

# WESTERN KANSAS IRRIGATION

SEPTEMBER 30, 2025

WISH-119637

CUSTOMER : POINT WEST FARMS

VALLEY 4271 UNIFORM REPIPE

7 TOWER - 1294.94 FT

SYSTEM 195 GPM @ 15 PSI

LEGAL : SW 1/4 20-27-42

SENNINGER UP3 LDN SPRAY NOZZLES

P.O. NO. : INV170184

SENNINGER 10 & 6 PSI REGULATORS

NO ENDGUN

ELEVATION 15 FT UP, 15 FT DOWN

2729 WEST OKLAHOMA  
ULYSSES, KANSAS 67880

(620)353-1111

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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 4271 UNIFORM REPIPE

SEPTEMBER 30, 2025

WISH-119637

DEALER

WESTERN KANSAS IRRIGATION  
 2729 WEST OKLAHOMA  
 ULYSSES, KANSAS 67880

IRRIGATOR

POINT WEST FARMS  
 SW 1/4 20-27-42  
 INV170184

TOTAL TARGET GPM	195.00	FRICTION FACTOR USED	140	SPAN #	LENGTH	PIPE I.D.	# OF HEADS
TOP OF PIVOT PRESSURE	15.00	TOTAL LENGTH	1294.94	1	187.36	6.407	20
NO ENDGUN		NUMBER OF TOWERS	7	2	185.63	6.407	22
NUMBER OF OUTLETS	208	NUMBER OF SPRINKLERS	206	3	185.63	6.407	33
				4	185.63	6.407	33
SENNINGER UP3 LDN SPRAY NOZZLES - CONCAVE GROOVED PADS FIRST TWO SPANS				5	185.63	6.407	33
SENNINGER HD LOW DRIFT SPRAY NOZZLES - CONCAVE GROOVED X WIDE BUBBLER PADS BALANCE				6	169.60	6.407	30
SENNINGER FPSR2 10 & PSR 6 PSI SERIES REGULATORS				7	169.80	6.407	30
DROPS AVERAGE 8 FT OF .75 I.D. FLEXIBLE HOSE PLUS 2 FT INTEGRAL POLYWEIGHT® FIRST TWO SPANS				OH	25.66	5.79	5
DROPS AVERAGE 8.5 FT OF .75 I.D. FLEXIBLE HOSE PLUS 2 FT INTEGRAL POLYWEIGHT® BALANCE							
ELEVATION IS 15 FT UP AND 15 FT DOWN							

## 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. When using spray nozzles with five foot ground clearance or less, nozzle should travel between crop rows and spacing should not exceed 80 inches.

