

AQUA IRRIGATION

SEPTEMBER 30, 2025

WISH-119632

CUSTOMER : BARTLETT

2018 LINDSAY 9500 - 90

7 TOWER - 1300.47 FT

SYSTEM 900 GPM @ 40 PSI

NELSON R3000 ROTATORS

NELSON 20 & 10 PSI REGULATORS

SENNINGER END SPRAY X 38

ELEVATION 0 FT UP, 0 FT DOWN

9370 COUNTY ROAD 35
ATWOOD, COLORADO 80722
(970)522-7560

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>				
AQUA IRRIGATION			BARTLETT				
9370 COUNTY ROAD 35							
ATWOOD, COLORADO 80722							
TOTAL TARGET GPM	900.00	FRICTION FACTOR USED	138	SPAN #	LENGTH	PIPE I.D.	# OF HEADS
TOP OF PIVOT PRESSURE	40.00	TOTAL LENGTH	1300.47	1	181.60	6.395	10
ENDGUN TARGET GPM	50.51	NUMBER OF TOWERS	7	2	179.00	6.395	12
NUMBER OF OUTLETS	181	NUMBER OF SPRINKLERS	117	3	179.00	6.395	12
				4	179.00	6.395	12
NELSON R3000 ROTATORS - D8 ORANGE PLATES FIRST 54 POSITIONS				5	179.00	6.395	17
NELSON R3000 PART CIRCLE ROTATORS AT TOWERS AS SHOWN				6	179.00	6.395	24
NELSON A3000 ACCELERATORS - D6 GOLD PLATES BALANCE				7	179.00	6.395	24
NELSON BLUE TOP 20 & 10 PSI INTEGRAL SERIES REGULATORS				OH	44.87	5.369	6
POLYDROPS® AVERAGE 6 FT							
ELEVATION IS 0 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.

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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	
5	29.93	29.93	0.84	1.57	39.07	22.09	R3000	14	LIME								1	NNB20LF		66
6		37.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	
7		44.76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	
8	21.83	51.76	0.92	1.57	38.36	22.09	R3000	14	LIME								2	NNB20LF		78
9		59.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	
10	14.83	66.59	0.98	1.57	37.96	22.09	R3000	14	LIME								3	NNB20LF		84
11		73.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	
12	14.67	81.26	1.19	1.57	37.63	22.09	R3000	14	LIME								4	NNB20LF		84
13		88.76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	
14	14.50	95.76	1.41	1.57	37.37	22.09	R3000	14	LIME								5	NNB20LF		84
15		103.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	
16	14.83	110.59	1.63	1.57	37.17	22.09	R3000	14	LIME								6	NNB20LF		84
17		117.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	
18	14.67	125.26	1.83	1.82	37.04	21.96	R3000	15	LIME/LAV								7	NNB20LF		78
19		132.76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	
20	14.50	139.76	2.05	2.07	36.97	21.83	R3000	16	LAVENDER								8	NNB20LF		72
21		147.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	
22	14.83	154.59	2.28	2.32	36.97	21.71	R3000	17	LAV/GRAY								9	NNB20LF		66
23		161.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	
24	14.67	169.26	2.74	2.89	37.03	21.44	PCW R3000	19	GRAY/TURQ								10	NNB20LF		60S40
25		176.76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	
TOWER 1	181.60	181.60																		
26		182.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	
27	17.50	186.76	3.01	2.89	36.80	21.43	PCW R3000	19	GRAY/TURQ								11	NNB20LF		54S40
28		194.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	
29	14.83	201.59	2.98	2.89	36.29	21.43	R3000	19	GRAY/TURQ								12	NNB20LF		66
30		208.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	
31	14.67	216.26	3.16	3.20	35.77	21.27	R3000	20	TURQUOISE								13	NNB20LF		72
32		223.76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	
33	14.50	230.76	3.39	3.46	35.33	21.15	R3000	21	TURQ/YEL								14	NNB20LF		78
34		238.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	
35	14.83	245.59	3.63	3.46	34.95	21.15	R3000	21	TURQ/YEL								15	NNB20LF		84
36		252.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	
37	14.67	260.26	3.80	3.82	34.63	20.97	R3000	22	YELLOW								16	NNB20LF		84
38		267.76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	
39	14.50	274.76	4.04	4.14	34.39	20.85	R3000	23	YEL/RED								17	NNB20LF		84
40		282.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	
41	14.83	289.59	4.28	4.14	34.20	20.85	R3000	23	YEL/RED								18	NNB20LF		84
42		296.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	
43	14.67	304.26	4.45	4.54	34.09	20.76	R3000	24	RED								19	NNB20LF		78
44		311.76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	
45	14.50	318.76	4.68	4.54	34.04	20.76	R3000	24	RED								20	NNB20LF		72
46		326.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	
47	14.83	333.59	4.93	4.90	34.06	20.68	R3000	25	RED/WHITE								21	NNB20LF		66

