

WESTERN KANSAS IRRIGATION

SEPTEMBER 25, 2025

WISH-119615

CUSTOMER : JOSSERAND FARMS

LINDSAY 307 MOD
7 TOWER - 1285.77 FT
SYSTEM 375 GPM @ 14 PSI

LEGAL : NE 1/4 1-30-40
P.O. NO. : INV170041

SENNINGER HD LOW DRIFT SPRAY NOZZLES
NO REGULATORS
NO ENDGUN
ELEVATION 14 FT UP, 0 FT DOWN

125 N. FRONTAGE ROAD
JOHNSON, KANSAS 67855

(620)492-2362

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.

LINDSAY 307 MOD

SEPTEMBER 25, 2025

WISH-119615

DEALER

WESTERN KANSAS IRRIGATION
 125 N. FRONTAGE ROAD
 JOHNSON, KANSAS 67855

IRRIGATOR

JOSSERAND FARMS
 NE 1/4 1-30-40
 INV170041

TOTAL TARGET GPM	375.00	FRICTION FACTOR USED	135	SPAN #	LENGTH	PIPE I.D.	# OF HEADS
TOP OF PIVOT PRESSURE	14.00	TOTAL LENGTH	1285.77	1	176.75	6.375	15
NO ENDGUN		NUMBER OF TOWERS	7	2	177.67	6.375	17
NUMBER OF OUTLETS	125	NUMBER OF SPRINKLERS	125	3	177.67	6.375	16
SENNINGER HD LOW DRIFT SPRAY NOZZLES - CONCAVE GROOVED PADS				4	177.67	6.375	16
NO REGULATORS				5	177.67	6.375	18
DROPS AVERAGE 9.5 FT OF 3/4 INCH SCHEDULE 80 UV RESISTANT PVC PIPE				6	177.67	6.375	17
ELEVATION IS 14 FT UP AND 0 FT DOWN				7	177.67	6.375	20
				OH	43.00	6.375	6

