

# WESTERN KANSAS IRRIGATION

SEPTEMBER 22, 2025

WISH-119609

CUSTOMER : M & G FARMS

LINDSAY GEN II - 30 UNDERSLUNG

LEGAL : NW 1/4 6-28-40  
P.O. NO. : INV169951

7 TOWER - 1300.47 FT

SYSTEM 300 GPM @ 14 PSI

SENNINGER HD LOW DRIFT SPRAY NOZZLES

SENNINGER 10 & 6 PSI REGULATORS

NO ENDGUN

ELEVATION 5 FT UP, 5 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 GEN II - 30 UNDERSLUNG

SEPTEMBER 22, 2025

WISH-119609

DEALER

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

IRRIGATOR

M & G FARMS  
 NW 1/4 6-28-40  
 INV169951

				SPAN #	LENGTH	PIPE I.D.	# OF HEADS
TOTAL TARGET GPM	300.00	FRICTION FACTOR USED	138				
TOP OF PIVOT PRESSURE	14.00	TOTAL LENGTH	1300.47	1	181.60	5.84	22
NO ENDGUN		NUMBER OF TOWERS	7	2	179.00	5.84	24
NUMBER OF OUTLETS	530	NUMBER OF SPRINKLERS	236	3	179.00	5.84	36
				4	179.00	5.84	36
SENNINGER HD LOW DRIFT SPRAY NOZZLES - CONCAVE GROOVED PADS				5	179.00	4.28	36
SENNINGER PSR 10 & 6 PSI SERIES REGULATORS				6	179.00	4.28	36
DROPS AVERAGE 8.5 FT OF 3/4 INCH SCHEDULE 80 UV RESISTANT PVC PIPE FIRST TWO SPANS				7	179.00	4.28	36
DROPS AVERAGE 9.5 FT OF 3/4 INCH SCHEDULE 80 UV RESISTANT PVC PIPE BALANCE				OH	44.87	4.28	10
ELEVATION IS 5 FT UP AND 5 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.
3. 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.
144		353.19	1.09	1.04	12.82	11.39	SN LD NOZ 6.5 GOLD/LIME	46	SPSR10	
145		355.69	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	99
146		358.02	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	100
TOWER 2	179.00	360.60								
147		360.92	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	101
148	10.31	363.50	0.96	0.96	12.79	7.28	SN LD NOZ 7 LIME	47	SPSR06	
149		365.83	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	102
150	4.83	368.33	0.63	0.58	12.77	7.29	SN LD NOZ 5.5 BEIGE/GOLD	48	SPSR06	
151		370.83	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	103
152	4.92	373.25	0.64	0.58	12.65	7.29	SN LD NOZ 5.5 BEIGE/GOLD	49	SPSR06	
153		375.67	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	104
154	4.92	378.17	0.65	0.71	12.53	7.28	SN LD NOZ 6 GOLD	50	SPSR06	
155		380.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	105
156	4.84	383.01	0.66	0.71	12.41	7.28	SN LD NOZ 6 GOLD	51	SPSR06	
157		385.51	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	106
158	4.92	387.93	0.67	0.71	12.31	7.28	SN LD NOZ 6 GOLD	52	SPSR06	
159		390.35	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	107
160	4.92	392.85	0.67	0.71	12.20	7.28	SN LD NOZ 6 GOLD	53	SPSR06	
161		395.27	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	108
162	4.84	397.69	0.69	0.71	12.11	7.28	SN LD NOZ 6 GOLD	54	SPSR06	
163		400.19	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	109
164	5.00	402.69	0.69	0.71	12.02	7.28	SN LD NOZ 6 GOLD	55	SPSR06	
165		405.02	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	110
166	4.81	407.50	0.69	0.71	11.95	7.28	SN LD NOZ 6 GOLD	56	SPSR06	
167		409.83	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	111
168	4.83	412.33	0.70	0.71	11.88	7.28	SN LD NOZ 6 GOLD	57	SPSR06	
169		414.83	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	112
170	4.92	417.25	0.72	0.71	11.81	7.28	SN LD NOZ 6 GOLD	58	SPSR06	
171		419.67	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	113
172	4.92	422.17	0.72	0.71	11.75	7.28	SN LD NOZ 6 GOLD	59	SPSR06	
173		424.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	114