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	TOWER 2	14.67	340.93	-	-	-	-	-	-	-	-	-	-	-	27	60S40
49		348.26	5.62	5.68	34.15	20.52	PCT	R3000	27	WHITE/BLUE	22	NNB20LF	28			
50		179.00	355.76	-	-	-	-	-	-	-	-	-	-	29		
51		360.60	-	-	-	-	-	-	-	-	-	-	-	30		
52		361.59	-	-	-	-	-	-	-	-	-	-	-	31		
53	17.50	365.76	5.91	5.68	33.94	20.51	PCT	R3000	27	WHITE/BLUE	23	NNB20LF	32	54S40		
54	14.83	373.26	-	-	-	-	-	-	-	-	-	-	-	33	66	
55	14.67	380.59	5.63	5.68	33.46	20.51	R3000	27	WHITE/BLUE	24	NNB20LF	34	72			
56	14.50	387.93	-	-	-	-	-	-	-	-	-	-	-	35	78	
57	14.67	395.26	5.78	5.68	32.97	20.50	R3000	27	WHITE/BLUE	25	NNB20LF	36	84			
58	14.83	402.76	-	-	-	-	-	-	-	-	-	-	-	37	84	
59	14.50	409.76	6.02	6.17	32.56	20.40	R3000	28	BLUE	26	NNB20LF	38	84			
60	14.67	417.26	-	-	-	-	-	-	-	-	-	-	-	39	84	
61	14.83	424.59	6.27	6.17	32.20	20.40	R3000	28	BLUE	27	NNB20LF	40	84			
62	14.50	431.93	-	-	-	-	-	-	-	-	-	-	-	41	84	
63	14.67	439.26	6.42	6.58	31.92	20.30	R3000	29	BLUE/DK BRN	28	NNB20LF	42	84			
64	14.83	446.76	-	-	-	-	-	-	-	-	-	-	-	43	84	
65	14.50	453.76	6.67	6.58	31.70	20.30	R3000	29	BLUE/DK BRN	29	NNB20LF	44	84			
66	14.67	461.26	-	-	-	-	-	-	-	-	-	-	-	45	84	
67	14.83	468.59	6.93	7.03	31.55	20.21	R3000	30	DK BROWN	30	NNB20LF	46	84			
68	14.50	475.93	-	-	-	-	-	-	-	-	-	-	-	47	84	
69	14.67	483.26	7.06	7.02	31.47	20.20	R3000	30	DK BROWN	31	NNB20LF	48	84			
70	14.83	490.76	-	-	-	-	-	-	-	-	-	-	-	49	84	
71	14.50	497.76	7.32	7.42	31.46	20.11	R3000	31	DK BRN/ORN	32	NNB20LF	50	84			
72	14.67	505.26	-	-	-	-	-	-	-	-	-	-	-	51	84	
73	14.83	512.59	7.57	7.42	31.51	20.11	R3000	31	DK BRN/ORN	33	NNB20LF	52	84			
74	14.50	519.93	-	-	-	-	-	-	-	-	-	-	-	53	84	
75	14.67	527.26	8.51	8.48	31.64	19.94	PCT	R3000	33	ORN/DK GRN	34	NNB20LF	54	84		
76	179.00	534.76	-	-	-	-	-	-	-	-	-	-	-	55	84	
77	17.50	539.60	-	-	-	-	-	-	-	-	-	-	-	56	84	
78	14.83	540.59	8.81	8.98	31.48	19.88	PCT	R3000	34	DK GREEN	35	NNB20LF	57	84		
79	14.50	544.76	-	-	-	-	-	-	-	-	-	-	-	58	84	
80	14.67	552.26	8.27	8.48	31.03	19.94	R3000	33	ORN/DK GRN	36	NNB20LF	59	84			
81	14.83	559.59	-	-	-	-	-	-	-	-	-	-	-	60	84	
82	14.50	566.93	8.39	8.47	30.59	19.93	R3000	33	ORN/DK GRN	37	NNB20LF	61	84			
83	14.67	574.26	-	-	-	-	-	-	-	-	-	-	-	62	84	
84	14.83	581.76	8.65	8.47	30.21	19.92	R3000	33	ORN/DK GRN	38	NNB20LF	63	84			
85	14.50	588.76	-	-	-	-	-	-	-	-	-	-	-	64	84	
86	14.67	596.26	8.92	8.98	29.90	19.87	R3000	34	DK GREEN	39	NNB20LF	65	84			
87	14.83	603.59	-	-	-	-	-	-	-	-	-	-	-	66	84	
88	14.50	610.93	9.03	8.98	29.66	19.86	R3000	34	DK GREEN	40	NNB20LF	67	84			
89	14.67	618.26	-	-	-	-	-	-	-	-	-	-	-	68	84	
90	14.83	625.76	9.30	9.45	29.48	19.81	R3000	35	DK GRN/PUR	41	NNB20LF	69	84			
91	14.50	632.76	-	-	-	-	-	-	-	-	-	-	-	70	84	
92	14.67	640.26	9.57	9.45	29.38	19.80	R3000	35	DK GRN/PUR	42	NNB20LF	71	84			
93	14.83	647.59	-	-	-	-	-	-	-	-	-	-	-	72	84	
94	14.50	654.93	-	-	-	-	-	-	-	-	-	-	-	73	84	
95	14.67	662.26	9.67	9.45	29.34	19.80	R3000	35	DK GRN/PUR	43	NNB20LF	74	84			

