

CF IRRIGATION

SEPTEMBER 25, 2025

WISH-119623

CUSTOMER : ARCH FRINK

REINKE
8 TOWER - 1292 FT
SYSTEM 500 GPM @ 22 PSI

LEGAL : SE STANLEY

SENNINGER UP3 I-WOB2
KOMET 10 PSI REGULATORS
NO ENDGUN
ELEVATION 10 FT UP, 10 FT DOWN

710 WEST AVENUE A
CIMARRON, KANSAS 67835
(620)510-1326

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.

REINKE		SEPTEMBER 25, 2025		WISH-119623			
<u>DEALER</u>		<u>IRRIGATOR</u>					
CF IRRIGATION		ARCH FRINK					
710 WEST AVENUE A		SE STANLEY					
CIMARRON, KANSAS 67835							
TOTAL TARGET GPM	500.00	FRICTION FACTOR USED	135	SPAN #	LENGTH	PIPE I.D.	# OF HEADS
TOP OF PIVOT PRESSURE	22.00	TOTAL LENGTH	1292.00	1	157.25	6.415	15
NO ENDGUN		NUMBER OF TOWERS	8	2	156.00	6.415	16
NUMBER OF OUTLETS	133	NUMBER OF SPRINKLERS	132	3	156.00	6.415	16
				4	156.00	6.415	16
SENNINGER UP3 I-WOB2 - LOW ANGLE 9 GROOVE BLUE PADS				5	156.00	6.415	16
KOMET KPR-X 10 PSI PRESSURE REGULATORS				6	156.00	6.415	16
DROPS AVERAGE 6.5 FT OF .75 I.D. PREMIUM BLUE FLEXIBLE HOSE - SENNINGER MAG WEIGHT				7	156.00	6.415	16
ELEVATION IS 10 FT UP AND 10 FT DOWN				8	156.00	6.415	16
				OH	23.00	5.79	2
					19.75	3.79	3

CAUTIONS AND WARNINGS

1. Over watering at beginning of system due to practical limitations on smallest nozzle sizes available and/or allowable for proper operation.

