	3.92	4.03	23.76	11.20	LD NOZ UP3 13 WHITE	114	SPSR2-10		144
122	7.33	870.59	3.91	4.03	23.80	11.20	LD NOZ UP3 13 WHITE	115	SPSR2-10		138
123	7.34	877.93	3.95	4.03	23.85	11.20	LD NOZ UP3 13 WHITE	116	SPSR2-10		138
124	7.33	885.26	4.02	4.03	23.92	11.20	LD NOZ UP3 13 WHITE	117	SPSR2-10		132
125	7.50	892.76	4.79	4.66	23.89	11.13	LD NOZ UP3 14 BLUE	118	SPSR2-10		126
TOWER 5	179.00	897.60									
126		898.59	-	-	-	-	-	-	-	-	8
127	10.00	902.76	4.84	4.99	23.76	11.10	LD NOZ UP3 14.5 BLUE	119	SPSR2-10		126
128	7.50	910.26	4.13	4.03	23.57	11.20	LD NOZ UP3 13 WHITE	120	SPSR2-10		132
129	7.33	917.59	4.12	4.03	23.32	11.20	LD NOZ UP3 13 WHITE	121	SPSR2-10		138
130	7.34	924.93	4.16	4.03	23.08	11.20	LD NOZ UP3 13 WHITE	122	SPSR2-10		138
131	7.33	932.26	4.24	4.34	22.87	11.17	LD NOZ UP3 13.5 WHITE	123	SPSR2-10		144
132	7.50	939.76	4.17	4.03	22.67	11.20	LD NOZ UP3 13 WHITE	124	SPSR2-10		144
133	7.00	946.76	4.21	4.34	22.50	11.17	LD NOZ UP3 13.5 WHITE	125	SPSR2-10		150
134	7.50	954.26	4.34	4.34	22.33	11.17	LD NOZ UP3 13.5 WHITE	126	SPSR2-10		150
135	7.33	961.59	4.32	4.34	22.18	11.17	LD NOZ UP3 13.5 WHITE	127	SPSR2-10		156
136	7.34	968.93	4.35	4.34	22.05	11.17	LD NOZ UP3 13.5 WHITE	128	SPSR2-10		156
137	7.33	976.26	4.44	4.34	21.94	11.17	LD NOZ UP3 13.5 WHITE	129	SPSR2-10		156
138	7.50	983.76	4.37	4.34	21.85	11.17	LD NOZ UP3 13.5 WHITE	130	SPSR2-10		156
139	7.00	990.76	4.40	4.34	21.77	11.17	LD NOZ UP3 13.5 WHITE	131	SPSR2-10		156