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		5.78	-	-	-	-	-	-	-	1
2		14.28	-	-	-	-	-	-	-	2
3	22.70	22.70	0.08	0.10	14.69	11.40	LD NOZ UP3 2 PINK	1	FPSR210	
4	8.58	31.28	0.06	0.10	14.51	11.40	LD NOZ UP3 2 PINK	2	FPSR210	
5	8.57	39.85	0.08	0.10	14.36	11.40	LD NOZ UP3 2 PINK	3	FPSR210	
6	8.43	48.28	0.09	0.10	14.22	11.40	LD NOZ UP3 2 PINK	4	FPSR210	
7	8.50	56.78	0.11	0.10	14.11	11.40	LD NOZ UP3 2 PINK	5	FPSR210	
8	8.42	65.20	0.13	0.15	14.02	11.40	LD NOZ UP3 2.5 PINK	6	FPSR210	
9	8.58	73.78	0.15	0.15	13.96	11.40	LD NOZ UP3 2.5 PINK	7	FPSR210	
10	8.57	82.35	0.16	0.15	13.91	11.40	LD NOZ UP3 2.5 PINK	8	FPSR210	
11	8.11	90.46	0.17	0.15	13.88	11.40	LD NOZ UP3 2.5 PINK	9	FPSR210	
12	8.32	98.78	0.19	0.21	13.88	11.40	LD NOZ UP3 3 ICE	10	FPSR210	
13	7.99	106.77	0.21	0.21	13.89	11.40	LD NOZ UP3 3 ICE	11	FPSR210	
14	8.57	115.34	0.23	0.21	13.93	11.40	LD NOZ UP3 3 ICE	12	FPSR210	
15	8.58	123.92	0.24	0.21	13.99	11.40	LD NOZ UP3 3 ICE	13	FPSR210	
16	8.42	132.34	0.26	0.29	14.06	11.40	LD NOZ UP3 3.5 ICE	14	FPSR210	
17	8.50	140.84	0.28	0.29	14.16	11.40	LD NOZ UP3 3.5 ICE	15	FPSR210	
18	8.43	149.27	0.29	0.29	14.28	11.40	LD NOZ UP3 3.5 ICE	16	FPSR210	
19	8.51	157.78	0.31	0.29	14.42	11.40	LD NOZ UP3 3.5 ICE	17	FPSR210	
20	8.65	166.43	0.33	0.29	14.59	11.40	LD NOZ UP3 3.5 ICE	18	FPSR210	
21	8.33	174.76	0.34	0.37	14.77	11.40	LD NOZ UP3 4 LT BLUE	19	FPSR210	
22	8.40	183.16	0.35	0.37	14.82	11.40	LD NOZ UP3 4 LT BLUE	20	FPSR210	
TOWER 1	187.36	187.36								
23	8.18	191.34	0.37	0.37	14.81	11.40	LD NOZ UP3 4 LT BLUE	21	FPSR210	
24	8.65	199.99	0.40	0.37	14.70	11.40	LD NOZ UP3 4 LT BLUE	22	FPSR210	
25	8.66	208.65	0.41	0.37	14.50	11.40	LD NOZ UP3 4 LT BLUE	23	FPSR210	
26	8.32	216.97	0.42	0.37	14.33	11.40	LD NOZ UP3 4 LT BLUE	24	FPSR210	
27	8.51	225.48	0.44	0.48	14.18	11.40	LD NOZ UP3 4.5 LT BLUE	25	FPSR210	
28	8.43	233.91	0.46	0.48	14.05	11.40	LD NOZ UP3 4.5 LT BLUE	26	FPSR210	
29	8.50	242.41	0.48	0.48	13.94	11.40	LD NOZ UP3 4.5 LT BLUE	27	FPSR210	
30	8.42	250.83	0.49	0.48	13.85	11.40	LD NOZ UP3 4.5 LT BLUE	28	FPSR210	
31	8.58	259.41	0.52	0.48	13.78	11.40	LD NOZ UP3 4.5 LT BLUE	29	FPSR210	
32	8.57	267.98	0.52	0.48	13.73	11.40	LD NOZ UP3 4.5 LT BLUE	30	FPSR210	
33	8.11	276.09	0.53	0.48	13.71	11.40	LD NOZ UP3 4.5 LT BLUE	31	FPSR210	
34	8.32	284.41	0.54	0.59	13.70	11.40	LD NOZ UP3 5 BEIGE	32	FPSR210	
35	7.99	292.40	0.56	0.59	13.72	11.40	LD NOZ UP3 5 BEIGE	33	FPSR210	
36	8.57	300.97	0.60	0.59	13.75	11.40	LD NOZ UP3 5 BEIGE	34	FPSR210	
37	8.58	309.55	0.61	0.59	13.81	11.40	LD NOZ UP3 5 BEIGE	35	FPSR210	
38	8.42	317.97	0.62	0.59	13.89	11.40	LD NOZ UP3 5 BEIGE	36	FPSR210	
39	8.50	326.47	0.64	0.59	13.99	11.40	LD NOZ UP3 5 BEIGE	37	FPSR210	
40	8.43	334.90	0.66	0.72	14.11	11.40	LD NOZ UP3 5.5 BEIGE	38	FPSR210	
41	8.51	343.41	0.68	0.72	14.25	11.40	LD NOZ UP3 5.5 BEIGE	39	FPSR210	
42	8.65	352.06	0.69	0.72	14.42	11.40	LD NOZ UP3 5.5 BEIGE	40	FPSR210	
43	8.33	360.39	0.70	0.72	14.60	11.40	LD NOZ UP3 5.5 BEIGE	41	FPSR210	
44	8.40	368.79	0.71	0.72	14.65	11.40	LD NOZ UP3 5.5 BEIGE	42	FPSR210	
TOWER 2	185.63	372.99								
45	8.18	376.97	0.61	0.58	14.65	7.29	SN LD NOZ 5.5 BEIGE/GOLD	43	SPSR06	
46	5.77	382.74	0.51	0.47	14.61	7.29	SN LD NOZ 5 BEIGE	44	SPSR06	

