

WOOFER CONSTRUCTION & IRRIGATION

NOVEMBER 04, 2016

WISH-85148

CUSTOMER : TERRY HOCKERSMITH

LINDSAY GEN II - 90
11 TOWER - 1980.47 FT
SYSTEM 1000 GPM @ 42 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

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.

<u>DEALER</u>			<u>IRRIGATOR</u>			
WOOFER CONSTRUCTION & IRRIGATION			TERRY HOCKERSMITH			
1965 THIELEN AVENUE			SECTION 15-11-32			
COLBY, KANSAS 67701			35991			
TOTAL TARGET GPM	1000.00	FRICTION FACTOR USED	138	SPANS	LENGTH	PIPE I.D.
TOP OF PIVOT PRESSURE	42.00	TOTAL LENGTH	1980.47	1	181.60	6.395
NO ENDGUN		NUMBER OF TOWERS	11	5	179.00	6.395
NUMBER OF OUTLETS	277	NUMBER OF SPRINKLERS	264	1	135.00	6.395
				4	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	0.18	0.59	41.26	11.40	LD NOZ UP3 5	BEIGE				1	SPSR2-10		138
5	7.34	29.93	0.11	0.59	40.96	11.40	LD NOZ UP3 5	BEIGE				2	SPSR2-10		138
6	7.33	37.26	0.14	0.59	40.68	11.40	LD NOZ UP3 5	BEIGE				3	SPSR2-10		144
7	7.50	44.76	0.16	0.59	40.41	11.40	LD NOZ UP3 5	BEIGE				4	SPSR2-10		144
8	7.00	51.76	0.19	0.59	40.17	11.40	LD NOZ UP3 5	BEIGE				5	SPSR2-10		150
9	7.50	59.26	0.22	0.59	39.93	11.40	LD NOZ UP3 5	BEIGE				6	SPSR2-10		150
10	7.33	66.59	0.25	0.59	39.71	11.40	LD NOZ UP3 5	BEIGE				7	SPSR2-10		156
11	7.34	73.93	0.28	0.59	39.51	11.40	LD NOZ UP3 5	BEIGE				8	SPSR2-10		156
12	7.33	81.26	0.31	0.59	39.33	11.40	LD NOZ UP3 5	BEIGE				9	SPSR2-10		156
13	7.50	88.76	0.33	0.59	39.16	11.40	LD NOZ UP3 5	BEIGE				10	SPSR2-10		156
14	7.00	95.76	0.35	0.59	39.01	11.40	LD NOZ UP3 5	BEIGE				11	SPSR2-10		156
15	7.50	103.26	0.39	0.59	38.87	11.40	LD NOZ UP3 5	BEIGE				12	SPSR2-10		156
16	7.33	110.59	0.41	0.59	38.76	11.40	LD NOZ UP3 5	BEIGE				13	SPSR2-10		156
17	7.34	117.93	0.44	0.59	38.65	11.40	LD NOZ UP3 5	BEIGE				14	SPSR2-10		156
18	7.33	125.26	0.47	0.59	38.57	11.40	LD NOZ UP3 5	BEIGE				15	SPSR2-10		150
19	7.50	132.76	0.49	0.59	38.50	11.40	LD NOZ UP3 5	BEIGE				16	SPSR2-10		150
20	7.00	139.76	0.51	0.59	38.44	11.40	LD NOZ UP3 5	BEIGE				17	SPSR2-10		144
21	7.50	147.26	0.55	0.59	38.41	11.40	LD NOZ UP3 5	BEIGE				18	SPSR2-10		144
22	7.33	154.59	0.57	0.59	38.39	11.40	LD NOZ UP3 5	BEIGE				19	SPSR2-10		138
23	7.34	161.93	0.60	0.59	38.38	11.40	LD NOZ UP3 5	BEIGE				20	SPSR2-10		138
24	7.33	169.26	0.64	0.59	38.39	11.40	LD NOZ UP3 5	BEIGE				21	SPSR2-10		132
25	7.50	176.76	0.79	0.85	38.30	11.40	LD NOZ UP3 6	GOLD				22	SPSR2-10		126
TOWER 1	181.60	181.60													
26		182.59	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	4	
27	10.00	186.76	0.82	0.85	38.09	11.40	LD NOZ UP3 6	GOLD				23	SPSR2-10		126
28	7.50	194.26	0.73	0.72	37.83	11.40	LD NOZ UP3 5.5	BEIGE				24	SPSR2-10		132
29	7.33	201.59	0.75	0.72	37.52	11.40	LD NOZ UP3 5.5	BEIGE				25	SPSR2-10		138
30	7.34	208.93	0.78	0.72	37.23	11.40	LD NOZ UP3 5.5	BEIGE				26	SPSR2-10		138
31	7.33	216.26	0.81	0.85	36.95	11.40	LD NOZ UP3 6	GOLD				27	SPSR2-10		144
32	7.50	223.76	0.82	0.85	36.68	11.40	LD NOZ UP3 6	GOLD				28	SPSR2-10		144
33	7.00	230.76	0.85	0.85	36.45	11.40	LD NOZ UP3 6	GOLD				29	SPSR2-10		150
34	7.50	238.26	0.89	0.85	36.22	11.40	LD NOZ UP3 6	GOLD				30	SPSR2-10		150
35	7.33	245.59	0.91	0.85	36.00	11.40	LD NOZ UP3 6	GOLD				31	SPSR2-10		156
36	7.34	252.93	0.94	1.00	35.81	11.40	LD NOZ UP3 6.5	GOLD				32	SPSR2-10		156
37	7.33	260.26	0.98	1.00	35.63	11.40	LD NOZ UP3 6.5	GOLD				33	SPSR2-10		156
38	7.50	267.76	0.98	1.00	35.46	11.40	LD NOZ UP3 6.5	GOLD				34	SPSR2-10		156
39	7.00	274.76	1.01	1.00	35.32	11.40	LD NOZ UP3 6.5	GOLD				35	SPSR2-10		156
40	7.50	282.26	1.06	1.00	35.19	11.40	LD NOZ UP3 6.5	GOLD				36	SPSR2-10		156
41	7.33	289.59	1.08	1.00	35.08	11.40	LD NOZ UP3 6.5	GOLD				37	SPSR2-10		156
42	7.34	296.93	1.10	1.16	34.98	11.40	LD NOZ UP3 7	LIME				38	SPSR2-10		156
43	7.33	304.26	1.14	1.16	34.90	11.40	LD NOZ UP3 7	LIME				39	SPSR2-10		150
44	7.50	311.76	1.14	1.16	34.83	11.40	LD NOZ UP3 7	LIME				40	SPSR2-10		150
45	7.00	318.76	1.17	1.16	34.79	11.40	LD NOZ UP3 7	LIME				41	SPSR2-10		144
46	7.50	326.26	1.23	1.16	34.76	11.40	LD NOZ UP3 7	LIME				42	SPSR2-10		144
47	7.33	333.59	1.24	1.16	34.74	11.40	LD NOZ UP3 7	LIME				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	1.27	1.35	34.74	11.40	LD NOZ UP3	7.5	LIME		44	SPSR2-10		138
49	7.33	348.26	1.31	1.35	34.76	11.40	LD NOZ UP3	7.5	LIME		45	SPSR2-10		132
50	7.50	355.76	1.58	1.53	34.67	11.40	LD NOZ UP3	8	LAVENDER		46	SPSR2-10		126
TOWER 2	179.00	360.60												
51		361.59	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	5	
52	10.00	365.76	1.62	1.53	34.48	11.40	LD NOZ UP3	8	LAVENDER		47	SPSR2-10		126
53	7.50	373.26	1.40	1.35	34.23	11.40	LD NOZ UP3	7.5	LIME		48	SPSR2-10		132
54	7.33	380.59	1.41	1.35	33.92	11.40	LD NOZ UP3	7.5	LIME		49	SPSR2-10		138
55	7.34	387.93	1.44	1.53	33.63	11.40	LD NOZ UP3	8	LAVENDER		50	SPSR2-10		138
56	7.33	395.26	1.48	1.53	33.36	11.40	LD NOZ UP3	8	LAVENDER		51	SPSR2-10		144