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE	SPRK NO.	REG SIZE	PLUG NO.	DROP LENGTH
140	7.50	998.26	4.54	4.66	21.71	11.13	LD NOZ UP3 14 BLUE	132	SPSR2-10		156
141	7.33	1005.59	4.52	4.66	21.67	11.13	LD NOZ UP3 14 BLUE	133	SPSR2-10		156
142	7.34	1012.93	4.55	4.66	21.64	11.13	LD NOZ UP3 14 BLUE	134	SPSR2-10		156
143	7.33	1020.26	4.63	4.66	21.63	11.13	LD NOZ UP3 14 BLUE	135	SPSR2-10		150
144	7.50	1027.76	4.56	4.66	21.64	11.13	LD NOZ UP3 14 BLUE	136	SPSR2-10		150
145	7.00	1034.76	4.60	4.66	21.66	11.13	LD NOZ UP3 14 BLUE	137	SPSR2-10		144
146	7.50	1042.26	4.73	4.66	21.71	11.13	LD NOZ UP3 14 BLUE	138	SPSR2-10		144
147	7.33	1049.59	4.72	4.66	21.77	11.13	LD NOZ UP3 14 BLUE	139	SPSR2-10		138
148	7.34	1056.93	4.75	4.66	21.84	11.13	LD NOZ UP3 14 BLUE	140	SPSR2-10		138
149	7.33	1064.26	4.83	4.99	21.94	11.10	LD NOZ UP3 14.5 BLUE	141	SPSR2-10		132
150	7.50	1071.76	5.75	5.68	21.92	10.98	LD NOZ UP3 15.5 DK BROWN	142	SPSR2-10		126
TOWER 6	179.00	1076.60									
151		1077.59	-	-	-	-	-	-	-	-	9
152	10.00	1081.76	5.79	5.68	21.83	10.98	LD NOZ UP3 15.5 DK BROWN	143	SPSR2-10		126
153	7.50	1089.26	4.95	4.99	21.60	11.10	LD NOZ UP3 14.5 BLUE	144	SPSR2-10		132
154	7.33	1096.59	4.93	4.99	21.37	11.10	LD NOZ UP3 14.5 BLUE	145	SPSR2-10		138
155	7.34	1103.93	4.96	4.99	21.16	11.10	LD NOZ UP3 14.5 BLUE	146	SPSR2-10		138
156	7.33	1111.26	5.05	4.99	20.98	11.10	LD NOZ UP3 14.5 BLUE	147	SPSR2-10		144
157	7.50	1118.76	4.97	4.99	20.83	11.10	LD NOZ UP3 14.5 BLUE	148	SPSR2-10		144
158	7.00	1125.76	5.00	4.99	20.70	11.10	LD NOZ UP3 14.5 BLUE	149	SPSR2-10		150
159	7.50	1133.26	5.15	4.99	20.59	11.10	LD NOZ UP3 14.5 BLUE	150	SPSR2-10		150
160	7.33	1140.59	5.13	4.99	20.51	11.10	LD NOZ UP3 14.5 BLUE	151	SPSR2-10		150
161	7.34	1147.93	5.16	4.99	20.45	11.10	LD NOZ UP3 14.5 BLUE	152	SPSR2-10		150
162	7.33	1155.26	5.25	5.34	20.42	11.04	LD NOZ UP3 15 DK BROWN	153	SPSR2-10		150
163	7.50	1162.76	5.17	5.34	20.41	11.04	LD NOZ UP3 15 DK BROWN	154	SPSR2-10		150
164	7.00	1169.76	5.20	5.34	20.43	11.04	LD NOZ UP3 15 DK BROWN	155	SPSR2-10		144
165	7.50	1177.26	5.35	5.34	20.47	11.04	LD NOZ UP3 15 DK BROWN	156	SPSR2-10		144
166	7.33	1184.59	5.32	5.34	20.54	11.04	LD NOZ UP3 15 DK BROWN	157	SPSR2-10		138
167	7.34	1191.93	5.36	5.34	20.63	11.04	LD NOZ UP3 15 DK BROWN	158	SPSR2-10		138
168	7.33	1199.26	5.45	5.34	20.75	11.04	LD NOZ UP3 15 DK BROWN	159	SPSR2-10		132
169	7.50	1206.76	6.47	6.41	20.82	10.85	LD NOZ UP3 16.5 ORANGE	160	SPSR2-10		126
TOWER 7	135.00	1211.60									
170		1212.59	-	-	-	-	-	-	-	-	10
171	10.00	1216.76	6.52	6.41	20.75	10.85	LD NOZ UP3 16.5 ORANGE	161	SPSR2-10		126
172	7.50	1224.26	5.56	5.68	20.59	10.98	LD NOZ UP3 15.5 DK BROWN	162	SPSR2-10		132
173	7.33	1231.59	5.54	5.68	20.39	10.98	LD NOZ UP3 15.5 DK BROWN	163	SPSR2-10		138
174	7.34	1238.93	5.57	5.68	20.19	10.98	LD NOZ UP3 15.5 DK BROWN	164	SPSR2-10		138
175	7.33	1246.26	5.66	5.68	20.02	10.98	LD NOZ UP3 15.5 DK BROWN	165	SPSR2-10		144
176	7.50	1253.76	5.57	5.68	19.86	10.98	LD NOZ UP3 15.5 DK BROWN	166	SPSR2-10		144
177	7.00	1260.76	5.60	5.68	19.73	10.98	LD NOZ UP3 15.5 DK BROWN	167	SPSR2-10		150
178	7.50	1268.26	5.76	5.68	19.60	10.98	LD NOZ UP3 15.5 DK BROWN	168	SPSR2-10		150
179	7.33	1275.59	5.73	5.68	19.50	10.98	LD NOZ UP3 15.5 DK BROWN	169	SPSR2-10		156
180	7.34	1282.93	5.76	5.68	19.41	10.98	LD NOZ UP3 15.5 DK BROWN	170	SPSR2-10		156
181	7.33	1290.26	5.86	6.04	19.34	10.91	LD NOZ UP3 16 ORANGE	171	SPSR2-10		156
182	7.50	1297.76	5.76	5.68	19.28	10.98	LD NOZ UP3 15.5 DK BROWN	172	SPSR2-10		156
183	7.00	1304.76	5.79	5.68	19.24	10.98	LD NOZ UP3 15.5 DK BROWN	173	SPSR2-10		156
184	7.50	1312.26	5.96	6.04	19.22	10.91	LD NOZ UP3 16 ORANGE	174	SPSR2-10		156
185	7.33	1319.59	5.93	6.04	19.22	10.91	LD NOZ UP3 16 ORANGE	175	SPSR2-10		156