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.	PLUG NO.
1	25.21	25.21	0.21	0.45	13.61	17.51	SN LD NOZ 4 LT BLUE	1	
2	10.45	35.66	0.17	0.45	13.37	17.48	SN LD NOZ 4 LT BLUE	2	
3	10.45	46.11	0.22	0.45	13.17	17.49	SN LD NOZ 4 LT BLUE	3	
4	10.45	56.56	0.27	0.45	13.00	17.32	SN LD NOZ 4 LT BLUE	4	
5	10.46	67.02	0.32	0.45	12.87	17.41	SN LD NOZ 4 LT BLUE	5	
6	10.45	77.47	0.36	0.45	12.77	17.31	SN LD NOZ 4 LT BLUE	6	
7	10.45	87.92	0.41	0.45	12.71	17.25	SN LD NOZ 4 LT BLUE	7	
8	10.45	98.37	0.46	0.45	12.68	17.22	SN LD NOZ 4 LT BLUE	8	
9	10.45	108.82	0.51	0.56	12.69	17.23	SN LD NOZ 4.5 LT BL/BEIGE	9	
10	10.45	119.27	0.56	0.55	12.74	17.06	SN LD NOZ 4.5 LT BL/BEIGE	10	
11	10.45	129.72	0.61	0.56	12.82	17.14	SN LD NOZ 4.5 LT BL/BEIGE	11	
12	10.46	140.18	0.66	0.70	12.93	17.03	SN LD NOZ 5 BEIGE	12	
13	10.45	150.63	0.71	0.70	13.08	16.97	SN LD NOZ 5 BEIGE	13	
14	10.45	161.08	0.76	0.70	13.27	16.94	SN LD NOZ 5 BEIGE	14	
15	10.45	171.53	0.81	0.86	13.38	16.83	SN LD NOZ 5.5 BEIGE/GOLD	15	
TOWER 1	176.75	176.75							
16	10.45	181.98	0.86	0.86	13.35	16.80	SN LD NOZ 5.5 BEIGE/GOLD	16	
17	10.45	192.43	0.90	0.86	13.25	16.92	SN LD NOZ 5.5 BEIGE/GOLD	17	
18	10.45	202.88	0.95	1.04	12.98	16.85	SN LD NOZ 6 GOLD	18	
19	10.45	213.33	1.00	1.04	12.74	16.83	SN LD NOZ 6 GOLD	19	
20	10.45	223.78	1.05	1.04	12.54	16.84	SN LD NOZ 6 GOLD	20	
21	10.45	234.23	1.10	1.03	12.37	16.68	SN LD NOZ 6 GOLD	21	
22	10.46	244.69	1.15	1.23	12.24	16.75	SN LD NOZ 6.5 GOLD/LIME	22	
23	10.45	255.14	1.20	1.22	12.15	16.66	SN LD NOZ 6.5 GOLD/LIME	23	
24	10.45	265.59	1.25	1.22	12.09	16.60	SN LD NOZ 6.5 GOLD/LIME	24	
25	10.45	276.04	1.30	1.22	12.06	16.57	SN LD NOZ 6.5 GOLD/LIME	25	
26	10.45	286.49	1.35	1.41	12.08	16.57	SN LD NOZ 7 LIME	26	
27	10.45	296.94	1.40	1.40	12.12	16.41	SN LD NOZ 7 LIME	27	
28	10.45	307.39	1.45	1.40	12.21	16.49	SN LD NOZ 7 LIME	28	
29	10.46	317.85	1.49	1.40	12.33	16.39	SN LD NOZ 7 LIME	29	
30	10.45	328.30	1.54	1.60	12.48	16.32	SN LD NOZ 7.5 LIME/LAV	30	
31	10.45	338.75	1.59	1.59	12.67	16.30	SN LD NOZ 7.5 LIME/LAV	31	
32	10.45	349.20	1.67	1.59	12.79	16.20	SN LD NOZ 7.5 LIME/LAV	32	
TOWER 2	177.67	354.42							
33	10.77	359.97	1.77	1.80	12.76	16.16	SN LD NOZ 8 LAVENDER	33	
34	11.11	371.08	1.85	1.80	12.64	16.26	SN LD NOZ 8 LAVENDER	34	
35	11.10	382.18	1.91	1.80	12.36	16.19	SN LD NOZ 8 LAVENDER	35	
36	11.11	393.29	1.97	2.05	12.12	16.14	SN LD NOZ 8.5 LAV/GREY	36	
37	11.10	404.39	2.02	2.05	11.92	16.15	SN LD NOZ 8.5 LAV/GREY	37	
38	11.11	415.50	2.08	2.04	11.76	15.99	SN LD NOZ 8.5 LAV/GREY	38	
39	11.10	426.60	2.13	2.05	11.64	16.09	SN LD NOZ 8.5 LAV/GREY	39	
40	11.10	437.70	2.19	2.24	11.56	15.99	SN LD NOZ 9 GREY	40	
41	11.11	448.81	2.24	2.24	11.52	15.95	SN LD NOZ 9 GREY	41	
42	11.10	459.91	2.30	2.24	11.52	15.95	SN LD NOZ 9 GREY	42	
43	11.11	471.02	2.35	2.24	11.56	15.99	SN LD NOZ 9 GREY	43	
44	11.10	482.12	2.41	2.49	11.64	15.84	SN LD NOZ 9.5 GREY/TURQ	44	
45	11.11	493.23	2.47	2.48	11.77	15.75	SN LD NOZ 9.5 GREY/TURQ	45	
46	11.10	504.33	2.52	2.48	11.93	15.70	SN LD NOZ 9.5 GREY/TURQ	46	

