

# HI PLAINS FARM EQUIPMENT

JUNE 24, 2024

WISH-114729

CUSTOMER : SKYBOUND

LINDSAY GEN II  
8 TOWER - 1281.47 FT  
SYSTEM 200 GPM @ 30 PSI

LEGAL : 701

KOMET PRECISION TWISTERS  
KOMET 10 PSI REGULATORS  
NO ENDGUN  
ELEVATION 15 FT UP, 15 FT DOWN

1509 SOUTH 2ND  
DODGE CITY, KANSAS 67801  
(620)225-0064

---

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

JUNE 24, 2024

WISH-114729

DEALER

HI PLAINS FARM EQUIPMENT  
1509 SOUTH 2ND  
DODGE CITY, KANSAS 67801

IRRIGATOR

SKYBOUND  
701

TOTAL TARGET GPM	200.00	FRICTION FACTOR USED	140	SPANS	LENGTH	PIPE I.D.
TOP OF PIVOT PRESSURE	30.00	TOTAL LENGTH	1281.47	1	159.60	6.395
NO ENDGUN		NUMBER OF TOWERS	8	7	157.00	6.395
NUMBER OF OUTLETS	148	NUMBER OF SPRINKLERS	145	OH	22.87	5.369

KOMET PRECISION TWISTERS - BLACK STANDARD ANGLE PLATES

KOMET KPR-X 10 PSI PRESSURE REGULATORS

DROPS AVERAGE 8.5 FT OF .75 I.D. FLEXIBLE HOSE

ELEVATION IS 15 FT UP AND 15 FT DOWN

CAUTIONS AND WARNINGS

1. Inadequate crop clearance and/or structural interference may cause poor water distribution, resulting in decreased uniformity and possible streaking.
2. Over watering at beginning of system due to practical limitations on smallest nozzle sizes available and/or allowable for proper operation.