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		5.77	388.51	0.52	0.47	14.47	7.29 SN LD NOZ 5 BEIGE	45	SPSR06	
48		5.77	394.28	0.52	0.47	14.34	7.29 SN LD NOZ 5 BEIGE	46	SPSR06	
49		5.61	399.89	0.52	0.47	14.22	7.29 SN LD NOZ 5 BEIGE	47	SPSR06	
50		5.61	405.50	0.53	0.47	14.11	7.29 SN LD NOZ 5 BEIGE	48	SPSR06	
51		5.61	411.11	0.54	0.58	14.01	7.29 SN LD NOZ 5.5 BEIGE/GOLD	49	SPSR06	
52		5.64	416.75	0.55	0.58	13.93	7.29 SN LD NOZ 5.5 BEIGE/GOLD	50	SPSR06	
53		5.64	422.39	0.55	0.58	13.85	7.29 SN LD NOZ 5.5 BEIGE/GOLD	51	SPSR06	
54		5.65	428.04	0.56	0.58	13.77	7.29 SN LD NOZ 5.5 BEIGE/GOLD	52	SPSR06	
55		5.67	433.71	0.57	0.58	13.71	7.29 SN LD NOZ 5.5 BEIGE/GOLD	53	SPSR06	
56		5.67	439.38	0.58	0.58	13.66	7.29 SN LD NOZ 5.5 BEIGE/GOLD	54	SPSR06	
57		5.66	445.04	0.58	0.58	13.62	7.29 SN LD NOZ 5.5 BEIGE/GOLD	55	SPSR06	
58		5.56	450.60	0.58	0.58	13.59	7.29 SN LD NOZ 5.5 BEIGE/GOLD	56	SPSR06	
59		5.56	456.16	0.59	0.58	13.56	7.29 SN LD NOZ 5.5 BEIGE/GOLD	57	SPSR06	
60		5.56	461.72	0.59	0.58	13.55	7.29 SN LD NOZ 5.5 BEIGE/GOLD	58	SPSR06	
61		5.44	467.16	0.59	0.58	13.54	7.29 SN LD NOZ 5.5 BEIGE/GOLD	59	SPSR06	
62		5.44	472.60	0.60	0.58	13.55	7.29 SN LD NOZ 5.5 BEIGE/GOLD	60	SPSR06	
63		5.43	478.03	0.62	0.58	13.56	7.29 SN LD NOZ 5.5 BEIGE/GOLD	61	SPSR06	
64		5.72	483.75	0.64	0.58	13.58	7.29 SN LD NOZ 5.5 BEIGE/GOLD	62	SPSR06	
65		5.72	489.47	0.65	0.71	13.62	7.28 SN LD NOZ 6 GOLD	63	SPSR06	
66		5.71	495.18	0.65	0.71	13.66	7.28 SN LD NOZ 6 GOLD	64	SPSR06	
67		5.64	500.82	0.66	0.71	13.71	7.28 SN LD NOZ 6 GOLD	65	SPSR06	
68		5.64	506.46	0.66	0.71	13.77	7.28 SN LD NOZ 6 GOLD	66	SPSR06	
69		5.64	512.10	0.67	0.71	13.84	7.28 SN LD NOZ 6 GOLD	67	SPSR06	
70		5.65	517.75	0.68	0.71	13.92	7.28 SN LD NOZ 6 GOLD	68	SPSR06	
71		5.65	523.40	0.68	0.71	14.01	7.28 SN LD NOZ 6 GOLD	69	SPSR06	
72		5.64	529.04	0.69	0.71	14.10	7.28 SN LD NOZ 6 GOLD	70	SPSR06	
73		5.66	534.70	0.70	0.71	14.21	7.28 SN LD NOZ 6 GOLD	71	SPSR06	
74		5.66	540.36	0.71	0.71	14.33	7.28 SN LD NOZ 6 GOLD	72	SPSR06	
75		5.66	546.02	0.71	0.71	14.46	7.28 SN LD NOZ 6 GOLD	73	SPSR06	
76		5.53	551.55	0.71	0.71	14.51	7.28 SN LD NOZ 6 GOLD	74	SPSR06	
77		5.53	557.08	0.71	0.71	14.51	7.28 SN LD NOZ 6 GOLD	75	SPSR06	
TOWER 3		185.63	558.62							
78		5.52	562.60	0.74	0.71	14.50	7.28 SN LD NOZ 6 GOLD	76	SPSR06	
79		5.77	568.37	0.76	0.71	14.47	7.28 SN LD NOZ 6 GOLD	77	SPSR06	
80		5.77	574.14	0.77	0.83	14.33	7.28 SN LD NOZ 6.5 GOLD/LIME	78	SPSR06	
81		5.77	579.91	0.76	0.71	14.20	7.28 SN LD NOZ 6 GOLD	79	SPSR06	
82		5.61	585.52	0.76	0.71	14.08	7.28 SN LD NOZ 6 GOLD	80	SPSR06	
83		5.61	591.13	0.77	0.83	13.98	7.28 SN LD NOZ 6.5 GOLD/LIME	81	SPSR06	
84		5.61	596.74	0.78	0.83	13.88	7.28 SN LD NOZ 6.5 GOLD/LIME	82	SPSR06	
85		5.64	602.38	0.79	0.83	13.79	7.28 SN LD NOZ 6.5 GOLD/LIME	83	SPSR06	
86		5.64	608.02	0.80	0.83	13.71	7.28 SN LD NOZ 6.5 GOLD/LIME	84	SPSR06	
87		5.65	613.67	0.80	0.83	13.64	7.28 SN LD NOZ 6.5 GOLD/LIME	85	SPSR06	
88		5.67	619.34	0.81	0.83	13.58	7.28 SN LD NOZ 6.5 GOLD/LIME	86	SPSR06	
89		5.67	625.01	0.82	0.83	13.53	7.28 SN LD NOZ 6.5 GOLD/LIME	87	SPSR06	
90		5.66	630.67	0.82	0.83	13.49	7.28 SN LD NOZ 6.5 GOLD/LIME	88	SPSR06	
91		5.56	636.23	0.82	0.83	13.46	7.28 SN LD NOZ 6.5 GOLD/LIME	89	SPSR06	
92		5.56	641.79	0.83	0.83	13.44	7.28 SN LD NOZ 6.5 GOLD/LIME	90	SPSR06	
93		5.56	647.35	0.82	0.83	13.42	7.28 SN LD NOZ 6.5 GOLD/LIME	91	SPSR06	

