

DEINES IRRIGATION INC.

SEPTEMBER 25, 2025

WISH-119616

CUSTOMER : SBE LAND

REINKE E65
7 TOWER - 1068.75 FT
SYSTEM 450 GPM @ 23 PSI

LEGAL : 3/4 REINKE
P.O. NO. : 13183

NELSON R3030 ROTATORS
NELSON 10 PSI REGULATORS
NELSON P85AS 17/32
ELEVATION 16 FT UP, 0 FT DOWN

2510 NORTH 10TH STREET
GERING, NEBRASKA 69341
(308)635-5344

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>			
DEINES IRRIGATION INC.			SBE LAND			
2510 NORTH 10TH STREET			3/4 REINKE			
GERING, NEBRASKA 69341			13183			
TOTAL TARGET GPM	450.00	FRICTION FACTOR USED	135	SPANS	LENGTH	PIPE I.D.
TOP OF PIVOT PRESSURE	23.00	TOTAL LENGTH	1068.75	1	157.25	6.415
ENDGUN TARGET GPM	37.52	NUMBER OF TOWERS	7	5	156.00	6.415
NUMBER OF OUTLETS	110	NUMBER OF SPRINKLERS	109	1	118.00	6.415
			OH			
NELSON R3030 ROTATORS - D10 OLIVE PLATES						
NELSON BLUE TOP 10 PSI INTEGRAL SERIES REGULATORS						
POLYDROPS® AVERAGE 7 FT						
ELEVATION IS 16 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		10.00	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	1	
2	19.50	19.50	0.21	0.85	22.79	11.46	R3030	12	GOLD	1	NNB10LF		78
3	9.50	29.00	0.20	0.85	22.58	11.45	R3030	12	GOLD	2	NNB10LF		78
4	9.50	38.50	0.26	0.85	22.40	11.45	R3030	12	GOLD	3	NNB10LF		84
5	9.50	48.00	0.33	0.85	22.25	11.44	R3030	12	GOLD	4	NNB10LF		84
6	9.50	57.50	0.39	0.85	22.12	11.45	R3030	12	GOLD	5	NNB10LF		90
7	9.50	67.00	0.46	0.85	22.02	11.44	R3030	12	GOLD	6	NNB10LF		90
8	9.50	76.50	0.52	0.85	21.95	11.44	R3030	12	GOLD	7	NNB10LF		90
9	9.50	86.00	0.58	0.84	21.91	11.44	R3030	12	GOLD	8	NNB10LF		90
10	9.50	95.50	0.65	0.84	21.89	11.44	R3030	12	GOLD	9	NNB10LF		90
11	9.50	105.00	0.71	0.84	21.89	11.44	R3030	12	GOLD	10	NNB10LF		90
12	9.50	114.50	0.78	0.84	21.93	11.43	R3030	12	GOLD	11	NNB10LF		84
13	9.50	124.00	0.84	0.84	21.99	11.44	R3030	12	GOLD	12	NNB10LF		84
14	9.50	133.50	0.91	0.84	22.08	11.43	R3030	12	GOLD	13	NNB10LF		78
15	9.50	143.00	0.97	0.98	22.19	11.41	R3030	13	GOLD	14	NNB10LF		78
16	9.50	152.50	1.26	1.31	22.26	11.34	R3030	15	LIME	15	NNB10LF		72
TOWER 1	157.25	157.25											
