

# MCCOOK IRRIGATION LLC

SEPTEMBER 18, 2025

WISH-119602

CUSTOMER : SHIRLEY MCCONNELL

VALLEY 8000 - 30  
2 TOWER - 360.09 FT  
SYSTEM 400 GPM @ 17 PSI  
SENNINGER UP3 XI-WOBS  
SENNINGER 10 PSI REGULATORS  
KOMET TWIN 101 .83-21MM  
ELEVATION 0 FT UP, 0 FT DOWN

LEGAL : NW 1/4 9-2N33W  
P.O. NO. : 3249

902 EAST B STREET  
MCCOOK, NEBRASKA 69001  
(308)777-2130

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## WARRANTY

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

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

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

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

VALLEY 8000 - 30

SEPTEMBER 18, 2025

WISH-119602

DEALER

MCCOOK IRRIGATION LLC  
902 EAST B STREET  
MCCOOK, NEBRASKA 69001

IRRIGATOR

SHIRLEY MCCONNELL  
NW 1/4 9-2N33W  
3249

TOTAL TARGET GPM	400.00	FRICTION FACTOR USED	140	SPANS	LENGTH	PIPE I.D.
TOP OF PIVOT PRESSURE	17.00	TOTAL LENGTH	360.09	1	180.18	6.415
ENDGUN TARGET GPM	124.36	NUMBER OF TOWERS	2	1	179.91	6.415
NUMBER OF OUTLETS	144	NUMBER OF SPRINKLERS	34			

SENNINGER UP3 XI-WOBS - 610 BLUE PADS FIRST 3 POSITIONS

SENNINGER UP3 XI-WOBS - 910 GREY PADS BALANCE

SENNINGER PSR-2 10 PSI SERIES REGULATORS

POLYDROPS® AVERAGE 4.5 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.
3. Endgun matched to booster pump maximum - This statement means that to match the precipitation rate of the main machine the required flow of the endgun is unattainable due to the flow restriction of the booster pump.
4. High gallonage systems may increase the occurrence of runoff and deep percolation. High application rates may also increase occurrence of tracking problems.