57	7.50	402.76	1.48	1.53	33.11	11.40	LD NOZ UP3	8	LAVENDER		52	SPSR2-10		144
58	7.00	409.76	1.51	1.53	32.88	11.40	LD NOZ UP3	8	LAVENDER		53	SPSR2-10		150
59	7.50	417.26	1.57	1.53	32.65	11.40	LD NOZ UP3	8	LAVENDER		54	SPSR2-10		150
60	7.33	424.59	1.58	1.53	32.45	11.40	LD NOZ UP3	8	LAVENDER		55	SPSR2-10		156
61	7.34	431.93	1.60	1.53	32.26	11.40	LD NOZ UP3	8	LAVENDER		56	SPSR2-10		156
62	7.33	439.26	1.65	1.73	32.09	11.40	LD NOZ UP3	8.5	LAVENDER		57	SPSR2-10		156
63	7.50	446.76	1.64	1.73	31.93	11.40	LD NOZ UP3	8.5	LAVENDER		58	SPSR2-10		156
64	7.00	453.76	1.67	1.73	31.80	11.40	LD NOZ UP3	8.5	LAVENDER		59	SPSR2-10		156
65	7.50	461.26	1.73	1.73	31.68	11.40	LD NOZ UP3	8.5	LAVENDER		60	SPSR2-10		156
66	7.33	468.59	1.74	1.73	31.58	11.40	LD NOZ UP3	8.5	LAVENDER		61	SPSR2-10		156
67	7.34	475.93	1.77	1.73	31.49	11.40	LD NOZ UP3	8.5	LAVENDER		62	SPSR2-10		156
68	7.33	483.26	1.82	1.73	31.42	11.40	LD NOZ UP3	8.5	LAVENDER		63	SPSR2-10		150
69	7.50	490.76	1.80	1.73	31.36	11.40	LD NOZ UP3	8.5	LAVENDER		64	SPSR2-10		150
70	7.00	497.76	1.83	1.73	31.33	11.40	LD NOZ UP3	8.5	LAVENDER		65	SPSR2-10		144
71	7.50	505.26	1.90	1.93	31.31	11.40	LD NOZ UP3	9	GREY		66	SPSR2-10		144
72	7.33	512.59	1.90	1.93	31.30	11.40	LD NOZ UP3	9	GREY		67	SPSR2-10		138
73	7.34	519.93	1.93	1.93	31.31	11.40	LD NOZ UP3	9	GREY		68	SPSR2-10		138
74	7.33	527.26	1.98	1.93	31.34	11.40	LD NOZ UP3	9	GREY		69	SPSR2-10		132
75	7.50	534.76	2.37	2.39	31.27	11.36	LD NOZ UP3	10	TURQUOISE		70	SPSR2-10		126
TOWER 3	179.00	539.60												
76		540.59	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	6	
77	10.00	544.76	2.41	2.39	31.08	11.36	LD NOZ UP3	10	TURQUOISE		71	SPSR2-10		126
78	7.50	552.26	2.07	2.16	30.84	11.38	LD NOZ UP3	9.5	GREY		72	SPSR2-10		132
79	7.33	559.59	2.08	2.16	30.55	11.38	LD NOZ UP3	9.5	GREY		73	SPSR2-10		138
80	7.34	566.93	2.11	2.16	30.28	11.38	LD NOZ UP3	9.5	GREY		74	SPSR2-10		138
81	7.33	574.26	2.16	2.16	30.02	11.38	LD NOZ UP3	9.5	GREY		75	SPSR2-10		144
82	7.50	581.76	2.14	2.16	29.77	11.38	LD NOZ UP3	9.5	GREY		76	SPSR2-10		144
83	7.00	588.76	2.16	2.16	29.56	11.38	LD NOZ UP3	9.5	GREY		77	SPSR2-10		150
84	7.50	596.26	2.24	2.16	29.34	11.38	LD NOZ UP3	9.5	GREY		78	SPSR2-10		150
85	7.33	603.59	2.24	2.16	29.15	11.38	LD NOZ UP3	9.5	GREY		79	SPSR2-10		156
86	7.34	610.93	2.27	2.16	28.98	11.38	LD NOZ UP3	9.5	GREY		80	SPSR2-10		156
87	7.33	618.26	2.32	2.39	28.82	11.36	LD NOZ UP3	10	TURQUOISE		81	SPSR2-10		156
88	7.50	625.76	2.30	2.39	28.68	11.36	LD NOZ UP3	10	TURQUOISE		82	SPSR2-10		156
89	7.00	632.76	2.32	2.39	28.56	11.36	LD NOZ UP3	10	TURQUOISE		83	SPSR2-10		156
90	7.50	640.26	2.40	2.39	28.45	11.36	LD NOZ UP3	10	TURQUOISE		84	SPSR2-10		156
91	7.33	647.59	2.41	2.39	28.36	11.36	LD NOZ UP3	10	TURQUOISE		85	SPSR2-10		156
92	7.34	654.93	2.43	2.39	28.28	11.36	LD NOZ UP3	10	TURQUOISE		86	SPSR2-10		156
93	7.33	662.26	2.49	2.39	28.22	11.36	LD NOZ UP3	10	TURQUOISE		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	2.46	2.39	28.18	11.36	LD NOZ UP3 10	TURQUOISE			88	SPSR2-10		150
95	7.00	676.76	2.49	2.39	28.16	11.36	LD NOZ UP3 10	TURQUOISE			89	SPSR2-10		144
96	7.50	684.26	2.57	2.63	28.15	11.34	LD NOZ UP3 10.5	TURQUOISE			90	SPSR2-10		144
97	7.33	691.59	2.57	2.63	28.16	11.34	LD NOZ UP3 10.5	TURQUOISE			91	SPSR2-10		138
98	7.34	698.93	2.60	2.63	28.19	11.34	LD NOZ UP3 10.5	TURQUOISE			92	SPSR2-10		138
99	7.33	706.26	2.65	2.63	28.24	11.34	LD NOZ UP3 10.5	TURQUOISE			93	SPSR2-10		132
100	7.50	713.76	3.17	3.15	28.17	11.28	LD NOZ UP3 11.5	YELLOW			94	SPSR2-10		126
TOWER 4	179.00	718.60												
101		719.59	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	7	
102	10.00	723.76	3.21	3.15	28.01	11.28	LD NOZ UP3 11.5	YELLOW			95	SPSR2-10		126
103	7.50	731.26	2.75	2.63	27.79	11.34	LD NOZ UP3 10.5	TURQUOISE			96	SPSR2-10		132
104	7.33	738.59	2.75	2.63	27.51	11.34	LD NOZ UP3 10.5	TURQUOISE			97	SPSR2-10		138
105	7.34	745.93	2.77	2.89	27.25	11.31	LD NOZ UP3 11	YELLOW			98	SPSR2-10		138
106	7.33	753.26	2.83	2.89	27.01	11.31	LD NOZ UP3 11	YELLOW			99	SPSR2-10		144
107	7.50	760.76	2.79	2.89	26.78	11.31	LD NOZ UP3 11	YELLOW			100	SPSR2-10		144
108	7.00	767.76	2.82	2.89	26.58	11.31	LD NOZ UP3 11	YELLOW			101	SPSR2-10		150
109	7.50	775.26	2.91	2.89	26.38	11.31	LD NOZ UP3 11	YELLOW			102	SPSR2-10		150
110	7.33	782.59	2.91	2.89	26.20	11.31	LD NOZ UP3 11	YELLOW			103	SPSR2-10		156
111	7.34	789.93	2.94	2.89	26.04	11.31	LD NOZ UP3 11	YELLOW			104	SPSR2-10		156
112	7.33	797.26	3.00	2.89	25.90	11.31	LD NOZ UP3 11	YELLOW			105	SPSR2-10		156
113	7.50	804.76	2.96	2.89	25.78	11.31	LD NOZ UP3 11	YELLOW			106	SPSR2-10		156
114	7.00	811.76	2.98	2.89	25.67	11.31	LD NOZ UP3 11	YELLOW			107	SPSR2-10		156
115	7.50	819.26	3.08	3.15	25.58	11.28	LD NOZ UP3 11.5	YELLOW			108	SPSR2-10		156
116	7.33	826.59	3.07	3.15	25.51	11.28	LD NOZ UP3 11.5	YELLOW			109	SPSR2-10		156
117	7.34	833.93	3.10	3.15	25.45	11.28	LD NOZ UP3 11.5	YELLOW			110	SPSR2-10		156