17	13.50	166.00	1.36	1.31	22.20	11.34	R3030	15	LIME	16	NNB10LF		72
18	9.50	175.50	1.19	1.13	22.03	11.38	R3030	14	LIME	17	NNB10LF		78
19	9.50	185.00	1.26	1.31	21.83	11.34	R3030	15	LIME	18	NNB10LF		78
20	9.50	194.50	1.32	1.31	21.65	11.34	R3030	15	LIME	19	NNB10LF		84
21	9.50	204.00	1.39	1.31	21.51	11.33	R3030	15	LIME	20	NNB10LF		84
22	9.50	213.50	1.45	1.49	21.38	11.30	R3030	16	LAVENDER	21	NNB10LF		90
23	9.50	223.00	1.51	1.49	21.29	11.30	R3030	16	LAVENDER	22	NNB10LF		90
24	9.50	232.50	1.58	1.49	21.22	11.30	R3030	16	LAVENDER	23	NNB10LF		90
25	9.50	242.00	1.64	1.68	21.18	11.26	R3030	17	LAVENDER	24	NNB10LF		90
26	9.50	251.50	1.71	1.68	21.16	11.26	R3030	17	LAVENDER	25	NNB10LF		90
27	9.50	261.00	1.77	1.85	21.17	11.23	R3030	18	GRAY	26	NNB10LF		90
28	9.50	270.50	1.84	1.85	21.21	11.23	R3030	18	GRAY	27	NNB10LF		84
29	9.50	280.00	1.90	1.85	21.28	11.23	R3030	18	GRAY	28	NNB10LF		84
30	9.50	289.50	1.97	1.85	21.37	11.23	R3030	18	GRAY	29	NNB10LF		78
31	9.50	299.00	2.03	2.08	21.49	11.19	R3030	19	GRAY	30	NNB10LF		78
32	9.50	308.50	2.55	2.51	21.56	11.11	R3030	21	TURQUOISE	31	NNB10LF		72
TOWER 2	156.00	313.25											
33	13.50	322.00	2.64	2.51	21.51	11.11	R3030	21	TURQUOISE	32	NNB10LF		72
34	9.50	331.50	2.25	2.31	21.34	11.14	R3030	20	TURQUOISE	33	NNB10LF		78
35	9.50	341.00	2.32	2.31	21.15	11.14	R3030	20	TURQUOISE	34	NNB10LF		78
36	9.50	350.50	2.38	2.31	20.98	11.14	R3030	20	TURQUOISE	35	NNB10LF		84
37	9.50	360.00	2.45	2.51	20.83	11.10	R3030	21	TURQUOISE	36	NNB10LF		84
38	9.50	369.50	2.51	2.51	20.72	11.11	R3030	21	TURQUOISE	37	NNB10LF		90
39	9.50	379.00	2.58	2.51	20.63	11.11	R3030	21	TURQUOISE	38	NNB10LF		90
40	9.50	388.50	2.64	2.51	20.57	11.10	R3030	21	TURQUOISE	39	NNB10LF		90
41	9.50	398.00	2.71	2.78	20.53	11.06	R3030	22	YELLOW	40	NNB10LF		90
42	9.50	407.50	2.77	2.78	20.52	11.06	R3030	22	YELLOW	41	NNB10LF		90
43	9.50	417.00	2.84	2.78	20.54	11.06	R3030	22	YELLOW	42	NNB10LF		90
44	9.50	426.50	2.90	3.00	20.59	11.02	R3030	23	YELLOW	43	NNB10LF		84
45	9.50	436.00	2.96	3.00	20.66	11.02	R3030	23	YELLOW	44	NNB10LF		84
46	9.50	445.50	3.03	3.00	20.76	11.02	R3030	23	YELLOW	45	NNB10LF		78