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
49		120.18	-	-	-	-	-	-	-	-	-	-	-	39	
50		122.68	-	-	-	-	-	-	-	-	-	-	-	40	
51	10.00	125.18	5.33	5.34	15.69	11.04	XI-WOB	UP3	15	DK	BROWN	11	SPSR2-10	96	
52		127.68	-	-	-	-	-	-	-	-	-	-	-	41	
53		130.18	-	-	-	-	-	-	-	-	-	-	-	42	
54		132.68	-	-	-	-	-	-	-	-	-	-	-	43	
55	10.00	135.18	5.75	5.68	15.79	10.98	XI-WOB	UP3	15.5	DK	BROWN	12	SPSR2-10	90	
56		137.68	-	-	-	-	-	-	-	-	-	-	-	44	
57		140.18	-	-	-	-	-	-	-	-	-	-	-	45	
58		142.68	-	-	-	-	-	-	-	-	-	-	-	46	
59	10.00	145.18	6.18	6.04	15.93	10.91	XI-WOB	UP3	16	ORANGE	-	13	SPSR2-10	84	
60		147.68	-	-	-	-	-	-	-	-	-	-	-	47	
61		150.18	-	-	-	-	-	-	-	-	-	-	-	48	
62		152.68	-	-	-	-	-	-	-	-	-	-	-	49	
63	10.00	155.18	6.61	6.78	16.10	10.78	XI-WOB	UP3	17	DK	GREEN	14	SPSR2-10	78	
64		157.68	-	-	-	-	-	-	-	-	-	-	-	50	
65		160.18	-	-	-	-	-	-	-	-	-	-	-	51	
66		162.68	-	-	-	-	-	-	-	-	-	-	-	52	
67	10.00	165.18	7.03	7.16	16.30	10.71	XI-WOB	UP3	17.5	DK	GREEN	15	SPSR2-10	72	
68		167.68	-	-	-	-	-	-	-	-	-	-	-	53	
69		170.18	-	-	-	-	-	-	-	-	-	-	-	54	
70		172.68	-	-	-	-	-	-	-	-	-	-	-	55	
71	10.00	175.18	7.53	7.55	16.41	10.64	XI-WOB	UP3	18	PURPLE	-	16	SPSR2-10	66	
72		177.68	-	-	-	-	-	-	-	-	-	-	-	56	
TOWER 1		180.18	180.18												
73		180.38	-	-	-	-	-	-	-	-	-	-	-	57	
74		182.88	-	-	-	-	-	-	-	-	-	-	-	58	
75	10.20	185.38	7.96	7.95	16.38	10.57	XI-WOB	UP3	18.5	PURPLE	-	17	SPSR2-10	66	
76		187.88	-	-	-	-	-	-	-	-	-	-	-	59	
77		190.38	-	-	-	-	-	-	-	-	-	-	-	60	
78		192.88	-	-	-	-	-	-	-	-	-	-	-	61	
79	10.00	195.38	8.31	8.35	16.18	10.50	XI-WOB	UP3	19	BLACK	-	18	SPSR2-10	78	
80		197.88	-	-	-	-	-	-	-	-	-	-	-	62	
81		200.38	-	-	-	-	-	-	-	-	-	-	-	63	
82		202.88	-	-	-	-	-	-	-	-	-	-	-	64	
83	10.00	205.38	8.73	8.76	15.92	10.42	XI-WOB	UP3	19.5	BLACK	-	19	SPSR2-10	84	
84		207.88	-	-	-	-	-	-	-	-	-	-	-	65	
85		210.38	-	-	-	-	-	-	-	-	-	-	-	66	
86		212.88	-	-	-	-	-	-	-	-	-	-	-	67	
87	10.00	215.38	9.16	9.18	15.71	10.35	XI-WOB	UP3	20	DK	TURQUOISE	20	SPSR2-10	84	
88		217.88	-	-	-	-	-	-	-	-	-	-	-	68	
89		220.38	-	-	-	-	-	-	-	-	-	-	-	69	
90		222.88	-	-	-	-	-	-	-	-	-	-	-	70	
91	10.00	225.38	9.58	9.60	15.52	10.27	XI-WOB	UP3	20.5	DK	TURQ	21	SPSR2-10	90	
92		227.88	-	-	-	-	-	-	-	-	-	-	-	71	
93		230.38	-	-	-	-	-	-	-	-	-	-	-	72	
94		232.88	-	-	-	-	-	-	-	-	-	-	-	73	
95	10.00	235.38	10.00	10.03	15.38	10.19	XI-WOB	UP3	21	MUSTARD	-	22	SPSR2-10	96	

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
96		237.88	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	74
97		240.38	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	75
98		242.88	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	76
99	10.00	245.38	10.43	10.44	15.26	10.08	XI-WOB UP3 21.5 MUSTARD	23	SPSR2-10		96
100		247.88	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	77
101		250.38	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	78
102		252.88	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	79
103	10.00	255.38	10.85	10.87	15.18	9.97	XI-WOB UP3 22 MAROON	24	SPSR2-10		102
104		257.88	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	80
105		260.38	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	81
106		262.88	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	82
107	10.00	265.38	11.26	11.29	15.14	9.86	XI-WOB UP3 22.5 MAROON	25	SPSR2-10		102
108		267.88	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	83
109		270.37	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	84
110		272.86	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	85
111	9.98	275.36	11.68	11.72	15.13	9.75	XI-WOB UP3 23 CREAM	26	SPSR2-10		102
112		277.86	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	86
113		280.36	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	87
114		282.86	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	88
115	10.00	285.36	12.12	12.15	15.15	9.64	XI-WOB UP3 23.5 CREAM	27	SPSR2-10		96
116		287.86	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	89
117		290.36	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	90
118		292.86	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	91
119	10.00	295.36	12.54	12.57	15.21	9.53	XI-WOB UP3 24 DK BLUE	28	SPSR2-10		96
120		297.86	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	92
121		300.36	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	93
122		302.86	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	94
123	10.00	305.36	12.95	13.00	15.30	9.42	XI-WOB UP3 24.5 DK BLUE	29	SPSR2-10		96
124		307.86	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	95
125		310.36	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	96
126		312.86	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	97
127	10.00	315.36	13.37	13.43	15.42	9.31	XI-WOB UP3 25 COPPER	30	SPSR2-10		90
128		317.86	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	98
129		320.36	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	99
130		322.86	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	100
131	10.00	325.36	13.78	13.85	15.58	9.19	XI-WOB UP3 25.5 COPPER	31	SPSR2-10		84
132		327.86	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	101
133		330.36	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	102
134		332.86	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	103
135	10.00	335.36	14.18	14.28	15.78	9.08	XI-WOB UP3 26 BRONZE	32	SPSR2-10		78
136		337.86	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	104
137		340.36	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	105
138		342.86	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	106
139	10.00	345.36	14.55	14.29	16.01	9.10	XI-WOB UP3 26 BRONZE	33	SPSR2-10		72
140		347.86	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	107
141		350.36	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	108
142		352.86	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	109
143	10.00	355.36	14.70	14.30	16.13	9.11	XI-WOB UP3 26 BRONZE	34	SPSR2-10		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
144		357.86	-	-	-	-	-	-	-	-	110
TOWER 2	179.91	360.09									
OVERHANG	.00	360.09		125.37	ENDGUN	( 1 ) KOMET TWIN 101 .83-21MM 2HP BOOSTER PUMP					