118	7.33	841.26	3.16	3.15	25.41	11.28	LD NOZ UP3 11.5	YELLOW			111	SPSR2-10		150
119	7.50	848.76	3.12	3.15	25.38	11.28	LD NOZ UP3 11.5	YELLOW			112	SPSR2-10		150
120	7.00	855.76	3.14	3.15	25.38	11.28	LD NOZ UP3 11.5	YELLOW			113	SPSR2-10		144
121	7.50	863.26	3.24	3.16	25.39	11.28	LD NOZ UP3 11.5	YELLOW			114	SPSR2-10		144
122	7.33	870.59	3.24	3.16	25.42	11.28	LD NOZ UP3 11.5	YELLOW			115	SPSR2-10		138
123	7.34	877.93	3.26	3.16	25.46	11.28	LD NOZ UP3 11.5	YELLOW			116	SPSR2-10		138
124	7.33	885.26	3.33	3.44	25.52	11.26	LD NOZ UP3 12	RED			117	SPSR2-10		132
125	7.50	892.76	3.96	4.03	25.48	11.20	LD NOZ UP3 13	WHITE			118	SPSR2-10		126
TOWER 5	179.00	897.60												
126		898.59	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	8	
127	10.00	902.76	4.00	4.03	25.34	11.20	LD NOZ UP3 13	WHITE			119	SPSR2-10		126
128	7.50	910.26	3.42	3.44	25.14	11.26	LD NOZ UP3 12	RED			120	SPSR2-10		132
129	7.33	917.59	3.41	3.44	24.88	11.26	LD NOZ UP3 12	RED			121	SPSR2-10		138
130	7.34	924.93	3.44	3.44	24.64	11.26	LD NOZ UP3 12	RED			122	SPSR2-10		138
131	7.33	932.26	3.50	3.44	24.41	11.26	LD NOZ UP3 12	RED			123	SPSR2-10		144
132	7.50	939.76	3.45	3.44	24.20	11.26	LD NOZ UP3 12	RED			124	SPSR2-10		144
133	7.00	946.76	3.48	3.44	24.02	11.26	LD NOZ UP3 12	RED			125	SPSR2-10		150
134	7.50	954.26	3.59	3.73	23.84	11.23	LD NOZ UP3 12.5	RED			126	SPSR2-10		150
135	7.33	961.59	3.57	3.44	23.68	11.26	LD NOZ UP3 12	RED			127	SPSR2-10		156
136	7.34	968.93	3.60	3.73	23.54	11.23	LD NOZ UP3 12.5	RED			128	SPSR2-10		156
137	7.33	976.26	3.67	3.73	23.42	11.23	LD NOZ UP3 12.5	RED			129	SPSR2-10		156
138	7.50	983.76	3.61	3.73	23.31	11.23	LD NOZ UP3 12.5	RED			130	SPSR2-10		156
139	7.00	990.76	3.64	3.73	23.23	11.23	LD NOZ UP3 12.5	RED			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	3.75	3.73	23.15	11.23	LD NOZ UP3 12.5	RED				132	SPSR2-10		156
141	7.33	1005.59	3.74	3.73	23.10	11.23	LD NOZ UP3 12.5	RED				133	SPSR2-10		156
142	7.34	1012.93	3.76	3.73	23.06	11.23	LD NOZ UP3 12.5	RED				134	SPSR2-10		156
143	7.33	1020.26	3.83	3.73	23.04	11.23	LD NOZ UP3 12.5	RED				135	SPSR2-10		150
144	7.50	1027.76	3.77	3.73	23.04	11.23	LD NOZ UP3 12.5	RED				136	SPSR2-10		150
145	7.00	1034.76	3.80	3.73	23.05	11.23	LD NOZ UP3 12.5	RED				137	SPSR2-10		144
146	7.50	1042.26	3.92	4.03	23.08	11.20	LD NOZ UP3 13	WHITE				138	SPSR2-10		144
147	7.33	1049.59	3.90	4.03	23.13	11.20	LD NOZ UP3 13	WHITE				139	SPSR2-10		138
148	7.34	1056.93	3.93	4.03	23.19	11.20	LD NOZ UP3 13	WHITE				140	SPSR2-10		138
149	7.33	1064.26	4.00	4.03	23.27	11.20	LD NOZ UP3 13	WHITE				141	SPSR2-10		132
150	7.50	1071.76	4.75	4.66	23.25	11.13	LD NOZ UP3 14	BLUE				142	SPSR2-10		126
TOWER 6	179.00	1076.60													
151		1077.59	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	9	
152	10.00	1081.76	4.79	4.66	23.14	11.13	LD NOZ UP3 14	BLUE				143	SPSR2-10		126
153	7.50	1089.26	4.09	4.03	22.89	11.20	LD NOZ UP3 13	WHITE				144	SPSR2-10		132
154	7.33	1096.59	4.07	4.03	22.65	11.20	LD NOZ UP3 13	WHITE				145	SPSR2-10		138
155	7.34	1103.93	4.10	4.03	22.43	11.20	LD NOZ UP3 13	WHITE				146	SPSR2-10		138
156	7.33	1111.26	4.18	4.03	22.24	11.20	LD NOZ UP3 13	WHITE				147	SPSR2-10		144
157	7.50	1118.76	4.11	4.03	22.07	11.20	LD NOZ UP3 13	WHITE				148	SPSR2-10		144
158	7.00	1125.76	4.14	4.03	21.93	11.20	LD NOZ UP3 13	WHITE				149	SPSR2-10		150
159	7.50	1133.26	4.26	4.34	21.81	11.17	LD NOZ UP3 13.5	WHITE				150	SPSR2-10		150
160	7.33	1140.59	4.24	4.34	21.72	11.17	LD NOZ UP3 13.5	WHITE				151	SPSR2-10		150
161	7.34	1147.93	4.27	4.34	21.65	11.17	LD NOZ UP3 13.5	WHITE				152	SPSR2-10		150
162	7.33	1155.26	4.34	4.34	21.60	11.17	LD NOZ UP3 13.5	WHITE				153	SPSR2-10		150
163	7.50	1162.76	4.27	4.34	21.58	11.17	LD NOZ UP3 13.5	WHITE				154	SPSR2-10		150
164	7.00	1169.76	4.30	4.34	21.58	11.17	LD NOZ UP3 13.5	WHITE				155	SPSR2-10		144
165	7.50	1177.26	4.42	4.34	21.61	11.17	LD NOZ UP3 13.5	WHITE				156	SPSR2-10		144
166	7.33	1184.59	4.40	4.34	21.66	11.17	LD NOZ UP3 13.5	WHITE				157	SPSR2-10		138
167	7.34	1191.93	4.43	4.34	21.74	11.17	LD NOZ UP3 13.5	WHITE				158	SPSR2-10		138
168	7.33	1199.26	4.51	4.66	21.84	11.13	LD NOZ UP3 14	BLUE				159	SPSR2-10		132
169	7.50	1206.76	5.35	5.34	21.90	11.04	LD NOZ UP3 15	DK BROWN				160	SPSR2-10		126
TOWER 7	135.00	1211.60													
170		1212.59	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	10	
171	10.00	1216.76	5.39	5.34	21.81	11.04	LD NOZ UP3 15	DK BROWN				161	SPSR2-10		126
172	7.50	1224.26	4.60	4.66	21.64	11.13	LD NOZ UP3 14	BLUE				162	SPSR2-10		132
173	7.33	1231.59	4.58	4.66	21.42	11.13	LD NOZ UP3 14	BLUE				163	SPSR2-10		138
174	7.34	1238.93	4.60	4.66	21.21	11.13	LD NOZ UP3 14	BLUE				164	SPSR2-10		138
175	7.33	1246.26	4.68	4.66	21.03	11.13	LD NOZ UP3 14	BLUE				165	SPSR2-10		144
176	7.50	1253.76	4.60	4.66	20.85	11.13	LD NOZ UP3 14	BLUE				166	SPSR2-10		144