2. 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.
1		10.00	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	1
2	19.50	19.50	0.18	0.84	21.76	10.91	I-WOB2	UP3	6	GOLD	1	KPRX10	
3	9.50	29.00	0.16	0.84	21.55	10.91	I-WOB2	UP3	6	GOLD	2	KPRX10	
4	9.50	38.50	0.22	0.84	21.36	10.91	I-WOB2	UP3	6	GOLD	3	KPRX10	
5	9.50	48.00	0.27	0.84	21.20	10.91	I-WOB2	UP3	6	GOLD	4	KPRX10	
6	9.50	57.50	0.32	0.84	21.06	10.91	I-WOB2	UP3	6	GOLD	5	KPRX10	
7	9.50	67.00	0.38	0.84	20.95	10.91	I-WOB2	UP3	6	GOLD	6	KPRX10	
8	9.50	76.50	0.43	0.84	20.87	10.91	I-WOB2	UP3	6	GOLD	7	KPRX10	
9	9.50	86.00	0.48	0.84	20.81	10.91	I-WOB2	UP3	6	GOLD	8	KPRX10	
10	9.50	95.50	0.54	0.84	20.79	10.91	I-WOB2	UP3	6	GOLD	9	KPRX10	
11	9.50	105.00	0.59	0.84	20.78	10.91	I-WOB2	UP3	6	GOLD	10	KPRX10	
12	9.50	114.50	0.64	0.84	20.81	10.91	I-WOB2	UP3	6	GOLD	11	KPRX10	
13	9.50	124.00	0.70	0.84	20.86	10.91	I-WOB2	UP3	6	GOLD	12	KPRX10	
14	9.50	133.50	0.75	0.84	20.94	10.91	I-WOB2	UP3	6	GOLD	13	KPRX10	
15	9.50	143.00	0.80	0.84	21.04	10.91	I-WOB2	UP3	6	GOLD	14	KPRX10	
16	9.50	152.50	1.04	0.98	21.10	10.90	I-WOB2	UP3	6.5	GOLD	15	KPRX10	
TOWER 1	157.25	157.25											
17	13.50	166.00	1.12	1.14	21.02	10.89	I-WOB2	UP3	7	LIME	16	KPRX10	
18	9.50	175.50	0.98	0.98	20.85	10.90	I-WOB2	UP3	6.5	GOLD	17	KPRX10	
19	9.50	185.00	1.04	0.98	20.63	10.90	I-WOB2	UP3	6.5	GOLD	18	KPRX10	
20	9.50	194.50	1.09	1.14	20.45	10.89	I-WOB2	UP3	7	LIME	19	KPRX10	
21	9.50	204.00	1.14	1.14	20.29	10.89	I-WOB2	UP3	7	LIME	20	KPRX10	
22	9.50	213.50	1.20	1.14	20.16	10.89	I-WOB2	UP3	7	LIME	21	KPRX10	
23	9.50	223.00	1.25	1.31	20.05	10.88	I-WOB2	UP3	7.5	LIME	22	KPRX10	
24	9.50	232.50	1.30	1.31	19.97	10.88	I-WOB2	UP3	7.5	LIME	23	KPRX10	
25	9.50	242.00	1.36	1.31	19.92	10.88	I-WOB2	UP3	7.5	LIME	24	KPRX10	
26	9.50	251.50	1.41	1.49	19.90	10.87	I-WOB2	UP3	8	LAVENDER	25	KPRX10	
27	9.50	261.00	1.46	1.49	19.90	10.87	I-WOB2	UP3	8	LAVENDER	26	KPRX10	
28	9.50	270.50	1.52	1.49	19.93	10.87	I-WOB2	UP3	8	LAVENDER	27	KPRX10	
29	9.50	280.00	1.57	1.49	19.98	10.87	I-WOB2	UP3	8	LAVENDER	28	KPRX10	
30	9.50	289.50	1.62	1.69	20.06	10.85	I-WOB2	UP3	8.5	LAVENDER	29	KPRX10	
31	9.50	299.00	1.68	1.69	20.17	10.85	I-WOB2	UP3	8.5	LAVENDER	30	KPRX10	
32	9.50	308.50	2.10	2.10	20.23	10.82	I-WOB2	UP3	9.5	GREY	31	KPRX10	
TOWER 2	156.00	313.25											
33	13.50	322.00	2.18	2.10	20.16	10.82	I-WOB2	UP3	9.5	GREY	32	KPRX10	
34	9.50	331.50	1.86	1.88	19.99	10.84	I-WOB2	UP3	9	GREY	33	KPRX10	
35	9.50	341.00	1.91	1.88	19.78	10.84	I-WOB2	UP3	9	GREY	34	KPRX10	
36	9.50	350.50	1.96	1.88	19.60	10.84	I-WOB2	UP3	9	GREY	35	KPRX10	
37	9.50	360.00	2.02	2.10	19.45	10.82	I-WOB2	UP3	9.5	GREY	36	KPRX10	
38	9.50	369.50	2.07	2.10	19.32	10.82	I-WOB2	UP3	9.5	GREY	37	KPRX10	
39	9.50	379.00	2.12	2.10	19.22	10.82	I-WOB2	UP3	9.5	GREY	38	KPRX10	
40	9.50	388.50	2.18	2.10	19.15	10.82	I-WOB2	UP3	9.5	GREY	39	KPRX10	
41	9.50	398.00	2.23	2.33	19.10	10.81	I-WOB2	UP3	10	TURQUOISE	40	KPRX10	
42	9.50	407.50	2.28	2.33	19.08	10.81	I-WOB2	UP3	10	TURQUOISE	41	KPRX10	
43	9.50	417.00	2.34	2.33	19.09	10.81	I-WOB2	UP3	10	TURQUOISE	42	KPRX10	
44	9.50	426.50	2.39	2.33	19.13	10.81	I-WOB2	UP3	10	TURQUOISE	43	KPRX10	
45	9.50	436.00	2.44	2.33	19.19	10.81	I-WOB2	UP3	10	TURQUOISE	44	KPRX10	
46	9.50	445.50	2.50	2.57	19.28	10.79	I-WOB2	UP3	10.5	TURQUOISE	45	KPRX10	