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.	DROP LENGTH
1		9.09	-	-	-	-	-	-	-	-	1
2		17.38	-	-	-	-	-	-	-	-	2
3		26.26	-	-	-	-	-	-	-	-	3
4	35.14	35.14	0.19	0.61	29.39	10.93	KPT TWISTER 10 BEIGE	1	KPRX10	102	
5	8.29	43.43	0.09	0.61	29.25	10.93	KPT TWISTER 10 BEIGE	2	KPRX10	108	
6	8.41	51.84	0.10	0.61	29.13	10.93	KPT TWISTER 10 BEIGE	3	KPRX10	108	
7	7.42	59.26	0.11	0.61	29.05	10.93	KPT TWISTER 10 BEIGE	4	KPRX10	114	
8	7.42	66.68	0.13	0.61	28.99	10.93	KPT TWISTER 10 BEIGE	5	KPRX10	114	
9	8.41	75.09	0.15	0.61	28.95	10.93	KPT TWISTER 10 BEIGE	6	KPRX10	114	
10	8.29	83.38	0.17	0.61	28.94	10.93	KPT TWISTER 10 BEIGE	7	KPRX10	114	
11	8.88	92.26	0.20	0.61	28.96	10.93	KPT TWISTER 10 BEIGE	8	KPRX10	114	
12	8.88	101.14	0.21	0.61	29.01	10.93	KPT TWISTER 10 BEIGE	9	KPRX10	114	
13	8.29	109.43	0.23	0.61	29.08	10.93	KPT TWISTER 10 BEIGE	10	KPRX10	108	
14	9.66	119.09	0.25	0.61	29.20	10.93	KPT TWISTER 10 BEIGE	11	KPRX10	108	
15	8.29	127.38	0.26	0.61	29.33	10.93	KPT TWISTER 10 BEIGE	12	KPRX10	102	
16	8.88	136.26	0.29	0.61	29.50	10.93	KPT TWISTER 10 BEIGE	13	KPRX10	96	
17	8.88	145.14	0.29	0.61	29.70	10.93	KPT TWISTER 10 BEIGE	14	KPRX10	90	
18	8.29	153.43	0.38	0.61	29.84	10.93	KPT TWISTER 10 BEIGE	15	KPRX10	84	
TOWER 1	159.60	159.60									
19	12.66	166.09	0.41	0.61	29.83	10.93	KPT TWISTER 10 BEIGE	16	KPRX10	84	
20	8.29	174.38	0.35	0.61	29.62	10.93	KPT TWISTER 10 BEIGE	17	KPRX10	90	
21	8.88	183.26	0.38	0.61	29.41	10.93	KPT TWISTER 10 BEIGE	18	KPRX10	96	
22	8.88	192.14	0.39	0.61	29.23	10.93	KPT TWISTER 10 BEIGE	19	KPRX10	102	
23	8.29	200.43	0.39	0.61	29.09	10.93	KPT TWISTER 10 BEIGE	20	KPRX10	108	
24	8.41	208.84	0.39	0.61	28.98	10.93	KPT TWISTER 10 BEIGE	21	KPRX10	108	
25	7.42	216.26	0.38	0.61	28.90	10.93	KPT TWISTER 10 BEIGE	22	KPRX10	114	
26	7.42	223.68	0.41	0.61	28.84	10.93	KPT TWISTER 10 BEIGE	23	KPRX10	114	
27	8.41	232.09	0.45	0.61	28.80	10.93	KPT TWISTER 10 BEIGE	24	KPRX10	114	
28	8.29	240.38	0.48	0.61	28.79	10.93	KPT TWISTER 10 BEIGE	25	KPRX10	114	
29	8.88	249.26	0.52	0.61	28.81	10.93	KPT TWISTER 10 BEIGE	26	KPRX10	114	
30	8.88	258.14	0.52	0.61	28.86	10.93	KPT TWISTER 10 BEIGE	27	KPRX10	114	
31	8.29	266.43	0.56	0.61	28.93	10.93	KPT TWISTER 10 BEIGE	28	KPRX10	108	
32	9.66	276.09	0.58	0.61	29.05	10.93	KPT TWISTER 10 BEIGE	29	KPRX10	108	
33	8.29	284.38	0.57	0.61	29.18	10.93	KPT TWISTER 10 BEIGE	30	KPRX10	102	
34	8.88	293.26	0.61	0.61	29.35	10.93	KPT TWISTER 10 BEIGE	31	KPRX10	96	
35	8.88	302.14	0.60	0.61	29.55	10.93	KPT TWISTER 10 BEIGE	32	KPRX10	90	
36	8.29	310.43	0.76	0.73	29.70	10.92	KPT TWISTER 11 BEIGE	33	KPRX10	84	
TOWER 2	157.00	316.60									
37	12.66	323.09	0.78	0.73	29.69	10.92	KPT TWISTER 11 BEIGE	34	KPRX10	84	
38	8.29	331.38	0.66	0.61	29.48	10.93	KPT TWISTER 10 BEIGE	35	KPRX10	90	
39	8.88	340.26	0.70	0.73	29.27	10.92	KPT TWISTER 11 BEIGE	36	KPRX10	96	
40	8.88	349.14	0.70	0.73	29.09	10.92	KPT TWISTER 11 BEIGE	37	KPRX10	102	
41	8.29	357.43	0.69	0.73	28.95	10.92	KPT TWISTER 11 BEIGE	38	KPRX10	108	
42	8.41	365.84	0.67	0.73	28.84	10.92	KPT TWISTER 11 BEIGE	39	KPRX10	108	
43	7.42	373.26	0.64	0.61	28.76	10.93	KPT TWISTER 10 BEIGE	40	KPRX10	114	
44	7.42	380.68	0.70	0.73	28.70	10.92	KPT TWISTER 11 BEIGE	41	KPRX10	114	
45	8.41	389.09	0.76	0.73	28.67	10.92	KPT TWISTER 11 BEIGE	42	KPRX10	114	
46	8.29	397.38	0.79	0.73	28.66	10.92	KPT TWISTER 11 BEIGE	43	KPRX10	114	