177	7.00	1260.76	4.63	4.66	20.70	11.13	LD NOZ UP3 14	BLUE				167	SPSR2-10		150
178	7.50	1268.26	4.76	4.66	20.56	11.13	LD NOZ UP3 14	BLUE				168	SPSR2-10		150
179	7.33	1275.59	4.74	4.66	20.44	11.13	LD NOZ UP3 14	BLUE				169	SPSR2-10		156
180	7.34	1282.93	4.77	4.66	20.34	11.13	LD NOZ UP3 14	BLUE				170	SPSR2-10		156
181	7.33	1290.26	4.85	4.99	20.25	11.10	LD NOZ UP3 14.5	BLUE				171	SPSR2-10		156
182	7.50	1297.76	4.77	4.66	20.18	11.13	LD NOZ UP3 14	BLUE				172	SPSR2-10		156
183	7.00	1304.76	4.79	4.66	20.13	11.13	LD NOZ UP3 14	BLUE				173	SPSR2-10		156
184	7.50	1312.26	4.93	4.99	20.10	11.10	LD NOZ UP3 14.5	BLUE				174	SPSR2-10		156
185	7.33	1319.59	4.91	4.99	20.08	11.10	LD NOZ UP3 14.5	BLUE				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	4.93	4.99	20.08	11.10	LD NOZ UP3 14.5	BLUE				176	SPSR2-10		156
187	7.33	1334.26	5.01	4.99	20.09	11.10	LD NOZ UP3 14.5	BLUE				177	SPSR2-10		150
188	7.50	1341.76	4.93	4.99	20.13	11.10	LD NOZ UP3 14.5	BLUE				178	SPSR2-10		150
189	7.00	1348.76	4.95	4.99	20.17	11.10	LD NOZ UP3 14.5	BLUE				179	SPSR2-10		144
190	7.50	1356.26	5.09	4.99	20.24	11.10	LD NOZ UP3 14.5	BLUE				180	SPSR2-10		144
191	7.33	1363.59	5.07	4.99	20.33	11.10	LD NOZ UP3 14.5	BLUE				181	SPSR2-10		138
192	7.34	1370.93	5.10	4.99	20.43	11.10	LD NOZ UP3 14.5	BLUE				182	SPSR2-10		138
193	7.33	1378.26	5.18	5.34	20.55	11.04	LD NOZ UP3 15	DK BROWN				183	SPSR2-10		132
194	7.50	1385.76	6.15	6.04	20.56	10.91	LD NOZ UP3 16	ORANGE				184	SPSR2-10		126
TOWER 8	179.00	1390.60													
195		1391.59	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	11	
196	10.00	1395.76	6.19	6.04	20.50	10.91	LD NOZ UP3 16	ORANGE				185	SPSR2-10		126
197	7.50	1403.26	5.27	5.34	20.35	11.04	LD NOZ UP3 15	DK BROWN				186	SPSR2-10		132
198	7.33	1410.59	5.24	5.34	20.15	11.04	LD NOZ UP3 15	DK BROWN				187	SPSR2-10		138
199	7.34	1417.93	5.27	5.34	19.97	11.04	LD NOZ UP3 15	DK BROWN				188	SPSR2-10		138
200	7.33	1425.26	5.36	5.34	19.80	11.04	LD NOZ UP3 15	DK BROWN				189	SPSR2-10		144
201	7.50	1432.76	5.26	5.34	19.64	11.04	LD NOZ UP3 15	DK BROWN				190	SPSR2-10		144
202	7.00	1439.76	5.29	5.34	19.52	11.04	LD NOZ UP3 15	DK BROWN				191	SPSR2-10		150
203	7.50	1447.26	5.44	5.34	19.40	11.04	LD NOZ UP3 15	DK BROWN				192	SPSR2-10		150
204	7.33	1454.59	5.41	5.34	19.30	11.04	LD NOZ UP3 15	DK BROWN				193	SPSR2-10		156
205	7.34	1461.93	5.43	5.34	19.21	11.04	LD NOZ UP3 15	DK BROWN				194	SPSR2-10		156
206	7.33	1469.26	5.52	5.68	19.15	10.98	LD NOZ UP3 15.5	DK BROWN				195	SPSR2-10		156
207	7.50	1476.76	5.42	5.34	19.10	11.04	LD NOZ UP3 15	DK BROWN				196	SPSR2-10		156
208	7.00	1483.76	5.45	5.34	19.07	11.04	LD NOZ UP3 15	DK BROWN				197	SPSR2-10		156
209	7.50	1491.26	5.61	5.68	19.05	10.98	LD NOZ UP3 15.5	DK BROWN				198	SPSR2-10		156
210	7.33	1498.59	5.57	5.68	19.05	10.98	LD NOZ UP3 15.5	DK BROWN				199	SPSR2-10		156
211	7.34	1505.93	5.60	5.68	19.07	10.98	LD NOZ UP3 15.5	DK BROWN				200	SPSR2-10		156
212	7.33	1513.26	5.68	5.68	19.11	10.98	LD NOZ UP3 15.5	DK BROWN				201	SPSR2-10		150
213	7.50	1520.76	5.59	5.68	19.16	10.98	LD NOZ UP3 15.5	DK BROWN				202	SPSR2-10		150
214	7.00	1527.76	5.61	5.68	19.23	10.98	LD NOZ UP3 15.5	DK BROWN				203	SPSR2-10		144
215	7.50	1535.26	5.77	5.68	19.32	10.98	LD NOZ UP3 15.5	DK BROWN				204	SPSR2-10		144
216	7.33	1542.59	5.73	5.68	19.42	10.98	LD NOZ UP3 15.5	DK BROWN				205	SPSR2-10		138
217	7.34	1549.93	5.76	5.68	19.54	10.98	LD NOZ UP3 15.5	DK BROWN				206	SPSR2-10		138
218	7.33	1557.26	5.85	5.68	19.68	10.98	LD NOZ UP3 15.5	DK BROWN				207	SPSR2-10		132
219	7.50	1564.76	6.94	6.78	19.71	10.78	LD NOZ UP3 17	DK GREEN				208	SPSR2-10		126
TOWER 9	179.00	1569.60													
220		1570.59	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	12	
221	10.00	1574.76	6.99	7.16	19.68	10.71	LD NOZ UP3 17.5	DK GREEN				209	SPSR2-10		126
222	7.50	1582.26	5.95	6.04	19.55	10.91	LD NOZ UP3 16	ORANGE				210	SPSR2-10		132
223	7.33	1589.59	5.91	6.04	19.37	10.91	LD NOZ UP3 16	ORANGE				211	SPSR2-10		138
224	7.34	1596.93	5.93	6.04	19.20	10.91	LD NOZ UP3 16	ORANGE				212	SPSR2-10		138
225	7.33	1604.26	6.02	6.04	19.05	10.91	LD NOZ UP3 16	ORANGE				213	SPSR2-10		144
226	7.50	1611.76	5.92	6.04	18.92	10.91	LD NOZ UP3 16	ORANGE				214	SPSR2-10		144
227	7.00	1618.76	5.94	6.04	18.81	10.91	LD NOZ UP3 16	ORANGE				215	SPSR2-10		150
228	7.50	1626.26	6.10	6.04	18.71	10.91	LD NOZ UP3 16	ORANGE				216	SPSR2-10		150
229	7.33	1633.59	6.07	6.04	18.62	10.91	LD NOZ UP3 16	ORANGE				217	SPSR2-10		156
230	7.34	1640.93	6.09	6.04	18.56	10.91	LD NOZ UP3 16	ORANGE				218	SPSR2-10		156
231	7.33	1648.26	6.19	6.04	18.51	10.91	LD NOZ UP3 16	ORANGE				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
276	7.50	1976.47	5.76	5.68	18.14	10.98	LD NOZ UP3 15.5 DK BROWN	263	SPSR2-10		138
277	4.00	1980.47	5.12	4.99	18.04	11.10	LD NOZ UP3 14.5 BLUE	264	SPSR2-10		138
OVERHANG	52.87	1980.47									