BOOSTER PUMP AT TOWER ADDS 26.14 PSI TO PIPE PRESSURE FOR A PRESSURE OF 42.15 PSI  
 FRICTION LOSS THROUGH ENDGUN VALVE IS 0.96 PSI - ENDGUN PRESSURE IS 41.19 PSI

TOTAL GPM = 400.48

GPA = 29.48

MINIMUM RECOMMENDED REGULATOR INLET PRESSURE IS 15.00 PSI  
 WITH GRADUATED ELEVATION OF .00 FT THE INLET PRESSURE IS 16.86 PSI FOR SPRINKLER 32  
 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	2.34	69.01	69.09	0%	29.51	0.065	2.35	3.13	3.91
2	7.01	206.63	206.05	0%	29.39	0.065	2.34	3.12	3.90
ENDGUN	5.50	124.36	125.37	-23%	22.78				
TOTAL	14.85	400.00	400.51		26.96				

**SUMMARY OF SPRINKLERS**

2 XI-WOB UP3 8 LAVENDER  
1 XI-WOB UP3 9 GREY  
1 XI-WOB UP3 10 TURQUOISE  
1 XI-WOB UP3 11 YELLOW  
1 XI-WOB UP3 11.5 YELLOW  
1 XI-WOB UP3 12.5 RED  
1 XI-WOB UP3 13 WHITE  
1 XI-WOB UP3 13.5 WHITE  
1 XI-WOB UP3 14.5 BLUE  
1 XI-WOB UP3 15 DK BROWN  
1 XI-WOB UP3 15.5 DK BROWN  
1 XI-WOB UP3 16 ORANGE  
1 XI-WOB UP3 17 DK GREEN  
1 XI-WOB UP3 17.5 DK GREEN  
1 XI-WOB UP3 18 PURPLE  
1 XI-WOB UP3 18.5 PURPLE  
1 XI-WOB UP3 19 BLACK  
1 XI-WOB UP3 19.5 BLACK  
1 XI-WOB UP3 20 DK TURQUOISE  
1 XI-WOB UP3 20.5 DK TURQ  
1 XI-WOB UP3 21 MUSTARD  
1 XI-WOB UP3 21.5 MUSTARD  
1 XI-WOB UP3 22 MAROON  
1 XI-WOB UP3 22.5 MAROON  
1 XI-WOB UP3 23 CREAM  
1 XI-WOB UP3 23.5 CREAM  
1 XI-WOB UP3 24 DK BLUE  
1 XI-WOB UP3 24.5 DK BLUE  
1 XI-WOB UP3 25 COPPER  
1 XI-WOB UP3 25.5 COPPER  
3 XI-WOB UP3 26 BRONZE