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.
94	5.44	652.79	0.82	0.83	13.42	7.28	SN LD NOZ 6.5 GOLD/LIME	92	SPSR06	
95	5.44	658.23	0.83	0.83	13.42	7.28	SN LD NOZ 6.5 GOLD/LIME	93	SPSR06	
96	5.43	663.66	0.86	0.83	13.44	7.28	SN LD NOZ 6.5 GOLD/LIME	94	SPSR06	
97	5.72	669.38	0.89	0.83	13.46	7.28	SN LD NOZ 6.5 GOLD/LIME	95	SPSR06	
98	5.72	675.10	0.89	0.96	13.50	7.28	SN LD NOZ 7 LIME	96	SPSR06	
99	5.71	680.81	0.90	0.96	13.54	7.28	SN LD NOZ 7 LIME	97	SPSR06	
100	5.64	686.45	0.90	0.96	13.59	7.28	SN LD NOZ 7 LIME	98	SPSR06	
101	5.64	692.09	0.90	0.96	13.65	7.28	SN LD NOZ 7 LIME	99	SPSR06	
102	5.64	697.73	0.91	0.96	13.72	7.28	SN LD NOZ 7 LIME	100	SPSR06	
103	5.65	703.38	0.92	0.96	13.80	7.28	SN LD NOZ 7 LIME	101	SPSR06	
104	5.65	709.03	0.93	0.96	13.89	7.28	SN LD NOZ 7 LIME	102	SPSR06	
105	5.64	714.67	0.93	0.96	13.99	7.28	SN LD NOZ 7 LIME	103	SPSR06	
106	5.66	720.33	0.94	0.96	14.10	7.28	SN LD NOZ 7 LIME	104	SPSR06	
107	5.66	725.99	0.95	0.96	14.22	7.28	SN LD NOZ 7 LIME	105	SPSR06	
108	5.66	731.65	0.95	0.96	14.35	7.28	SN LD NOZ 7 LIME	106	SPSR06	
109	5.53	737.18	0.94	0.96	14.40	7.28	SN LD NOZ 7 LIME	107	SPSR06	
110	5.53	742.71	0.95	0.96	14.40	7.28	SN LD NOZ 7 LIME	108	SPSR06	
TOWER 4	185.63	744.25								
111	5.52	748.23	0.98	0.96	14.40	7.28	SN LD NOZ 7 LIME	109	SPSR06	
112	5.77	754.00	1.01	0.96	14.36	7.28	SN LD NOZ 7 LIME	110	SPSR06	
113	5.77	759.77	1.01	0.96	14.22	7.28	SN LD NOZ 7 LIME	111	SPSR06	
114	5.77	765.54	1.01	0.96	14.10	7.28	SN LD NOZ 7 LIME	112	SPSR06	
115	5.61	771.15	1.00	0.96	13.98	7.28	SN LD NOZ 7 LIME	113	SPSR06	
116	5.61	776.76	1.01	0.96	13.88	7.28	SN LD NOZ 7 LIME	114	SPSR06	
117	5.61	782.37	1.02	0.96	13.78	7.28	SN LD NOZ 7 LIME	115	SPSR06	
118	5.64	788.01	1.03	1.09	13.69	7.27	SN LD NOZ 7.5 LIME/LAV	116	SPSR06	
119	5.64	793.65	1.04	1.09	13.61	7.27	SN LD NOZ 7.5 LIME/LAV	117	SPSR06	
120	5.65	799.30	1.05	1.09	13.55	7.27	SN LD NOZ 7.5 LIME/LAV	118	SPSR06	
121	5.67	804.97	1.06	1.09	13.49	7.27	SN LD NOZ 7.5 LIME/LAV	119	SPSR06	
122	5.67	810.64	1.06	1.09	13.44	7.27	SN LD NOZ 7.5 LIME/LAV	120	SPSR06	
123	5.66	816.30	1.06	1.09	13.40	7.27	SN LD NOZ 7.5 LIME/LAV	121	SPSR06	
124	5.56	821.86	1.06	1.09	13.37	7.27	SN LD NOZ 7.5 LIME/LAV	122	SPSR06	
125	5.56	827.42	1.06	1.09	13.35	7.27	SN LD NOZ 7.5 LIME/LAV	123	SPSR06	
126	5.56	832.98	1.06	1.09	13.33	7.27	SN LD NOZ 7.5 LIME/LAV	124	SPSR06	
127	5.44	838.42	1.05	1.09	13.33	7.27	SN LD NOZ 7.5 LIME/LAV	125	SPSR06	
128	5.44	843.86	1.06	1.09	13.34	7.27	SN LD NOZ 7.5 LIME/LAV	126	SPSR06	
129	5.43	849.29	1.09	1.09	13.35	7.27	SN LD NOZ 7.5 LIME/LAV	127	SPSR06	
130	5.72	855.01	1.13	1.09	13.38	7.27	SN LD NOZ 7.5 LIME/LAV	128	SPSR06	
131	5.72	860.73	1.14	1.09	13.41	7.27	SN LD NOZ 7.5 LIME/LAV	129	SPSR06	
132	5.71	866.44	1.14	1.09	13.46	7.27	SN LD NOZ 7.5 LIME/LAV	130	SPSR06	
133	5.64	872.08	1.14	1.09	13.51	7.27	SN LD NOZ 7.5 LIME/LAV	131	SPSR06	
134	5.64	877.72	1.14	1.09	13.57	7.27	SN LD NOZ 7.5 LIME/LAV	132	SPSR06	
135	5.64	883.36	1.15	1.09	13.64	7.27	SN LD NOZ 7.5 LIME/LAV	133	SPSR06	
136	5.65	889.01	1.16	1.23	13.73	7.27	SN LD NOZ 8 LAVENDER	134	SPSR06	
137	5.65	894.66	1.17	1.23	13.82	7.27	SN LD NOZ 8 LAVENDER	135	SPSR06	
138	5.64	900.30	1.18	1.23	13.92	7.27	SN LD NOZ 8 LAVENDER	136	SPSR06	
139	5.66	905.96	1.18	1.23	14.03	7.27	SN LD NOZ 8 LAVENDER	137	SPSR06	
140	5.66	911.62	1.19	1.23	14.15	7.27	SN LD NOZ 8 LAVENDER	138	SPSR06	