174	4.84	427.01	0.73	0.71	11.70	7.28	SN LD NOZ 6 GOLD	60	SPSR06	
175		429.51	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	115
176	4.92	431.93	0.74	0.71	11.66	7.28	SN LD NOZ 6 GOLD	61	SPSR06	
177		434.35	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	116
178	4.92	436.85	0.75	0.71	11.63	7.28	SN LD NOZ 6 GOLD	62	SPSR06	
179		439.27	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	117
180	4.84	441.69	0.76	0.71	11.60	7.28	SN LD NOZ 6 GOLD	63	SPSR06	
181		444.19	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	118
182	5.00	446.69	0.77	0.83	11.58	7.28	SN LD NOZ 6.5 GOLD/LIME	64	SPSR06	
183		449.02	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	119
184	4.81	451.50	0.76	0.71	11.56	7.28	SN LD NOZ 6 GOLD	65	SPSR06	
185		453.83	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	120
186	4.83	456.33	0.78	0.83	11.56	7.28	SN LD NOZ 6.5 GOLD/LIME	66	SPSR06	
187		458.83	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	121
188	4.92	461.25	0.80	0.83	11.56	7.28	SN LD NOZ 6.5 GOLD/LIME	67	SPSR06	
189		463.67	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	122
190	4.92	466.17	0.80	0.83	11.56	7.28	SN LD NOZ 6.5 GOLD/LIME	68	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.
191		468.59	-	-	-	-	-	-	-	123
192	4.84	471.01	0.81	0.83	11.58	7.28	SN LD NOZ 6.5 GOLD/LIME	69	SPSR06	
193		473.51	-	-	-	-	-	-	-	124
194	4.92	475.93	0.82	0.83	11.60	7.28	SN LD NOZ 6.5 GOLD/LIME	70	SPSR06	
195		478.35	-	-	-	-	-	-	-	125
196	4.92	480.85	0.82	0.83	11.63	7.28	SN LD NOZ 6.5 GOLD/LIME	71	SPSR06	
197		483.27	-	-	-	-	-	-	-	126
198	4.84	485.69	0.84	0.83	11.67	7.28	SN LD NOZ 6.5 GOLD/LIME	72	SPSR06	
199		488.19	-	-	-	-	-	-	-	127
200	5.00	490.69	0.84	0.83	11.71	7.28	SN LD NOZ 6.5 GOLD/LIME	73	SPSR06	
201		493.02	-	-	-	-	-	-	-	128
202	4.81	495.50	0.84	0.83	11.77	7.28	SN LD NOZ 6.5 GOLD/LIME	74	SPSR06	
203		497.83	-	-	-	-	-	-	-	129
204	4.83	500.33	0.85	0.83	11.82	7.28	SN LD NOZ 6.5 GOLD/LIME	75	SPSR06	
205		502.83	-	-	-	-	-	-	-	130
206	4.92	505.25	0.87	0.83	11.89	7.28	SN LD NOZ 6.5 GOLD/LIME	76	SPSR06	
207		507.67	-	-	-	-	-	-	-	131
208	4.92	510.17	0.87	0.83	11.96	7.28	SN LD NOZ 6.5 GOLD/LIME	77	SPSR06	
209		512.59	-	-	-	-	-	-	-	132
210	4.84	515.01	0.88	0.83	12.04	7.28	SN LD NOZ 6.5 GOLD/LIME	78	SPSR06	
211		517.51	-	-	-	-	-	-	-	133
212	4.92	519.93	0.90	0.96	12.13	7.28	SN LD NOZ 7 LIME	79	SPSR06	
213		522.35	-	-	-	-	-	-	-	134
214	4.92	524.85	0.90	0.96	12.23	7.28	SN LD NOZ 7 LIME	80	SPSR06	
215		527.27	-	-	-	-	-	-	-	135
216	4.84	529.69	0.91	0.96	12.33	7.28	SN LD NOZ 7 LIME	81	SPSR06	
217		532.19	-	-	-	-	-	-	-	136
218	5.00	534.69	1.20	1.23	12.32	7.27	SN LD NOZ 8 LAVENDER	82	SPSR06	
219		537.02	-	-	-	-	-	-	-	137
TOWER 3		179.00								
220		539.60	-	-	-	-	-	-	-	138
221	7.81	539.92	-	-	-	-	-	-	-	
222		542.50	1.20	1.23	12.30	7.27	SN LD NOZ 8 LAVENDER	83	SPSR06	
223		544.83	-	-	-	-	-	-	-	139
224	4.83	547.33	0.93	0.96	12.29	7.28	SN LD NOZ 7 LIME	84	SPSR06	
225		549.83	-	-	-	-	-	-	-	140
226	4.92	552.25	0.95	0.96	12.17	7.28	SN LD NOZ 7 LIME	85	SPSR06	
227		554.67	-	-	-	-	-	-	-	141
228	4.92	557.17	0.95	0.96	12.05	7.28	SN LD NOZ 7 LIME	86	SPSR06	
229		559.59	-	-	-	-	-	-	-	142
230	4.84	562.01	0.96	0.96	11.94	7.28	SN LD NOZ 7 LIME	87	SPSR06	
231		564.51	-	-	-	-	-	-	-	143
232	4.92	566.93	0.98	0.96	11.83	7.28	SN LD NOZ 7 LIME	88	SPSR06	
233		569.35	-	-	-	-	-	-	-	144
234	4.92	571.85	0.98	0.96	11.73	7.28	SN LD NOZ 7 LIME	89	SPSR06	
235		574.27	-	-	-	-	-	-	-	145