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
47	9.50	455.00	3.09	3.00	20.88	11.02	R3030	23	YELLOW	46	NNB10LF		78
48	9.50	464.50	3.83	3.85	20.96	10.81	R3030	26	WHITE	47	NNB10LF		72
TOWER 3	156.00	469.25											
49	13.50	478.00	3.93	3.85	20.92	10.81	R3030	26	WHITE	48	NNB10LF		72
50	9.50	487.50	3.32	3.31	20.76	10.96	R3030	24	RED	49	NNB10LF		78
51	9.50	497.00	3.38	3.31	20.57	10.96	R3030	24	RED	50	NNB10LF		78
52	9.50	506.50	3.45	3.56	20.41	10.89	R3030	25	RED	51	NNB10LF		84
53	9.50	516.00	3.51	3.56	20.28	10.89	R3030	25	RED	52	NNB10LF		84
54	9.50	525.50	3.57	3.56	20.17	10.89	R3030	25	RED	53	NNB10LF		90
55	9.50	535.00	3.64	3.56	20.09	10.89	R3030	25	RED	54	NNB10LF		90
56	9.50	544.50	3.70	3.85	20.03	10.80	R3030	26	WHITE	55	NNB10LF		90
57	9.50	554.00	3.77	3.85	20.01	10.80	R3030	26	WHITE	56	NNB10LF		90
58	9.50	563.50	3.83	3.85	20.01	10.80	R3030	26	WHITE	57	NNB10LF		90
59	9.50	573.00	3.89	3.85	20.03	10.80	R3030	26	WHITE	58	NNB10LF		90
60	9.50	582.50	3.96	3.85	20.09	10.80	R3030	26	WHITE	59	NNB10LF		84
61	9.50	592.00	4.03	4.11	20.17	10.72	R3030	27	WHITE	60	NNB10LF		84
62	9.50	601.50	4.09	4.11	20.28	10.72	R3030	27	WHITE	61	NNB10LF		78
63	9.50	611.00	4.15	4.11	20.41	10.72	R3030	27	WHITE	62	NNB10LF		78
64	9.50	620.50	5.12	5.05	20.50	10.45	R3030	30	DK BROWN	63	NNB10LF		72
TOWER 4	156.00	625.25											
65	13.50	634.00	5.21	5.33	20.47	10.36	R3030	31	DK BROWN	64	NNB10LF		72
66	9.50	643.50	4.37	4.45	20.32	10.62	R3030	28	BLUE	65	NNB10LF		78
67	9.50	653.00	4.44	4.45	20.14	10.62	R3030	28	BLUE	66	NNB10LF		78
68	9.50	662.50	4.50	4.45	19.99	10.62	R3030	28	BLUE	67	NNB10LF		84
69	9.50	672.00	4.57	4.45	19.87	10.62	R3030	28	BLUE	68	NNB10LF		84
70	9.50	681.50	4.63	4.74	19.77	10.53	R3030	29	BLUE	69	NNB10LF		90
71	9.50	691.00	4.70	4.74	19.70	10.53	R3030	29	BLUE	70	NNB10LF		90
72	9.50	700.50	4.76	4.74	19.65	10.53	R3030	29	BLUE	71	NNB10LF		90
73	9.50	710.00	4.83	4.74	19.63	10.53	R3030	29	BLUE	72	NNB10LF		90
74	9.50	719.50	4.89	4.74	19.64	10.53	R3030	29	BLUE	73	NNB10LF		90
75	9.50	729.00	4.96	5.05	19.68	10.44	R3030	30	DK BROWN	74	NNB10LF		90
76	9.50	738.50	5.02	5.05	19.74	10.44	R3030	30	DK BROWN	75	NNB10LF		84
77	9.50	748.00	5.09	5.05	19.84	10.44	R3030	30	DK BROWN	76	NNB10LF		84
78	9.50	757.50	5.15	5.05	19.95	10.44	R3030	30	DK BROWN	77	NNB10LF		78
79	9.50	767.00	5.22	5.33	20.10	10.35	R3030	31	DK BROWN	78	NNB10LF		78
80	9.50	776.50	6.40	6.38	20.20	10.04	R3030	34	DK GREEN	79	NNB10LF		72
TOWER 5	156.00	781.25											
81	13.50	790.00	6.50	6.38	20.18	10.04	R3030	34	DK GREEN	80	NNB10LF		72
82	9.50	799.50	5.44	5.33	20.04	10.36	R3030	31	DK BROWN	81	NNB10LF		78
83	9.50	809.00	5.51	5.33	19.87	10.35	R3030	31	DK BROWN	82	NNB10LF		78
84	9.50	818.50	5.58	5.70	19.73	10.24	R3030	32	ORANGE	83	NNB10LF		84
85	9.50	828.00	5.64	5.70	19.61	10.24	R3030	32	ORANGE	84	NNB10LF		84
86	9.50	837.50	5.70	5.70	19.53	10.24	R3030	32	ORANGE	85	NNB10LF		90
87	9.50	847.00	5.77	5.70	19.46	10.24	R3030	32	ORANGE	86	NNB10LF		90
88	9.50	856.50	5.84	5.70	19.43	10.24	R3030	32	ORANGE	87	NNB10LF		90
89	9.50	866.00	5.91	6.04	19.42	10.13	R3030	33	ORANGE	88	NNB10LF		90
90	9.50	875.50	5.97	6.04	19.44	10.13	R3030	33	ORANGE	89	NNB10LF		90
91	9.50	885.00	6.03	6.04	19.49	10.14	R3030	33	ORANGE	90	NNB10LF		90