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.
47	9.50	455.00	2.55	2.57	19.39	10.79	I-WOB2	UP3	10.5	TURQUOISE	46	KPRX10	
48	9.50	464.50	3.16	3.08	19.46	10.75	I-WOB2	UP3	11.5	YELLOW	47	KPRX10	
TOWER 3	156.00	469.25											
49	13.50	478.00	3.24	3.36	19.40	10.73	I-WOB2	UP3	12	RED	48	KPRX10	
50	9.50	487.50	2.73	2.82	19.23	10.77	I-WOB2	UP3	11	YELLOW	49	KPRX10	
51	9.50	497.00	2.78	2.82	19.03	10.77	I-WOB2	UP3	11	YELLOW	50	KPRX10	
52	9.50	506.50	2.84	2.82	18.86	10.77	I-WOB2	UP3	11	YELLOW	51	KPRX10	
53	9.50	516.00	2.89	2.82	18.72	10.77	I-WOB2	UP3	11	YELLOW	52	KPRX10	
54	9.50	525.50	2.94	2.82	18.60	10.77	I-WOB2	UP3	11	YELLOW	53	KPRX10	
55	9.50	535.00	3.00	3.08	18.50	10.75	I-WOB2	UP3	11.5	YELLOW	54	KPRX10	
56	9.50	544.50	3.05	3.08	18.44	10.75	I-WOB2	UP3	11.5	YELLOW	55	KPRX10	
57	9.50	554.00	3.10	3.08	18.40	10.75	I-WOB2	UP3	11.5	YELLOW	56	KPRX10	
58	9.50	563.50	3.16	3.08	18.39	10.75	I-WOB2	UP3	11.5	YELLOW	57	KPRX10	
59	9.50	573.00	3.21	3.08	18.41	10.75	I-WOB2	UP3	11.5	YELLOW	58	KPRX10	
60	9.50	582.50	3.27	3.36	18.45	10.73	I-WOB2	UP3	12	RED	59	KPRX10	
61	9.50	592.00	3.32	3.36	18.52	10.73	I-WOB2	UP3	12	RED	60	KPRX10	
62	9.50	601.50	3.37	3.36	18.61	10.74	I-WOB2	UP3	12	RED	61	KPRX10	
63	9.50	611.00	3.42	3.36	18.74	10.74	I-WOB2	UP3	12	RED	62	KPRX10	
64	9.50	620.50	4.22	4.25	18.82	10.67	I-WOB2	UP3	13.5	WHITE	63	KPRX10	
TOWER 4	156.00	625.25											
65	13.50	634.00	4.30	4.25	18.77	10.67	I-WOB2	UP3	13.5	WHITE	64	KPRX10	
66	9.50	643.50	3.61	3.64	18.61	10.71	I-WOB2	UP3	12.5	RED	65	KPRX10	
67	9.50	653.00	3.66	3.64	18.42	10.71	I-WOB2	UP3	12.5	RED	66	KPRX10	
68	9.50	662.50	3.71	3.64	18.26	10.72	I-WOB2	UP3	12.5	RED	67	KPRX10	
69	9.50	672.00	3.77	3.64	18.12	10.72	I-WOB2	UP3	12.5	RED	68	KPRX10	
70	9.50	681.50	3.82	3.94	18.01	10.69	I-WOB2	UP3	13	WHITE	69	KPRX10	
71	9.50	691.00	3.87	3.94	17.93	10.69	I-WOB2	UP3	13	WHITE	70	KPRX10	
72	9.50	700.50	3.93	3.94	17.87	10.69	I-WOB2	UP3	13	WHITE	71	KPRX10	
73	9.50	710.00	3.98	3.94	17.84	10.69	I-WOB2	UP3	13	WHITE	72	KPRX10	
74	9.50	719.50	4.03	3.94	17.84	10.69	I-WOB2	UP3	13	WHITE	73	KPRX10	
75	9.50	729.00	4.09	3.94	17.87	10.69	I-WOB2	UP3	13	WHITE	74	KPRX10	
76	9.50	738.50	4.14	4.25	17.92	10.67	I-WOB2	UP3	13.5	WHITE	75	KPRX10	
77	9.50	748.00	4.20	4.25	18.00	10.67	I-WOB2	UP3	13.5	WHITE	76	KPRX10	
78	9.50	757.50	4.25	4.25	18.11	10.67	I-WOB2	UP3	13.5	WHITE	77	KPRX10	
79	9.50	767.00	4.30	4.25	18.24	10.67	I-WOB2	UP3	13.5	WHITE	78	KPRX10	
80	9.50	776.50	5.28	5.23	18.33	10.60	I-WOB2	UP3	15	DK BROWN	79	KPRX10	
TOWER 5	156.00	781.25											
81	13.50	790.00	5.36	5.23	18.29	10.60	I-WOB2	UP3	15	DK BROWN	80	KPRX10	
82	9.50	799.50	4.49	4.56	18.15	10.65	I-WOB2	UP3	14	BLUE	81	KPRX10	
83	9.50	809.00	4.54	4.56	17.97	10.65	I-WOB2	UP3	14	BLUE	82	KPRX10	
84	9.50	818.50	4.59	4.56	17.81	10.65	I-WOB2	UP3	14	BLUE	83	KPRX10	
85	9.50	828.00	4.65	4.56	17.69	10.65	I-WOB2	UP3	14	BLUE	84	KPRX10	
86	9.50	837.50	4.70	4.56	17.59	10.65	I-WOB2	UP3	14	BLUE	85	KPRX10	
87	9.50	847.00	4.76	4.89	17.52	10.63	I-WOB2	UP3	14.5	BLUE	86	KPRX10	
88	9.50	856.50	4.81	4.89	17.47	10.63	I-WOB2	UP3	14.5	BLUE	87	KPRX10	
89	9.50	866.00	4.86	4.89	17.45	10.63	I-WOB2	UP3	14.5	BLUE	88	KPRX10	
90	9.50	875.50	4.91	4.89	17.46	10.63	I-WOB2	UP3	14.5	BLUE	89	KPRX10	
91	9.50	885.00	4.97	4.89	17.50	10.63	I-WOB2	UP3	14.5	BLUE	90	KPRX10	

