

AQUA IRRIGATION

SEPTEMBER 29, 2025

WISH-119634

CUSTOMER : DAVE FIELDS

2006 LINDSAY GEN II - 90

9 TOWER - 1521.47 FT

SYSTEM 900 GPM @ 60 PSI

NELSON R3030 ROTATORS & A3030 ACCELERATORS

NELSON 20 & 10 PSI REGULATORS

NO ENDGUN

ELEVATION 40 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.

DEALER

AQUA IRRIGATION
 9370 COUNTY ROAD 35
 ATWOOD, COLORADO 80722

IRRIGATOR

DAVE FIELDS

				SPAN #	LENGTH	PIPE I.D.	# OF HEADS
TOTAL TARGET GPM	900.00	FRICTION FACTOR USED	138				
TOP OF PIVOT PRESSURE	60.00	TOTAL LENGTH	1521.47	1	181.60	6.395	10
NO ENDGUN		NUMBER OF TOWERS	9	2	179.00	6.395	12
NUMBER OF OUTLETS	214	NUMBER OF SPRINKLERS	129	3	179.00	6.395	12
				4	157.00	6.395	11
NELSON R3030 ROTATORS - D8 ORANGE PLATES FIRST 71 POSITIONS				5	157.00	6.395	10
NELSON A3030 ACCELERATORS - D6 GOLD PLATES BALANCE				6	157.00	6.395	11
NELSON BLUE TOP UNI-FLO & ALL-FLO 20 & 10 PSI INTEGRAL SERIES REGULATORS				7	157.00	6.395	16
POLYDROPS® AVERAGE 6 FT				8	160.00	6.395	21
ELEVATION IS 40 FT UP AND 0 FT DOWN				9	160.00	6.395	21
				OH	33.87	5.369	5