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
92	9.50	894.50	6.09	6.04	19.56	10.13	R3030	33	ORANGE	91	NNB10LF		84
93	9.50	904.00	6.16	6.04	19.66	10.14	R3030	33	ORANGE	92	NNB10LF		84
94	9.50	913.50	6.23	6.38	19.78	10.03	R3030	34	DK GREEN	93	NNB10LF		78
95	9.50	923.00	6.29	6.38	19.94	10.03	R3030	34	DK GREEN	94	NNB10LF		78
96	9.50	932.50	7.69	7.53	20.05	9.98	R3030	37	PURPLE	95	NNB10LF		72
TOWER 6	156.00	937.25											
97	13.50	946.00	7.80	7.96	20.04	9.98	R3030	38	BLACK	96	NNB10LF		72
98	9.50	955.50	6.50	6.38	19.88	10.03	R3030	34	DK GREEN	97	NNB10LF		72
99	9.50	965.00	6.57	6.71	19.74	9.96	R3030	35	DK GREEN	98	NNB10LF		78
100	9.50	974.50	6.63	6.71	19.64	9.97	R3030	35	DK GREEN	99	NNB10LF		84
101	9.50	984.00	6.68	6.71	19.57	9.96	R3030	35	DK GREEN	100	NNB10LF		84
102	9.50	993.50	6.74	6.71	19.54	9.96	R3030	35	DK GREEN	101	NNB10LF		84
103	9.50	1003.00	6.81	6.71	19.54	9.96	R3030	35	DK GREEN	102	NNB10LF		84
104	9.50	1012.50	6.89	7.05	19.57	9.97	R3030	36	PURPLE	103	NNB10LF		84
105	9.50	1022.00	6.93	7.05	19.64	9.96	R3030	36	PURPLE	104	NNB10LF		78
106	9.50	1031.50	6.97	7.05	19.74	9.97	R3030	36	PURPLE	105	NNB10LF		78
107	9.50	1041.00	7.01	7.05	19.87	9.97	R3030	36	PURPLE	106	NNB10LF		72
108	9.50	1050.50	7.66	7.53	20.01	9.98	R3030	37	PURPLE	107	NNB10LF		72
TOWER 7	118.00	1055.25											
109	11.12	1061.62	6.03	6.04	20.01	10.13	R3030	33	ORANGE	108	NNB10LF		72
110	4.75	1066.37	5.99	6.04	20.01	10.13	R3030	33	ORANGE	109	NNB10LF		72
OVERHANG	13.50	1068.75		35.45	ENDGUN	(1)	NELSON	P85AS	17/32				