TOTAL GPM = 1000.90
 GPA = 3.54

MINIMUM RECOMMENDED REGULATOR INLET PRESSURE IS 15.00 PSI
 WITH GRADUATED ELEVATION OF 15.00 FT THE INLET PRESSURE IS 15.94 PSI FOR SPRINKLER 263
 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	8.41	13.17	5.54	0.012	0.44	0.59		0.73
2	7.00	24.74	24.48	3.50	0.008	0.28	0.37		0.46
3	11.62	41.08	40.58	3.49	0.008	0.28	0.37		0.46
4	16.24	57.42	56.94	3.51	0.008	0.28	0.37		0.46
5	20.86	73.76	73.19	3.51	0.008	0.28	0.37		0.47
6	25.49	90.10	89.90	3.53	0.008	0.28	0.37		0.47
7	22.28	78.76	77.93	3.50	0.008	0.28	0.37		0.46
8	33.59	118.76	117.94	3.51	0.008	0.28	0.37		0.47
9	38.22	135.09	134.08	3.51	0.008	0.28	0.37		0.47
10	42.84	151.43	151.21	3.53	0.008	0.28	0.37		0.47
11	47.46	167.77	166.17	3.50	0.008	0.28	0.37		0.46
OVERHANG	14.90	52.68	55.30	3.71	0.008	0.30	0.39		0.49
TOTAL	282.88	1000.00	1000.90	3.54					