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE	SPRK NO.	REG SIZE	PLUG NO.	DROP LENGTH
186	7.34	1326.93	5.96	6.04	19.23	10.91	LD NOZ UP3 16 ORANGE	176	SPSR2-10		156
187	7.33	1334.26	6.06	6.04	19.26	10.91	LD NOZ UP3 16 ORANGE	177	SPSR2-10		150
188	7.50	1341.76	5.95	6.04	19.31	10.91	LD NOZ UP3 16 ORANGE	178	SPSR2-10		150
189	7.00	1348.76	5.99	6.04	19.38	10.91	LD NOZ UP3 16 ORANGE	179	SPSR2-10		144
190	7.50	1356.26	6.15	6.04	19.46	10.91	LD NOZ UP3 16 ORANGE	180	SPSR2-10		144
191	7.33	1363.59	6.12	6.04	19.56	10.91	LD NOZ UP3 16 ORANGE	181	SPSR2-10		138
192	7.34	1370.93	6.16	6.04	19.67	10.91	LD NOZ UP3 16 ORANGE	182	SPSR2-10		138
193	7.33	1378.26	6.26	6.40	19.81	10.85	LD NOZ UP3 16.5 ORANGE	183	SPSR2-10		132
194	7.50	1385.76	7.43	7.55	19.84	10.64	LD NOZ UP3 18 PURPLE	184	SPSR2-10		126
TOWER 8	179.00	1390.60									
195		1391.59	-	-	-	-	-	-	-	-	11
196	10.00	1395.76	7.47	7.55	19.80	10.64	LD NOZ UP3 18 PURPLE	185	SPSR2-10		126
197	7.50	1403.26	6.37	6.41	19.66	10.85	LD NOZ UP3 16.5 ORANGE	186	SPSR2-10		132
198	7.33	1410.59	6.33	6.40	19.48	10.85	LD NOZ UP3 16.5 ORANGE	187	SPSR2-10		138
199	7.34	1417.93	6.36	6.41	19.31	10.85	LD NOZ UP3 16.5 ORANGE	188	SPSR2-10		138
200	7.33	1425.26	6.46	6.41	19.16	10.85	LD NOZ UP3 16.5 ORANGE	189	SPSR2-10		144
201	7.50	1432.76	6.35	6.41	19.02	10.85	LD NOZ UP3 16.5 ORANGE	190	SPSR2-10		144
202	7.00	1439.76	6.39	6.41	18.90	10.85	LD NOZ UP3 16.5 ORANGE	191	SPSR2-10		150
203	7.50	1447.26	6.56	6.41	18.80	10.85	LD NOZ UP3 16.5 ORANGE	192	SPSR2-10		150
204	7.33	1454.59	6.53	6.41	18.71	10.85	LD NOZ UP3 16.5 ORANGE	193	SPSR2-10		156
205	7.34	1461.93	6.56	6.41	18.65	10.85	LD NOZ UP3 16.5 ORANGE	194	SPSR2-10		156
206	7.33	1469.26	6.67	6.78	18.59	10.78	LD NOZ UP3 17 DK GREEN	195	SPSR2-10		156
207	7.50	1476.76	6.55	6.41	18.56	10.85	LD NOZ UP3 16.5 ORANGE	196	SPSR2-10		156
208	7.00	1483.76	6.59	6.41	18.54	10.85	LD NOZ UP3 16.5 ORANGE	197	SPSR2-10		156
209	7.50	1491.26	6.78	6.78	18.54	10.78	LD NOZ UP3 17 DK GREEN	198	SPSR2-10		156
210	7.33	1498.59	6.74	6.78	18.56	10.78	LD NOZ UP3 17 DK GREEN	199	SPSR2-10		156
211	7.34	1505.93	6.77	6.78	18.59	10.78	LD NOZ UP3 17 DK GREEN	200	SPSR2-10		156
212	7.33	1513.26	6.88	6.78	18.64	10.78	LD NOZ UP3 17 DK GREEN	201	SPSR2-10		150
213	7.50	1520.76	6.76	6.78	18.71	10.78	LD NOZ UP3 17 DK GREEN	202	SPSR2-10		150
214	7.00	1527.76	6.79	6.78	18.79	10.78	LD NOZ UP3 17 DK GREEN	203	SPSR2-10		144
215	7.50	1535.26	6.98	7.16	18.89	10.71	LD NOZ UP3 17.5 DK GREEN	204	SPSR2-10		144
216	7.33	1542.59	6.93	6.78	19.01	10.78	LD NOZ UP3 17 DK GREEN	205	SPSR2-10		138
217	7.34	1549.93	6.97	6.78	19.15	10.78	LD NOZ UP3 17 DK GREEN	206	SPSR2-10		138
218	7.33	1557.26	7.08	7.16	19.30	10.71	LD NOZ UP3 17.5 DK GREEN	207	SPSR2-10		132
219	7.50	1564.76	8.40	8.35	19.35	10.50	LD NOZ UP3 19 BLACK	208	SPSR2-10		126
TOWER 9	179.00	1569.60									
220		1570.59	-	-	-	-	-	-	-	-	12
221	10.00	1574.76	8.45	8.35	19.33	10.50	LD NOZ UP3 19 BLACK	209	SPSR2-10		126
222	7.50	1582.26	7.20	7.16	19.22	10.71	LD NOZ UP3 17.5 DK GREEN	210	SPSR2-10		132
223	7.33	1589.59	7.15	7.16	19.05	10.71	LD NOZ UP3 17.5 DK GREEN	211	SPSR2-10		138
224	7.34	1596.93	7.19	7.16	18.89	10.71	LD NOZ UP3 17.5 DK GREEN	212	SPSR2-10		138
225	7.33	1604.26	7.30	7.16	18.76	10.71	LD NOZ UP3 17.5 DK GREEN	213	SPSR2-10		144
226	7.50	1611.76	7.17	7.16	18.64	10.71	LD NOZ UP3 17.5 DK GREEN	214	SPSR2-10		144
227	7.00	1618.76	7.21	7.16	18.54	10.71	LD NOZ UP3 17.5 DK GREEN	215	SPSR2-10		150
228	7.50	1626.26	7.41	7.55	18.45	10.64	LD NOZ UP3 18 PURPLE	216	SPSR2-10		150
229	7.33	1633.59	7.35	7.16	18.38	10.71	LD NOZ UP3 17.5 DK GREEN	217	SPSR2-10		156
230	7.34	1640.93	7.40	7.55	18.33	10.64	LD NOZ UP3 18 PURPLE	218	SPSR2-10		156
231	7.33	1648.26	7.50	7.55	18.29	10.64	LD NOZ UP3 18 PURPLE	219	SPSR2-10		156