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		669.76	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	51	
95	14.50	676.76	9.95	9.92	29.37	19.74	R3000	36	PURPLE				44	NNB20LF		72
96		684.26	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	52	
97	14.83	691.59	10.22	9.91	29.48	19.74	R3000	36	PURPLE				45	NNB20LF		66
98		698.93	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	53	
99	14.67	706.26	11.40	11.16	29.65	19.59	PCT	R3000	38	BLACK			46	NNB20LF		60S40
100		713.76	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	54	
TOWER 4	179.00	718.60														
101		719.59	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	55	
102	17.50	723.76	11.72	11.76	29.54	19.52	PCT	R3000	39	BLK/DTURQ			47	NNB20LF		54S40
103		731.26	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	56	
104	14.83	738.59	10.92	11.16	29.15	19.59	R3000	38	BLACK				48	NNB20LF		66
105		745.93	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	57	
106	14.67	753.26	11.01	11.16	28.75	19.58	R3000	38	BLACK				49	NNB20LF		72
107		760.76	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	58	
108	14.50	767.76	11.28	11.16	28.42	19.57	R3000	38	BLACK				50	NNB20LF		78
109		775.26	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	59	
110	14.83	782.59	11.57	11.76	28.16	19.49	R3000	39	BLK/DTURQ				51	NNB20LF		84
111		789.93	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	60	
112	14.67	797.26	11.65	11.75	27.97	19.46	R3000	39	BLK/DTURQ				52	NNB20LF		84
113		804.76	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	61	
114	14.50	811.76	11.93	11.74	27.84	19.45	R3000	39	BLK/DTURQ				53	NNB20LF		84
115		819.26	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	62	
116	14.83	826.59	9.16	8.97	27.79	19.80	R3000	34	DK GREEN				54	NNB20LF		84
117	7.34	833.93	6.13	6.12	27.79	10.39	A3000	33	ORN/DK GRN				55	NNB10LF		84
118	7.33	841.26	6.25	6.12	27.80	10.39	A3000	33	ORN/DK GRN				56	NNB10LF		78
119	7.50	848.76	6.17	6.12	27.84	10.39	A3000	33	ORN/DK GRN				57	NNB10LF		78
120	7.00	855.76	6.22	6.11	27.89	10.38	A3000	33	ORN/DK GRN				58	NNB10LF		72
121	7.50	863.26	6.42	6.47	27.95	10.30	A3000	34	DK GREEN				59	NNB10LF		72
122	7.33	870.59	6.41	6.46	28.04	10.30	A3000	34	DK GREEN				60	NNB10LF		66
123	7.34	877.93	6.46	6.47	28.14	10.30	A3000	34	DK GREEN				61	NNB10LF		66
124	7.33	885.26	6.58	6.56	28.26	20.18	PCT	R3000	29	BLUE/DK BRN			62	NNB20LF		60S40
125	7.50	892.76	7.84	7.94	28.28	19.88	PCT	R3000	32	ORANGE			63	NNB20LF		54S40
TOWER 5	179.00	897.60														
126		898.59	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	63	
127	10.00	902.76	7.92	7.94	28.22	19.88	PCT	R3000	32	ORANGE			64	NNB20LF		54S40
128	7.50	910.26	6.77	6.56	28.07	20.17	PCT	R3000	29	BLUE/DK BRN			65	NNB20LF		60S40
129	7.33	917.59	6.75	6.80	27.87	10.25	A3000	35	DK GRN/PUR				66	NNB10LF		66
130	7.34	924.93	6.81	6.80	27.69	10.25	A3000	35	DK GRN/PUR				67	NNB10LF		66
131	7.33	932.26	6.94	6.80	27.53	10.25	A3000	35	DK GRN/PUR				68	NNB10LF		72
132	7.50	939.76	6.84	6.80	27.38	10.24	A3000	35	DK GRN/PUR				69	NNB10LF		72
133	7.00	946.76	6.89	6.80	27.25	10.24	A3000	35	DK GRN/PUR				70	NNB10LF		78
134	7.50	954.26	7.10	7.14	27.13	10.23	A3000	36	PURPLE				71	NNB10LF		78
135	7.33	961.59	7.08	7.14	27.04	10.23	A3000	36	PURPLE				72	NNB10LF		84
136	7.34	968.93	7.13	7.14	26.96	10.23	A3000	36	PURPLE				73	NNB10LF		84
137	7.33	976.26	7.27	7.14	26.90	10.23	A3000	36	PURPLE				74	NNB10LF		84
138	7.50	983.76	7.16	7.14	26.85	10.22	A3000	36	PURPLE				75	NNB10LF		84
139	7.00	990.76	7.21	7.14	26.82	10.22	A3000	36	PURPLE				76	NNB10LF		84