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	0.65	1.57	59.07	22.29	R3030 14 LIME	1	NNB20LF	66	
6		37.26	-	-	-	-	-	-	-	-	5
7		44.76	-	-	-	-	-	-	-	-	6
8	21.83	51.76	0.71	1.57	58.36	22.29	R3030 14 LIME	2	NNB20LF	78	
9		59.26	-	-	-	-	-	-	-	-	7
10	14.83	66.59	0.76	1.57	57.96	22.29	R3030 14 LIME	3	NNB20LF	84	
11		73.93	-	-	-	-	-	-	-	-	8
12	14.67	81.26	0.92	1.57	57.63	22.29	R3030 14 LIME	4	NNB20LF	84	
13		88.76	-	-	-	-	-	-	-	-	9
14	14.50	95.76	1.09	1.57	57.37	22.29	R3030 14 LIME	5	NNB20LF	84	
15		103.26	-	-	-	-	-	-	-	-	10
16	14.83	110.59	1.26	1.57	57.17	22.29	R3030 14 LIME	6	NNB20LF	84	
17		117.93	-	-	-	-	-	-	-	-	11
18	14.67	125.26	1.41	1.57	57.04	22.29	R3030 14 LIME	7	NNB20LF	78	
19		132.76	-	-	-	-	-	-	-	-	12
20	14.50	139.76	1.59	1.57	56.97	22.29	R3030 14 LIME	8	NNB20LF	72	
21		147.26	-	-	-	-	-	-	-	-	13
22	14.83	154.59	1.76	1.83	56.97	22.15	R3030 15 LIME	9	NNB20LF	66	
23		161.93	-	-	-	-	-	-	-	-	14
24	14.67	169.26	2.12	2.08	57.03	22.02	R3030 16 LAVENDER	10	NNB20LF	60	
25		176.76	-	-	-	-	-	-	-	-	15
TOWER 1	181.60	181.60									
26		182.59	-	-	-	-	-	-	-	-	16
27	17.50	186.76	2.33	2.33	56.80	21.89	R3030 17 LAVENDER	11	NNB20LF	54	
28		194.26	-	-	-	-	-	-	-	-	17
29	14.83	201.59	2.30	2.33	56.28	21.88	R3030 17 LAVENDER	12	NNB20LF	66	
30		208.93	-	-	-	-	-	-	-	-	18
31	14.67	216.26	2.44	2.33	55.77	21.88	R3030 17 LAVENDER	13	NNB20LF	72	
32		223.76	-	-	-	-	-	-	-	-	19
33	14.50	230.76	2.62	2.59	55.32	21.75	R3030 18 GRAY	14	NNB20LF	78	
34		238.26	-	-	-	-	-	-	-	-	20
35	14.83	245.59	2.80	2.90	54.94	21.59	R3030 19 GRAY	15	NNB20LF	84	
36		252.93	-	-	-	-	-	-	-	-	21
37	14.67	260.26	2.94	2.90	54.62	21.59	R3030 19 GRAY	16	NNB20LF	84	
38		267.76	-	-	-	-	-	-	-	-	22
39	14.50	274.76	3.12	3.21	54.37	21.42	R3030 20 TURQUOISE	17	NNB20LF	84	
40		282.26	-	-	-	-	-	-	-	-	23
41	14.83	289.59	3.31	3.21	54.18	21.43	R3030 20 TURQUOISE	18	NNB20LF	84	
42		296.93	-	-	-	-	-	-	-	-	24
43	14.67	304.26	3.43	3.47	54.07	21.29	R3030 21 TURQUOISE	19	NNB20LF	78	
44		311.76	-	-	-	-	-	-	-	-	25
45	14.50	318.76	3.62	3.47	54.01	21.29	R3030 21 TURQUOISE	20	NNB20LF	72	
46		326.26	-	-	-	-	-	-	-	-	26
47	14.83	333.59	3.81	3.83	54.03	21.10	R3030 22 YELLOW	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		340.93	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	27
49	14.67	348.26	4.34	4.15	54.11	20.99	R3030 23 YELLOW	22	NNB20LF		60
50		355.76	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	28
TOWER 2	179.00	360.60	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	29
		361.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	54
	17.50	365.76	4.57	4.56	53.90	20.92	R3030 24 RED	23	NNB20LF		30
		373.26	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	31
	14.83	380.59	4.35	4.15	53.41	20.99	R3030 23 YELLOW	24	NNB20LF		66
		387.93	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	32
	14.67	395.26	4.46	4.56	52.91	20.92	R3030 24 RED	25	NNB20LF		72
		402.76	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	33
	14.50	409.76	4.65	4.56	52.49	20.92	R3030 24 RED	26	NNB20LF		78
		417.26	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	34
	14.83	424.59	4.85	4.92	52.12	20.85	R3030 25 RED	27	NNB20LF		84
		431.93	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	35
	14.67	439.26	4.96	4.92	51.83	20.85	R3030 25 RED	28	NNB20LF		84
		446.76	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	36
	14.50	453.76	5.15	5.33	51.60	20.78	R3030 26 WHITE	29	NNB20LF		84
		461.26	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	37
	14.83	468.59	5.35	5.33	51.44	20.78	R3030 26 WHITE	30	NNB20LF		84
		475.93	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	38
	14.67	483.26	5.46	5.33	51.35	20.78	R3030 26 WHITE	31	NNB20LF		78
		490.76	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	39
	14.50	497.76	5.65	5.71	51.33	20.71	R3030 27 WHITE	32	NNB20LF		72
		505.26	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	40
	14.83	512.59	5.85	5.71	51.37	20.71	R3030 27 WHITE	33	NNB20LF		66
		519.93	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	41
	14.67	527.26	6.58	6.62	51.48	20.55	R3030 29 BLUE	34	NNB20LF		60
		534.76	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	42
TOWER 3	179.00	539.60	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	43
		540.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	44
	17.50	544.76	6.81	6.62	51.30	20.55	R3030 29 BLUE	35	NNB20LF		54
		552.26	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	45
	14.83	559.59	6.39	6.20	50.78	20.62	R3030 28 BLUE	36	NNB20LF		66
		566.93	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	46
	14.67	574.26	6.49	6.62	50.30	20.54	R3030 29 BLUE	37	NNB20LF		72
		581.76	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	47
	14.50	588.76	6.69	6.62	49.91	20.54	R3030 29 BLUE	38	NNB20LF		78
		596.26	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	48
	14.83	603.59	6.90	7.07	49.60	20.46	R3030 30 DK BROWN	39	NNB20LF		84
		610.76	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	49
	14.67	618.26	7.03	7.07	49.38	20.46	R3030 30 DK BROWN	40	NNB20LF		84
		625.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	50
	14.67	632.93	7.23	7.07	49.25	20.46	R3030 30 DK BROWN	41	NNB20LF		84
		640.26	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	51
	14.83	647.76	7.36	7.47	49.20	20.39	R3030 31 DK BROWN	42	NNB20LF		78
		654.76	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	52
	14.50	662.26	7.48	7.47	49.24	20.39	R3030 31 DK BROWN	43	NNB20LF		72