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE	SPRK NO.	REG SIZE	PLUG NO.	DROP LENGTH
232		7.50	1655.76	7.37	7.55	18.27	10.64 LD NOZ UP3 18 PURPLE	220	SPSR2-10		156
233		7.00	1662.76	7.39	7.55	18.27	10.64 LD NOZ UP3 18 PURPLE	221	SPSR2-10		156
234		7.50	1670.26	7.58	7.55	18.28	10.64 LD NOZ UP3 18 PURPLE	222	SPSR2-10		156
235		7.33	1677.59	7.54	7.55	18.31	10.64 LD NOZ UP3 18 PURPLE	223	SPSR2-10		156
236		7.34	1684.93	7.57	7.55	18.36	10.64 LD NOZ UP3 18 PURPLE	224	SPSR2-10		156
237		7.33	1692.26	7.68	7.55	18.42	10.64 LD NOZ UP3 18 PURPLE	225	SPSR2-10		150
238		7.50	1699.76	7.55	7.55	18.51	10.64 LD NOZ UP3 18 PURPLE	226	SPSR2-10		150
239		7.00	1706.76	7.59	7.55	18.60	10.64 LD NOZ UP3 18 PURPLE	227	SPSR2-10		144
240		7.50	1714.26	7.80	7.95	18.71	10.57 LD NOZ UP3 18.5 PURPLE	228	SPSR2-10		144
241		7.33	1721.59	7.73	7.55	18.84	10.64 LD NOZ UP3 18 PURPLE	229	SPSR2-10		138
242		7.34	1728.93	7.78	7.95	18.99	10.57 LD NOZ UP3 18.5 PURPLE	230	SPSR2-10		138
243		7.33	1736.26	7.88	7.95	19.15	10.57 LD NOZ UP3 18.5 PURPLE	231	SPSR2-10		132
244		7.50	1743.76	8.92	8.76	19.21	10.43 LD NOZ UP3 19.5 BLACK	232	SPSR2-10		126
TOWER 10		179.00	1748.60								
							PIPE ID CHANGES FROM 6.395 TO 5.369				
245		9.21	1752.97	8.98	9.17	19.17	10.35 LD NOZ UP3 20 DK TURQUOISE	233	SPSR2-10		126
246		7.50	1760.47	7.98	7.95	19.11	10.57 LD NOZ UP3 18.5 PURPLE	234	SPSR2-10		126
247		7.33	1767.80	7.93	7.95	19.05	10.57 LD NOZ UP3 18.5 PURPLE	235	SPSR2-10		132
248		7.34	1775.14	7.96	7.95	19.00	10.57 LD NOZ UP3 18.5 PURPLE	236	SPSR2-10		132
249		7.33	1782.47	8.08	7.95	18.94	10.57 LD NOZ UP3 18.5 PURPLE	237	SPSR2-10		132
250		7.50	1789.97	8.26	8.35	18.88	10.50 LD NOZ UP3 19 BLACK	238	SPSR2-10		138
							PIPE ID CHANGES FROM 5.369 TO 0.824				
251		7.50	1797.47	6.31	6.40	18.05	10.85 LD NOZ UP3 16.5 ORANGE	239	SPSR2-10		138
252		4.00	1801.47	5.12	4.99	17.94	11.10 LD NOZ UP3 14.5 BLUE	240	SPSR2-10		138
OVERHANG		52.87	1801.47								

TOTAL GPM = 1000.69

GPA = 4.27

MINIMUM RECOMMENDED REGULATOR INLET PRESSURE IS 15.00 PSI

WITH GRADUATED ELEVATION OF 15.00 FT THE INLET PRESSURE IS 15.69 PSI FOR SPRINKLER 239

THIS POSITION IS THE CLOSEST TO THE MINIMUM RECOMMENDED INLET PRESSURE

HYDRAULICS SUMMARY

TOWER NUMBER	ACRES UNDER SPAN	GPM NEED	ACTUAL GPM	GPM PER ACRE	AVERAGE IN. PER HR DELIVERED UNDER SPAN	36 HR	AVERAGE IN. DELIVERED FOR REVOLUTION TIME		
							48 HR	60 HR	
1	2.38	10.16	13.83	5.82	0.013	0.46	0.62	0.77	
2	7.00	29.91	29.65	4.24	0.009	0.34	0.45	0.56	
3	11.62	49.65	49.27	4.24	0.009	0.34	0.45	0.56	
4	16.24	69.40	68.93	4.24	0.009	0.34	0.45	0.56	
5	20.86	89.14	88.80	4.26	0.009	0.34	0.45	0.56	
6	25.49	108.89	108.41	4.25	0.009	0.34	0.45	0.56	
7	22.28	95.19	94.38	4.24	0.009	0.34	0.45	0.56	
8	33.59	143.53	143.19	4.26	0.009	0.34	0.45	0.57	

9	38.22	163.28	161.69	4.23	0.009	0.34	0.45	0.56
10	42.84	183.02	182.16	4.25	0.009	0.34	0.45	0.56
OVERHANG	13.54	57.84	60.38	4.46	0.010	0.35	0.47	0.59
TOTAL	234.05	1000.00	1000.69	4.28				