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.
141	5.66	917.28	1.18	1.23	14.28	7.27	SN LD NOZ 8 LAVENDER	139	SPSR06	
142	5.53	922.81	1.18	1.23	14.33	7.27	SN LD NOZ 8 LAVENDER	140	SPSR06	
143	5.53	928.34	1.18	1.23	14.33	7.27	SN LD NOZ 8 LAVENDER	141	SPSR06	
TOWER 5	185.63	929.88								
144	5.52	933.86	1.21	1.23	14.33	7.27	SN LD NOZ 8 LAVENDER	142	SPSR06	
145	5.77	939.63	1.25	1.23	14.28	7.27	SN LD NOZ 8 LAVENDER	143	SPSR06	
146	5.77	945.40	1.26	1.23	14.14	7.27	SN LD NOZ 8 LAVENDER	144	SPSR06	
147	5.77	951.17	1.25	1.23	14.01	7.27	SN LD NOZ 8 LAVENDER	145	SPSR06	
148	5.61	956.78	1.24	1.23	13.89	7.27	SN LD NOZ 8 LAVENDER	146	SPSR06	
149	5.61	962.39	1.24	1.23	13.79	7.27	SN LD NOZ 8 LAVENDER	147	SPSR06	
150	5.61	968.00	1.26	1.23	13.70	7.27	SN LD NOZ 8 LAVENDER	148	SPSR06	
151	5.64	973.64	1.27	1.23	13.62	7.27	SN LD NOZ 8 LAVENDER	149	SPSR06	
152	5.64	979.28	1.28	1.23	13.55	7.27	SN LD NOZ 8 LAVENDER	150	SPSR06	
153	5.65	984.93	1.29	1.23	13.48	7.27	SN LD NOZ 8 LAVENDER	151	SPSR06	
154	5.66	990.59	1.30	1.23	13.43	7.27	SN LD NOZ 8 LAVENDER	152	SPSR06	
155	5.67	996.26	1.31	1.23	13.39	7.27	SN LD NOZ 8 LAVENDER	153	SPSR06	
156	5.67	1001.93	1.31	1.23	13.37	7.27	SN LD NOZ 8 LAVENDER	154	SPSR06	
157	5.64	1007.57	1.32	1.23	13.35	7.27	SN LD NOZ 8 LAVENDER	155	SPSR06	
158	5.64	1013.21	1.33	1.42	13.34	7.26	SN LD NOZ 8.5 LAV/GREY	156	SPSR06	
159	5.65	1018.86	1.34	1.42	13.34	7.26	SN LD NOZ 8.5 LAV/GREY	157	SPSR06	
160	5.71	1024.57	1.35	1.42	13.36	7.26	SN LD NOZ 8.5 LAV/GREY	158	SPSR06	
161	5.72	1030.29	1.36	1.42	13.38	7.26	SN LD NOZ 8.5 LAV/GREY	159	SPSR06	
162	5.72	1036.01	1.36	1.42	13.42	7.26	SN LD NOZ 8.5 LAV/GREY	160	SPSR06	
163	5.64	1041.65	1.36	1.42	13.46	7.26	SN LD NOZ 8.5 LAV/GREY	161	SPSR06	
164	5.64	1047.29	1.36	1.42	13.52	7.26	SN LD NOZ 8.5 LAV/GREY	162	SPSR06	
165	5.64	1052.93	1.37	1.42	13.59	7.26	SN LD NOZ 8.5 LAV/GREY	163	SPSR06	
166	5.64	1058.57	1.38	1.42	13.67	7.26	SN LD NOZ 8.5 LAV/GREY	164	SPSR06	
167	5.65	1064.22	1.38	1.42	13.76	7.26	SN LD NOZ 8.5 LAV/GREY	165	SPSR06	
168	5.65	1069.87	1.39	1.42	13.86	7.26	SN LD NOZ 8.5 LAV/GREY	166	SPSR06	
169	5.66	1075.53	1.40	1.42	13.97	7.26	SN LD NOZ 8.5 LAV/GREY	167	SPSR06	
170	5.66	1081.19	1.41	1.42	14.09	7.26	SN LD NOZ 8.5 LAV/GREY	168	SPSR06	
171	5.66	1086.85	1.40	1.42	14.22	7.26	SN LD NOZ 8.5 LAV/GREY	169	SPSR06	
172	5.53	1092.38	1.39	1.42	14.30	7.26	SN LD NOZ 8.5 LAV/GREY	170	SPSR06	
173	5.54	1097.92	1.40	1.42	14.30	7.26	SN LD NOZ 8.5 LAV/GREY	171	SPSR06	
TOWER 6	169.60	1099.48								
174	5.54	1103.46	1.43	1.42	14.30	7.26	SN LD NOZ 8.5 LAV/GREY	172	SPSR06	
175	5.77	1109.23	1.47	1.42	14.25	7.26	SN LD NOZ 8.5 LAV/GREY	173	SPSR06	
176	5.77	1115.00	1.48	1.42	14.11	7.26	SN LD NOZ 8.5 LAV/GREY	174	SPSR06	
177	5.77	1120.77	1.47	1.42	13.98	7.26	SN LD NOZ 8.5 LAV/GREY	175	SPSR06	
178	5.61	1126.38	1.45	1.42	13.87	7.26	SN LD NOZ 8.5 LAV/GREY	176	SPSR06	
179	5.61	1131.99	1.46	1.42	13.77	7.26	SN LD NOZ 8.5 LAV/GREY	177	SPSR06	
180	5.61	1137.60	1.47	1.42	13.68	7.26	SN LD NOZ 8.5 LAV/GREY	178	SPSR06	
181	5.64	1143.24	1.49	1.55	13.60	7.26	SN LD NOZ 9 GREY	179	SPSR06	
182	5.64	1148.88	1.49	1.55	13.52	7.26	SN LD NOZ 9 GREY	180	SPSR06	
183	5.65	1154.53	1.50	1.55	13.46	7.26	SN LD NOZ 9 GREY	181	SPSR06	
184	5.66	1160.19	1.51	1.55	13.41	7.26	SN LD NOZ 9 GREY	182	SPSR06	
185	5.67	1165.86	1.52	1.55	13.38	7.26	SN LD NOZ 9 GREY	183	SPSR06	
186	5.67	1171.53	1.52	1.55	13.35	7.26	SN LD NOZ 9 GREY	184	SPSR06	