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		669.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	51	
95	14.67	676.93	7.73	7.47	49.37	20.39	R3030 31 DK BROWN	44	NNB20LF	66	
96		684.26	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	52	
97	14.83	691.76	8.67	8.54	49.48	20.25	R3030 33 ORANGE	45	NNB20LF	54	
TOWER 4	157.00	696.60									
98		697.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	53	
99		701.76	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	54	
100	17.50	709.26	8.83	9.06	49.14	20.21	R3030 34 DK GREEN	46	NNB20LF	60	
101		716.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	55	
102	14.67	723.93	8.27	8.02	48.65	20.29	R3030 32 ORANGE	47	NNB20LF	72	
103		731.26	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	56	
104	14.83	738.76	8.40	8.54	48.24	20.25	R3030 33 ORANGE	48	NNB20LF	78	
105		745.76	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	57	
106	14.50	753.26	8.46	8.54	47.93	20.24	R3030 33 ORANGE	49	NNB20LF	84	
107		760.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	58	
108	14.50	767.76	8.72	8.54	47.71	20.24	R3030 33 ORANGE	50	NNB20LF	84	
109		775.26	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	59	
110	14.83	782.59	8.95	9.06	47.57	20.20	R3030 34 DK GREEN	51	NNB20LF	84	
111		789.93	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	60	
112	14.67	797.26	9.01	9.06	47.51	20.20	R3030 34 DK GREEN	52	NNB20LF	84	
113		804.76	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	61	
114	14.50	811.76	9.22	9.06	47.55	20.20	R3030 34 DK GREEN	53	NNB20LF	78	
115		819.26	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	62	
116	14.83	826.59	9.45	9.54	47.67	20.17	R3030 35 DK GREEN	54	NNB20LF	72	
117		833.93	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	63	
118	14.67	841.26	10.49	10.69	47.88	20.08	R3030 37 PURPLE	55	NNB20LF	60	
119		848.76	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	64	
TOWER 5	157.00	853.60									
120		854.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	65	
121	17.50	858.76	10.75	10.69	47.83	20.08	R3030 37 PURPLE	56	NNB20LF	54	
122		866.26	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	66	
123	14.83	873.59	9.98	10.01	47.38	20.13	R3030 36 PURPLE	57	NNB20LF	66	
124		880.93	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	67	
125	14.67	888.26	10.04	10.01	46.97	20.13	R3030 36 PURPLE	58	NNB20LF	72	
126		895.76	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	68	
127	14.50	902.76	10.26	10.01	46.66	20.13	R3030 36 PURPLE	59	NNB20LF	78	
128		910.26	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	69	
129	14.83	917.59	10.49	10.69	46.42	20.08	R3030 37 PURPLE	60	NNB20LF	84	
130		924.76	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	70	
131	14.67	932.26	10.60	10.69	46.28	20.08	R3030 37 PURPLE	61	NNB20LF	84	
132		939.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	71	
133	14.67	946.93	10.82	10.69	46.22	20.08	R3030 37 PURPLE	62	NNB20LF	84	
134		954.26	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	72	
135	14.83	961.76	10.93	10.69	46.25	20.08	R3030 37 PURPLE	63	NNB20LF	78	
136		968.76	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	73	
137	14.50	976.26	11.04	11.29	46.37	20.03	R3030 38 BLACK	64	NNB20LF	72	
138		983.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	74	
139	14.67	990.93	11.33	11.29	46.57	20.03	R3030 38 BLACK	65	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
140		998.26	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	75
141	14.83	1005.76	12.61	12.32	46.77	19.41	R3030 40 DK TURQ	66	NEL20AF		54
TOWER 6	157.00	1010.60	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	76
142		1011.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	77
143		1015.76	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	60
144	17.50	1023.26	12.75	13.07	46.51	19.42	R3030 41 DK TURQ	67	NEL20AF		78
145		1030.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	72
146	14.67	1037.93	11.86	11.91	46.10	19.99	R3030 39 BLACK	68	NNB20LF		79
147		1045.26	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	78
148	14.83	1052.76	11.96	11.91	45.78	19.99	R3030 39 BLACK	69	NNB20LF		80
149		1059.76	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	84
150	14.50	1067.26	11.99	11.91	45.54	19.99	R3030 39 BLACK	70	NNB20LF		81
151		1074.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	84
152	14.50	1081.76	9.21	9.05	45.39	20.19	R3030 34 DK GREEN	71	NNB20LF		84
153	7.50	1089.26	6.26	6.21	45.35	10.71	A3030 33 ORANGE	72	NNB10LF		84
154	7.33	1096.59	6.24	6.21	45.33	10.71	A3030 33 ORANGE	73	NNB10LF		84
155	7.34	1103.93	6.28	6.21	45.33	10.71	A3030 33 ORANGE	74	NNB10LF		84
156	7.33	1111.26	6.39	6.21	45.36	10.71	A3030 33 ORANGE	75	NNB10LF		84
157	7.50	1118.76	6.29	6.21	45.40	10.71	A3030 33 ORANGE	76	NNB10LF		78
158	7.00	1125.76	6.33	6.21	45.47	10.71	A3030 33 ORANGE	77	NNB10LF		78
159	7.50	1133.26	6.52	6.57	45.56	10.65	A3030 34 DK GREEN	78	NNB10LF		72
160	7.33	1140.59	6.49	6.57	45.67	10.65	A3030 34 DK GREEN	79	NNB10LF		72
161	7.34	1147.93	6.53	6.57	45.80	10.65	A3030 34 DK GREEN	80	NNB10LF		66
162	7.33	1155.26	6.65	6.57	45.96	10.65	A3030 34 DK GREEN	81	NNB10LF		60
163	7.50	1162.76	6.99	6.92	46.03	10.61	A3030 35 DK GREEN	82	NNB10LF		54
TOWER 7	157.00	1167.60	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	82
164		1168.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	54
165	8.00	1170.76	9.32	9.54	46.00	10.36	A3030 41 DK TURQ	83	NNB10LF		83
166		1175.76	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	60
167	12.50	1183.26	9.09	9.03	45.75	10.41	A3030 40 DK TURQ	84	NNB10LF		66
168	7.33	1190.59	6.78	6.92	45.56	10.61	A3030 35 DK GREEN	85	NNB10LF		72
169	7.34	1197.93	6.81	6.92	45.39	10.61	A3030 35 DK GREEN	86	NNB10LF		78
170	7.33	1205.26	6.93	6.92	45.25	10.61	A3030 35 DK GREEN	87	NNB10LF		78
171	7.50	1212.76	6.82	6.92	45.12	10.61	A3030 35 DK GREEN	88	NNB10LF		78
172	7.00	1219.76	6.85	6.92	45.02	10.61	A3030 35 DK GREEN	89	NNB10LF		78
173	7.50	1227.26	7.05	6.92	44.94	10.61	A3030 35 DK GREEN	90	NNB10LF		84
174	7.33	1234.59	6.94	6.92	44.88	10.61	A3030 35 DK GREEN	91	NNB10LF		84
175	7.17	1241.76	7.06	6.92	44.84	10.61	A3030 35 DK GREEN	92	NNB10LF		84
176	7.50	1249.26	7.18	7.26	44.82	10.58	A3030 36 PURPLE	93	NNB10LF		84
177	7.33	1256.59	7.15	7.26	44.82	10.58	A3030 36 PURPLE	94	NNB10LF		84
178	7.34	1263.93	7.19	7.26	44.84	10.58	A3030 36 PURPLE	95	NNB10LF		84
179	7.33	1271.26	7.30	7.26	44.88	10.58	A3030 36 PURPLE	96	NNB10LF		78
180	7.50	1278.76	7.18	7.26	44.95	10.58	A3030 36 PURPLE	97	NNB10LF		78
181	7.00	1285.76	7.22	7.26	45.03	10.58	A3030 36 PURPLE	98	NNB10LF		78
182	7.50	1293.26	7.43	7.26	45.14	10.58	A3030 36 PURPLE	99	NNB10LF		72
183	7.33	1300.59	7.40	7.26	45.26	10.58	A3030 36 PURPLE	100	NNB10LF		66
184	7.34	1307.93	7.44	7.26	45.41	10.58	A3030 36 PURPLE	101	NNB10LF		66
185	7.33	1315.26	7.57	7.74	45.58	10.53	A3030 37 PURPLE	102	NNB10LF		60