**SUMMARY OF SPRINKLERS**

17 LD NOZ UP3 5 BEIGE  
 4 LD NOZ UP3 5.5 BEIGE  
 2 LD NOZ UP3 6 GOLD  
 7 LD NOZ UP3 6.5 GOLD  
 5 LD NOZ UP3 7 LIME  
 6 LD NOZ UP3 7.5 LIME  
 4 LD NOZ UP3 8 LAVENDER  
 6 LD NOZ UP3 8.5 LAVENDER  
 8 LD NOZ UP3 9 GREY  
 6 LD NOZ UP3 9.5 GREY  
 4 LD NOZ UP3 10 TURQUOISE  
 9 LD NOZ UP3 10.5 TURQUOISE  
 11 LD NOZ UP3 11 YELLOW  
 4 LD NOZ UP3 11.5 YELLOW  
 10 LD NOZ UP3 12 RED  
 10 LD NOZ UP3 12.5 RED  
 8 LD NOZ UP3 13 WHITE  
 8 LD NOZ UP3 13.5 WHITE  
 10 LD NOZ UP3 14 BLUE  
 12 LD NOZ UP3 14.5 BLUE  
 7 LD NOZ UP3 15 DK BROWN  
 13 LD NOZ UP3 15.5 DK BROWN  
 10 LD NOZ UP3 16 ORANGE  
 15 LD NOZ UP3 16.5 ORANGE  
 9 LD NOZ UP3 17 DK GREEN  
 9 LD NOZ UP3 17.5 DK GREEN  
 14 LD NOZ UP3 18 PURPLE  
 7 LD NOZ UP3 18.5 PURPLE  
 3 LD NOZ UP3 19 BLACK  
 1 LD NOZ UP3 19.5 BLACK  
 1 LD NOZ UP3 20 DK TURQUOISE

**12 PLUGS**

**TOTAL OF 240 DROPS**  
**LENGTH OF HOSE: 2418.0 FT.**

**SUMMARY OF DROPS**

21 102 IN DROP  
22 108 IN DROP  
43 114 IN DROP  
40 120 IN DROP  
42 126 IN DROP  
72 132 IN DROP  
240 24 IN WEIGHT

**SUMMARY OF REGULATORS**

240 SPSR2-10

**TOTAL OF 240 REGULATORS**

## NOZZLE POSITION CHART

LD NOZ UP3 5 BEIGE	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17
LD NOZ UP3 5.5 BEIGE	18, 19, 20, 21
LD NOZ UP3 6 GOLD	24, 25
LD NOZ UP3 6.5 GOLD	22, 23, 26, 27, 28, 29, 30
LD NOZ UP3 7 LIME	31, 32, 33, 34, 35
LD NOZ UP3 7.5 LIME	36, 37, 38, 39, 40, 41
LD NOZ UP3 8 LAVENDER	42, 43, 44, 45
LD NOZ UP3 8.5 LAVENDER	48, 49, 50, 51, 52, 53
LD NOZ UP3 9 GREY	46, 47, 54, 55, 56, 57, 58, 59
LD NOZ UP3 9.5 GREY	60, 61, 62, 63, 64, 65
LD NOZ UP3 10 TURQUOISE	66, 67, 68, 69
LD NOZ UP3 10.5 TURQUOISE	72, 73, 74, 75, 76, 77, 78, 79, 80
LD NOZ UP3 11 YELLOW	70, 71, 81, 82, 83, 84, 85, 86, 87, 88, 89
LD NOZ UP3 11.5 YELLOW	90, 91, 92, 93
LD NOZ UP3 12 RED	96, 97, 98, 99, 100, 101, 102, 103, 104, 106
LD NOZ UP3 12.5 RED	94, 95, 105, 107, 108, 109, 110, 111, 112, 113
LD NOZ UP3 13 WHITE	114, 115, 116, 117, 120, 121, 122, 124
LD NOZ UP3 13.5 WHITE	123, 125, 126, 127, 128, 129, 130, 131
LD NOZ UP3 14 BLUE	118, 132, 133, 134, 135, 136, 137, 138, 139, 140
LD NOZ UP3 14.5 BLUE	119, 141, 144, 145, 146, 147, 148, 149, 150, 151, 152, 240
LD NOZ UP3 15 DK BROWN	153, 154, 155, 156, 157, 158, 159
LD NOZ UP3 15.5 DK BROWN	142, 143, 162, 163, 164, 165, 166, 167, 168, 169, 170, 172, 173
LD NOZ UP3 16 ORANGE	171, 174, 175, 176, 177, 178, 179, 180, 181, 182
LD NOZ UP3 16.5 ORANGE	160, 161, 183, 186, 187, 188, 189, 190, 191, 192, 193, 194, 196, 197, 239
LD NOZ UP3 17 DK GREEN	195, 198, 199, 200, 201, 202, 203, 205, 206
LD NOZ UP3 17.5 DK GREEN	204, 207, 210, 211, 212, 213, 214, 215, 217
LD NOZ UP3 18 PURPLE	184, 185, 216, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 229
LD NOZ UP3 18.5 PURPLE	228, 230, 231, 234, 235, 236, 237
LD NOZ UP3 19 BLACK	208, 209, 238
LD NOZ UP3 19.5 BLACK	232
LD NOZ UP3 20 DK TURQUOISE	233