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.	DROP LENGTH
47	8.88	406.26	0.84	0.87	28.67	10.91	KPT TWISTER 12 GOLD	44	KPRX10		114
48	8.88	415.14	0.83	0.87	28.72	10.91	KPT TWISTER 12 GOLD	45	KPRX10		114
49	8.29	423.43	0.88	0.87	28.80	10.91	KPT TWISTER 12 GOLD	46	KPRX10		108
50	9.66	433.09	0.90	0.87	28.92	10.91	KPT TWISTER 12 GOLD	47	KPRX10		108
51	8.29	441.38	0.88	0.87	29.05	10.91	KPT TWISTER 12 GOLD	48	KPRX10		102
52	8.88	450.26	0.93	0.87	29.22	10.91	KPT TWISTER 12 GOLD	49	KPRX10		96
53	8.88	459.14	0.92	0.87	29.42	10.91	KPT TWISTER 12 GOLD	50	KPRX10		90
54	8.29	467.43	1.14	1.18	29.57	10.89	KPT TWISTER 14 LIME	51	KPRX10		84
TOWER 3	157.00	473.60									
55	12.66	480.09	1.17	1.18	29.56	10.89	KPT TWISTER 14 LIME	52	KPRX10		84
56	8.29	488.38	0.98	1.01	29.36	10.90	KPT TWISTER 13 GOLD	53	KPRX10		90
57	8.88	497.26	1.03	1.01	29.15	10.90	KPT TWISTER 13 GOLD	54	KPRX10		96
58	8.88	506.14	1.01	1.01	28.97	10.90	KPT TWISTER 13 GOLD	55	KPRX10		102
59	8.29	514.43	1.00	1.01	28.83	10.90	KPT TWISTER 13 GOLD	56	KPRX10		108
60	8.41	522.84	0.96	1.01	28.72	10.90	KPT TWISTER 13 GOLD	57	KPRX10		108
61	7.42	530.26	0.92	0.87	28.64	10.91	KPT TWISTER 12 GOLD	58	KPRX10		114
62	7.42	537.68	0.99	1.01	28.59	10.90	KPT TWISTER 13 GOLD	59	KPRX10		114
63	8.41	546.09	1.06	1.01	28.55	10.90	KPT TWISTER 13 GOLD	60	KPRX10		114
64	8.29	554.38	1.11	1.18	28.54	10.89	KPT TWISTER 14 LIME	61	KPRX10		114
65	8.88	563.26	1.16	1.18	28.56	10.89	KPT TWISTER 14 LIME	62	KPRX10		114
66	8.88	572.14	1.14	1.18	28.61	10.89	KPT TWISTER 14 LIME	63	KPRX10		114
67	8.29	580.43	1.21	1.18	28.69	10.89	KPT TWISTER 14 LIME	64	KPRX10		108
68	9.66	590.09	1.23	1.18	28.81	10.89	KPT TWISTER 14 LIME	65	KPRX10		108
69	8.29	598.38	1.20	1.18	28.94	10.89	KPT TWISTER 14 LIME	66	KPRX10		102
70	8.88	607.26	1.26	1.18	29.11	10.89	KPT TWISTER 14 LIME	67	KPRX10		96
71	8.88	616.14	1.23	1.18	29.32	10.89	KPT TWISTER 14 LIME	68	KPRX10		90
72	8.29	624.43	1.53	1.53	29.47	10.86	KPT TWISTER 16 LAVENDER	69	KPRX10		84
TOWER 4	157.00	630.60									
73	12.66	637.09	1.55	1.53	29.46	10.86	KPT TWISTER 16 LAVENDER	70	KPRX10		84
74	8.29	645.38	1.29	1.35	29.26	10.88	KPT TWISTER 15 LIME	71	KPRX10		90
75	8.88	654.26	1.35	1.35	29.05	10.88	KPT TWISTER 15 LIME	72	KPRX10		96
76	8.88	663.14	1.33	1.35	28.87	10.88	KPT TWISTER 15 LIME	73	KPRX10		102
77	8.29	671.43	1.31	1.35	28.73	10.88	KPT TWISTER 15 LIME	74	KPRX10		108
78	8.41	679.84	1.25	1.18	28.62	10.89	KPT TWISTER 14 LIME	75	KPRX10		108
79	7.42	687.26	1.19	1.18	28.55	10.89	KPT TWISTER 14 LIME	76	KPRX10		114
80	7.42	694.68	1.28	1.35	28.49	10.88	KPT TWISTER 15 LIME	77	KPRX10		114
81	8.41	703.09	1.37	1.35	28.46	10.88	KPT TWISTER 15 LIME	78	KPRX10		114
82	8.29	711.38	1.42	1.35	28.45	10.88	KPT TWISTER 15 LIME	79	KPRX10		114
83	8.88	720.26	1.49	1.53	28.47	10.86	KPT TWISTER 16 LAVENDER	80	KPRX10		114
84	8.88	729.14	1.46	1.53	28.52	10.86	KPT TWISTER 16 LAVENDER	81	KPRX10		114
85	8.29	737.43	1.54	1.53	28.60	10.86	KPT TWISTER 16 LAVENDER	82	KPRX10		108
86	9.66	747.09	1.56	1.53	28.72	10.86	KPT TWISTER 16 LAVENDER	83	KPRX10		108
87	8.29	755.38	1.51	1.53	28.86	10.86	KPT TWISTER 16 LAVENDER	84	KPRX10		102
88	8.88	764.26	1.58	1.53	29.03	10.86	KPT TWISTER 16 LAVENDER	85	KPRX10		96
89	8.88	773.14	1.55	1.53	29.24	10.86	KPT TWISTER 16 LAVENDER	86	KPRX10		90
90	8.29	781.43	1.91	1.93	29.39	10.84	KPT TWISTER 18 GREY	87	KPRX10		84
TOWER 5	157.00	787.60									
91	12.66	794.09	1.93	1.93	29.38	10.84	KPT TWISTER 18 GREY	88	KPRX10		84