236	4.84	576.69	0.99	0.96	11.64	7.28	SN LD NOZ 7 LIME	90	SPSR06	
237		579.19	-	-	-	-	-	-	-	146
		581.69	1.00	0.96	11.56	7.28	SN LD NOZ 7 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.
238		584.02	-	-	-	-	-	-	-	147
239	4.81	586.50	0.99	0.96	11.48	7.28	SN LD NOZ 7 LIME	92	SPSR06	
240		588.83	-	-	-	-	-	-	-	148
241	4.83	591.33	1.01	0.96	11.41	7.28	SN LD NOZ 7 LIME	93	SPSR06	
242		593.83	-	-	-	-	-	-	-	149
243	4.92	596.25	1.03	1.09	11.35	7.27	SN LD NOZ 7.5 LIME/LAV	94	SPSR06	
244		598.67	-	-	-	-	-	-	-	150
245	4.92	601.17	1.03	1.09	11.30	7.27	SN LD NOZ 7.5 LIME/LAV	95	SPSR06	
246		603.59	-	-	-	-	-	-	-	151
247	4.84	606.01	1.04	1.09	11.25	7.27	SN LD NOZ 7.5 LIME/LAV	96	SPSR06	
248		608.51	-	-	-	-	-	-	-	152
249	4.92	610.93	1.05	1.09	11.21	7.27	SN LD NOZ 7.5 LIME/LAV	97	SPSR06	
250		613.35	-	-	-	-	-	-	-	153
251	4.92	615.85	1.05	1.09	11.18	7.27	SN LD NOZ 7.5 LIME/LAV	98	SPSR06	
252		618.27	-	-	-	-	-	-	-	154
253	4.84	620.69	1.07	1.09	11.15	7.27	SN LD NOZ 7.5 LIME/LAV	99	SPSR06	
254		623.19	-	-	-	-	-	-	-	155
255	5.00	625.69	1.07	1.09	11.13	7.27	SN LD NOZ 7.5 LIME/LAV	100	SPSR06	
256		628.02	-	-	-	-	-	-	-	156
257	4.81	630.50	1.06	1.09	11.12	7.27	SN LD NOZ 7.5 LIME/LAV	101	SPSR06	
258		632.83	-	-	-	-	-	-	-	157
259	4.83	635.33	1.08	1.09	11.12	7.27	SN LD NOZ 7.5 LIME/LAV	102	SPSR06	
260		637.83	-	-	-	-	-	-	-	158
261	4.92	640.25	1.10	1.09	11.12	7.27	SN LD NOZ 7.5 LIME/LAV	103	SPSR06	
262		642.67	-	-	-	-	-	-	-	159
263	4.92	645.17	1.10	1.09	11.14	7.27	SN LD NOZ 7.5 LIME/LAV	104	SPSR06	
264		647.59	-	-	-	-	-	-	-	160
265	4.84	650.01	1.11	1.09	11.15	7.27	SN LD NOZ 7.5 LIME/LAV	105	SPSR06	
266		652.51	-	-	-	-	-	-	-	161
267	4.92	654.93	1.13	1.09	11.18	7.27	SN LD NOZ 7.5 LIME/LAV	106	SPSR06	
268		657.35	-	-	-	-	-	-	-	162
269	4.92	659.85	1.13	1.09	11.21	7.27	SN LD NOZ 7.5 LIME/LAV	107	SPSR06	
270		662.27	-	-	-	-	-	-	-	163
271	4.84	664.69	1.15	1.09	11.25	7.27	SN LD NOZ 7.5 LIME/LAV	108	SPSR06	
272		667.19	-	-	-	-	-	-	-	164
273	5.00	669.69	1.15	1.09	11.30	7.27	SN LD NOZ 7.5 LIME/LAV	109	SPSR06	
274		672.02	-	-	-	-	-	-	-	165
275	4.81	674.50	1.14	1.09	11.36	7.27	SN LD NOZ 7.5 LIME/LAV	110	SPSR06	
276		676.83	-	-	-	-	-	-	-	166
277	4.83	679.33	1.16	1.09	11.42	7.27	SN LD NOZ 7.5 LIME/LAV	111	SPSR06	
278		681.83	-	-	-	-	-	-	-	167
279	4.92	684.25	1.18	1.23	11.49	7.27	SN LD NOZ 8 LAVENDER	112	SPSR06	
280		686.67	-	-	-	-	-	-	-	168
281	4.92	689.17	1.18	1.23	11.56	7.27	SN LD NOZ 8 LAVENDER	113	SPSR06	
282		691.59	-	-	-	-	-	-	-	169
283	4.84	694.01	1.19	1.23	11.65	7.27	SN LD NOZ 8 LAVENDER	114	SPSR06	
284		696.51	-	-	-	-	-	-	-	170
285	4.92	698.93	1.20	1.23	11.74	7.27	SN LD NOZ 8 LAVENDER	115	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.
474		5.00	1162.69	1.99	2.07	9.07	7.25 SN LD NOZ 10.5 TURQ/YEL	208	SPSR06	
475		1165.02	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	267
476	4.81	1167.50	1.96	1.91	9.07	7.25	SN LD NOZ 10 TURQUOISE	209	SPSR06	
477		1169.83	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	268
478	4.83	1172.33	2.00	2.07	9.07	7.25	SN LD NOZ 10.5 TURQ/YEL	210	SPSR06	
479		1174.83	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	269
480	4.92	1177.25	2.02	2.07	9.08	7.25	SN LD NOZ 10.5 TURQ/YEL	211	SPSR06	
481		1179.67	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	270
482	4.92	1182.17	2.01	2.07	9.10	7.25	SN LD NOZ 10.5 TURQ/YEL	212	SPSR06	
483		1184.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	271
484	4.84	1187.01	2.02	2.07	9.12	7.25	SN LD NOZ 10.5 TURQ/YEL	213	SPSR06	