PRECIPITATION CHART FOR FULL CIRCLE

WISH-85141

NOVEMBER 02, 2016

DEALER - WOOFTER CONSTRUCTION & IRRIGATION

IRRIGATOR - TERRY HOCKERSMITH  
FIELD NO - SECTION 15-11-32

TOTAL LENGTH PIPE = 1801.47    SYSTEM PRESSURE = 40 PSI  
 GPM UNDER PIPE = 1000.69    TOTAL GPM = 1000.69  
 ACRES UNDER PIPE = 234.05  
 RANGE OF ENDGUN = .00    RUN FOR MINIMUM PRESSURE  
 GPM OF ENDGUN = .00  
 ACRES UNDER ENDGUN = .00

MOTOR SIZE (HP) = 3/4  
 LOADED MOTOR RPM = 1750  
 CENTER GEAR BOX RATIO = 40  
 WHEEL GEAR BOX RATIO = 50  
 TIRE SIZE = NFTTrax  
 LAST TOWER SPEED (FPM) = 11.10

**PRECIPITATION BASED**

**% TIMER BASED**

PRECIPITATION INCHES	% TIMER SETTING	TIME HOURS	% TIMER SETTING	PRECIPITATION INCHES	TIME HOURS
.16	100.00	16.50 - 990(min)	100.00	.16	16.50 - 990(min)
.20	77.94	21.17	90.00	.17	18.33
.25	62.35	26.46	80.00	.19	20.63
.30	51.96	31.76	70.00	.22	23.57
.40	38.97	42.34	60.00	.26	27.50
.50	31.18	52.93	50.00	.31	33.00
.60	25.98	63.51	45.00	.35	36.67
.70	22.27	74.10	40.00	.39	41.25
.75	20.78	79.39	35.00	.45	47.14
.80	19.48	84.68	30.00	.52	55.00
.90	17.32	95.27	25.00	.62	66.00
1.00	15.59	105.85	20.00	.78	82.50
1.25	12.47	132.32	15.00	1.04	110.00
1.50	10.39	158.78	10.00	1.56	165.00
1.75	8.91	185.25	5.00	3.12	330.01

CAUTION: The relationship between precipitation rate, timer setting, and hours per revolution provided above are theoretical numbers based on the data list at the top of the page. Actual precipitation rates may vary due to the following field and machine conditions: wind drift; evaporation; tire slippage, tire loaded radius; drive train efficiency; elevation changes; soil type. Due to these varying field and machine conditions the above chart should be used as a guide only.