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	7.43	7.62	26.81	10.20	A3000	37	PUR/BLK	77	NNB10LF		84
141	7.33	1005.59	7.40	7.62	26.82	10.20	A3000	37	PUR/BLK	78	NNB10LF		84
142	7.34	1012.93	7.45	7.62	26.84	10.21	A3000	37	PUR/BLK	79	NNB10LF		84
143	7.33	1020.26	7.58	7.62	26.88	10.20	A3000	37	PUR/BLK	80	NNB10LF		78
144	7.50	1027.76	7.47	7.62	26.94	10.20	A3000	37	PUR/BLK	81	NNB10LF		78
145	7.00	1034.76	7.52	7.61	27.02	10.20	A3000	37	PUR/BLK	82	NNB10LF		72
146	7.50	1042.26	7.74	7.62	27.11	10.20	A3000	37	PUR/BLK	83	NNB10LF		72
147	7.33	1049.59	7.71	7.61	27.22	10.20	A3000	37	PUR/BLK	84	NNB10LF		66
148	7.34	1056.93	7.77	7.62	27.35	10.20	A3000	37	PUR/BLK	85	NNB10LF		66
149	7.33	1064.26	7.92	7.93	27.49	19.83	PCT	R3000	32 ORANGE	86	NNB20LF		60S40
150	7.50	1071.76	9.41	9.41	27.53	19.61	PCT	R3000	35 DK GRN/PUR	87	NNB20LF		54S40
TOWER 6	179.00	1076.60											
151		1077.59	-	-	-	-	-	-	-	-	-	-	64
152	10.00	1081.76	9.49	9.41	27.50	19.60	PCT	R3000	35 DK GRN/PUR	88	NNB20LF		54S40
153	7.50	1089.26	8.10	7.92	27.38	19.82	PCT	R3000	32 ORANGE	89	NNB20LF		60S40
154	7.33	1096.59	8.08	8.04	27.20	10.18	A3000	38	BLACK	90	NNB10LF		66
155	7.34	1103.93	8.13	8.04	27.05	10.18	A3000	38	BLACK	91	NNB10LF		66
156	7.33	1111.26	8.28	8.49	26.90	10.17	A3000	39	BLK/DTURQ	92	NNB10LF		72
157	7.50	1118.76	8.14	8.04	26.77	10.18	A3000	38	BLACK	93	NNB10LF		72
158	7.00	1125.76	8.20	8.04	26.67	10.18	A3000	38	BLACK	94	NNB10LF		78
159	7.50	1133.26	8.44	8.49	26.58	10.16	A3000	39	BLK/DTURQ	95	NNB10LF		78
160	7.33	1140.59	8.40	8.49	26.50	10.17	A3000	39	BLK/DTURQ	96	NNB10LF		84
161	7.34	1147.93	8.45	8.49	26.45	10.16	A3000	39	BLK/DTURQ	97	NNB10LF		84
162	7.33	1155.26	8.60	8.49	26.40	10.16	A3000	39	BLK/DTURQ	98	NNB10LF		84
163	7.50	1162.76	8.47	8.49	26.38	10.16	A3000	39	BLK/DTURQ	99	NNB10LF		84
164	7.00	1169.76	8.52	8.49	26.37	10.16	A3000	39	BLK/DTURQ	100	NNB10LF		84
165	7.50	1177.26	8.77	8.92	26.38	10.15	A3000	40	DK TURQ	101	NNB10LF		84
166	7.33	1184.59	8.72	8.92	26.41	10.15	A3000	40	DK TURQ	102	NNB10LF		84
167	7.34	1191.93	8.76	8.92	26.45	10.15	A3000	40	DK TURQ	103	NNB10LF		84
168	7.33	1199.26	8.90	8.92	26.51	10.15	A3000	40	DK TURQ	104	NNB10LF		78
169	7.50	1206.76	8.76	8.92	26.59	10.15	A3000	40	DK TURQ	105	NNB10LF		78
170	7.00	1213.76	8.80	8.91	26.68	10.15	A3000	40	DK TURQ	106	NNB10LF		72
171	7.50	1221.26	9.04	8.92	26.79	10.15	A3000	40	DK TURQ	107	NNB10LF		72
172	7.33	1228.59	9.01	8.92	26.92	10.15	A3000	40	DK TURQ	108	NNB10LF		66
173	7.34	1235.93	9.07	8.92	27.07	10.15	A3000	40	DK TURQ	109	NNB10LF		66
174	7.33	1243.26	9.24	9.40	27.23	19.59	PCT	R3000	35 DK GRN/PUR	110	NNB20LF		60S40
175	7.50	1250.76	10.46	10.51	27.28	19.41	PCT	R3000	37 PUR/BLK	111	NNB20LF		54S40
TOWER 7	179.00	1255.60											
PIPE ID CHANGES FROM 6.395 TO 5.369													
176	9.21	1259.97	10.52	10.51	27.28	19.41	PCT	R3000	37 PUR/BLK	112	NNB20LF		54S40
177	7.50	1267.47	9.39	9.40	27.27	19.58	PCT	R3000	35 DK GRN/PUR	113	NNB20LF		54S40
178	7.33	1274.80	9.35	9.43	27.27	10.13	A3000	41	DTURQ/MUS	114	NNB10LF		54
179	7.34	1282.14	9.37	9.43	27.26	10.13	A3000	41	DTURQ/MUS	115	NNB10LF		54
180	7.33	1289.47	9.50	9.43	27.26	10.13	A3000	41	DTURQ/MUS	116	NNB10LF		54
181	7.50	1296.97	9.45	9.43	27.26	10.13	A3000	41	DTURQ/MUS	117	NNB10LF		54
OVERHANG	44.87	1300.47		51.06	ENDGUN		(1)	SENNINGER END SPRAY X 38					