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE	SPRK NO.	PLUG NO.
47	11.11	515.44	2.58	2.48	12.13	15.70	SN LD NOZ 9.5 GREY/TURQ	47	
48	11.10	526.54	2.63	2.74	12.28	15.61	SN LD NOZ 10 TURQUOISE	48	
TOWER 3	177.67	532.09							
49	11.10	537.64	2.69	2.74	12.25	15.58	SN LD NOZ 10 TURQUOISE	49	
50	11.11	548.75	2.74	2.75	12.14	15.68	SN LD NOZ 10 TURQUOISE	50	
51	11.10	559.85	2.80	2.74	11.87	15.62	SN LD NOZ 10 TURQUOISE	51	
52	11.11	570.96	2.85	2.95	11.63	15.57	SN LD NOZ 10.5 TURQ/YEL	52	
53	11.10	582.06	2.91	2.96	11.44	15.58	SN LD NOZ 10.5 TURQ/YEL	53	
54	11.11	593.17	2.96	2.94	11.28	15.43	SN LD NOZ 10.5 TURQ/YEL	54	
55	11.10	604.27	3.02	2.95	11.17	15.53	SN LD NOZ 10.5 TURQ/YEL	55	
56	11.10	615.37	3.08	2.94	11.10	15.46	SN LD NOZ 10.5 TURQ/YEL	56	
57	11.11	626.48	3.13	3.25	11.07	15.39	SN LD NOZ 11 YELLOW	57	
58	11.10	637.58	3.19	3.25	11.08	15.39	SN LD NOZ 11 YELLOW	58	
59	11.11	648.69	3.24	3.26	11.12	15.44	SN LD NOZ 11 YELLOW	59	
60	11.10	659.79	3.30	3.24	11.21	15.33	SN LD NOZ 11 YELLOW	60	
61	11.11	670.90	3.35	3.24	11.34	15.25	SN LD NOZ 11 YELLOW	61	
62	11.10	682.00	3.41	3.48	11.52	15.18	SN LD NOZ 11.5 YEL/RED	62	
63	11.11	693.11	3.46	3.48	11.73	15.19	SN LD NOZ 11.5 YEL/RED	63	
64	11.10	704.21	3.42	3.48	11.88	15.13	SN LD NOZ 11.5 YEL/RED	64	
TOWER 4	177.67	709.76							
65	10.49	714.70	3.27	3.23	11.86	15.14	SN LD NOZ 11 YELLOW	65	
66	9.87	724.57	3.22	3.24	11.81	15.29	SN LD NOZ 11 YELLOW	66	
67	9.87	734.44	3.26	3.24	11.56	15.26	SN LD NOZ 11 YELLOW	67	
68	9.87	744.31	3.31	3.24	11.35	15.25	SN LD NOZ 11 YELLOW	68	
69	9.87	754.18	3.35	3.46	11.17	15.04	SN LD NOZ 11.5 YEL/RED	69	
70	9.87	764.05	3.39	3.47	11.02	15.10	SN LD NOZ 11.5 YEL/RED	70	
71	9.87	773.92	3.44	3.46	10.90	14.99	SN LD NOZ 11.5 YEL/RED	71	
72	9.87	783.79	3.48	3.47	10.82	15.11	SN LD NOZ 11.5 YEL/RED	72	
73	9.88	793.67	3.53	3.47	10.76	15.05	SN LD NOZ 11.5 YEL/RED	73	
74	9.87	803.54	3.57	3.46	10.74	15.03	SN LD NOZ 11.5 YEL/RED	74	
75	9.87	813.41	3.61	3.47	10.75	15.04	SN LD NOZ 11.5 YEL/RED	75	
76	9.87	823.28	3.66	3.81	10.80	15.04	SN LD NOZ 12 RED	76	
77	9.87	833.15	3.70	3.80	10.87	14.91	SN LD NOZ 12 RED	77	
78	9.87	843.02	3.74	3.81	10.98	15.01	SN LD NOZ 12 RED	78	
79	9.87	852.89	3.79	3.80	11.12	14.95	SN LD NOZ 12 RED	79	
80	9.87	862.76	3.83	3.80	11.29	14.92	SN LD NOZ 12 RED	80	
81	9.87	872.63	3.87	3.80	11.49	14.91	SN LD NOZ 12 RED	81	
82	9.87	882.50	3.98	4.12	11.61	14.79	SN LD NOZ 12.5 RED/WHITE	82	
TOWER 5	177.67	887.43							
83	10.16	892.66	4.14	4.12	11.60	14.78	SN LD NOZ 12.5 RED/WHITE	83	
84	10.45	903.11	4.24	4.14	11.53	14.91	SN LD NOZ 12.5 RED/WHITE	84	
85	10.45	913.56	4.30	4.13	11.28	14.87	SN LD NOZ 12.5 RED/WHITE	85	
86	10.45	924.01	4.35	4.47	11.07	14.81	SN LD NOZ 13 WHITE	86	
87	10.45	934.46	4.39	4.47	10.90	14.83	SN LD NOZ 13 WHITE	87	
88	10.45	944.91	4.44	4.45	10.76	14.70	SN LD NOZ 13 WHITE	88	
89	10.46	955.37	4.49	4.47	10.65	14.79	SN LD NOZ 13 WHITE	89	
90	10.45	965.82	4.54	4.46	10.58	14.72	SN LD NOZ 13 WHITE	90	
91	10.45	976.27	4.59	4.45	10.55	14.69	SN LD NOZ 13 WHITE	91	