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.
187		5.64	1177.17	1.52	1.55	13.33	7.26 SN LD NOZ 9 GREY	185	SPSR06	
188		5.64	1182.81	1.53	1.55	13.32	7.26 SN LD NOZ 9 GREY	186	SPSR06	
189		5.65	1188.46	1.54	1.55	13.33	7.26 SN LD NOZ 9 GREY	187	SPSR06	
190		5.71	1194.17	1.56	1.55	13.34	7.26 SN LD NOZ 9 GREY	188	SPSR06	
191		5.72	1199.89	1.57	1.55	13.37	7.26 SN LD NOZ 9 GREY	189	SPSR06	
192		5.72	1205.61	1.57	1.55	13.40	7.26 SN LD NOZ 9 GREY	190	SPSR06	
193		5.64	1211.25	1.56	1.55	13.45	7.26 SN LD NOZ 9 GREY	191	SPSR06	
194		5.64	1216.89	1.57	1.55	13.51	7.26 SN LD NOZ 9 GREY	192	SPSR06	
195		5.64	1222.53	1.58	1.55	13.58	7.26 SN LD NOZ 9 GREY	193	SPSR06	
196		5.66	1228.19	1.60	1.55	13.65	7.26 SN LD NOZ 9 GREY	194	SPSR06	
197		5.66	1233.85	1.61	1.55	13.74	7.26 SN LD NOZ 9 GREY	195	SPSR06	
198		5.66	1239.51	1.62	1.55	13.84	7.26 SN LD NOZ 9 GREY	196	SPSR06	
199		5.67	1245.18	1.64	1.73	13.95	7.26 SN LD NOZ 9.5 GREY/TURQ	197	SPSR06	
200		5.67	1250.85	1.64	1.55	14.08	7.26 SN LD NOZ 9 GREY	198	SPSR06	
201		5.68	1256.53	1.65	1.73	14.21	7.26 SN LD NOZ 9.5 GREY/TURQ	199	SPSR06	
202		5.64	1262.17	1.64	1.73	14.30	7.26 SN LD NOZ 9.5 GREY/TURQ	200	SPSR06	
203		5.64	1267.81	1.66	1.73	14.30	7.26 SN LD NOZ 9.5 GREY/TURQ	201	SPSR06	
TOWER 7		169.80	1269.28							
							PIPE ID CHANGES FROM 6.407 TO 5.790			
204		5.80	1273.61	1.66	1.73	14.30	7.26 SN LD NOZ 9.5 GREY/TURQ	202	SPSR06	
205		5.72	1279.33	1.64	1.73	14.30	7.26 SN LD NOZ 9.5 GREY/TURQ	203	SPSR06	
206		5.72	1285.05	1.61	1.55	14.30	7.26 SN LD NOZ 9 GREY	204	SPSR06	
207		5.71	1290.76	1.65	1.73	14.30	7.26 SN LD NOZ 9.5 GREY/TURQ	205	SPSR06	
208		4.18	1294.94	1.67	1.73	14.30	7.26 SN LD NOZ 9.5 GREY/TURQ	206	SPSR06	
OVERHANG		25.66	1294.94							

