

# WESTERN KANSAS IRRIGATION

SEPTEMBER 25, 2025

WISH-119615

CUSTOMER : JOSSEAND 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

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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.

LINDSAY 307 MOD

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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
				4	177.67	6.375	16
SENNINGER HD LOW DRIFT SPRAY NOZZLES - CONCAVE GROOVED PADS				5	177.67	6.375	18
NO REGULATORS				6	177.67	6.375	17
DROPS AVERAGE 9.5 FT OF 3/4 INCH SCHEDULE 80 UV RESISTANT PVC PIPE				7	177.67	6.375	20
ELEVATION IS 14 FT UP AND 0 FT DOWN				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

<u>TOWER NUMBER</u>	<u>ACRES UNDER SPAN</u>	<u>GPM NEED</u>	<u>ACTUAL GPM</u>	<u>PERCENT DEVIATION</u>	<u>GPM PER ACRE</u>	<u>AVERAGE IN. PER HR DELIVERED UNDER SPAN</u>	<u>AVERAGE IN. DELIVERED FOR REVOLUTION TIME</u>		
							<u>36 HR</u>	<u>48 HR</u>	<u>60 HR</u>
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

125 N. FRONTAGE ROAD  
JOHNSON, KANSAS 67855

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

375 GPM @ 14 PSI

## Page 1

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

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

Nozzle Difference

Previous chart: WISH-116835 200 gpm @ 14 psi  
Current chart: WISH-119615 375 gpm @ 14 psi

Nozzle Type and Size	Difference	Previous WISH Printouts
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.