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.
92	9.50	894.50	5.02	4.89	17.56	10.63	I-WOB2	UP3	14.5	BLUE	91	KPRX10	
93	9.50	904.00	5.08	5.23	17.65	10.60	I-WOB2	UP3	15	DK BROWN	92	KPRX10	
94	9.50	913.50	5.13	5.23	17.77	10.60	I-WOB2	UP3	15	DK BROWN	93	KPRX10	
95	9.50	923.00	5.18	5.23	17.91	10.60	I-WOB2	UP3	15	DK BROWN	94	KPRX10	
96	9.50	932.50	6.34	6.31	18.01	10.53	I-WOB2	UP3	16.5	ORANGE	95	KPRX10	
TOWER 6	156.00	937.25											
97	13.50	946.00	6.42	6.31	17.99	10.53	I-WOB2	UP3	16.5	ORANGE	96	KPRX10	
98	9.50	955.50	5.36	5.23	17.85	10.60	I-WOB2	UP3	15	DK BROWN	97	KPRX10	
99	9.50	965.00	5.42	5.57	17.68	10.58	I-WOB2	UP3	15.5	DK BROWN	98	KPRX10	
100	9.50	974.50	5.47	5.57	17.54	10.58	I-WOB2	UP3	15.5	DK BROWN	99	KPRX10	
101	9.50	984.00	5.52	5.57	17.42	10.58	I-WOB2	UP3	15.5	DK BROWN	100	KPRX10	
102	9.50	993.50	5.57	5.57	17.33	10.58	I-WOB2	UP3	15.5	DK BROWN	101	KPRX10	
103	9.50	1003.00	5.62	5.57	17.27	10.58	I-WOB2	UP3	15.5	DK BROWN	102	KPRX10	
104	9.50	1012.50	5.68	5.57	17.23	10.58	I-WOB2	UP3	15.5	DK BROWN	103	KPRX10	
105	9.50	1022.00	5.73	5.57	17.22	10.58	I-WOB2	UP3	15.5	DK BROWN	104	KPRX10	
106	9.50	1031.50	5.79	5.94	17.24	10.55	I-WOB2	UP3	16	ORANGE	105	KPRX10	
107	9.50	1041.00	5.84	5.94	17.29	10.55	I-WOB2	UP3	16	ORANGE	106	KPRX10	
108	9.50	1050.50	5.89	5.94	17.36	10.55	I-WOB2	UP3	16	ORANGE	107	KPRX10	
109	9.50	1060.00	5.94	5.94	17.46	10.55	I-WOB2	UP3	16	ORANGE	108	KPRX10	
110	9.50	1069.50	6.00	5.94	17.58	10.55	I-WOB2	UP3	16	ORANGE	109	KPRX10	
111	9.50	1079.00	6.05	5.94	17.74	10.55	I-WOB2	UP3	16	ORANGE	110	KPRX10	
112	9.50	1088.50	7.40	7.48	17.84	10.45	I-WOB2	UP3	18	PURPLE	111	KPRX10	
TOWER 7	156.00	1093.25											
113	13.50	1102.00	7.48	7.48	17.84	10.45	I-WOB2	UP3	18	PURPLE	112	KPRX10	
114	9.50	1111.50	6.23	6.31	17.71	10.53	I-WOB2	UP3	16.5	ORANGE	113	KPRX10	
115	9.50	1121.00	6.28	6.31	17.55	10.53	I-WOB2	UP3	16.5	ORANGE	114	KPRX10	
116	9.50	1130.50	6.34	6.31	17.41	10.53	I-WOB2	UP3	16.5	ORANGE	115	KPRX10	
117	9.50	1140.00	6.39	6.31	17.30	10.53	I-WOB2	UP3	16.5	ORANGE	116	KPRX10	
118	9.50	1149.50	6.45	6.31	17.22	10.53	I-WOB2	UP3	16.5	ORANGE	117	KPRX10	
119	9.50	1159.00	6.51	6.69	17.16	10.50	I-WOB2	UP3	17	DK GREEN	118	KPRX10	
120	9.50	1168.50	6.55	6.69	17.14	10.50	I-WOB2	UP3	17	DK GREEN	119	KPRX10	
121	9.50	1178.00	6.59	6.69	17.13	10.50	I-WOB2	UP3	17	DK GREEN	120	KPRX10	
122	9.50	1187.50	6.64	6.69	17.16	10.50	I-WOB2	UP3	17	DK GREEN	121	KPRX10	
123	9.50	1197.00	6.69	6.69	17.21	10.50	I-WOB2	UP3	17	DK GREEN	122	KPRX10	
124	9.50	1206.50	6.74	6.69	17.29	10.50	I-WOB2	UP3	17	DK GREEN	123	KPRX10	
125	9.50	1216.00	6.80	6.69	17.39	10.50	I-WOB2	UP3	17	DK GREEN	124	KPRX10	
126	9.50	1225.50	6.87	6.69	17.53	10.50	I-WOB2	UP3	17	DK GREEN	125	KPRX10	
127	9.50	1235.00	6.94	7.08	17.69	10.47	I-WOB2	UP3	17.5	DK GREEN	126	KPRX10	
128	9.50	1244.50	8.08	7.89	17.80	10.42	I-WOB2	UP3	18.5	PURPLE	127	KPRX10	
TOWER 8	156.00	1249.25											
PIPE ID CHANGES FROM 6.415 TO 5.790													
129	12.50	1257.00	8.20	8.31	17.80	10.39	I-WOB2	UP3	19	BLACK	128	KPRX10	
130	9.50	1266.50	7.11	7.08	17.80	10.47	I-WOB2	UP3	17.5	DK GREEN	129	KPRX10	
PIPE ID CHANGES FROM 5.790 TO 3.790													
131	9.50	1276.00	7.17	7.08	17.80	10.47	I-WOB2	UP3	17.5	DK GREEN	130	KPRX10	
132	9.50	1285.50	6.13	6.31	17.79	10.53	I-WOB2	UP3	16.5	ORANGE	131	KPRX10	
133	6.50	1292.00	5.56	5.57	17.79	10.58	I-WOB2	UP3	15.5	DK BROWN	132	KPRX10	