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE	SPRK NO.	PLUG NO.
92	10.45	986.72	4.64	4.80	10.55	14.63	SN LD NOZ 13.5 WHITE/BLUE	92	
93	10.45	997.17	4.69	4.81	10.59	14.67	SN LD NOZ 13.5 WHITE/BLUE	93	
94	10.45	1007.62	4.73	4.79	10.67	14.55	SN LD NOZ 13.5 WHITE/BLUE	94	
95	10.45	1018.07	4.78	4.80	10.78	14.66	SN LD NOZ 13.5 WHITE/BLUE	95	
96	10.46	1028.53	4.83	4.80	10.93	14.61	SN LD NOZ 13.5 WHITE/BLUE	96	
97	10.45	1038.98	4.88	4.79	11.11	14.59	SN LD NOZ 13.5 WHITE/BLUE	97	
98	10.45	1049.43	4.93	4.80	11.33	14.61	SN LD NOZ 13.5 WHITE/BLUE	98	
99	10.45	1059.88	4.80	4.79	11.47	14.56	SN LD NOZ 13.5 WHITE/BLUE	99	
TOWER 6	177.67	1065.10							
100	9.66	1069.54	4.47	4.44	11.47	14.60	SN LD NOZ 13 WHITE	100	
101	8.89	1078.43	4.32	4.44	11.47	14.60	SN LD NOZ 13 WHITE	101	
102	8.88	1087.31	4.34	4.44	11.25	14.59	SN LD NOZ 13 WHITE	102	
103	8.88	1096.19	4.38	4.44	11.07	14.60	SN LD NOZ 13 WHITE	103	
104	8.89	1105.08	4.41	4.45	10.90	14.64	SN LD NOZ 13 WHITE	104	
105	8.88	1113.96	4.44	4.46	10.77	14.71	SN LD NOZ 13 WHITE	105	
106	8.88	1122.84	4.48	4.44	10.66	14.60	SN LD NOZ 13 WHITE	106	
107	8.89	1131.73	4.52	4.46	10.57	14.71	SN LD NOZ 13 WHITE	107	
108	8.88	1140.61	4.55	4.45	10.51	14.65	SN LD NOZ 13 WHITE	108	
109	8.88	1149.49	4.60	4.44	10.48	14.62	SN LD NOZ 13 WHITE	109	
110	8.89	1158.38	4.64	4.79	10.47	14.55	SN LD NOZ 13.5 WHITE/BLUE	110	
111	8.88	1167.26	4.67	4.79	10.49	14.57	SN LD NOZ 13.5 WHITE/BLUE	111	
112	8.88	1176.14	4.70	4.80	10.53	14.62	SN LD NOZ 13.5 WHITE/BLUE	112	
113	8.89	1185.03	4.72	4.78	10.60	14.49	SN LD NOZ 13.5 WHITE/BLUE	113	
114	8.88	1193.91	4.75	4.79	10.70	14.58	SN LD NOZ 13.5 WHITE/BLUE	114	
115	8.88	1202.79	4.79	4.78	10.82	14.51	SN LD NOZ 13.5 WHITE/BLUE	115	
116	8.89	1211.68	4.82	4.80	10.97	14.65	SN LD NOZ 13.5 WHITE/BLUE	116	
117	8.88	1220.56	4.86	4.80	11.14	14.62	SN LD NOZ 13.5 WHITE/BLUE	117	
118	8.88	1229.44	4.90	4.80	11.34	14.62	SN LD NOZ 13.5 WHITE/BLUE	118	
119	8.89	1238.33	4.83	4.78	11.44	14.52	SN LD NOZ 13.5 WHITE/BLUE	119	
TOWER 7	177.67	1242.77							
120	8.44	1246.77	4.62	4.78	11.44	14.52	SN LD NOZ 13.5 WHITE/BLUE	120	
121	8.00	1254.77	4.50	4.44	11.44	14.57	SN LD NOZ 13 WHITE	121	
122	8.00	1262.77	4.54	4.44	11.44	14.57	SN LD NOZ 13 WHITE	122	
123	8.00	1270.77	4.61	4.44	11.44	14.57	SN LD NOZ 13 WHITE	123	
124	8.00	1278.77	4.43	4.44	11.44	14.57	SN LD NOZ 13 WHITE	124	
125	7.00	1285.77	4.50	4.44	11.44	14.57	SN LD NOZ 13 WHITE	125	
OVERHANG	43.00	1285.77							