SUMMARY OF SPRINKLERS

- 21 LD NOZ UP3 5 BEIGE
- 3 LD NOZ UP3 5.5 BEIGE
- 7 LD NOZ UP3 6 GOLD
- 6 LD NOZ UP3 6.5 GOLD
- 6 LD NOZ UP3 7 LIME
- 4 LD NOZ UP3 7.5 LIME
- 9 LD NOZ UP3 8 LAVENDER
- 9 LD NOZ UP3 8.5 LAVENDER
- 4 LD NOZ UP3 9 GREY
- 9 LD NOZ UP3 9.5 GREY
- 11 LD NOZ UP3 10 TURQUOISE
- 6 LD NOZ UP3 10.5 TURQUOISE
- 10 LD NOZ UP3 11 YELLOW
- 11 LD NOZ UP3 11.5 YELLOW

SUMMARY OF DROPS

- 23 102 IN DROP
- 24 108 IN DROP
- 47 114 IN DROP
- 44 120 IN DROP
- 46 126 IN DROP
- 80 132 IN DROP
- 264 24 IN WEIGHT

SUMMARY OF REGULATORS

- 264 SPSR2-10

- 8 LD NOZ UP3 12 RED
- 11 LD NOZ UP3 12.5 RED
- 12 LD NOZ UP3 13 WHITE
- 9 LD NOZ UP3 13.5 WHITE
- 14 LD NOZ UP3 14 BLUE
- 11 LD NOZ UP3 14.5 BLUE
- 14 LD NOZ UP3 15 DK BROWN
- 12 LD NOZ UP3 15.5 DK BROWN
- 14 LD NOZ UP3 16 ORANGE
- 13 LD NOZ UP3 16.5 ORANGE
- 15 LD NOZ UP3 17 DK GREEN
- 9 LD NOZ UP3 17.5 DK GREEN
- 3 LD NOZ UP3 18 PURPLE
- 2 LD NOZ UP3 18.5 PURPLE
- 1 LD NOZ UP3 19 BLACK

13 PLUGS

TOTAL OF 264 DROPS
LENGTH OF HOSE: 2661.0 FT.

TOTAL OF 264 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, 18, 19, 20, 21
LD NOZ UP3 5.5 BEIGE	24, 25, 26
LD NOZ UP3 6 GOLD	22, 23, 27, 28, 29, 30, 31
LD NOZ UP3 6.5 GOLD	32, 33, 34, 35, 36, 37
LD NOZ UP3 7 LIME	38, 39, 40, 41, 42, 43
LD NOZ UP3 7.5 LIME	44, 45, 48, 49
LD NOZ UP3 8 LAVENDER	46, 47, 50, 51, 52, 53, 54, 55, 56
LD NOZ UP3 8.5 LAVENDER	57, 58, 59, 60, 61, 62, 63, 64, 65
LD NOZ UP3 9 GREY	66, 67, 68, 69
LD NOZ UP3 9.5 GREY	72, 73, 74, 75, 76, 77, 78, 79, 80
LD NOZ UP3 10 TURQUOISE	70, 71, 81, 82, 83, 84, 85, 86, 87, 88, 89
LD NOZ UP3 10.5 TURQUOISE	90, 91, 92, 93, 96, 97
LD NOZ UP3 11 YELLOW	98, 99, 100, 101, 102, 103, 104, 105, 106, 107
LD NOZ UP3 11.5 YELLOW	94, 95, 108, 109, 110, 111, 112, 113, 114, 115, 116
LD NOZ UP3 12 RED	117, 120, 121, 122, 123, 124, 125, 127
LD NOZ UP3 12.5 RED	126, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137
LD NOZ UP3 13 WHITE	118, 119, 138, 139, 140, 141, 144, 145, 146, 147, 148, 149
LD NOZ UP3 13.5 WHITE	150, 151, 152, 153, 154, 155, 156, 157, 158
LD NOZ UP3 14 BLUE	142, 143, 159, 162, 163, 164, 165, 166, 167, 168, 169, 170, 172, 173
LD NOZ UP3 14.5 BLUE	171, 174, 175, 176, 177, 178, 179, 180, 181, 182, 264
LD NOZ UP3 15 DK BROWN	160, 161, 183, 186, 187, 188, 189, 190, 191, 192, 193, 194, 196, 197
LD NOZ UP3 15.5 DK BROWN	195, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 263
LD NOZ UP3 16 ORANGE	184, 185, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221
LD NOZ UP3 16.5 ORANGE	222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 235, 236, 238
LD NOZ UP3 17 DK GREEN	208, 234, 237, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 250, 251
LD NOZ UP3 17.5 DK GREEN	209, 249, 252, 253, 254, 255, 258, 259, 260
LD NOZ UP3 18 PURPLE	232, 261, 262
LD NOZ UP3 18.5 PURPLE	233, 256
LD NOZ UP3 19 BLACK	257

PRECIPITATION CHART FOR FULL CIRCLE

WISH-85148

NOVEMBER 04, 2016

DEALER - WOOFER CONSTRUCTION & IRRIGATION

IRRIGATOR - TERRY HOCKERSMITH

FIELD NO - SECTION 15-11-32

TOTAL LENGTH PIPE = 1980.47 SYSTEM PRESSURE = 42 PSI
 GPM UNDER PIPE = 1000.90 TOTAL GPM = 1000.90
 ACRES UNDER PIPE = 282.88
 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 = NFTrax
 LAST TOWER SPEED (FPM) = 11.10

PRECIPITATION BASED

% TIMER BASED

PRECIPITATION INCHES	% TIMER SETTING	TIME HOURS	% TIMER SETTING	PRECIPITATION INCHES	TIME HOURS
.14	100.00	18.19 - 1091(min)	100.00	.14	18.19 - 1091(min)
.20	71.10	25.58	90.00	.16	20.21
.25	56.88	31.98	80.00	.18	22.74
.30	47.40	38.37	70.00	.20	25.98
.40	35.55	51.16	60.00	.24	30.32
.50	28.44	63.95	50.00	.28	36.38
.60	23.70	76.75	45.00	.32	40.42
.70	20.31	89.54	40.00	.36	45.47
.75	18.96	95.93	35.00	.41	51.97
.80	17.78	102.33	30.00	.47	60.63
.90	15.80	115.12	25.00	.57	72.76
1.00	14.22	127.91	20.00	.71	90.95
1.25	11.38	159.89	15.00	.95	121.26
1.50	9.48	191.86	10.00	1.42	181.89
1.75	8.13	223.84	5.00	2.84	363.78

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.