**SUMMARY OF DROPS****SUMMARY OF REGULATORS**

3 66 IN DROP  
2 72 IN DROP  
3 78 IN DROP  
6 84 IN DROP  
4 90 IN DROP  
10 96 IN DROP  
6 102 IN DROP

34 Senn PSR2 10 psi

**110 PLUGS****TOTAL OF 34 DROPS****TOTAL OF 34 REGULATORS**

## NOZZLE POSITION CHART

XI-WOB UP3 8 LAVENDER	1, 2
XI-WOB UP3 9 GREY	3
XI-WOB UP3 10 TURQUOISE	4
XI-WOB UP3 11 YELLOW	5
XI-WOB UP3 11.5 YELLOW	6
XI-WOB UP3 12.5 RED	7
XI-WOB UP3 13 WHITE	8
XI-WOB UP3 13.5 WHITE	9
XI-WOB UP3 14.5 BLUE	10
XI-WOB UP3 15 DK BROWN	11
XI-WOB UP3 15.5 DK BROWN	12
XI-WOB UP3 16 ORANGE	13
XI-WOB UP3 17 DK GREEN	14
XI-WOB UP3 17.5 DK GREEN	15
XI-WOB UP3 18 PURPLE	16
XI-WOB UP3 18.5 PURPLE	17
XI-WOB UP3 19 BLACK	18
XI-WOB UP3 19.5 BLACK	19
XI-WOB UP3 20 DK TURQUOISE	20
XI-WOB UP3 20.5 DK TURQ	21
XI-WOB UP3 21 MUSTARD	22
XI-WOB UP3 21.5 MUSTARD	23
XI-WOB UP3 22 MAROON	24
XI-WOB UP3 22.5 MAROON	25
XI-WOB UP3 23 CREAM	26
XI-WOB UP3 23.5 CREAM	27
XI-WOB UP3 24 DK BLUE	28
XI-WOB UP3 24.5 DK BLUE	29
XI-WOB UP3 25 COPPER	30
XI-WOB UP3 25.5 COPPER	31
XI-WOB UP3 26 BRONZE	32, 33, 34

**MCCOOK IRRIGATION LLC**  
**902 EAST B STREET**  
**MCCOOK, NEBRASKA 69001**

SEPTEMBER 18, 2025  
 WISH-119602  
 SHIRLEY MCCONNELL  
 NW 1/4 9-2N33W  
 400 GPM @ 17 PSI

VALLEY 8000 - 30  
 SENNINGER UP3 XI-WOBS  
 SENNINGER 10 PSI REGULATORS  
 POLYDROPS®  
 KOMET TWIN 101 .83-21MM

Rotation time at 100% = 5.29 Hours Or 317 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
1	PLUG				61	PLUG				48	PLUG			
2	PLUG				62	PLUG				49	PLUG			
3	PLUG				63	78	14	17	PSR210	50	PLUG			
4	PLUG				64	PLUG				51	96	29	24.5	PSR210
5	PLUG				65	PLUG				52	PLUG			
6	PLUG				66	PLUG				53	PLUG			
7	PLUG				67	72	15	17.5	PSR210	54	PLUG			
8	PLUG				68	PLUG				55	90	30	25	PSR210
9	PLUG				69	PLUG				56	PLUG			
10	PLUG				70	PLUG				57	PLUG			
11	84	1	8	PSR210	71	66	16	18	PSR210	58	PLUG			
12	PLUG				72	PLUG				59	84	31	25.5	PSR210
13	PLUG				TOWER 1					60	PLUG			
14	PLUG				1	PLUG				61	PLUG			
15	84	2	8	PSR210	2	PLUG				62	PLUG			
16	PLUG				3	66	17	18.5	PSR210	63	78	32	26	PSR210
17	PLUG				4	PLUG				64	PLUG			
18	PLUG				5	PLUG				65	PLUG			
19	90	3	9	PSR210	6	PLUG				66	PLUG			
20	PLUG				7	78	18	19	PSR210	67	72	33	26	PSR210
21	PLUG				8	PLUG				68	PLUG			
22	PLUG				9	PLUG				69	PLUG			
23	96	4	10	PSR210	10	PLUG				70	PLUG			
24	PLUG				11	84	19	19.5	PSR210	71	66	34	26	PSR210
25	PLUG				12	PLUG				72	TOWER 2			
26	PLUG				13	PLUG								
27	96	5	11	PSR210	14	PLUG								
28	PLUG				15	84	20	20	PSR210					
29	PLUG				16	PLUG								
30	PLUG				17	PLUG								
31	102	6	11.5	PSR210	18	PLUG								
32	PLUG				19	90	21	20.5	PSR210					
33	PLUG				20	PLUG								
34	PLUG				21	PLUG								
35	102	7	12.5	PSR210	22	PLUG								
36	PLUG				23	96	22	21	PSR210					
37	PLUG				24	PLUG								
38	PLUG				25	PLUG								
39	102	8	13	PSR210	26	PLUG								
40	PLUG				27	96	23	21.5	PSR210					
41	PLUG				28	PLUG								
42	PLUG				29	PLUG								
43	96	9	13.5	PSR210	30	PLUG								
44	PLUG				31	102	24	22	PSR210					
45	PLUG				32	PLUG								
46	PLUG				33	PLUG								
47	96	10	14.5	PSR210	34	PLUG								
48	PLUG				35	102	25	22.5	PSR210					
49	PLUG				36	PLUG								
50	PLUG				37	PLUG								
51	96	11	15	PSR210	38	PLUG								
52	PLUG				39	102	26	23	PSR210					
53	PLUG				40	PLUG								
54	PLUG				41	PLUG								
55	90	12	15.5	PSR210	42	PLUG								
56	PLUG				43	96	27	23.5	PSR210					
57	PLUG				44	PLUG								
58	PLUG				45	PLUG								
59	84	13	16	PSR210	46	PLUG								
60	PLUG				47	96	28	24	PSR210					