THERE IS NO BOOSTER PUMP

TOTAL GPM = 900.58

GPA = 6.96

MINIMUM RECOMMENDED REGULATOR INLET PRESSURE IS 25.00 PSI

WITH GRADUATED ELEVATION OF .00 FT THE INLET PRESSURE IS 28.20 PSI FOR SPRINKLER 112

THIS POSITION IS THE CLOSEST TO THE MINIMUM RECOMMENDED INLET PRESSURE

HYDRAULICS SUMMARY

<u>TOWER NUMBER</u>	<u>ACRES UNDER SPAN</u>	<u>GPM NEED</u>	<u>ACTUAL GPM</u>	<u>PERCENT DEVIATION</u>	<u>GPM PER ACRE</u>	<u>AVERAGE</u>	<u>AVERAGE IN. DELIVERED</u>		
						<u>IN. PER HR DELIVERED UNDER SPAN</u>	<u>FOR REVOLUTION TIME</u>		
							<u>36 HR</u>	<u>48 HR</u>	<u>60 HR</u>
1	2.38	16.56	19.09	15%	8.03	0.018	0.64	0.85	1.06
2	7.00	48.75	48.22	-1%	6.89	0.015	0.55	0.73	0.91
3	11.62	80.94	80.66	0%	6.94	0.015	0.55	0.74	0.92
4	16.24	113.13	112.30	-1%	6.91	0.015	0.55	0.73	0.92
5	20.86	145.31	145.19	0%	6.96	0.015	0.55	0.74	0.92
6	25.49	177.50	177.19	0%	6.95	0.015	0.55	0.74	0.92
7	30.11	209.69	209.49	0%	6.96	0.015	0.55	0.74	0.92
OVERHANG	8.27	57.61	57.37	0%	6.94	0.015	0.55	0.74	0.92
ENDGUN	5.69	50.51	51.06	29%	8.97				
TOTAL	127.67	900.00	900.58		7.05				