485		1189.51	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	272
486	4.92	1191.93	2.04	2.07	9.16	7.25	SN LD NOZ 10.5 TURQ/YEL	214	SPSR06	
487		1194.35	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	273
488	4.92	1196.85	2.03	2.07	9.20	7.25	SN LD NOZ 10.5 TURQ/YEL	215	SPSR06	
489		1199.27	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	274
490	4.84	1201.69	2.06	2.07	9.24	7.25	SN LD NOZ 10.5 TURQ/YEL	216	SPSR06	
491		1204.19	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	275
492	5.00	1206.69	2.06	2.07	9.30	7.25	SN LD NOZ 10.5 TURQ/YEL	217	SPSR06	
493		1209.02	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	276
494	4.81	1211.50	2.03	2.07	9.36	7.25	SN LD NOZ 10.5 TURQ/YEL	218	SPSR06	
495		1213.83	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	277
496	4.83	1216.33	2.06	2.07	9.43	7.25	SN LD NOZ 10.5 TURQ/YEL	219	SPSR06	
497		1218.83	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	278
498	4.92	1221.25	2.09	2.07	9.51	7.25	SN LD NOZ 10.5 TURQ/YEL	220	SPSR06	
499		1223.67	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	279
500	4.92	1226.17	2.08	2.07	9.59	7.25	SN LD NOZ 10.5 TURQ/YEL	221	SPSR06	
501		1228.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	280
502	4.84	1231.01	2.09	2.07	9.68	7.25	SN LD NOZ 10.5 TURQ/YEL	222	SPSR06	
503		1233.51	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	281
504	4.92	1235.93	2.11	2.07	9.78	7.25	SN LD NOZ 10.5 TURQ/YEL	223	SPSR06	
505		1238.35	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	282
506	4.92	1240.85	2.11	2.07	9.89	7.25	SN LD NOZ 10.5 TURQ/YEL	224	SPSR06	
507		1243.27	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	283
508	4.84	1245.69	2.14	2.07	10.00	7.25	SN LD NOZ 10.5 TURQ/YEL	225	SPSR06	
509		1248.19	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	284
510	5.00	1250.69	2.63	2.69	10.00	7.21	SN LD NOZ 12 RED	226	SPSR06	
511		1253.02	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	285
TOWER 7	179.00	1255.60								
512	7.02	1257.71	2.60	2.69	10.00	7.21	SN LD NOZ 12 RED	227	SPSR06	
513		1260.04	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	286
514	4.83	1262.54	2.14	2.07	10.00	7.25	SN LD NOZ 10.5 TURQ/YEL	228	SPSR06	
515		1265.04	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	287
516	4.92	1267.46	2.17	2.25	10.00	7.23	SN LD NOZ 11 YELLOW	229	SPSR06	
517		1269.88	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	288
518	4.92	1272.38	2.15	2.07	10.00	7.25	SN LD NOZ 10.5 TURQ/YEL	230	SPSR06	
519		1274.80	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	289
520	4.84	1277.22	2.18	2.25	10.00	7.23	SN LD NOZ 11 YELLOW	231	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.
521		1279.72	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	290
522	4.92	1282.14	2.19	2.25	10.00	7.23	SN LD NOZ 11 YELLOW	232	SPSR06	
523		1284.56	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	291
524	4.92	1287.06	2.16	2.25	10.00	7.23	SN LD NOZ 11 YELLOW	233	SPSR06	
525		1289.48	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	292
526	4.84	1291.90	2.15	2.07	10.00	7.25	SN LD NOZ 10.5 TURQ/YEL	234	SPSR06	
527		1294.40	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	293
528	5.00	1296.90	2.13	2.07	10.00	7.25	SN LD NOZ 10.5 TURQ/YEL	235	SPSR06	
529		1299.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	294
530		1300.47	2.09	2.07	10.00	7.25	SN LD NOZ 10.5 TURQ/YEL	236	SPSR06	
OVERHANG		44.87	1300.47							