TOTAL GPM = 195.80

GPA = 1.61

MINIMUM RECOMMENDED REGULATOR INLET PRESSURE IS 11.00 PSI  
 WITH GRADUATED ELEVATION OF 15.00 FT THE INLET PRESSURE IS 11.64 PSI FOR SPRINKLER 206  
 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	2.53	4.08	4.13	1%	1.63	0.004	0.13	0.17	0.22
2	7.50	12.10	11.93	-1%	1.59	0.004	0.13	0.17	0.21
3	12.47	20.11	20.16	0%	1.62	0.004	0.13	0.17	0.21
4	17.44	28.12	28.44	1%	1.63	0.004	0.13	0.17	0.22
5	22.41	36.14	36.13	0%	1.61	0.004	0.13	0.17	0.21
6	24.82	40.02	39.93	0%	1.61	0.004	0.13	0.17	0.21
7	29.01	46.77	46.20	-1%	1.59	0.004	0.13	0.17	0.21
OVERHANG	4.75	7.65	8.88	16%	1.87	0.004	0.15	0.20	0.25

TOTAL

120.94

195.00

195.80

1.62

**SUMMARY OF SPRINKLERS**

5 LD NOZ UP3 2 PINK  
4 LD NOZ UP3 2.5 PINK  
4 LD NOZ UP3 3 ICE  
5 LD NOZ UP3 3.5 ICE  
6 LD NOZ UP3 4 LT BLUE  
7 LD NOZ UP3 4.5 LT BLUE  
6 LD NOZ UP3 5 BEIGE  
5 LD NOZ UP3 5.5 BEIGE  
5 SN LD NOZ 5 BEIGE  
15 SN LD NOZ 5.5 BEIGE/GOLD  
17 SN LD NOZ 6 GOLD  
16 SN LD NOZ 6.5 GOLD/LIME  
20 SN LD NOZ 7 LIME  
18 SN LD NOZ 7.5 LIME/LAV  
22 SN LD NOZ 8 LAVENDER  
23 SN LD NOZ 8.5 LAV/GREY  
20 SN LD NOZ 9 GREY  
8 SN LD NOZ 9.5 GREY/TURQ