SUMMARY OF SPRINKLERS

6 R3000 14 LIME
1 R3000 15 LIME/LAV
1 R3000 16 LAVENDER
1 R3000 17 LAV/GRAY
1 R3000 19 GRAY/TURQ
1 R3000 20 TURQUOISE
2 R3000 21 TURQ/YEL
1 R3000 22 YELLOW
2 R3000 23 YEL/RED
2 R3000 24 RED
1 R3000 25 RED/WHITE
2 R3000 27 WHITE/BLUE
2 R3000 28 BLUE
2 R3000 29 BLUE/DK BRN
2 R3000 30 DK BROWN
2 R3000 31 DK BRN/ORN
3 R3000 33 ORN/DK GRN
3 R3000 34 DK GREEN
3 R3000 35 DK GRN/PUR
2 R3000 36 PURPLE
3 R3000 38 BLACK
3 R3000 39 BLK/DTURQ
4 A3000 33 ORN/DK GRN
3 A3000 34 DK GREEN
5 A3000 35 DK GRN/PUR
6 A3000 36 PURPLE
9 A3000 37 PUR/BLK
4 A3000 38 BLACK
7 A3000 39 BLK/DTURQ
9 A3000 40 DK TURQ
4 A3000 41 DTURQ/MUS
2 PCW R3000 19 GRAY/TURQ
2 PCT R3000 27 WHITE/BLUE
2 PCT R3000 29 BLUE/DK BRN
4 PCT R3000 32 ORANGE
1 PCT R3000 33 ORN/DK GRN
1 PCT R3000 34 DK GREEN
4 PCT R3000 35 DK GRN/PUR
2 PCT R3000 37 PUR/BLK
1 PCT R3000 38 BLACK
1 PCT R3000 39 BLK/DTURQ

64 PLUGS**SUMMARY OF DROPS**

4 54 IN DROP
19 66 IN DROP
18 72 IN DROP
19 78 IN DROP
37 84 IN DROP
11 54S40
9 60S40

TOTAL OF 117 DROPS**SUMMARY OF REGULATORS**

66 Nelson Blue Int Uni Flo 20 psi
51 Nelson Blue Int Uni Flo 10 psi

TOTAL OF 117 REGULATORS

NOZZLE POSITION CHART

R3000 14 LIME	1, 2, 3, 4, 5, 6
R3000 15 LIME/LAV	7
R3000 16 LAVENDER	8
R3000 17 LAV/GRAY	9
R3000 19 GRAY/TURQ	12
R3000 20 TURQUOISE	13
R3000 21 TURQ/YEL	14, 15
R3000 22 YELLOW	16
R3000 23 YEL/RED	17, 18
R3000 24 RED	19, 20
R3000 25 RED/WHITE	21
R3000 27 WHITE/BLUE	24, 25
R3000 28 BLUE	26, 27
R3000 29 BLUE/DK BRN	28, 29
R3000 30 DK BROWN	30, 31
R3000 31 DK BRN/ORN	32, 33
R3000 33 ORN/DK GRN	36, 37, 38
R3000 34 DK GREEN	39, 40, 54
R3000 35 DK GRN/PUR	41, 42, 43
R3000 36 PURPLE	44, 45
R3000 38 BLACK	48, 49, 50
R3000 39 BLK/DTURQ	51, 52, 53
A3000 33 ORN/DK GRN	55, 56, 57, 58
A3000 34 DK GREEN	59, 60, 61
A3000 35 DK GRN/PUR	66, 67, 68, 69, 70
A3000 36 PURPLE	71, 72, 73, 74, 75, 76
A3000 37 PUR/BLK	77, 78, 79, 80, 81, 82, 83, 84, 85
A3000 38 BLACK	90, 91, 93, 94
A3000 39 BLK/DTURQ	92, 95, 96, 97, 98, 99, 100
A3000 40 DK TURQ	101,102,103,104,105,106,107,108,109
A3000 41 DTURQ/MUS	114,115,116,117
PCW R3000 19 GRAY/TURQ	10, 11
PCT R3000 27 WHITE/BLUE	22, 23
PCT R3000 29 BLUE/DK BRN	62, 65
PCT R3000 32 ORANGE	63, 64, 86, 89
PCT R3000 33 ORN/DK GRN	34
PCT R3000 34 DK GREEN	35
PCT R3000 35 DK GRN/PUR	87, 88, 110,113
PCT R3000 37 PUR/BLK	111,112
PCT R3000 38 BLACK	46
PCT R3000 39 BLK/DTURQ	47