WOOFER CONSTRUCTION & IRRIGATION

1965 THIELEN AVENUE
COLBY, KANSAS 67701

NOVEMBER 04, 2016
WISH-85148
TERRY HOCKERSMITH
SECTION 15-11-32
1000 @ 42 PSI

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

Rotation time at 100% = 18.19 Hours Or 1091 minutes

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	8	PSR210	17	156	110	11.5	PSR210	5	138	164	14	PSR210	13	156	220	16	PSR210
2	PLUG				10	156	55	8	PSR210	18	150	111	11.5	PSR210	6	144	165	14	PSR210	14	156	221	16	PSR210
3	PLUG				11	156	56	8	PSR210	19	150	112	11.5	PSR210	7	144	166	14	PSR210	15	156	222	16.5	PSR210
4	138	1	5	PSR210	12	156	57	8.5	PSR210	20	144	113	11.5	PSR210	8	150	167	14	PSR210	16	156	223	16.5	PSR210
5	138	2	5	PSR210	13	156	58	8.5	PSR210	21	144	114	11.5	PSR210	9	150	168	14	PSR210	17	156	224	16.5	PSR210
6	144	3	5	PSR210	14	156	59	8.5	PSR210	22	138	115	11.5	PSR210	10	156	169	14	PSR210	18	150	225	16.5	PSR210
7	144	4	5	PSR210	15	156	60	8.5	PSR210	23	138	116	11.5	PSR210	11	156	170	14	PSR210	19	150	226	16.5	PSR210
8	150	5	5	PSR210	16	156	61	8.5	PSR210	24	132	117	12	PSR210	12	156	171	14.5	PSR210	20	144	227	16.5	PSR210
9	150	6	5	PSR210	17	156	62	8.5	PSR210	25	126	118	13	PSR210	13	156	172	14	PSR210	21	144	228	16.5	PSR210
10	156	7	5	PSR210	18	150	63	8.5	PSR210	TOWER 5					14	156	173	14	PSR210	22	138	229	16.5	PSR210
11	156	8	5	PSR210	19	150	64	8.5	PSR210	1	PLUG				15	156	174	14.5	PSR210	23	138	230	16.5	PSR210
12	156	9	5	PSR210	20	144	65	8.5	PSR210	2	126	119	13	PSR210	16	156	175	14.5	PSR210	24	132	231	16.5	PSR210
13	156	10	5	PSR210	21	144	66	9	PSR210	3	132	120	12	PSR210	17	156	176	14.5	PSR210	25	126	232	18	PSR210
14	156	11	5	PSR210	22	138	67	9	PSR210	4	138	121	12	PSR210	18	150	177	14.5	PSR210	TOWER 10				
15	156	12	5	PSR210	23	138	68	9	PSR210	5	138	122	12	PSR210	19	150	178	14.5	PSR210	1	PLUG			
16	156	13	5	PSR210	24	132	69	9	PSR210	6	144	123	12	PSR210	20	144	179	14.5	PSR210	2	126	233	18.5	PSR210
17	156	14	5	PSR210	25	126	70	10	PSR210	7	144	124	12	PSR210	21	144	180	14.5	PSR210	3	132	234	17	PSR210
18	150	15	5	PSR210	TOWER 3					8	150	125	12	PSR210	22	138	181	14.5	PSR210	4	138	235	16.5	PSR210
19	150	16	5	PSR210	1	PLUG				9	150	126	12.5	PSR210	23	138	182	14.5	PSR210	5	138	236	16.5	PSR210
20	144	17	5	PSR210	2	126	71	10	PSR210	10	156	127	12	PSR210	24	132	183	15	PSR210	6	144	237	17	PSR210
21	144	18	5	PSR210	3	132	72	9.5	PSR210	11	156	128	12.5	PSR210	25	126	184	16	PSR210	7	144	238	16.5	PSR210
22	138	19	5	PSR210	4	138	73	9.5	PSR210	12	156	129	12.5	PSR210	TOWER 8					8	150	239	17	PSR210
23	138	20	5	PSR210	5	138	74	9.5	PSR210	13	156	130	12.5	PSR210	1	PLUG				9	150	240	17	PSR210
24	132	21	5	PSR210	6	144	75	9.5	PSR210	14	156	131	12.5	PSR210	2	126	185	16	PSR210	10	156	241	17	PSR210
25	126	22	6	PSR210	7	144	76	9.5	PSR210	15	156	132	12.5	PSR210	3	132	186	15	PSR210	11	156	242	17	PSR210
TOWER 1					8	150	77	9.5	PSR210	16	156	133	12.5	PSR210	4	138	187	15	PSR210	12	156	243	17	PSR210
1	PLUG				9	150	78	9.5	PSR210	17	156	134	12.5	PSR210	5	138	188	15	PSR210	13	156	244	17	PSR210
2	126	23	6	PSR210	10	156	79	9.5	PSR210	18	150	135	12.5	PSR210	6	144	189	15	PSR210	14	156	245	17	PSR210
3	132	24	5.5	PSR210	11	156	80	9.5	PSR210	19	150	136	12.5	PSR210	7	144	190	15	PSR210	15	156	246	17	PSR210
4	138	25	5.5	PSR210	12	156	81	10	PSR210	20	144	137	12.5	PSR210	8	150	191	15	PSR210	16	156	247	17	PSR210
5	138	26	5.5	PSR210	13	156	82	10	PSR210	21	144	138	13	PSR210	9	150	192	15	PSR210	17	156	248	17	PSR210
6	144	27	6	PSR210	14	156	83	10	PSR210	22	138	139	13	PSR210	10	156	193	15	PSR210	18	150	249	17.5	PSR210
7	144	28	6	PSR210	15	156	84	10	PSR210	23	138	140	13	PSR210	11	156	194	15	PSR210	19	150	250	17	PSR210
8	150	29	6	PSR210	16	156	85	10	PSR210	24	132	141	13	PSR210	12	156	195	15.5	PSR210	20	144	251	17	PSR210
9	150	30	6	PSR210	17	156	86	10	PSR210	25	126	142	14	PSR210	13	156	196	15	PSR210	21	144	252	17.5	PSR210
10	156	31	6	PSR210	18	150	87	10	PSR210	TOWER 6					14	156	197	15	PSR210	22	138	253	17.5	PSR210
11	156	32	6.5	PSR210	19	150	88	10	PSR210	1	PLUG				15	156	198	15.5	PSR210	23	138	254	17.5	PSR210
12	156	33	6.5	PSR210	20	144	89	10	PSR210	2	126	143	14	PSR210	16	156	199	15.5	PSR210	24	132	255	17.5	PSR210
13	156	34	6.5	PSR210	21	144	90	10.5	PSR210	3	132	144	13	PSR210	17	156	200	15.5	PSR210	25	126	256	18.5	PSR210
14	156	35	6.5	PSR210	22	138	91	10.5	PSR210	4	138	145	13	PSR210	18	150	201	15.5	PSR210	TOWER 11				
15	156	36	6.5	PSR210	23	138	92	10.5	PSR210	5	138	146	13	PSR210	19	150	202	15.5	PSR210	1	126	257	19	PSR210
16	156	37	6.5	PSR210	24	132	93	10.5	PSR210	6	144	147	13	PSR210	20	144	203	15.5	PSR210	2	126	258	17.5	PSR210
17	156	38	7	PSR210	25	126	94	11.5	PSR210	7	144	148	13	PSR210	21	144	204	15.5	PSR210	3	132	259	17.5	PSR210
18	150	39	7	PSR210	TOWER 4					8	150	149	13	PSR210	22	138	205	15.5	PSR210	4	132	260	17.5	PSR210
19	150	40	7	PSR210	1	PLUG				9	150	150	13.5	PSR210	23	138	206	15.5	PSR210	5	132	261	18	PSR210
20	144	41	7	PSR210	2	126	95	11.5	PSR210	10	150	151	13.5	PSR210	24	132	207	15.5	PSR210	6	138	262	18	PSR210
21	144	42	7	PSR210	3	132	96	10.5	PSR210	11	150	152	13.5	PSR210	25	126	208	17	PSR210	7	138	263	15.5	PSR210
22	138	43	7	PSR210	4	138	97	10.5	PSR210	12	150	153	13.5	PSR210	TOWER 9					8	138	264	14.5	PSR210
23	138	44	7.5	PSR210	5	138	98	11	PSR210	13	150	154	13.5	PSR210	1	PLUG								
24	132	45	7.5	PSR210	6	144	99	11	PSR210	14	144	155	13.5	PSR210	2	126	209	17.5	PSR210					
25	126	46	8	PSR210	7	144	100	11	PSR210	15	144	156	13.5	PSR210	3	132	210	16	PSR210					
TOWER 2					8	150	101	11	PSR210	16	138	157	13.5	PSR210	4	138	211	16	PSR210					
1	PLUG				9	150	102	11	PSR210	17	138	158	13.5	PSR210	5	138	212	16	PSR210					
2	126	47	8	PSR210	10	156	103	11	PSR210	18	132	159</												