# WOOFTER CONSTRUCTION & IRRIGATION

1965 THIELEN AVENUE  
COLBY, KANSAS 67701

NOVEMBER 02, 2016

WISH-85141

TERRY HOCKERSMITH

SECTION 15-11-32

Rotation time at 100% = 16.50 Hours Or 990 minutes

LINDSAY GEN II - 90  
SENNINGER UP3 LDN SPRAY NOZZLES  
SENNINGER 10 PSI REGULATORS  
.75 I.D. FLEXIBLE HOSE  
NO ENDGUN

1000 @ 40 PSI

## Installation Chart

Page 1

Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg		
1	PLUG				9	150	54	9	PSR210	17	156	110	12.5	PSR210	5	138	164	15.5	PSR210	13	156	220	18	PSR210		
2	PLUG				10	156	55	9	PSR210	18	150	111	12.5	PSR210	6	144	165	15.5	PSR210	14	156	221	18	PSR210		
3	PLUG				11	156	56	9	PSR210	19	150	112	12.5	PSR210	7	144	166	15.5	PSR210	15	156	222	18	PSR210		
4	138 1	5	PSR210		12	156	57	9	PSR210	20	144	113	12.5	PSR210	8	150	167	15.5	PSR210	16	156	223	18	PSR210		
5	138 2	5	PSR210		13	156	58	9	PSR210	21	144	114	13	PSR210	9	150	168	15.5	PSR210	17	156	224	18	PSR210		
6	144 3	5	PSR210		14	156	59	9	PSR210	22	138	115	13	PSR210	10	156	169	15.5	PSR210	18	150	225	18	PSR210		
7	144 4	5	PSR210		15	156	60	9.5	PSR210	23	138	116	13	PSR210	11	156	170	15.5	PSR210	19	150	226	18	PSR210		
8	150 5	5	PSR210		16	156	61	9.5	PSR210	24	132	117	13	PSR210	12	156	171	16	PSR210	20	144	227	18	PSR210		
9	150 6	5	PSR210		17	156	62	9.5	PSR210	25	126	118	14	PSR210	13	156	172	15.5	PSR210	21	144	228	18.5	PSR210		
10	156 7	5	PSR210		18	150	63	9.5	PSR210						14	156	173	15.5	PSR210	22	138	229	18	PSR210		
11	156 8	5	PSR210		19	150	64	9.5	PSR210	1	PLUG				15	156	174	16	PSR210	23	138	230	18.5	PSR210		
12	156 9	5	PSR210		20	144	65	9.5	PSR210	2	126	119	14.5	PSR210	16	156	175	16	PSR210	24	132	231	18.5	PSR210		
13	156 10	5	PSR210		21	144	66	10	PSR210	3	132	120	13	PSR210	17	156	176	16	PSR210	25	126	232	19.5	PSR210		
14	156 11	5	PSR210		22	138	67	10	PSR210	4	138	121	13	PSR210	18	150	177	16	PSR210							
15	156 12	5	PSR210		23	138	68	10	PSR210	5	138	122	13	PSR210	19	150	178	16	PSR210	1	126	233	20	PSR210		
16	156 13	5	PSR210		24	132	69	10	PSR210	6	144	123	13.5	PSR210	20	144	179	16	PSR210	2	126	234	18.5	PSR210		
17	156 14	5	PSR210		25	126	70	11	PSR210	7	144	124	13	PSR210	21	144	180	16	PSR210	3	132	235	18.5	PSR210		
18	150 15	5	PSR210							8	150	125	13.5	PSR210	22	138	181	16	PSR210	4	132	236	18.5	PSR210		
19	150 16	5	PSR210	1	PLUG					9	150	126	13.5	PSR210	23	138	182	16	PSR210	5	132	237	18.5	PSR210		
20	144 17	5	PSR210	2	126	71	11	PSR210	10	156	127	13.5	PSR210	24	132	183	16.5	PSR210	6	138	238	19	PSR210			
21	144 18	5.5	PSR210	3	132	72	10.5	PSR210	11	156	128	13.5	PSR210	25	126	184	18	PSR210	7	138	239	16.5	PSR210			
22	138 19	5.5	PSR210	4	138	73	10.5	PSR210	12	156	129	13.5	PSR210						8	138	240	14.5	PSR210			
23	138 20	5.5	PSR210	5	138	74	10.5	PSR210	13	156	130	13.5	PSR210	1	126	185	18	PSR210								
24	132 21	5.5	PSR210	6	144	75	10.5	PSR210	14	156	131	13.5	PSR210	2	132	186	16.5	PSR210								
25	126 22	6.5	PSR210	7	144	76	10.5	PSR210	15	156	132	14	PSR210	4	138	187	16.5	PSR210								
					8	150	77	10.5	PSR210	16	156	133	14	PSR210	5	138	188	16.5	PSR210							
					9	150	78	10.5	PSR210	17	156	134	14	PSR210	6	144	189	16.5	PSR210							
					10	156	79	10.5	PSR210	18	150	135	14	PSR210	7	144	190	16.5	PSR210							
					11	156	80	10.5	PSR210	19	150	136	14	PSR210	8	150	191	16.5	PSR210							
					12	156	81	11	PSR210	20	144	137	14	PSR210	9	150	192	16.5	PSR210							
					13	156	82	11	PSR210	21	144	138	14	PSR210	10	156	193	16.5	PSR210							
					14	156	83	11	PSR210	22	138	139	14	PSR210	11	156	194	16.5	PSR210							
					15	156	84	11	PSR210	23	138	140	14	PSR210	12	156	195	17	PSR210							
					16	156	85	11	PSR210	24	132	141	14.5	PSR210	13	156	196	16.5	PSR210							
					17	156	86	11	PSR210	25	126	142	15.5	PSR210												
					18	150	87	11	PSR210						14	156	197	16.5	PSR210							
					19	150	88	11	PSR210	1	PLUG				15	156	198	17	PSR210							
					20	144 23	6.5	PSR210	10	156	89	11	PSR210	2	126	143	15.5	PSR210	16	156	199	17	PSR210			
					21	132 24	6	PSR210	11	156	90	11.5	PSR210	3	132	144	14.5	PSR210	17	156	200	17	PSR210			
					22	138 25	6	PSR210	12	156	91	11.5	PSR210	4	138	145	14.5	PSR210	18	150	201	17	PSR210			
					23	138 26	6.5	PSR210	13	156	92	11.5	PSR210	5	138	146	14.5	PSR210	19	150	202	17	PSR210			
					24	144 27	6.5	PSR210	14	156	93	11.5	PSR210	6	144	147	14.5	PSR210	20	144	203	17	PSR210			
					25	144 28	6.5	PSR210	15	156	94	11.5	PSR210	7	144	148	14.5	PSR210	21	144	204	17.5	PSR210			
					26	150 31	7	PSR210		150	95	12.5	PSR210	8	150	149	14.5	PSR210	22	138	205	17	PSR210			
					27	150 32	7	PSR210	19	150	98	12.5	PSR210	1	PLUG				138	206	17	PSR210				
					28	156 33	7	PSR210	20	144	99	12	PSR210	12	150	150	14.5	PSR210	23	138	207	17.5	PSR210			
					29	156 34	7	PSR210	21	144	100	12	PSR210	13	150	151	14.5	PSR210	24	132	208	19	PSR210			
					30	156 35	7	PSR210	22	138	98	12	PSR210	14	144	155	15	PSR210	25	126	208	19	PSR210			
					31	156 36	7.5	PSR210	23	138	99	12	PSR210	15	144	156	15	PSR210								
					32	156 37	7.5	PSR210	24	132	100	12	PSR210	16	144	157	15	PSR210								
					33	156 38	7.5	PSR210	25	126	101	12	PSR210	17	138	158	15	PSR210								
					34	150 40	7.5	PSR210	1	PLUG				9	150	150	14.5	PSR210	23	138	206	17	PSR210			
					35	144 41	7.5	PSR210	2	126	95	12.5	PSR210	10	150	151	14.5	PSR210	24	132	207	17.5	PSR210			
					36	144 42	8	PSR210	3	132	96	12	PSR210	11	150	152	14.5	PSR210	25	126	208	19	PSR210			
					37	138 43	8	PSR210	4	138	97	12	PSR210	12	150	153	15	PSR210								
					38	138 44	8	PSR210	5	138	98	12	PSR210	13	150	154	15	PSR210								
					39</td																					