AQUA IRRIGATION

9370 COUNTY ROAD 35

ATWOOD, COLORADO 80722

SEPTEMBER 30, 2025
WISH-119632
BARTLETT

2018 LINDSAY 9500 - 90
NELSON R3000 ROTATORS
NELSON 20 & 10 PSI REGULATORS
POLYDROPS®
SENNINGER END SPRAY X 38

Rotation time at 100% = 10.52 Hours Or 631 minutes

900 GPM @ 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
1	PLUG				9	PLUG				17	84	55	33	10LF	25	54S40111		37	20LF
2	PLUG				10	84	27	28	20LF	18	78	56	33	10LF		TOWER 7			
3	PLUG				11	PLUG				19	78	57	33	10LF	1	54S40112		37	20LF
4	PLUG				12	84	28	29	20LF	20	72	58	33	10LF	2	54S40113		35	20LF
5	66	1	14	20LF	13	PLUG				21	72	59	34	10LF	3	54	114	41	10LF
6	PLUG				14	84	29	29	20LF	22	66	60	34	10LF	4	54	115	41	10LF
7	PLUG				15	PLUG				23	66	61	34	10LF	5	54	116	41	10LF
8	78	2	14	20LF	16	84	30	30	20LF	24	60S4062		29	20LF	6	54	117	41	10LF
9	PLUG				17	PLUG				25	54S4063		32	20LF					
10	84	3	14	20LF	18	78	31	30	20LF		TOWER 5								
11	PLUG				19	PLUG				1	PLUG								
12	84	4	14	20LF	20	72	32	31	20LF	2	54S4064		32	20LF					
13	PLUG				21	PLUG				3	60S4065		29	20LF					
14	84	5	14	20LF	22	66	33	31	20LF	4	66	66	35	10LF					
15	PLUG				23	PLUG				5	66	67	35	10LF					
16	84	6	14	20LF	24	60S4034		33	20LF	6	72	68	35	10LF					
17	PLUG				25	PLUG				7	72	69	35	10LF					
18	78	7	15	20LF		TOWER 3				8	78	70	35	10LF					
19	PLUG				1	PLUG				9	78	71	36	10LF					
20	72	8	16	20LF	2	54S4035		34	20LF	10	84	72	36	10LF					
21	PLUG				3	PLUG				11	84	73	36	10LF					
22	66	9	17	20LF	4	66	36	33	20LF	12	84	74	36	10LF					
23	PLUG				5	PLUG				13	84	75	36	10LF					
24	60S4010		19	20LF	6	72	37	33	20LF	14	84	76	36	10LF					
25	PLUG				7	PLUG				15	84	77	37	10LF					
	TOWER 1				8	78	38	33	20LF	16	84	78	37	10LF					
1	PLUG				9	PLUG				17	84	79	37	10LF					
2	54S4011		19	20LF	10	84	39	34	20LF	18	78	80	37	10LF					
3	PLUG				11	PLUG				19	78	81	37	10LF					
4	66	12	19	20LF	12	84	40	34	20LF	20	72	82	37	10LF					
5	PLUG				13	PLUG				21	72	83	37	10LF					
6	72	13	20	20LF	14	84	41	35	20LF	22	66	84	37	10LF					
7	PLUG				15	PLUG				23	66	85	37	10LF					
8	78	14	21	20LF	16	84	42	35	20LF	24	60S4086		32	20LF					
9	PLUG				17	PLUG				25	54S4087		35	20LF					
10	84	15	21	20LF	18	78	43	35	20LF		TOWER 6								
11	PLUG				19	PLUG				1	PLUG								
12	84	16	22	20LF	20	72	44	36	20LF	2	54S4088		35	20LF					
13	PLUG				21	PLUG				3	60S4089		32	20LF					
14	84	17	23	20LF	22	66	45	36	20LF	4	66	90	38	10LF					
15	PLUG				23	PLUG				5	66	91	38	10LF					
16	84	18	23	20LF	24	60S4046		38	20LF	6	72	92	39	10LF					
17	PLUG				25	PLUG				7	72	93	38	10LF					
18	78	19	24	20LF		TOWER 4				8	78	94	38	10LF					
19	PLUG				1	PLUG				9	78	95	39	10LF					
20	72	20	24	20LF	2	54S4047		39	20LF	10	84	96	39	10LF					
21	PLUG				3	PLUG				11	84	97	39	10LF					
22	66	21	25	20LF	4	66	48	38	20LF	12	84	98	39	10LF					
23	PLUG				5	PLUG				13	84	99	39	10LF					
24	60S4022		27	20LF	6	72	49	38	20LF	14	84	100	39	10LF					
25	PLUG				7	PLUG				15	84	101	40	10LF					
	TOWER 2				8	78	50	38	20LF	16	84	102	40	10LF					
1	PLUG				9	PLUG				17	84	103	40	10LF					
2	54S4023		27	20LF	10	84	51	39	20LF	18	78	104	40	10LF					
3	PLUG				11	PLUG				19	78	105	40	10LF					
4	66	24	27	20LF	12	84	52	39	20LF	20	72	106	40	10LF					
5	PLUG				13	PLUG				21	72	107	40	10LF					
6	72	25	27	20LF	14	84	53	39	20LF	22	66	108	40	10LF					
7	PLUG				15	PLUG				23	66	109	40	10LF					
8	78	26	28	20LF	16	84	54	34	20LF	24	60S40110		35	20LF					