TOTAL GPM = 300.59

GPA = 2.46

MINIMUM RECOMMENDED REGULATOR INLET PRESSURE IS 11.00 PSI  
 WITH GRADUATED ELEVATION OF 5.00 FT THE INLET PRESSURE IS 11.22 PSI FOR SPRINKLER 236  
 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	2.38	5.85	8.65	48%	3.64	0.008	0.29	0.39	0.48
2	7.00	17.22	16.91	-2%	2.42	0.005	0.19	0.26	0.32
3	11.62	28.58	28.33	-1%	2.44	0.005	0.19	0.26	0.32
4	16.24	39.95	39.42	-1%	2.43	0.005	0.19	0.26	0.32
5	20.86	51.32	50.87	-1%	2.44	0.005	0.19	0.26	0.32
6	25.49	62.69	61.91	-1%	2.43	0.005	0.19	0.26	0.32
7	30.11	74.05	73.01	-1%	2.43	0.005	0.19	0.26	0.32
OVERHANG	8.27	20.34	21.48	6%	2.60	0.006	0.21	0.28	0.34
TOTAL	121.97	300.00	300.59		2.46				

**SUMMARY OF SPRINKLERS**

20 SN LD NOZ 4 LT BLUE  
3 SN LD NOZ 4.5 LT BL/BEIGE  
9 SN LD NOZ 5 BEIGE  
10 SN LD NOZ 5.5 BEIGE/GOLD  
20 SN LD NOZ 6 GOLD  
15 SN LD NOZ 6.5 GOLD/LIME  
14 SN LD NOZ 7 LIME  
18 SN LD NOZ 7.5 LIME/LAV  
18 SN LD NOZ 8 LAVENDER  
18 SN LD NOZ 8.5 LAV/GREY  
18 SN LD NOZ 9 GREY  
22 SN LD NOZ 9.5 GREY/TURQ  
19 SN LD NOZ 10 TURQUOISE  
24 SN LD NOZ 10.5 TURQ/YEL  
4 SN LD NOZ 11 YELLOW  
2 SN LD NOZ 11.5 YEL/RED  
2 SN LD NOZ 12 RED

**294 PLUGS****SUMMARY OF REGULATORS**

46 Senn PSR 10 psi  
190 Senn PSR 6 psi

**TOTAL OF 236 REGULATORS**

## NOZZLE POSITION CHART

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

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20  
21, 24, 25  
22, 23, 26, 27, 28, 29, 30, 31, 32  
33, 34, 35, 36, 37, 38, 39, 40, 48, 49  
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46, 64, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78  
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229, 231, 232, 233  
190, 191  
226, 227

# WESTERN KANSAS IRRIGATION

125 N. FRONTAGE ROAD  
JOHNSON, KANSAS 67855

SEPTEMBER 22, 2025

WISH-119609

M & G FARMS

NW 1/4 6-28-40

Rotation time at 100% = 10.52 Hours Or 631 minutes

300 GPM @ 14 PSI

LINDSAY GEN II - 30 UNDERSLUNG  
SENNINGER HD LOW DRIFT SPRAY NOZZLES  
SENNINGER 10 & 6 PSI REGULATORS  
4 INCH SCHEDULE 80 UV RESISTANT PVC PIPE  
HEAD

Installation Chart Page 1

# WESTERN KANSAS IRRIGATION

125 N. FRONTAGE ROAD  
JOHNSON, KANSAS 67855

SEPTEMBER 22, 2025  
WISH-119609  
M & G FARMS  
NW 1/4 6-28-40

LINDSAY GEN II - 30 UNDERSLUNG  
SENninger HD LOW DRIFT SPRAY NOZZLES  
SENninger 10 & 6 PSI REGULATORS  
4 INCH SCHEDULE 80 UV RESISTANT PVC PIPE  
HEAD