OVERHANG 42.75 1292.00

TOTAL GPM = 500.75
GPA = 4.15

MINIMUM RECOMMENDED REGULATOR INLET PRESSURE IS 15.00 PSI
WITH GRADUATED ELEVATION OF 10.00 FT THE INLET PRESSURE IS 15.13 PSI FOR SPRINKLER 128
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	7.41	12.56	70%	7.04	0.016	0.56	0.75	0.93
2	5.29	21.99	21.70	-1%	4.10	0.009	0.33	0.43	0.54
3	8.80	36.56	35.92	-2%	4.08	0.009	0.32	0.43	0.54
4	12.31	51.14	50.32	-2%	4.09	0.009	0.33	0.43	0.54
5	15.82	65.72	64.53	-2%	4.08	0.009	0.32	0.43	0.54
6	19.33	80.30	79.20	-1%	4.10	0.009	0.33	0.43	0.54
7	22.84	94.88	93.50	-1%	4.09	0.009	0.33	0.43	0.54
8	26.36	109.46	107.78	-2%	4.09	0.009	0.33	0.43	0.54
OVERHANG	7.84	32.54	35.22	8%	4.50	0.010	0.36	0.48	0.60
TOTAL	120.39	500.00	500.75		4.16				

SUMMARY OF SPRINKLERS

14 I-WOB2 UP3 6 GOLD
3 I-WOB2 UP3 6.5 GOLD
4 I-WOB2 UP3 7 LIME
3 I-WOB2 UP3 7.5 LIME
4 I-WOB2 UP3 8 LAVENDER
2 I-WOB2 UP3 8.5 LAVENDER
3 I-WOB2 UP3 9 GREY
6 I-WOB2 UP3 9.5 GREY
5 I-WOB2 UP3 10 TURQUOISE
2 I-WOB2 UP3 10.5 TURQUOISE
5 I-WOB2 UP3 11 YELLOW
6 I-WOB2 UP3 11.5 YELLOW
5 I-WOB2 UP3 12 RED
4 I-WOB2 UP3 12.5 RED
6 I-WOB2 UP3 13 WHITE
6 I-WOB2 UP3 13.5 WHITE
5 I-WOB2 UP3 14 BLUE
6 I-WOB2 UP3 14.5 BLUE
6 I-WOB2 UP3 15 DK BROWN
8 I-WOB2 UP3 15.5 DK BROWN
6 I-WOB2 UP3 16 ORANGE
8 I-WOB2 UP3 16.5 ORANGE
8 I-WOB2 UP3 17 DK GREEN
3 I-WOB2 UP3 17.5 DK GREEN
2 I-WOB2 UP3 18 PURPLE
1 I-WOB2 UP3 18.5 PURPLE
1 I-WOB2 UP3 19 BLACK