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.	DROP LENGTH
92	8.29	802.38	1.60	1.53	29.18	10.86	KPT TWISTER 16 LAVENDER	89	KPRX10		90
93	8.88	811.26	1.68	1.72	28.97	10.85	KPT TWISTER 17 LAVENDER	90	KPRX10		96
94	8.88	820.14	1.64	1.72	28.80	10.85	KPT TWISTER 17 LAVENDER	91	KPRX10		102
95	8.29	828.43	1.61	1.53	28.66	10.86	KPT TWISTER 16 LAVENDER	92	KPRX10		108
96	8.41	836.84	1.54	1.53	28.55	10.86	KPT TWISTER 16 LAVENDER	93	KPRX10		108
97	7.42	844.26	1.46	1.53	28.48	10.86	KPT TWISTER 16 LAVENDER	94	KPRX10		114
98	7.42	851.68	1.57	1.53	28.43	10.86	KPT TWISTER 16 LAVENDER	95	KPRX10		114
99	8.41	860.09	1.67	1.72	28.39	10.85	KPT TWISTER 17 LAVENDER	96	KPRX10		114
100	8.29	868.38	1.74	1.72	28.39	10.85	KPT TWISTER 17 LAVENDER	97	KPRX10		114
101	8.88	877.26	1.81	1.72	28.41	10.85	KPT TWISTER 17 LAVENDER	98	KPRX10		114
102	8.88	886.14	1.77	1.72	28.46	10.85	KPT TWISTER 17 LAVENDER	99	KPRX10		114
103	8.29	894.43	1.87	1.93	28.54	10.84	KPT TWISTER 18 GREY	100	KPRX10		108
104	9.66	904.09	1.89	1.93	28.67	10.84	KPT TWISTER 18 GREY	101	KPRX10		108
105	8.29	912.38	1.83	1.93	28.80	10.84	KPT TWISTER 18 GREY	102	KPRX10		102
106	8.88	921.26	1.90	1.93	28.98	10.84	KPT TWISTER 18 GREY	103	KPRX10		96
107	8.88	930.14	1.86	1.93	29.19	10.84	KPT TWISTER 18 GREY	104	KPRX10		90
108	8.29	938.43	2.29	2.37	29.34	10.80	KPT TWISTER 20 TURQUOISE	105	KPRX10		84
TOWER 6	157.00	944.60									
109	12.66	951.09	2.31	2.37	29.34	10.80	KPT TWISTER 20 TURQUOISE	106	KPRX10		84
110	8.29	959.38	1.91	1.93	29.13	10.84	KPT TWISTER 18 GREY	107	KPRX10		90
111	8.88	968.26	2.00	1.93	28.93	10.84	KPT TWISTER 18 GREY	108	KPRX10		96
112	8.88	977.14	1.95	1.93	28.75	10.84	KPT TWISTER 18 GREY	109	KPRX10		102
113	8.29	985.43	1.91	1.93	28.62	10.84	KPT TWISTER 18 GREY	110	KPRX10		108
114	8.41	993.84	1.83	1.93	28.51	10.84	KPT TWISTER 18 GREY	111	KPRX10		108
115	7.42	1001.26	1.72	1.72	28.44	10.85	KPT TWISTER 17 LAVENDER	112	KPRX10		114
116	7.42	1008.68	1.85	1.93	28.39	10.84	KPT TWISTER 18 GREY	113	KPRX10		114
117	8.41	1017.09	1.97	1.93	28.36	10.84	KPT TWISTER 18 GREY	114	KPRX10		114
118	8.29	1025.38	2.04	2.14	28.35	10.82	KPT TWISTER 19 GREY	115	KPRX10		114
119	8.88	1034.26	2.13	2.14	28.38	10.82	KPT TWISTER 19 GREY	116	KPRX10		114
120	8.88	1043.14	2.07	2.14	28.43	10.82	KPT TWISTER 19 GREY	117	KPRX10		114
121	8.29	1051.43	2.18	2.14	28.51	10.82	KPT TWISTER 19 GREY	118	KPRX10		108
122	9.66	1061.09	2.20	2.14	28.64	10.82	KPT TWISTER 19 GREY	119	KPRX10		108
123	8.29	1069.38	2.13	2.14	28.77	10.82	KPT TWISTER 19 GREY	120	KPRX10		102
124	8.88	1078.26	2.22	2.14	28.95	10.82	KPT TWISTER 19 GREY	121	KPRX10		96
125	8.88	1087.14	2.16	2.14	29.16	10.82	KPT TWISTER 19 GREY	122	KPRX10		90
126	8.29	1095.43	2.67	2.62	29.31	10.79	KPT TWISTER 21 TURQUOISE	123	KPRX10		84
TOWER 7	157.00	1101.60									
127	12.66	1108.09	2.69	2.62	29.31	10.79	KPT TWISTER 21 TURQUOISE	124	KPRX10		84
128	8.29	1116.38	2.23	2.14	29.11	10.82	KPT TWISTER 19 GREY	125	KPRX10		90
129	8.88	1125.26	2.33	2.37	28.91	10.80	KPT TWISTER 20 TURQUOISE	126	KPRX10		96
130	8.88	1134.14	2.27	2.37	28.74	10.80	KPT TWISTER 20 TURQUOISE	127	KPRX10		102
131	8.29	1142.43	2.22	2.14	28.60	10.82	KPT TWISTER 19 GREY	128	KPRX10		108
132	8.41	1150.84	2.12	2.14	28.50	10.82	KPT TWISTER 19 GREY	129	KPRX10		108
133	7.42	1158.26	2.00	1.93	28.42	10.84	KPT TWISTER 18 GREY	130	KPRX10		114
134	7.42	1165.68	2.15	2.14	28.37	10.82	KPT TWISTER 19 GREY	131	KPRX10		114
135	8.41	1174.09	2.29	2.37	28.34	10.80	KPT TWISTER 20 TURQUOISE	132	KPRX10		114
136	8.29	1182.38	2.36	2.37	28.34	10.80	KPT TWISTER 20 TURQUOISE	133	KPRX10		114
137	8.88	1191.26	2.46	2.37	28.36	10.80	KPT TWISTER 20 TURQUOISE	134	KPRX10		114