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	7.50	1322.76	7.95	8.16	45.66	10.49	A3030 38 BLACK	103	NNB10LF		54
TOWER 8	160.00	1327.60									
187		1328.59	-	-	-	-	-	-	-	-	84
188	8.00	1330.76	10.58	10.46	45.65	10.35	A3030 43 MUSTARD	104	NEL10AF		54
189		1335.76	-	-	-	-	-	-	-	-	85
190	12.50	1343.26	10.32	10.46	45.42	10.35	A3030 43 MUSTARD	105	NEL10AF		60
191	7.33	1350.59	7.68	7.74	45.25	10.53	A3030 37 PURPLE	106	NNB10LF		66
192	7.34	1357.93	7.71	7.74	45.10	10.53	A3030 37 PURPLE	107	NNB10LF		72
193	7.33	1365.26	7.84	7.74	44.97	10.53	A3030 37 PURPLE	108	NNB10LF		78
194	7.50	1372.76	7.71	7.74	44.86	10.53	A3030 37 PURPLE	109	NNB10LF		78
195	7.00	1379.76	7.75	7.74	44.77	10.53	A3030 37 PURPLE	110	NNB10LF		78
196	7.50	1387.26	7.97	8.16	44.70	10.49	A3030 38 BLACK	111	NNB10LF		84
197	7.33	1394.59	7.82	7.74	44.65	10.53	A3030 37 PURPLE	112	NNB10LF		84
198	7.17	1401.76	7.96	8.16	44.63	10.49	A3030 38 BLACK	113	NNB10LF		84
199	7.50	1409.26	8.08	8.16	44.62	10.49	A3030 38 BLACK	114	NNB10LF		84
200	7.33	1416.59	8.03	8.16	44.63	10.49	A3030 38 BLACK	115	NNB10LF		84
201	7.34	1423.93	8.06	8.16	44.67	10.49	A3030 38 BLACK	116	NNB10LF		84
202	7.33	1431.26	8.18	8.16	44.72	10.49	A3030 38 BLACK	117	NNB10LF		78
203	7.50	1438.76	8.04	8.16	44.80	10.49	A3030 38 BLACK	118	NNB10LF		78
204	7.00	1445.76	8.07	8.16	44.89	10.49	A3030 38 BLACK	119	NNB10LF		78
205	7.50	1453.26	8.29	8.16	45.01	10.49	A3030 38 BLACK	120	NNB10LF		72
206	7.33	1460.59	8.26	8.16	45.15	10.49	A3030 38 BLACK	121	NNB10LF		66
207	7.34	1467.93	8.31	8.16	45.30	10.49	A3030 38 BLACK	122	NNB10LF		66
208	7.33	1475.26	8.46	8.61	45.48	10.45	A3030 39 BLACK	123	NNB10LF		60
209	7.50	1482.76	9.56	9.54	45.57	10.36	A3030 41 DK TURQ	124	NNB10LF		54
TOWER 9	160.00	1487.60									
			PIPE ID CHANGES FROM 6.395 TO 5.369								
210	9.21	1491.97	9.62	9.54	45.57	10.36	A3030 41 DK TURQ	125	NNB10LF		54
211	7.50	1499.47	8.60	8.61	45.57	10.45	A3030 39 BLACK	126	NNB10LF		54
212	7.33	1506.80	8.02	8.16	45.57	10.49	A3030 38 BLACK	127	NNB10LF		54
213	6.42	1513.22	6.90	6.92	45.57	10.61	A3030 35 DK GREEN	128	NNB10LF		54
214	5.50	1518.72	6.90	6.92	45.57	10.61	A3030 35 DK GREEN	129	NNB10LF		54
OVERHANG	33.87	1521.47									