THERE IS NO BOOSTER PUMP

TOTAL GPM = 450.35

GPA = 5.01

MINIMUM RECOMMENDED REGULATOR INLET PRESSURE IS 15.00 PSI

WITH GRADUATED ELEVATION OF 16.00 FT THE INLET PRESSURE IS 15.28 PSI FOR SPRINKLER 106

THIS POSITION IS THE CLOSEST TO THE MINIMUM RECOMMENDED INLET PRESSURE

HYDRAULICS SUMMARY

TOWER NUMBER	ACRES UNDER SPAN	GPM NEED	ACTUAL GPM	PERCENT DEVIATION	GPM PER ACRE	AVERAGE IN. PER HR DELIVERED UNDER SPAN	AVERAGE IN. DELIVERED FOR REVOLUTION TIME		
							36 HR	48 HR	60 HR
1	1.78	8.93	13.08	47%	7.34	0.016	0.58	0.78	0.97
2	5.29	26.51	26.02	-2%	4.92	0.011	0.39	0.52	0.65
3	8.80	44.08	43.46	-1%	4.94	0.011	0.39	0.52	0.65
4	12.31	61.66	61.18	-1%	4.97	0.011	0.40	0.53	0.66
5	15.82	79.23	78.50	-1%	4.96	0.011	0.39	0.53	0.66
6	19.33	96.81	95.93	-1%	4.96	0.011	0.39	0.53	0.66
7	16.96	84.90	83.78	-1%	4.94	0.011	0.39	0.52	0.66
OVERHANG	2.07	10.35	12.95	25%	6.26	0.014	0.50	0.66	0.83
ENDGUN	6.80	37.52	35.45	4%	5.22				

TOTAL	89.17	450.00	450.35	5.05
-------	-------	--------	--------	------

SUMMARY OF SPRINKLERS

13 R3030 12 GOLD
1 R3030 13 GOLD
1 R3030 14 LIME
5 R3030 15 LIME
3 R3030 16 LAVENDER
2 R3030 17 LAVENDER
4 R3030 18 GRAY
1 R3030 19 GRAY
3 R3030 20 TURQUOISE
6 R3030 21 TURQUOISE
3 R3030 22 YELLOW
4 R3030 23 YELLOW
2 R3030 24 RED
4 R3030 25 RED
7 R3030 26 WHITE
3 R3030 27 WHITE
4 R3030 28 BLUE
5 R3030 29 BLUE
5 R3030 30 DK BROWN
4 R3030 31 DK BROWN
5 R3030 32 ORANGE
7 R3030 33 ORANGE
5 R3030 34 DK GREEN
5 R3030 35 DK GREEN
4 R3030 36 PURPLE
2 R3030 37 PURPLE
1 R3030 38 BLACK

1 PLUG**SUMMARY OF DROPS**

17 72 IN DROP
27 78 IN DROP
29 84 IN DROP
36 90 IN DROP

TOTAL OF 109 DROPS**SUMMARY OF REGULATORS**

109 Nelson Blue Int Uni Flo 10 psi

TOTAL OF 109 REGULATORS

NOZZLE POSITION CHART

R3030 12 GOLD	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
R3030 13 GOLD	14
R3030 14 LIME	17
R3030 15 LIME	15, 16, 18, 19, 20
R3030 16 LAVENDER	21, 22, 23
R3030 17 LAVENDER	24, 25
R3030 18 GRAY	26, 27, 28, 29
R3030 19 GRAY	30
R3030 20 TURQUOISE	33, 34, 35
R3030 21 TURQUOISE	31, 32, 36, 37, 38, 39
R3030 22 YELLOW	40, 41, 42
R3030 23 YELLOW	43, 44, 45, 46
R3030 24 RED	49, 50
R3030 25 RED	51, 52, 53, 54
R3030 26 WHITE	47, 48, 55, 56, 57, 58, 59
R3030 27 WHITE	60, 61, 62
R3030 28 BLUE	65, 66, 67, 68
R3030 29 BLUE	69, 70, 71, 72, 73
R3030 30 DK BROWN	63, 74, 75, 76, 77
R3030 31 DK BROWN	64, 78, 81, 82
R3030 32 ORANGE	83, 84, 85, 86, 87
R3030 33 ORANGE	88, 89, 90, 91, 92, 108,109
R3030 34 DK GREEN	79, 80, 93, 94, 97
R3030 35 DK GREEN	98, 99, 100,101,102
R3030 36 PURPLE	103,104,105,106
R3030 37 PURPLE	95, 107
R3030 38 BLACK	96