1 PLUG**SUMMARY OF REGULATORS**

132 Komet PR-X 10 psi

TOTAL OF 132 REGULATORS

NOZZLE POSITION CHART

I-WOB2 UP3 6 GOLD	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
I-WOB2 UP3 6.5 GOLD	15, 17, 18
I-WOB2 UP3 7 LIME	16, 19, 20, 21
I-WOB2 UP3 7.5 LIME	22, 23, 24
I-WOB2 UP3 8 LAVENDER	25, 26, 27, 28
I-WOB2 UP3 8.5 LAVENDER	29, 30
I-WOB2 UP3 9 GREY	33, 34, 35
I-WOB2 UP3 9.5 GREY	31, 32, 36, 37, 38, 39
I-WOB2 UP3 10 TURQUOISE	40, 41, 42, 43, 44
I-WOB2 UP3 10.5 TURQUOISE	45, 46
I-WOB2 UP3 11 YELLOW	49, 50, 51, 52, 53
I-WOB2 UP3 11.5 YELLOW	47, 54, 55, 56, 57, 58
I-WOB2 UP3 12 RED	48, 59, 60, 61, 62
I-WOB2 UP3 12.5 RED	65, 66, 67, 68
I-WOB2 UP3 13 WHITE	69, 70, 71, 72, 73, 74
I-WOB2 UP3 13.5 WHITE	63, 64, 75, 76, 77, 78
I-WOB2 UP3 14 BLUE	81, 82, 83, 84, 85
I-WOB2 UP3 14.5 BLUE	86, 87, 88, 89, 90, 91
I-WOB2 UP3 15 DK BROWN	79, 80, 92, 93, 94, 97
I-WOB2 UP3 15.5 DK BROWN	98, 99, 100, 101, 102, 103, 104, 132
I-WOB2 UP3 16 ORANGE	105, 106, 107, 108, 109, 110
I-WOB2 UP3 16.5 ORANGE	95, 96, 113, 114, 115, 116, 117, 131
I-WOB2 UP3 17 DK GREEN	118, 119, 120, 121, 122, 123, 124, 125
I-WOB2 UP3 17.5 DK GREEN	126, 129, 130
I-WOB2 UP3 18 PURPLE	111, 112
I-WOB2 UP3 18.5 PURPLE	127
I-WOB2 UP3 19 BLACK	128

CF IRRIGATION
710 WEST AVENUE A
CIMARRON, KANSAS 67835

SEPTEMBER 25, 2025
WISH-119623
ARCH FRINK
SE STANLEY
500 GPM @ 22 PSI

REINKE
SENNINGER UP3 I-WOB2
KOMET 10 PSI REGULATORS
.75 I.D. PREMIUM BLUE FLEXIBLE HOSE
HEAD

Rotation time at 100% = 20.50 Hours Or 1230 minutes

Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg
1	PLUG				10		57	11.5	KPRX10	2		113	16.5	KPRX10
2		1	6	KPRX10	11		58	11.5	KPRX10	3		114	16.5	KPRX10
3		2	6	KPRX10	12		59	12	KPRX10	4		115	16.5	KPRX10
4		3	6	KPRX10	13		60	12	KPRX10	5		116	16.5	KPRX10
5		4	6	KPRX10	14		61	12	KPRX10	6		117	16.5	KPRX10
6		5	6	KPRX10	15		62	12	KPRX10	7		118	17	KPRX10
7		6	6	KPRX10	16		63	13.5	KPRX10	8		119	17	KPRX10
8		7	6	KPRX10		TOWER 4				9		120	17	KPRX10
9		8	6	KPRX10	1		64	13.5	KPRX10	10		121	17	KPRX10
10		9	6	KPRX10	2		65	12.5	KPRX10	11		122	17	KPRX10