DEALER - WOOFER 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 POS/LEN	SPAN 2 POS/LEN	SPAN 3 POS/LEN	SPAN 4 POS/LEN	SPAN 5 POS/LEN	SPAN 6 POS/LEN	SPAN 7 POS/LEN	SPAN 8 POS/LEN	SPAN 9 POS/LEN	SPAN 10 POS/LEN	SPAN 11 POS/LEN	ENDBOOM POS/LEN
1 - 114	23 - 102	47 - 102	71 - 102	95 - 102	119 - 102	143 - 102	161 - 102	185 - 102	209 - 102	233 - 102	257 - 102
2 - 114	24 - 108	48 - 108	72 - 108	96 - 108	120 - 108	144 - 108	162 - 108	186 - 108	210 - 108	234 - 108	258 - 102
3 - 120	25 - 114	49 - 114	73 - 114	97 - 114	121 - 114	145 - 114	163 - 114	187 - 114	211 - 114	235 - 114	259 - 108
4 - 120	26 - 114	50 - 114	74 - 114	98 - 114	122 - 114	146 - 114	164 - 114	188 - 114	212 - 114	236 - 114	260 - 108
5 - 126	27 - 120	51 - 120	75 - 120	99 - 120	123 - 120	147 - 120	165 - 120	189 - 120	213 - 120	237 - 120	261 - 108
6 - 126	28 - 120	52 - 120	76 - 120	100 - 120	124 - 120	148 - 120	166 - 120	190 - 120	214 - 120	238 - 120	262 - 114
7 - 132	29 - 126	53 - 126	77 - 126	101 - 126	125 - 126	149 - 126	167 - 126	191 - 126	215 - 126	239 - 126	263 - 114
8 - 132	30 - 126	54 - 126	78 - 126	102 - 126	126 - 126	150 - 126	168 - 126	192 - 126	216 - 126	240 - 126	264 - 114
9 - 132	31 - 132	55 - 132	79 - 132	103 - 132	127 - 132	151 - 126	169 - 132	193 - 132	217 - 132	241 - 132	
10 - 132	32 - 132	56 - 132	80 - 132	104 - 132	128 - 132	152 - 126	170 - 132	194 - 132	218 - 132	242 - 132	
11 - 132	33 - 132	57 - 132	81 - 132	105 - 132	129 - 132	153 - 126	171 - 132	195 - 132	219 - 132	243 - 132	
12 - 132	34 - 132	58 - 132	82 - 132	106 - 132	130 - 132	154 - 126	172 - 132	196 - 132	220 - 132	244 - 132	
13 - 132	35 - 132	59 - 132	83 - 132	107 - 132	131 - 132	155 - 120	173 - 132	197 - 132	221 - 132	245 - 132	
14 - 132	36 - 132	60 - 132	84 - 132	108 - 132	132 - 132	156 - 120	174 - 132	198 - 132	222 - 132	246 - 132	
15 - 126	37 - 132	61 - 132	85 - 132	109 - 132	133 - 132	157 - 114	175 - 132	199 - 132	223 - 132	247 - 132	
16 - 126	38 - 132	62 - 132	86 - 132	110 - 132	134 - 132	158 - 114	176 - 132	200 - 132	224 - 132	248 - 132	
17 - 120	39 - 126	63 - 126	87 - 126	111 - 126	135 - 126	159 - 108	177 - 126	201 - 126	225 - 126	249 - 126	
18 - 120	40 - 126	64 - 126	88 - 126	112 - 126	136 - 126	160 - 102	178 - 126	202 - 126	226 - 126	250 - 126	
19 - 114	41 - 120	65 - 120	89 - 120	113 - 120	137 - 120		179 - 120	203 - 120	227 - 120	251 - 120	
20 - 114	42 - 120	66 - 120	90 - 120	114 - 120	138 - 120		180 - 120	204 - 120	228 - 120	252 - 120	
21 - 108	43 - 114	67 - 114	91 - 114	115 - 114	139 - 114		181 - 114	205 - 114	229 - 114	253 - 114	
22 - 102	44 - 114	68 - 114	92 - 114	116 - 114	140 - 114		182 - 114	206 - 114	230 - 114	254 - 114	
	45 - 108	69 - 108	93 - 108	117 - 108	141 - 108		183 - 108	207 - 108	231 - 108	255 - 108	
	46 - 102	70 - 102	94 - 102	118 - 102	142 - 102		184 - 102	208 - 102	232 - 102	256 - 102	

SUMMARY OF DROPS

23 - 102 IN DROP
24 - 108 IN DROP
47 - 114 IN DROP
44 - 120 IN DROP
46 - 126 IN DROP
80 - 132 IN DROP
264 - 24 IN WEIGHT

TOTAL OF 264 DROPS