## DROP CONFIGURATION CHART

NOVEMBER 02, 2016

**DEALER - WOOFTER CONSTRUCTION & IRRIGATION  
P.O. - 35991**

**IRRIGATOR - TERRY HOCKERSMITH  
FIELD NO. - SECTION 15-11-32**

\*\*NOTE: DROP LENGTHS SHOWN FOR HOSE ONLY WITHOUT WEIGHTS

SPAN 1 <u>POS/LEN</u>	SPAN 2 <u>POS/LEN</u>	SPAN 3 <u>POS/LEN</u>	SPAN 4 <u>POS/LEN</u>	SPAN 5 <u>POS/LEN</u>	SPAN 6 <u>POS/LEN</u>	SPAN 7 <u>POS/LEN</u>	SPAN 8 <u>POS/LEN</u>	SPAN 9 <u>POS/LEN</u>	SPAN 10 <u>POS/LEN</u>	ENDBOOM <u>POS/LEN</u>
1 - 114	23 - 102	47 - 102	71 - 102	95 - 102	119 - 102	143 - 102	161 - 102	185 - 102	209 - 102	233 - 102
2 - 114	24 - 108	48 - 108	72 - 108	96 - 108	120 - 108	144 - 108	162 - 108	186 - 108	210 - 108	234 - 102
3 - 120	25 - 114	49 - 114	73 - 114	97 - 114	121 - 114	145 - 114	163 - 114	187 - 114	211 - 114	235 - 108
4 - 120	26 - 114	50 - 114	74 - 114	98 - 114	122 - 114	146 - 114	164 - 114	188 - 114	212 - 114	236 - 108
5 - 126	27 - 120	51 - 120	75 - 120	99 - 120	123 - 120	147 - 120	165 - 120	189 - 120	213 - 120	237 - 108
6 - 126	28 - 120	52 - 120	76 - 120	100 - 120	124 - 120	148 - 120	166 - 120	190 - 120	214 - 120	238 - 114
7 - 132	29 - 126	53 - 126	77 - 126	101 - 126	125 - 126	149 - 126	167 - 126	191 - 126	215 - 126	239 - 114
8 - 132	30 - 126	54 - 126	78 - 126	102 - 126	126 - 126	150 - 126	168 - 126	192 - 126	216 - 126	240 - 114
9 - 132	31 - 132	55 - 132	79 - 132	103 - 132	127 - 132	151 - 126	169 - 132	193 - 132	217 - 132	
10 - 132	32 - 132	56 - 132	80 - 132	104 - 132	128 - 132	152 - 126	170 - 132	194 - 132	218 - 132	
11 - 132	33 - 132	57 - 132	81 - 132	105 - 132	129 - 132	153 - 126	171 - 132	195 - 132	219 - 132	
12 - 132	34 - 132	58 - 132	82 - 132	106 - 132	130 - 132	154 - 126	172 - 132	196 - 132	220 - 132	
13 - 132	35 - 132	59 - 132	83 - 132	107 - 132	131 - 132	155 - 120	173 - 132	197 - 132	221 - 132	
14 - 132	36 - 132	60 - 132	84 - 132	108 - 132	132 - 132	156 - 120	174 - 132	198 - 132	222 - 132	
15 - 126	37 - 132	61 - 132	85 - 132	109 - 132	133 - 132	157 - 114	175 - 132	199 - 132	223 - 132	
16 - 126	38 - 132	62 - 132	86 - 132	110 - 132	134 - 132	158 - 114	176 - 132	200 - 132	224 - 132	
17 - 120	39 - 126	63 - 126	87 - 126	111 - 126	135 - 126	159 - 108	177 - 126	201 - 126	225 - 126	
18 - 120	40 - 126	64 - 126	88 - 126	112 - 126	136 - 126	160 - 102	178 - 126	202 - 126	226 - 126	
19 - 114	41 - 120	65 - 120	89 - 120	113 - 120	137 - 120		179 - 120	203 - 120	227 - 120	
20 - 114	42 - 120	66 - 120	90 - 120	114 - 120	138 - 120		180 - 120	204 - 120	228 - 120	
21 - 108	43 - 114	67 - 114	91 - 114	115 - 114	139 - 114		181 - 114	205 - 114	229 - 114	
22 - 102	44 - 114	68 - 114	92 - 114	116 - 114	140 - 114		182 - 114	206 - 114	230 - 114	
	45 - 108	69 - 108	93 - 108	117 - 108	141 - 108		183 - 108	207 - 108	231 - 108	
	46 - 102	70 - 102	94 - 102	118 - 102	142 - 102		184 - 102	208 - 102	232 - 102	

**SUMMARY OF DROPS**

21 - 102 IN DROP  
22 - 108 IN DROP  
43 - 114 IN DROP  
40 - 120 IN DROP  
42 - 126 IN DROP  
72 - 132 IN DROP  
240 - 24 IN WEIGHT

TOTAL OF 240 DROPS