11		10	6	KPRX10	3		66	12.5	KPRX10	12		123	17	KPRX10
12		11	6	KPRX10	4		67	12.5	KPRX10	13		124	17	KPRX10
13		12	6	KPRX10	5		68	12.5	KPRX10	14		125	17	KPRX10
14		13	6	KPRX10	6		69	13	KPRX10	15		126	17.5	KPRX10
15		14	6	KPRX10	7		70	13	KPRX10	16		127	18.5	KPRX10
16		15	6.5	KPRX10	8		71	13	KPRX10		TOWER 8			
	TOWER 1				9		72	13	KPRX10	1		128	19	KPRX10
1		16	7	KPRX10	10		73	13	KPRX10	2		129	17.5	KPRX10
2		17	6.5	KPRX10	11		74	13	KPRX10	3		130	17.5	KPRX10
3		18	6.5	KPRX10	12		75	13.5	KPRX10	4		131	16.5	KPRX10
4		19	7	KPRX10	13		76	13.5	KPRX10	5		132	15.5	KPRX10
5		20	7	KPRX10	14		77	13.5	KPRX10					
6		21	7	KPRX10	15		78	13.5	KPRX10					
7		22	7.5	KPRX10	16		79	15	KPRX10					
8		23	7.5	KPRX10		TOWER 5								
9		24	7.5	KPRX10	1		80	15	KPRX10					
10		25	8	KPRX10	2		81	14	KPRX10					
11		26	8	KPRX10	3		82	14	KPRX10					
12		27	8	KPRX10	4		83	14	KPRX10					
13		28	8	KPRX10	5		84	14	KPRX10					
14		29	8.5	KPRX10	6		85	14	KPRX10					
15		30	8.5	KPRX10	7		86	14.5	KPRX10					
16		31	9.5	KPRX10	8		87	14.5	KPRX10					
	TOWER 2				9		88	14.5	KPRX10					
1		32	9.5	KPRX10	10		89	14.5	KPRX10					
2		33	9	KPRX10	11		90	14.5	KPRX10					
3		34	9	KPRX10	12		91	14.5	KPRX10					
4		35	9	KPRX10	13		92	15	KPRX10					
5		36	9.5	KPRX10	14		93	15	KPRX10					
6		37	9.5	KPRX10	15		94	15	KPRX10					
7		38	9.5	KPRX10	16		95	16.5	KPRX10					
8		39	9.5	KPRX10		TOWER 6								
9		40	10	KPRX10	1		96	16.5	KPRX10					
10		41	10	KPRX10	2		97	15	KPRX10					
11		42	10	KPRX10	3		98	15.5	KPRX10					
12		43	10	KPRX10	4		99	15.5	KPRX10					
13		44	10	KPRX10	5		100	15.5	KPRX10					
14		45	10.5	KPRX10	6		101	15.5	KPRX10					
15		46	10.5	KPRX10	7		102	15.5	KPRX10					
16		47	11.5	KPRX10	8		103	15.5	KPRX10					
	TOWER 3				9		104	15.5	KPRX10					
1		48	12	KPRX10	10		105	16	KPRX10					
2		49	11	KPRX10	11		106	16	KPRX10					
3		50	11	KPRX10	12		107	16	KPRX10					
4		51	11	KPRX10	13		108	16	KPRX10					
5		52	11	KPRX10	14		109	16	KPRX10					
6		53	11	KPRX10	15		110	16	KPRX10					
7		54	11.5	KPRX10	16		111	18	KPRX10					
8		55	11.5	KPRX10		TOWER 7								
9		56	11.5	KPRX10	1		112	18	KPRX10					