PRECIPITATION CHART FOR FULL CIRCLE

WISH-119602

SEPTEMBER 18, 2025

DEALER - MCCOOK IRRIGATION LLC

IRRIGATOR - SHIRLEY MCCONNELL  
FIELD - NW 1/4 9-2N33W

TOTAL LENGTH PIPE = 360.09      SYSTEM PRESSURE = 17 PSI  
 GPM UNDER PIPE = 275.11      TOTAL GPM = 400.48  
 ACRES UNDER PIPE = 9.35  
 RANGE OF ENDGUN = 93.75  
 GPM OF ENDGUN = 125.37  
 ACRES UNDER ENDGUN = 5.50  
 WATERING LENGTH = 453.84

MOTOR SIZE (HP) = .6  
 LOADED MOTOR RPM = 1800  
 CENTER GEAR BOX RATIO = 53  
 WHEEL GEAR BOX RATIO = 52  
 TIRE SIZE = 11 X 24.5  
 LAST TOWER SPEED (FPM) = 7.13

PRECIPITATION DATA FIGURED WITH ENDGUN RUNNING

## PRECIPITATION BASED

## % TIMER BASED

PRECIPITATION INCHES	% TIMER SETTING	TIME HOURS	% TIMER SETTING	PRECIPITATION INCHES	TIME HOURS
.34	100.00	5.29 - 317(min)	100.00	.34	5.29 - 317(min)
.40	85.95	6.15	90.00	.38	5.88
.50	68.76	7.69	80.00	.43	6.61
.60	57.30	9.23	70.00	.49	7.56
.70	49.11	10.77	60.00	.57	8.81
.75	45.84	11.54	50.00	.69	10.58
.80	42.97	12.31	45.00	.76	11.75
.90	38.20	13.85	40.00	.86	13.22
1.00	34.38	15.38	35.00	.98	15.11
1.25	27.50	19.23	30.00	1.15	17.63
1.50	22.92	23.08	25.00	1.38	21.15
1.75	19.64	26.92	20.00	1.72	26.44
2.00	17.19	30.77	15.00	2.29	35.26
2.25	15.28	34.61	10.00	3.44	52.89
2.50	13.75	38.46	5.00	6.88	105.77

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 - MCCOOK IRRIGATION LLC  
P.O. - 3249

IRRIGATOR - SHIRLEY MCCONNELL  
FIELD - NW 1/4 9-2N33W

SPAN 1 <u>POS/LEN</u>	SPAN 2 <u>POS/LEN</u>	ENDBOOM <u>POS/LEN</u>
1 - 84	17 - 66	
2 - 84	18 - 78	
3 - 90	19 - 84	
4 - 96	20 - 84	
5 - 96	21 - 90	
6 - 102	22 - 96	
7 - 102	23 - 96	
8 - 102	24 - 102	
9 - 96	25 - 102	
10 - 96	26 - 102	
11 - 96	27 - 96	
12 - 90	28 - 96	
13 - 84	29 - 96	
14 - 78	30 - 90	
15 - 72	31 - 84	
16 - 66	32 - 78	
	33 - 72	
	34 - 66	

#### SUMMARY OF DROPS

3 - 66 IN DROP  
2 - 72 IN DROP  
3 - 78 IN DROP  
6 - 84 IN DROP  
4 - 90 IN DROP  
10 - 96 IN DROP  
6 - 102 IN DROP

TOTAL OF 34 DROPS  
POLY STEEL MALE X PLASTIC MALE