Rotation time at 100% = 10.52 Hours Or 631 minutes

300 GPM @ 14 PSI

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Page 2

Installation Chart																		Page 2		
Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	
4																				
5	PLUG	120	8	PSR06	64	PLUG	150	9	PSR06	50	PLUG	179	9.5	PSR06	36	PLUG	208	10.5	PSR06	
6																				
7	PLUG	121	8	PSR06	65	PLUG	151	9	PSR06	51	PLUG	180	9.5	PSR06	37	PLUG	209	10	PSR06	
8																				
9	PLUG	122	8	PSR06	66	PLUG	152	9	PSR06	52	PLUG	181	9.5	PSR06	38	PLUG	210	10.5	PSR06	
10																				
11	PLUG	123	8	PSR06	67	PLUG	153	9	PSR06	53	PLUG	182	9.5	PSR06	39	PLUG	211	10.5	PSR06	
12																				
13	PLUG	124	8	PSR06	68	PLUG	154	10.5	PSR06	54	PLUG	183	9.5	PSR06	40	PLUG	212	10.5	PSR06	
14																				
15	PLUG	125	8	PSR06	69	TOWER 5					55	PLUG	184	9.5	PSR06	41	PLUG	213	10.5	PSR06
16						1	PLUG				60	PLUG	184	9.5	PSR06	42	PLUG	214	10.5	PSR06
17	PLUG	126	8	PSR06	70	PLUG	155	10.5	PSR06	61	PLUG	185	9.5	PSR06	43	PLUG	215	10.5	PSR06	
18						2	PLUG				62	PLUG	185	9.5	PSR06	44	PLUG	216	10.5	PSR06
19	PLUG	127	8	PSR06	71	PLUG	156	9	PSR06	63	PLUG	186	9.5	PSR06	45	PLUG	217	10.5	PSR06	
20						3	PLUG				64	PLUG	186	9.5	PSR06	46	PLUG	218	10.5	PSR06
21	PLUG	128	8	PSR06	72	PLUG	157	9	PSR06	65	PLUG	187	10	PSR06	47	PLUG	219	10.5	PSR06	
22						4	PLUG				66	PLUG	187	10	PSR06	48	PLUG	220	10.5	PSR06
23	PLUG	129	8	PSR06	73	PLUG	158	9	PSR06	67	PLUG	188	9.5	PSR06	49	PLUG	221	10.5	PSR06	
24						5	PLUG				68	PLUG	188	9.5	PSR06	50	PLUG	222	10.5	PSR06
25	PLUG	130	8.5	PSR06	74	PLUG	159	9	PSR06	69	PLUG	189	10	PSR06	51	PLUG	223	10.5	PSR06	
26						6	PLUG				70	PLUG	189	10	PSR06	52	PLUG	224	10.5	PSR06
27	PLUG	131	8.5	PSR06	75	PLUG	160	9	PSR06	71	PLUG	190	11.5	PSR06	53	PLUG	225	10.5	PSR06	
28						7	PLUG				72	PLUG	190	11.5	PSR06	54	PLUG	226	12	PSR06
29	PLUG	132	8.5	PSR06	76	PLUG	161	9	PSR06	73	TOWER 6					PLUG	227	12	PSR06	
30						8	PLUG				1	PLUG	191	11.5	PSR06	55	PLUG	228	10.5	PSR06
31	PLUG	133	8.5	PSR06	77	PLUG	162	9	PSR06	2	PLUG	191	11.5	PSR06	56	PLUG	229	11	PSR06	
32						9	PLUG				3	PLUG	192	10	PSR06	57	PLUG	230	10.5	PSR06
33	PLUG	134	8.5	PSR06	78	PLUG	163	9	PSR06	4	PLUG	193	10	PSR06	58	PLUG	231	11	PSR06	
34						10	PLUG				5	PLUG	193	10	PSR06	59	PLUG	232	10.5	PSR06