DEINES IRRIGATION INC.
2510 NORTH 10TH STREET
GERING, NEBRASKA 69341

SEPTEMBER 25, 2025
WISH-119616
SBE LAND
3/4 REINKE
450 GPM @ 23 PSI

REINKE E65
NELSON R3030 ROTATORS
NELSON 10 PSI REGULATORS
POLYDROPS®
NELSON P85AS 17/32

Rotation time at 100% = 11.07 Hours Or 664 minutes

Installation Chart

Page 1

Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg			
1	PLUG				10	90	57	26	10LF			
2	78	1	12	10LF	11	90	58	26	10LF			
3	78	2	12	10LF	12	84	59	26	10LF			
4	84	3	12	10LF	13	84	60	27	10LF			
5	84	4	12	10LF	14	78	61	27	10LF			
6	90	5	12	10LF	15	78	62	27	10LF			
7	90	6	12	10LF	16	72	63	30	10LF			
8	90	7	12	10LF								
9	90	8	12	10LF	1	72	64	31	10LF			
10	90	9	12	10LF	2	78	65	28	10LF			
11	90	10	12	10LF	3	78	66	28	10LF			
12	84	11	12	10LF	4	84	67	28	10LF			
13	84	12	12	10LF	5	84	68	28	10LF			
14	78	13	12	10LF	6	90	69	29	10LF			
15	78	14	13	10LF	7	90	70	29	10LF			
16	72	15	15	10LF	8	90	71	29	10LF			
	TOWER 1				9	90	72	29	10LF			
1	72	16	15	10LF	10	90	73	29	10LF			
2	78	17	14	10LF	11	90	74	30	10LF			
3	78	18	15	10LF	12	84	75	30	10LF			
4	84	19	15	10LF	13	84	76	30	10LF			
5	84	20	15	10LF	14	78	77	30	10LF			
6	90	21	16	10LF	15	78	78	31	10LF			
7	90	22	16	10LF	16	72	79	34	10LF			
8	90	23	16	10LF								
9	90	24	17	10LF	1	72	80	34	10LF			
10	90	25	17	10LF	2	78	81	31	10LF			
11	90	26	18	10LF	3	78	82	31	10LF			
12	84	27	18	10LF	4	84	83	32	10LF			
13	84	28	18	10LF	5	84	84	32	10LF			
14	78	29	18	10LF	6	90	85	32	10LF			
15	78	30	19	10LF	7	90	86	32	10LF			
16	72	31	21	10LF	8	90	87	32	10LF			
	TOWER 2				9	90	88	33	10LF			
1	72	32	21	10LF	10	90	89	33	10LF			
2	78	33	20	10LF	11	90	90	33	10LF			
3	78	34	20	10LF	12	84	91	33	10LF			
4	84	35	20	10LF	13	84	92	33	10LF			
5	84	36	21	10LF	14	78	93	34	10LF			
6	90	37	21	10LF	15	78	94	34	10LF			
7	90	38	21	10LF	16	72	95	37	10LF			
8	90	39	21	10LF								
9	90	40	22	10LF	1	72	96	38	10LF			
10	90	41	22	10LF	2	72	97	34	10LF			
11	90	42	22	10LF	3	78	98	35	10LF			
12	84	43	23	10LF	4	84	99	35	10LF			
13	84	44	23	10LF	5	84	100	35	10LF			
14	78	45	23	10LF	6	84	101	35	10LF			
15	78	46	23	10LF	7	84	102	35	10LF			
16	72	47	26	10LF	8	84	103	36	10LF			
	TOWER 3				9	78	104	36	10LF			
1	72	48	26	10LF	10	78	105	36	10LF			
2	78	49	24	10LF	11	72	106	36	10LF			
3	78	50	24	10LF	12	72	107	37	10LF			
4	84	51	25	10LF								
5	84	52	25	10LF	1	72	108	33	10LF			
6	90	53	25	10LF	2	72	109	33	10LF			
7	90	54	25	10LF								
8	90	55	26	10LF								
9	90	56	26	10LF								

PRECIPITATION CHART FOR FULL CIRCLE

WISH-119616

SEPTEMBER 25, 2025

DEALER - DEINES IRRIGATION INC.