TOTAL GPM = 375.28

GPA = 3.15

THIS SYSTEM WILL ALSO DELIVER :

	PSI - 10%	PSI	PSI + 10%
PIVOT PRESSURE	12.60	14.00	15.40
TOTAL GPM	337.75	375.28	393.59
END PRESSURE	10.49	11.44	12.60
PRESSURE LOSS	2.11	2.56	2.80

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	2.25	7.09	8.25	16%	3.66	0.008	0.29	0.39	0.49
2	6.81	21.41	21.18	-1%	3.11	0.007	0.25	0.33	0.41
3	11.36	35.73	35.19	-2%	3.10	0.007	0.25	0.33	0.41
4	15.91	50.05	49.70	-1%	3.12	0.007	0.25	0.33	0.41
5	20.47	64.37	64.05	0%	3.13	0.007	0.25	0.33	0.41
6	25.02	78.69	77.70	-1%	3.11	0.007	0.25	0.33	0.41
7	29.57	93.01	92.38	-1%	3.12	0.007	0.25	0.33	0.41
OVERHANG	7.84	24.66	26.83	9%	3.42	0.008	0.27	0.36	0.45
TOTAL	119.23	375.00	375.28		3.15				

SUMMARY OF SPRINKLERS

8 SN LD NOZ 4 LT BLUE
3 SN LD NOZ 4.5 LT BL/BEIGE
3 SN LD NOZ 5 BEIGE
3 SN LD NOZ 5.5 BEIGE/GOLD
4 SN LD NOZ 6 GOLD
4 SN LD NOZ 6.5 GOLD/LIME
4 SN LD NOZ 7 LIME
3 SN LD NOZ 7.5 LIME/LAV
3 SN LD NOZ 8 LAVENDER
4 SN LD NOZ 8.5 LAV/GREY
4 SN LD NOZ 9 GREY
4 SN LD NOZ 9.5 GREY/TURQ
4 SN LD NOZ 10 TURQUOISE
5 SN LD NOZ 10.5 TURQ/YEL
9 SN LD NOZ 11 YELLOW
10 SN LD NOZ 11.5 YEL/RED
6 SN LD NOZ 12 RED
4 SN LD NOZ 12.5 RED/WHITE
21 SN LD NOZ 13 WHITE
19 SN LD NOZ 13.5 WHITE/BLUE