35	PLUG	135	8.5	PSR06	79	PLUG	164	9	PSR06	6	PLUG	194	10	PSR06	60	PLUG	233	10.5	PSR06	
36						11	PLUG				7	PLUG	194	10	PSR06	61	PLUG	234	10.5	PSR06
37	PLUG	136	8.5	PSR06	80	PLUG	165	9	PSR06	8	PLUG	195	10	PSR06	62	PLUG	235	10.5	PSR06	
38						9	PLUG				9	PLUG	195	10	PSR06	63	PLUG	236	10.5	PSR06
39	PLUG	137	8.5	PSR06	81	PLUG	166	9.5	PSR06	10	PLUG	196	10	PSR06	64	PLUG	237	10.5	PSR06	
40						11	PLUG				11	PLUG	196	10	PSR06	65	PLUG	238	10.5	PSR06
41	PLUG	138	8.5	PSR06	82	PLUG	167	9.5	PSR06	12	PLUG	197	10	PSR06	66	PLUG	239	10.5	PSR06	
42						13	PLUG				13	PLUG	197	10	PSR06	67	PLUG	240	10.5	PSR06
43	PLUG	139	8.5	PSR06	83	PLUG	168	9.5	PSR06	14	PLUG	198	10	PSR06	68	PLUG	241	10.5	PSR06	
44						15	PLUG				15	PLUG	198	10	PSR06	69	PLUG	242	10.5	PSR06
45	PLUG	140	8.5	PSR06	84	PLUG	169	9.5	PSR06	16	PLUG	199	10	PSR06	70	PLUG	243	10.5	PSR06	
46						17	PLUG				17	PLUG	199	10	PSR06	71	PLUG	244	10.5	PSR06
47	PLUG	141	8.5	PSR06	85	PLUG	170	9.5	PSR06	18	PLUG	200	10	PSR06	72	PLUG	245	10.5	PSR06	
48						19	PLUG				19	PLUG	200	10	PSR06	73	PLUG	246	10.5	PSR06
49	PLUG	142	8.5	PSR06	86	PLUG	171	9.5	PSR06	20	PLUG	201	10	PSR06	74	PLUG	247	10.5	PSR06	
50						21	PLUG				21	PLUG	201	10	PSR06	75	PLUG	248	10.5	PSR06
51	PLUG	143	8.5	PSR06	87	PLUG	172	9.5	PSR06	22	PLUG	202	10	PSR06	76	PLUG	249	10.5	PSR06	
52						23	PLUG				23	PLUG	202	10	PSR06	77	PLUG	250	10.5	PSR06
53	PLUG	144	8.5	PSR06	88	PLUG	173	9.5	PSR06	24	PLUG	203	10	PSR06	78	PLUG	251	10.5	PSR06	
54						25	PLUG				25	PLUG	203	10	PSR06	79	PLUG	252	10.5	PSR06
55	PLUG	145	8.5	PSR06	89	PLUG	174	9.5	PSR06	26	PLUG	204	10	PSR06	80	PLUG	253	10.5	PSR06	
56						27	PLUG				27	PLUG	204	10	PSR06	81	PLUG	254	10.5	PSR06
57	PLUG	146	8.5	PSR06	90	PLUG	175	9.5	PSR06	28	PLUG	205	10	PSR06	82	PLUG	255	10.5	PSR06	
58						29	PLUG				29	PLUG	205	10	PSR06	83	PLUG	256	10.5	PSR06
59	PLUG	147	8.5	PSR06	91	PLUG	176	9.5	PSR06	30	PLUG	206	10	PSR06	84	PLUG	257	10.5	PSR06	
60						31	PLUG				31	PLUG	206	10	PSR06	85	PLUG	258	10.5	PSR06
61	PLUG	148	9	PSR06	92	PLUG	177	9.5	PSR06	32	PLUG	207	10	PSR06	86	PLUG	259	10.5	PSR06	
62						33	PLUG				33	PLUG	207	10	PSR06	87	PLUG	260	10.5	PSR06
63	PLUG	149	9	PSR06	93	PLUG	178	9.5	PSR06	34	PLUG	207	10	PSR06	88	PLUG	261	10.5	PSR06	