**2 PLUGS****SUMMARY OF REGULATORS**

42 Senn FPSR2 10 psi  
164 Senn PSR 6 psi

**TOTAL OF 206 REGULATORS**

## NOZZLE POSITION CHART

LD NOZ UP3 2 PINK	1, 2, 3, 4, 5
LD NOZ UP3 2.5 PINK	6, 7, 8, 9
LD NOZ UP3 3 ICE	10, 11, 12, 13
LD NOZ UP3 3.5 ICE	14, 15, 16, 17, 18
LD NOZ UP3 4 LT BLUE	19, 20, 21, 22, 23, 24
LD NOZ UP3 4.5 LT BLUE	25, 26, 27, 28, 29, 30, 31
LD NOZ UP3 5 BEIGE	32, 33, 34, 35, 36, 37
LD NOZ UP3 5.5 BEIGE	38, 39, 40, 41, 42
SN LD NOZ 5 BEIGE	44, 45, 46, 47, 48
SN LD NOZ 5.5 BEIGE/GOLD	43, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62
SN LD NOZ 6 GOLD	63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 79, 80
SN LD NOZ 6.5 GOLD/LIME	78, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95
SN LD NOZ 7 LIME	96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115
SN LD NOZ 7.5 LIME/LAV	116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133
SN LD NOZ 8 LAVENDER	134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155
SN LD NOZ 8.5 LAV/GREY	156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178
SN LD NOZ 9 GREY	179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 198, 204
SN LD NOZ 9.5 GREY/TURQ	197, 199, 200, 201, 202, 203, 205, 206

# WESTERN KANSAS IRRIGATION

2729 WEST OKLAHOMA  
ULYSSES, KANSAS 6788

SEPTEMBER 30, 2025  
WISH-119637  
POINT WEST FARMS  
SW 1/4 20-27-42  
195 GPM @ 15 PSI

VALLEY 4271 UNIFORM REPIPE  
SENNINGER UP3 LDN SPRAY NOZZLES  
SENNINGER 10 & 6 PSI REGULATORS  
.75 I.D. FLEXIBLE HOSE  
HEAD

Rotation time at 100% = 18.64 Hours Or 1119 minutes

## Installation Chart

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Page 1

# WESTERN KANSAS IRRIGATION

2729 WEST OKLAHOMA  
ULYSSES, KANSAS 67880

VALLEY 4271 UNIFORM REPIPE  
SENNINGER UP3 LDN SPRAY NOZZLES  
SENNINGER 10 & 6 PSI REGULATORS  
.75 I.D. FLEXIBLE HOSE  
NO ENDGUN

SEPTEMBER 30, 2025  
WISH-119637  
POINT WEST FARMS  
SW 1/4 20-27-42  
195 gpm @ 15 psi

Rotation time at 100% = 18.64 Hours Or 1119 minutes

## Nozzle Difference

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Previous chart: WISH-116877 215 gpm @ 15 psi

Current chart: WISH-119637 195 gpm @ 15 psi

<u>Nozzle Type and Size</u>	<u>Difference</u>	<u>Previous WISH Printouts</u>
SENNINGER UP3 2.5 PINK	1	WISH-116877 215 gpm @ 15 PSI MARCH 11, 2025
SENNINGER UP3 3 ICE	1	
SENNINGER UP3 4 LT BLUE	1	
SENNINGER UP3 4.5 LT BLUE	1	
SENN SSNZ NOZ 5 BEIGE	5	
SENN SSNZ NOZ 5.5 BEIGE/GOLD	2	
SENN SSNZ NOZ 6 GOLD	2	
SENN SSNZ NOZ 6.5 GOLD/LIME	1	
SENN SSNZ NOZ 7 LIME	3	
SENN SSNZ NOZ 7.5 LIME/LAV	2	
SENN SSNZ NOZ 8.5 LAV/GREY	7	
SENN SSNZ NOZ 9 GREY	1	
<b>Total:</b>	<b>27</b>	

PRECIPITATION CHART FOR FULL CIRCLE

WISH-119637

SEPTEMBER 30, 2025

DEALER - WESTERN KANSAS IRRIGATION

IRRIGATOR - POINT WEST FARMS  
FIELD - SW 1/4 20-27-42

TOTAL LENGTH PIPE = 1294.94 SYSTEM PRESSURE = 15 PSI  
 GPM UNDER PIPE = 195.80 TOTAL GPM = 195.80  
 ACRES UNDER PIPE = 120.94  
 RANGE OF ENDGUN = .00  
 GPM OF ENDGUN = .00  
 ACRES UNDER ENDGUN = .00

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 BASED

## % TIMER BASED

PRECIPITATION INCHES	% TIMER SETTING	TIME HOURS	% TIMER SETTING	PRECIPITATION INCHES	TIME HOURS
.07	100.00	18.64 - 1119(min)	100.00	.07	18.64 - 1119(min)
.10	66.69	27.95	90.00	.07	20.71
.20	33.34	55.91	80.00	.08	23.30
.25	26.68	69.89	70.00	.10	26.63
.30	22.23	83.86	60.00	.11	31.07
.40	16.67	111.82	50.00	.13	37.28
.50	13.34	139.77	45.00	.15	41.43
.60	11.11	167.72	40.00	.17	46.61
.70	9.53	195.68	35.00	.19	53.26
.75	8.89	209.66	30.00	.22	62.14
.80	8.34	223.63	25.00	.27	74.57
.90	7.41	251.59	20.00	.33	93.21
1.00	6.67	279.54	15.00	.44	124.28
1.25	5.34	349.43	10.00	.67	186.42
1.50	4.45	419.31	5.00	1.33	372.84

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.