PRECIPITATION CHART FOR FULL CIRCLE

WISH-119623

SEPTEMBER 25, 2025

DEALER - CF IRRIGATION

IRRIGATOR - ARCH FRINK

FIELD - SE STANLEY

TOTAL LENGTH PIPE = 1292.00 SYSTEM PRESSURE = 22 PSI
 GPM UNDER PIPE = 500.75 TOTAL GPM = 500.75
 ACRES UNDER PIPE = 120.39
 RANGE OF ENDGUN = .00 RUN FOR MINIMUM PRESSURE
 GPM OF ENDGUN = .00
 ACRES UNDER ENDGUN = .00

MOTOR SIZE (HP) = 1
 LOADED MOTOR RPM = 1745
 CENTER GEAR BOX RATIO = 60
 WHEEL GEAR BOX RATIO = 50
 TIRE SIZE = 11 X 22.5
 LAST TOWER SPEED (FPM) = 6.38

PRECIPITATION BASED

% TIMER BASED

PRECIPITATION INCHES	% TIMER SETTING	TIME HOURS	% TIMER SETTING	PRECIPITATION INCHES	TIME HOURS
.19	100.00	20.50 - 1230(min)	100.00	.19	20.50 - 1230(min)
.20	94.23	21.76	90.00	.21	22.78
.25	75.38	27.20	80.00	.24	25.63
.30	62.82	32.64	70.00	.27	29.29
.40	47.11	43.52	60.00	.31	34.17
.50	37.69	54.40	50.00	.38	41.01
.60	31.41	65.28	45.00	.42	45.57
.70	26.92	76.17	40.00	.47	51.26
.75	25.13	81.61	35.00	.54	58.59
.80	23.56	87.05	30.00	.63	68.35
.90	20.94	97.93	25.00	.75	82.02
1.00	18.85	108.81	20.00	.94	102.52
1.25	15.08	136.01	15.00	1.26	136.70
1.50	12.56	163.21	10.00	1.88	205.05
1.75	10.77	190.41	5.00	3.77	410.10

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.