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.	DROP LENGTH
138	8.88	1200.14	2.40	2.37	28.42	10.80	KPT TWISTER 20 TURQUOISE	135	KPRX10	114	
139	8.29	1208.43	2.53	2.62	28.50	10.79	KPT TWISTER 21 TURQUOISE	136	KPRX10	108	
140	9.66	1218.09	2.54	2.62	28.63	10.79	KPT TWISTER 21 TURQUOISE	137	KPRX10	108	
141	8.29	1226.38	2.44	2.37	28.77	10.80	KPT TWISTER 20 TURQUOISE	138	KPRX10	102	
142	8.88	1235.26	2.55	2.62	28.94	10.79	KPT TWISTER 21 TURQUOISE	139	KPRX10	96	
143	8.88	1244.14	2.47	2.37	29.15	10.80	KPT TWISTER 20 TURQUOISE	140	KPRX10	90	
144	8.29	1252.43	2.77	2.86	29.31	10.77	KPT TWISTER 22 YELLOW	141	KPRX10	84	
TOWER 8	157.00	1258.60					PIPE ID CHANGES FROM 6.395 TO 5.369				
145	10.62	1263.05	2.63	2.62	29.31	10.79	KPT TWISTER 21 TURQUOISE	142	KPRX10	84	
146	7.42	1270.47	2.18	2.14	29.31	10.82	KPT TWISTER 19 GREY	143	KPRX10	84	
147	7.42	1277.89	1.65	1.72	29.31	10.85	KPT TWISTER 17 LAVENDER	144	KPRX10	84	
148	3.58	1281.47	1.71	1.72	29.31	10.85	KPT TWISTER 17 LAVENDER	145	KPRX10	84	
OVERHANG	22.87	1281.47									

TOTAL GPM = 200.71

GPA = 1.69

MINIMUM RECOMMENDED REGULATOR INLET PRESSURE IS 15.00 PSI

WITH GRADUATED ELEVATION OF 15.00 FT THE INLET PRESSURE IS 25.79 PSI FOR SPRINKLER 145

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	1.84	3.10	9.09	193%	4.95	0.011	0.39	0.52	0.66
2	5.39	9.11	11.04	21%	2.05	0.005	0.16	0.22	0.27
3	8.95	15.11	14.31	-5%	1.60	0.004	0.13	0.17	0.21
4	12.50	21.11	20.09	-5%	1.61	0.004	0.13	0.17	0.21
5	16.06	27.12	25.95	-4%	1.62	0.004	0.13	0.17	0.21
6	19.61	33.12	31.89	-4%	1.63	0.004	0.13	0.17	0.22
7	23.17	39.13	37.33	-5%	1.61	0.004	0.13	0.17	0.21
8	26.72	45.13	42.98	-5%	1.61	0.004	0.13	0.17	0.21
OVERHANG	4.19	7.07	8.04	14%	1.92	0.004	0.15	0.20	0.25
TOTAL	118.43	200.00	200.71		1.69				