0 PLUGS

NOZZLE POSITION CHART

SN LD NOZ 4 LT BLUE	1, 2, 3, 4, 5, 6, 7, 8
SN LD NOZ 4.5 LT BL/BEIGE	9, 10, 11
SN LD NOZ 5 BEIGE	12, 13, 14
SN LD NOZ 5.5 BEIGE/GOLD	15, 16, 17
SN LD NOZ 6 GOLD	18, 19, 20, 21
SN LD NOZ 6.5 GOLD/LIME	22, 23, 24, 25
SN LD NOZ 7 LIME	26, 27, 28, 29
SN LD NOZ 7.5 LIME/LAV	30, 31, 32
SN LD NOZ 8 LAVENDER	33, 34, 35
SN LD NOZ 8.5 LAV/GREY	36, 37, 38, 39
SN LD NOZ 9 GREY	40, 41, 42, 43
SN LD NOZ 9.5 GREY/TURQ	44, 45, 46, 47
SN LD NOZ 10 TURQUOISE	48, 49, 50, 51
SN LD NOZ 10.5 TURQ/YEL	52, 53, 54, 55, 56
SN LD NOZ 11 YELLOW	57, 58, 59, 60, 61, 65, 66, 67, 68
SN LD NOZ 11.5 YEL/RED	62, 63, 64, 69, 70, 71, 72, 73, 74, 75
SN LD NOZ 12 RED	76, 77, 78, 79, 80, 81
SN LD NOZ 12.5 RED/WHITE	82, 83, 84, 85
SN LD NOZ 13 WHITE	86, 87, 88, 89, 90, 91, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 121, 122, 123, 124, 125
SN LD NOZ 13.5 WHITE/BLUE	92, 93, 94, 95, 96, 97, 98, 99, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120

WESTERN KANSAS IRRIGATION

125 N. FRONTAGE ROAD
JOHNSON, KANSAS 67855

SEPTEMBER 25, 2025
WISH-119615
JOSSERAND FARMS
NE 1/4 1-30-40
375 GPM @ 14 PSI

LINDSAY 307 MOD
SENNINGER HD LOW DRIFT SPRAY NOZZLES
NO REGULATORS
3/4 INCH SCHEDULE 80 UV RESISTANT PVC PIPE
NO ENDGUN

Rotation time at 100% = 18.59 Hours Or 1116 minutes

Installation Chart

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Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg
1		1	4		10		58	11		16		115	13.5	
2		2	4		11		59	11		17		116	13.5	
3		3	4		12		60	11		18		117	13.5	
4		4	4		13		61	11		19		118	13.5	
5		5	4		14		62	11.5		20		119	13.5	
6		6	4		15		63	11.5						
7		7	4		16		64	11.5						
8		8	4											
9		9	4.5				65	11				120	13.5	
10		10	4.5				66	11				121	13	
11		11	4.5				67	11				122	13	
12		12	5				68	11				123	13	
13		13	5				69	11.5				124	13	
14		14	5				70	11.5				125	13	
15		15	5.5				71	11.5						
				TOWER 1			72	11.5						
1		16	5.5				73	11.5						
2		17	5.5				74	11.5						
3		18	6				75	11.5						
4		19	6				76	12						
5		20	6				77	12						
6		21	6				78	12						
7		22	6.5				79	12						
8		23	6.5				80	12						
9		24	6.5				81	12						
10		25	6.5				82	12.5						
11		26	7											
12		27	7				83	12.5						
13		28	7				84	12.5						
14		29	7				85	12.5						
15		30	7.5				86	13						
16		31	7.5				87	13						
17		32	7.5				88	13						
				TOWER 2			89	13						
1		33	8				90	13						
2		34	8				91	13						
3		35	8				92	13.5						
4		36	8.5				93	13.5						
5		37	8.5				94	13.5						
6		38	8.5				95	13.5						
7		39	8.5				96	13.5						
8		40	9				97	13.5						
9		41	9				98	13.5						
10		42	9				99	13.5						
11		43	9											
12		44	9.5				100	13						
13		45	9.5				101	13						
14		46	9.5				102	13						
15		47	9.5				103	13						
16		48	10				104	13						
				TOWER 3			105	13						
1		49	10				106	13						
2		50	10				107	13						
3		51	10				108	13						
4		52	10.5				109	13						
5		53	10.5				110	13.5						
6		54	10.5				111	13.5						
7		55	10.5				112	13.5						
8		56	10.5				113	13.5						
9		57	11				114	13.5						