IRRIGATOR - SBE LAND

FIELD - 3/4 REINKE

TOTAL LENGTH PIPE = 1068.75 SYSTEM PRESSURE = 23 PSI
 GPM UNDER PIPE = 414.90 TOTAL GPM = 450.35
 ACRES UNDER PIPE = 82.38
 RANGE OF ENDGUN = 43.21 RUN FOR MINIMUM PRESSURE
 GPM OF ENDGUN = 35.45
 ACRES UNDER ENDGUN = 6.80
 WATERING LENGTH = 1111.96

MOTOR SIZE (HP) = 3/4
 LOADED MOTOR RPM = 1745
 CENTER GEAR BOX RATIO = 40
 WHEEL GEAR BOX RATIO = 50
 TIRE SIZE = 11 X 22.5
 LAST TOWER SPEED (FPM) = 9.98

PRECIPITATION DATA FIGURED WITH ENDGUN RUNNING

PRECIPITATION BASED			% TIMER BASED		
PRECIPITATION INCHES	% TIMER SETTING	TIME HOURS	% TIMER SETTING	PRECIPITATION INCHES	TIME HOURS
.12	100.00	11.07 - 664(min)	100.00	.12	11.07 - 664(min)
.20	61.61	17.97	90.00	.14	12.30
.25	49.29	22.46	80.00	.15	13.84
.30	41.07	26.96	70.00	.18	15.82
.40	30.81	35.94	60.00	.21	18.45
.50	24.64	44.93	50.00	.25	22.15
.60	20.54	53.92	45.00	.27	24.61
.70	17.60	62.90	40.00	.31	27.68
.75	16.43	67.39	35.00	.35	31.64
.80	15.40	71.89	30.00	.41	36.91
.90	13.69	80.87	25.00	.49	44.29
1.00	12.32	89.86	20.00	.62	55.36
1.25	9.86	112.32	15.00	.82	73.82
1.50	8.21	134.79	10.00	1.23	110.73
1.75	7.04	157.25	5.00	2.46	221.45

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.

DEALER - DEINES IRRIGATION INC.
P.O. - 13183

IRRIGATOR - SBE LAND
FIELD - 3/4 REINKE

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>	ENDBOOM <u>POS/LEN</u>
1 - 78	16 - 72	32 - 72	48 - 72	64 - 72	80 - 72	96 - 72	108 - 72
2 - 78	17 - 78	33 - 78	49 - 78	65 - 78	81 - 78	97 - 72	109 - 72
3 - 84	18 - 78	34 - 78	50 - 78	66 - 78	82 - 78	98 - 78	
4 - 84	19 - 84	35 - 84	51 - 84	67 - 84	83 - 84	99 - 84	
5 - 90	20 - 84	36 - 84	52 - 84	68 - 84	84 - 84	100 - 84	
6 - 90	21 - 90	37 - 90	53 - 90	69 - 90	85 - 90	101 - 84	
7 - 90	22 - 90	38 - 90	54 - 90	70 - 90	86 - 90	102 - 84	
8 - 90	23 - 90	39 - 90	55 - 90	71 - 90	87 - 90	103 - 84	
9 - 90	24 - 90	40 - 90	56 - 90	72 - 90	88 - 90	104 - 78	
10 - 90	25 - 90	41 - 90	57 - 90	73 - 90	89 - 90	105 - 78	
11 - 84	26 - 90	42 - 90	58 - 90	74 - 90	90 - 90	106 - 72	
12 - 84	27 - 84	43 - 84	59 - 84	75 - 84	91 - 84	107 - 72	
13 - 78	28 - 84	44 - 84	60 - 84	76 - 84	92 - 84		
14 - 78	29 - 78	45 - 78	61 - 78	77 - 78	93 - 78		
15 - 72	30 - 78	46 - 78	62 - 78	78 - 78	94 - 78		
	31 - 72	47 - 72	63 - 72	79 - 72	95 - 72		

SUMMARY OF DROPS

17 - 72 IN DROP
27 - 78 IN DROP
29 - 84 IN DROP
36 - 90 IN DROP

TOTAL OF 109 DROPS
POLY STEEL MALE X PLASTIC MALE