**SUMMARY OF SPRINKLERS**

34 KPT TWISTER 10 BEIGE  
9 KPT TWISTER 11 BEIGE  
8 KPT TWISTER 12 GOLD  
7 KPT TWISTER 13 GOLD  
12 KPT TWISTER 14 LIME  
7 KPT TWISTER 15 LIME  
14 KPT TWISTER 16 LAVENDER  
9 KPT TWISTER 17 LAVENDER  
15 KPT TWISTER 18 GREY  
13 KPT TWISTER 19 GREY  
10 KPT TWISTER 20 TURQUOISE  
6 KPT TWISTER 21 TURQUOISE  
1 KPT TWISTER 22 YELLOW

**SUMMARY OF DROPS**

19 84 IN DROP  
15 90 IN DROP  
15 96 IN DROP  
16 102 IN DROP  
32 108 IN DROP  
48 114 IN DROP

**SUMMARY OF REGULATORS**

145 Komet PR-X 10 psi

**3 PLUGS****TOTAL OF 145 DROPS**

LENGTH OF HOSE: 1245.5 FT.

**TOTAL OF 145 REGULATORS**

## NOZZLE POSITION CHART

KPT TWISTER 10 BEIGE	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 35, 40
KPT TWISTER 11 BEIGE	33, 34, 36, 37, 38, 39, 41, 42, 43
KPT TWISTER 12 GOLD	44, 45, 46, 47, 48, 49, 50, 58
KPT TWISTER 13 GOLD	53, 54, 55, 56, 57, 59, 60
KPT TWISTER 14 LIME	51, 52, 61, 62, 63, 64, 65, 66, 67, 68, 75, 76
KPT TWISTER 15 LIME	71, 72, 73, 74, 77, 78, 79
KPT TWISTER 16 LAVENDER	69, 70, 80, 81, 82, 83, 84, 85, 86, 89, 92, 93, 94, 95
KPT TWISTER 17 LAVENDER	90, 91, 96, 97, 98, 99, 112, 144, 145
KPT TWISTER 18 GREY	87, 88, 100, 101, 102, 103, 104, 107, 108, 109, 110, 111, 113, 114, 130 115, 116, 117, 118, 119, 120, 121, 122, 125, 128, 129, 131, 143
KPT TWISTER 19 GREY	105, 106, 126, 127, 132, 133, 134, 135, 138, 140
KPT TWISTER 20 TURQUOISE	123, 124, 136, 137, 139, 142
KPT TWISTER 21 TURQUOISE	
KPT TWISTER 22 YELLOW	141