WESTERN KANSAS IRRIGATION

125 N. FRONTAGE ROAD
JOHNSON, KANSAS 67855

Rotation time at 100% = 18.59 Hours Or 1116 minutes

SEPTEMBER 25, 2025
WISH-119615
JOSSERAND FARMS
NE 1/4 1-30-40
375 gpm @ 14 psi

LINDSAY 307 MOD
SENNINGER HD LOW DRIFT SPRAY NOZZLES
NO REGULATORS
3/4 INCH SCHEDULE 80 UV RESISTANT PVC PIPE
NO ENDGUN

Nozzle Difference

Previous chart: WISH-116835 200 gpm @ 14 psi

Current chart: WISH-119615 375 gpm @ 14 psi

<u>Nozzle Type and Size</u>	<u>Difference</u>	<u>Previous WISH Printouts</u>
SENN SSNZ NOZ 10 TURQUOISE	4	WISH-116835 200 gpm @ 14 PSI MARCH 07, 2025
SENN SSNZ NOZ 10.5 TURQ/YEL	5	WISH-108059 425 gpm @ 14 PSI MARCH 01, 2023
SENN SSNZ NOZ 11 YELLOW	9	WISH-93848 250 gpm @ 12 PSI JANUARY 20, 2020
SENN SSNZ NOZ 11.5 YEL/RED	10	WISH-52090 400 gpm @ 15 PSI MAY 18, 2007
SENN SSNZ NOZ 12 RED	6	
SENN SSNZ NOZ 12.5 RED/WHITE	4	
SENN SSNZ NOZ 13 WHITE	21	
SENN SSNZ NOZ 13.5 WHITE/BLUE	19	
Total:	78	

PRECIPITATION CHART FOR FULL CIRCLE

WISH-119615

SEPTEMBER 25, 2025

DEALER - WESTERN KANSAS IRRIGATION

IRRIGATOR - JOSSERAND FARMS
FIELD - NE 1/4 1-30-40

TOTAL LENGTH PIPE = 1285.77 SYSTEM PRESSURE = 14 PSI
 GPM UNDER PIPE = 375.28 TOTAL GPM = 375.28
 ACRES UNDER PIPE = 119.23
 RANGE OF ENDGUN = .00
 GPM OF ENDGUN = .00
 ACRES UNDER ENDGUN = .00

MOTOR SIZE (HP) = 1 (30RPM)
 LOADED MOTOR RPM = 1200
 CENTER GEAR BOX RATIO = 40
 WHEEL GEAR BOX RATIO = 50
 TIRE SIZE = 14.9 X 24
 LAST TOWER SPEED (FPM) = 7.00

PRECIPITATION BASED

% TIMER BASED

PRECIPITATION INCHES	% TIMER SETTING	TIME HOURS	% TIMER SETTING	PRECIPITATION INCHES	TIME HOURS
.13	100.00	18.59 - 1116(min)	100.00	.13	18.59 - 1116(min)
.20	64.65	28.76	90.00	.14	20.66
.25	51.72	35.95	80.00	.16	23.24
.30	43.10	43.14	70.00	.18	26.56
.40	32.32	57.52	60.00	.22	30.99
.50	25.86	71.89	50.00	.26	37.18
.60	21.55	86.27	45.00	.29	41.32
.70	18.47	100.65	40.00	.32	46.48
.75	17.24	107.84	35.00	.37	53.12
.80	16.16	115.03	30.00	.43	61.97
.90	14.37	129.41	25.00	.52	74.37
1.00	12.93	143.79	20.00	.65	92.96
1.25	10.34	179.74	15.00	.86	123.95
1.50	8.62	215.68	10.00	1.29	185.92
1.75	7.39	251.63	5.00	2.59	371.84

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.