PRECIPITATION CHART FOR FULL CIRCLE

WISH-119609

SEPTEMBER 22, 2025

DEALER - WESTERN KANSAS IRRIGATION

TOTAL LENGTH PIPE = 1300.47    SYSTEM PRESSURE = 14 PSI  
 GPM UNDER PIPE = 300.59    TOTAL GPM = 300.59  
 ACRES UNDER PIPE = 121.97  
 RANGE OF ENDGUN = .00    RUN FOR MINIMUM PRESSURE  
 GPM OF ENDGUN = .00  
 ACRES UNDER ENDGUN = .00

IRRIGATOR - M & G FARMS  
 FIELD - NW 1/4 6-28-40

MOTOR SIZE (HP) = 3/4  
 LOADED MOTOR RPM = 1750  
 CENTER GEAR BOX RATIO = 40  
 WHEEL GEAR BOX RATIO = 50  
 TIRE SIZE = 11.2 X 38  
 LAST TOWER SPEED (FPM) = 12.50

## PRECIPITATION BASED

## % TIMER BASED

PRECIPITATION INCHES	% TIMER SETTING	TIME HOURS	% TIMER SETTING	PRECIPITATION INCHES	TIME HOURS
.06	100.00	10.52 - 631(min)	100.00	.06	10.52 - 631(min)
.10	57.28	18.36	90.00	.06	11.69
.20	28.64	36.73	80.00	.07	13.15
.25	22.91	45.91	70.00	.08	15.03
.30	19.09	55.09	60.00	.10	17.53
.40	14.32	73.46	50.00	.11	21.04
.50	11.46	91.82	45.00	.13	23.38
.60	9.55	110.19	40.00	.14	26.30
.70	8.18	128.55	35.00	.16	30.05
.75	7.64	137.73	30.00	.19	35.06
.80	7.16	146.92	25.00	.23	42.08
.90	6.36	165.28	20.00	.29	52.59
1.00	5.73	183.64	15.00	.38	70.13
1.25	4.58	229.56	10.00	.57	105.19
1.50	3.82	275.47	5.00	1.15	210.38

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.