# HI PLAINS FARM EQUIPMENT

**1509 SOUTH 2ND**

# DODGE CITY, KANSAS 67801

JUNE 24, 2024  
WISH-114729  
SKYBOUND

LINDSAY GEN II  
KOMET PRECISION TWISTERS  
KOMET 10 PSI REGULATORS  
.75 I.D. FLEXIBLE HOSE  
HEAD

Rotation time at 100% = 14.48 Hours Or 869 minutes

200 GPM @ 30 PSI

---

## Installation Chart

---

Page 1

Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg
1	PLUG				4	102	55	13	PRX10	7	114	112	17	PRX10
2	PLUG				5	108	56	13	PRX10	8	114	113	18	PRX10
3	PLUG				6	108	57	13	PRX10	9	114	114	18	PRX10
4	102	1	10	PRX10	7	114	58	12	PRX10	10	114	115	19	PRX10
5	108	2	10	PRX10	8	114	59	13	PRX10	11	114	116	19	PRX10
6	108	3	10	PRX10	9	114	60	13	PRX10	12	114	117	19	PRX10
7	114	4	10	PRX10	10	114	61	14	PRX10	13	108	118	19	PRX10
8	114	5	10	PRX10	11	114	62	14	PRX10	14	108	119	19	PRX10
9	114	6	10	PRX10	12	114	63	14	PRX10	15	102	120	19	PRX10
10	114	7	10	PRX10	13	108	64	14	PRX10	16	96	121	19	PRX10
11	114	8	10	PRX10	14	108	65	14	PRX10	17	90	122	19	PRX10
12	114	9	10	PRX10	15	102	66	14	PRX10	18	84	123	21	PRX10
13	108	10	10	PRX10	16	96	67	14	PRX10	<b>TOWER 7</b>				
14	108	11	10	PRX10	17	90	68	14	PRX10	1	84	124	21	PRX10
15	102	12	10	PRX10	18	84	69	16	PRX10	2	90	125	19	PRX10
16	96	13	10	PRX10	<b>TOWER 4</b>					3	96	126	20	PRX10
17	90	14	10	PRX10	1	84	70	16	PRX10	4	102	127	20	PRX10
18	84	15	10	PRX10	2	90	71	15	PRX10	5	108	128	19	PRX10
<b>TOWER 1</b>														
1	84	16	10	PRX10	4	102	73	15	PRX10	7	114	130	18	PRX10
2	90	17	10	PRX10	5	108	74	15	PRX10	8	114	131	19	PRX10
3	96	18	10	PRX10	6	108	75	14	PRX10	9	114	132	20	PRX10
4	102	19	10	PRX10	7	114	76	14	PRX10	10	114	133	20	PRX10
5	108	20	10	PRX10	8	114	77	15	PRX10	11	114	134	20	PRX10
6	108	21	10	PRX10	9	114	78	15	PRX10	12	114	135	20	PRX10
7	114	22	10	PRX10	10	114	79	15	PRX10	13	108	136	21	PRX10
8	114	23	10	PRX10	11	114	80	16	PRX10	14	108	137	21	PRX10
9	114	24	10	PRX10	12	114	81	16	PRX10	15	102	138	20	PRX10
10	114	25	10	PRX10	13	108	82	16	PRX10	16	96	139	21	PRX10
11	114	26	10	PRX10	14	108	83	16	PRX10	17	90	140	20	PRX10
12	114	27	10	PRX10	15	102	84	16	PRX10	18	84	141	22	PRX10
13	108	28	10	PRX10	16	96	85	16	PRX10	<b>TOWER 8</b>				
14	108	29	10	PRX10	17	90	86	16	PRX10	1	84	142	21	PRX10
15	102	30	10	PRX10	18	84	87	18	PRX10	2	84	143	19	PRX10
16	96	31	10	PRX10	<b>TOWER 5</b>					3	84	144	17	PRX10
17	90	32	10	PRX10	1	84	88	18	PRX10	4	84	145	17	PRX10
18	84	33	11	PRX10	2	90	89	16	PRX10	<b>TOWER 2</b>				
1	84	34	11	PRX10	4	102	91	17	PRX10	<b>TOWER 9</b>				
2	90	35	10	PRX10	5	108	92	16	PRX10	<b>TOWER 10</b>				
3	96	36	11	PRX10	6	108	93	16	PRX10	<b>TOWER 11</b>				
4	102	37	11	PRX10	7	114	94	16	PRX10	<b>TOWER 12</b>				
5	108	38	11	PRX10	8	114	95	16	PRX10	<b>TOWER 13</b>				
6	108	39	11	PRX10	9	114	96	17	PRX10	<b>TOWER 14</b>				
7	114	40	10	PRX10	10	114	97	17	PRX10	<b>TOWER 15</b>				
8	114	41	11	PRX10	11	114	98	17	PRX10	<b>TOWER 16</b>				
9	114	42	11	PRX10	12	114	99	17	PRX10	<b>TOWER 17</b>				
10	114	43	11	PRX10	13	108	100	18	PRX10	<b>TOWER 18</b>				
11	114	44	12	PRX10	14	108	101	18	PRX10	<b>TOWER 19</b>				
12	114	45	12	PRX10	15	102	102	18	PRX10	<b>TOWER 20</b>				
13	108	46	12	PRX10	16	96	103	18	PRX10	<b>TOWER 21</b>				
14	108	47	12	PRX10	17	90	104	18	PRX10	<b>TOWER 22</b>				
15	102	48	12	PRX10	18	84	105	20	PRX10	<b>TOWER 23</b>				
16	96	49	12	PRX10	<b>TOWER 6</b>					<b>TOWER 24</b>				
17	90	50	12	PRX10	1	84	106	20	PRX10	<b>TOWER 25</b>				
18	84	51	14	PRX10	2	90	107	18	PRX10	<b>TOWER 3</b>				
1	84	52	14	PRX10	4	102	109	18	PRX10	<b>TOWER 26</b>				
2	90	53	13	PRX10	5	108	110	18	PRX10	<b>TOWER 27</b>				
3	96	54	13	PRX10	6	108	111	18	PRX10	<b>TOWER 28</b>				

# HI PLAINS FARM EQUIPMENT

1509 SOUTH 2ND

DODGE CITY, KANSAS 67801

JUNE 24, 2024

WISH-114729

SKYBOUND

701

Rotation time at 100% = 14.48 Hours Or 869 minutes

200 gpm @ 30 psi

LINDSAY GEN II  
KOMET PRECISION TWISTERS  
KOMET 10 PSI REGULATORS  
.75 I.D. FLEXIBLE HOSE  
NO ENDGUN

---

## Nozzle Difference

Previous chart: WISH-113755 400 gpm @ 30 psi

Current chart: WISH-114729 200 gpm @ 30 psi

<u>Nozzle Type and Size</u>	<u>Difference</u>	<u>Previous WISH Printouts</u>
KPT TWISTER 10 BEIGE	20	WISH-113755 400 gpm @ 30 PSI APRIL 29, 2024
KPT TWISTER 11 BEIGE	3	WISH-97875 450 gpm @ 30 PSI FEBRUARY 19, 2021
KPT TWISTER 12 GOLD	4	
KPT TWISTER 13 GOLD	4	
KPT TWISTER 14 LIME	7	
KPT TWISTER 15 LIME	4	
KPT TWISTER 16 LAVENDER	8	
KPT TWISTER 17 LAVENDER	5	
KPT TWISTER 18 GREY	7	
KPT TWISTER 19 GREY	8	
KPT TWISTER 20 TURQUOISE	3	
<b>Total:</b>	<b>73</b>	