TOTAL GPM = 900.55

GPA = 5.39

MINIMUM RECOMMENDED REGULATOR INLET PRESSURE IS 25.00 PSI
 WITH GRADUATED ELEVATION OF 40.00 FT THE INLET PRESSURE IS 35.11 PSI FOR SPRINKLER 70
 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	2.38	12.82	17.01	33%	7.15	0.016	0.57	0.76	0.95
2	7.00	37.73	37.19	-1%	5.31	0.012	0.42	0.56	0.70
3	11.62	62.65	62.07	-1%	5.34	0.012	0.42	0.57	0.71
4	14.00	75.46	75.03	-1%	5.36	0.012	0.43	0.57	0.71
5	17.55	94.62	94.13	-1%	5.36	0.012	0.43	0.57	0.71
6	21.11	113.79	113.55	0%	5.38	0.012	0.43	0.57	0.71
7	24.66	132.96	132.47	0%	5.37	0.012	0.43	0.57	0.71
8	28.79	155.22	155.23	0%	5.39	0.012	0.43	0.57	0.71
9	32.49	175.12	173.97	-1%	5.36	0.012	0.43	0.57	0.71
OVERHANG	7.35	39.62	39.90	1%	5.43	0.012	0.43	0.58	0.72
TOTAL	166.95	900.00	900.55		5.39				