PRECIPITATION CHART FOR FULL CIRCLE

WISH-119632

SEPTEMBER 30, 2025

DEALER - AQUA IRRIGATION

IRRIGATOR - BARTLETT

TOTAL LENGTH PIPE = 1300.47 SYSTEM PRESSURE = 40 PSI
GPM UNDER PIPE = 849.52 TOTAL GPM = 900.58
ACRES UNDER PIPE = 121.97
RANGE OF ENDGUN = 30.00
GPM OF ENDGUN = 51.06
ACRES UNDER ENDGUN = 5.69
WATERING LENGTH = 1330.47

MOTOR SIZE (HP) = 3/4
LOADED MOTOR RPM = 1750
CENTER GEAR BOX RATIO = 40
WHEEL GEAR BOX RATIO = 50
TIRE SIZE = 11.2 X 38
LAST TOWER SPEED (FPM) = 12.50

PRECIPITATION DATA FIGURED WITH ENDGUN RUNNING

PRECIPITATION BASED			% TIMER BASED		
PRECIPITATION INCHES	% TIMER SETTING	TIME HOURS	% TIMER SETTING	PRECIPITATION INCHES	TIME HOURS
.16	100.00	10.52 - 631(min)	100.00	.16	10.52 - 631(min)
.20	80.94	13.00	90.00	.18	11.69
.25	64.75	16.25	80.00	.20	13.15
.30	53.96	19.49	70.00	.23	15.03
.40	40.47	25.99	60.00	.27	17.53
.50	32.38	32.49	50.00	.32	21.04
.60	26.98	38.99	45.00	.36	23.38
.70	23.13	45.49	40.00	.40	26.30
.75	21.58	48.74	35.00	.46	30.05
.80	20.23	51.98	30.00	.54	35.06
.90	17.99	58.48	25.00	.65	42.08
1.00	16.19	64.98	20.00	.81	52.59
1.25	12.95	81.23	15.00	1.08	70.13
1.50	10.79	97.47	10.00	1.62	105.19
1.75	9.25	113.72	5.00	3.24	210.38

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 - AQUA IRRIGATION

IRRIGATOR - BARTLETT

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 - 66	11 - 54S40	23 - 54S40	35 - 54S40	47 - 54S40	64 - 54S40	88 - 54S40	112 - 54S40
2 - 78	12 - 66	24 - 66	36 - 66	48 - 66	65 - 60S40	89 - 60S40	113 - 54S40
3 - 84	13 - 72	25 - 72	37 - 72	49 - 72	66 - 66	90 - 66	114 - 54
4 - 84	14 - 78	26 - 78	38 - 78	50 - 78	67 - 66	91 - 66	115 - 54
5 - 84	15 - 84	27 - 84	39 - 84	51 - 84	68 - 72	92 - 72	116 - 54
6 - 84	16 - 84	28 - 84	40 - 84	52 - 84	69 - 72	93 - 72	117 - 54
7 - 78	17 - 84	29 - 84	41 - 84	53 - 84	70 - 78	94 - 78	
8 - 72	18 - 84	30 - 84	42 - 84	54 - 84	71 - 78	95 - 78	
9 - 66	19 - 78	31 - 78	43 - 78	55 - 84	72 - 84	96 - 84	
10 - 60S40	20 - 72	32 - 72	44 - 72	56 - 78	73 - 84	97 - 84	
	21 - 66	33 - 66	45 - 66	57 - 78	74 - 84	98 - 84	
	22 - 60S40	34 - 60S40	46 - 60S40	58 - 72	75 - 84	99 - 84	
				59 - 72	76 - 84	100 - 84	
				60 - 66	77 - 84	101 - 84	
				61 - 66	78 - 84	102 - 84	
				62 - 60S40	79 - 84	103 - 84	
				63 - 54S40	80 - 78	104 - 78	
					81 - 78	105 - 78	
					82 - 72	106 - 72	
					83 - 72	107 - 72	
					84 - 66	108 - 66	
					85 - 66	109 - 66	
					86 - 60S40	110 - 60S40	
					87 - 54S40	111 - 54S40	

SUMMARY OF DROPS

4 - 54 IN DROP
 19 - 66 IN DROP
 18 - 72 IN DROP
 19 - 78 IN DROP
 37 - 84 IN DROP
 11 - 54S40
 9 - 60S40

TOTAL OF 117 DROPS

POLY SENN GRAY FEMALE X PLASTIC MALE