SUMMARY OF SPRINKLERS

8 R3030 14 LIME
1 R3030 15 LIME
1 R3030 16 LAVENDER
3 R3030 17 LAVENDER
1 R3030 18 GRAY
2 R3030 19 GRAY
2 R3030 20 TURQUOISE
2 R3030 21 TURQUOISE
1 R3030 22 YELLOW
2 R3030 23 YELLOW
3 R3030 24 RED
2 R3030 25 RED
3 R3030 26 WHITE
2 R3030 27 WHITE
1 R3030 28 BLUE
4 R3030 29 BLUE
3 R3030 30 DK BROWN
3 R3030 31 DK BROWN
1 R3030 32 ORANGE
4 R3030 33 ORANGE
5 R3030 34 DK GREEN
1 R3030 35 DK GREEN
3 R3030 36 PURPLE
6 R3030 37 PURPLE
2 R3030 38 BLACK
3 R3030 39 BLACK
1 R3030 40 DK TURQ
1 R3030 41 DK TURQ
6 A3030 33 ORANGE
4 A3030 34 DK GREEN
11 A3030 35 DK GREEN
9 A3030 36 PURPLE
7 A3030 37 PURPLE
13 A3030 38 BLACK
2 A3030 39 BLACK
1 A3030 40 DK TURQ
3 A3030 41 DK TURQ
2 A3030 43 MUSTARD

85 PLUGS**SUMMARY OF DROPS**

16 54 IN DROP
11 60 IN DROP
17 66 IN DROP
18 72 IN DROP
27 78 IN DROP
40 84 IN DROP

SUMMARY OF REGULATORS

69 Nelson Blue Int Uni Flo 20 psi
2 Nelson Int All-Flo 20 psi
56 Nelson Blue Int Uni Flo 10 psi
2 Nelson Int All-Flo 10 psi

TOTAL OF 129 DROPS**TOTAL OF 129 REGULATORS**

NOZZLE POSITION CHART

R3030 14 LIME	1, 2, 3, 4, 5, 6, 7, 8
R3030 15 LIME	9
R3030 16 LAVENDER	10
R3030 17 LAVENDER	11, 12, 13
R3030 18 GRAY	14
R3030 19 GRAY	15, 16
R3030 20 TURQUOISE	17, 18
R3030 21 TURQUOISE	19, 20
R3030 22 YELLOW	21
R3030 23 YELLOW	22, 24
R3030 24 RED	23, 25, 26
R3030 25 RED	27, 28
R3030 26 WHITE	29, 30, 31
R3030 27 WHITE	32, 33
R3030 28 BLUE	36
R3030 29 BLUE	34, 35, 37, 38
R3030 30 DK BROWN	39, 40, 41
R3030 31 DK BROWN	42, 43, 44
R3030 32 ORANGE	47
R3030 33 ORANGE	45, 48, 49, 50
R3030 34 DK GREEN	46, 51, 52, 53, 71
R3030 35 DK GREEN	54
R3030 36 PURPLE	57, 58, 59
R3030 37 PURPLE	55, 56, 60, 61, 62, 63
R3030 38 BLACK	64, 65
R3030 39 BLACK	68, 69, 70
R3030 40 DK TURQ	66
R3030 41 DK TURQ	67
A3030 33 ORANGE	72, 73, 74, 75, 76, 77
A3030 34 DK GREEN	78, 79, 80, 81
A3030 35 DK GREEN	82, 85, 86, 87, 88, 89, 90, 91, 92, 128, 129
A3030 36 PURPLE	93, 94, 95, 96, 97, 98, 99, 100, 101
A3030 37 PURPLE	102, 106, 107, 108, 109, 110, 112
A3030 38 BLACK	103, 111, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 127
A3030 39 BLACK	123, 126
A3030 40 DK TURQ	84
A3030 41 DK TURQ	83, 124, 125
A3030 43 MUSTARD	104, 105

**AQUA IRRIGATION
9370 COUNTY ROAD 35
ATWOOD, COLORADO 80722**

SEPTEMBER 29, 2025
WISH-119634
DAVE FIELDS

2006 LINDSAY GEN II - 90
NELSON R3030 ROTATORS
NELSON 20 PSI REGULATORS
POLYDROPS®
NO ENDGUN

Rotation time at 100% = 12.46 Hours Or 748 minutes

900 GPM @ 60 PSI

PRECIPITATION CHART FOR FULL CIRCLE

WISH-119634

SEPTEMBER 29, 2025

DEALER - AQUA IRRIGATION

IRRIGATOR - DAVE FIELDS

TOTAL LENGTH PIPE = 1521.47 SYSTEM PRESSURE = 60 PSI
 GPM UNDER PIPE = 900.55 TOTAL GPM = 900.55
 ACRES UNDER PIPE = 166.95
 RANGE OF ENDGUN = .00
 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 = 11.2 X 38
 LAST TOWER SPEED (FPM) = 12.50

PRECIPITATION BASED

% TIMER BASED

PRECIPITATION INCHES	% TIMER SETTING	TIME HOURS	% TIMER SETTING	PRECIPITATION INCHES	TIME HOURS
.15	100.00	12.46 - 748(min)	100.00	.15	12.46 - 748(min)
.20	74.27	16.78	90.00	.17	13.85
.25	59.41	20.98	80.00	.19	15.58
.30	49.51	25.17	70.00	.21	17.80
.40	37.13	33.56	60.00	.25	20.77
.50	29.71	41.95	50.00	.30	24.93
.60	24.76	50.34	45.00	.33	27.69
.70	21.22	58.73	40.00	.37	31.16
.75	19.80	62.93	35.00	.42	35.61
.80	18.57	67.12	30.00	.50	41.54
.90	16.50	75.51	25.00	.59	49.85
1.00	14.85	83.90	20.00	.74	62.31
1.25	11.88	104.88	15.00	.99	83.08
1.50	9.90	125.85	10.00	1.49	124.63
1.75	8.49	146.83	5.00	2.97	249.25

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 - DAVE FIELDS

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	ENDBOOM POS/LEN
1 - 66	11 - 54	23 - 54	35 - 54	46 - 60	56 - 54	67 - 60	83 - 54	104 - 54	125 - 54
2 - 78	12 - 66	24 - 66	36 - 66	47 - 72	57 - 66	68 - 72	84 - 60	105 - 60	126 - 54
3 - 84	13 - 72	25 - 72	37 - 72	48 - 78	58 - 72	69 - 78	85 - 66	106 - 66	127 - 54
4 - 84	14 - 78	26 - 78	38 - 78	49 - 84	59 - 78	70 - 84	86 - 72	107 - 72	128 - 54
5 - 84	15 - 84	27 - 84	39 - 84	50 - 84	60 - 84	71 - 84	87 - 78	108 - 78	129 - 54
6 - 84	16 - 84	28 - 84	40 - 84	51 - 84	61 - 84	72 - 84	88 - 78	109 - 78	
7 - 78	17 - 84	29 - 84	41 - 84	52 - 84	62 - 84	73 - 84	89 - 78	110 - 78	
8 - 72	18 - 84	30 - 84	42 - 78	53 - 78	63 - 78	74 - 84	90 - 84	111 - 84	
9 - 66	19 - 78	31 - 78	43 - 72	54 - 72	64 - 72	75 - 84	91 - 84	112 - 84	
10 - 60	20 - 72	32 - 72	44 - 66	55 - 60	65 - 66	76 - 78	92 - 84	113 - 84	
	21 - 66	33 - 66	45 - 54		66 - 54	77 - 78	93 - 84	114 - 84	
	22 - 60	34 - 60				78 - 72	94 - 84	115 - 84	
						79 - 72	95 - 84	116 - 84	
						80 - 66	96 - 78	117 - 78	
						81 - 60	97 - 78	118 - 78	
						82 - 54	98 - 78	119 - 78	
							99 - 72	120 - 72	
							100 - 66	121 - 66	
							101 - 66	122 - 66	
							102 - 60	123 - 60	
							103 - 54	124 - 54	

SUMMARY OF DROPS

16 - 54 IN DROP
 11 - 60 IN DROP
 17 - 66 IN DROP
 18 - 72 IN DROP
 27 - 78 IN DROP
 40 - 84 IN DROP

TOTAL OF 129 DROPS