PRECIPITATION CHART FOR FULL CIRCLE

WISH-114729

JUNE 24, 2024

DEALER - HI PLAINS FARM EQUIPMENT

IRRIGATOR - SKYBOUND  
FIELD - 701

TOTAL LENGTH PIPE = 1281.47    SYSTEM PRESSURE = 30 PSI  
 GPM UNDER PIPE = 200.71    TOTAL GPM = 200.71  
 ACRES UNDER PIPE = 118.43  
 RANGE OF ENDGUN = .00  
 GPM OF ENDGUN = .00  
 ACRES UNDER ENDGUN = .00

MOTOR SIZE (HP) = 3/4  
 LOADED MOTOR RPM = 1750  
 CENTER GEAR BOX RATIO = 40  
 WHEEL GEAR BOX RATIO = 50  
 TIRE SIZE = 11.2 X 24  
 LAST TOWER SPEED (FPM) = 9.10

**PRECIPITATION BASED****% TIMER BASED**

PRECIPITATION INCHES	% TIMER SETTING	TIME HOURS	% TIMER SETTING	PRECIPITATION INCHES	TIME HOURS
.05	100.00	14.48 - 869(min)	100.00	.05	14.48 - 869(min)
.10	54.24	26.71	90.00	.06	16.09
.20	27.12	53.41	80.00	.07	18.10
.25	21.69	66.76	70.00	.08	20.69
.30	18.08	80.12	60.00	.09	24.14
.40	13.56	106.82	50.00	.11	28.97
.50	10.85	133.53	45.00	.12	32.19
.60	9.04	160.23	40.00	.14	36.21
.70	7.75	186.94	35.00	.15	41.38
.75	7.23	200.29	30.00	.18	48.28
.80	6.78	213.64	25.00	.22	57.93
.90	6.03	240.35	20.00	.27	72.42
1.00	5.42	267.05	15.00	.36	96.56
1.25	4.34	333.81	10.00	.54	144.84
1.50	3.62	400.58	5.00	1.08	289.67

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.

DEALER - HI PLAINS FARM EQUIPMENT

IRRIGATOR - SKYBOUND  
FIELD - 701

SPAN 1 POS/LEN	SPAN 2 POS/LEN	SPAN 3 POS/LEN	SPAN 4 POS/LEN	SPAN 5 POS/LEN	SPAN 6 POS/LEN	SPAN 7 POS/LEN	SPAN 8 POS/LEN	ENDBOOM POS/LEN
1 - 102	16 - 84	34 - 84	52 - 84	70 - 84	88 - 84	106 - 84	124 - 84	142 - 84
2 - 108	17 - 90	35 - 90	53 - 90	71 - 90	89 - 90	107 - 90	125 - 90	143 - 84
3 - 108	18 - 96	36 - 96	54 - 96	72 - 96	90 - 96	108 - 96	126 - 96	144 - 84
4 - 114	19 - 102	37 - 102	55 - 102	73 - 102	91 - 102	109 - 102	127 - 102	145 - 84
5 - 114	20 - 108	38 - 108	56 - 108	74 - 108	92 - 108	110 - 108	128 - 108	
6 - 114	21 - 108	39 - 108	57 - 108	75 - 108	93 - 108	111 - 108	129 - 108	
7 - 114	22 - 114	40 - 114	58 - 114	76 - 114	94 - 114	112 - 114	130 - 114	
8 - 114	23 - 114	41 - 114	59 - 114	77 - 114	95 - 114	113 - 114	131 - 114	
9 - 114	24 - 114	42 - 114	60 - 114	78 - 114	96 - 114	114 - 114	132 - 114	
10 - 108	25 - 114	43 - 114	61 - 114	79 - 114	97 - 114	115 - 114	133 - 114	
11 - 108	26 - 114	44 - 114	62 - 114	80 - 114	98 - 114	116 - 114	134 - 114	
12 - 102	27 - 114	45 - 114	63 - 114	81 - 114	99 - 114	117 - 114	135 - 114	
13 - 96	28 - 108	46 - 108	64 - 108	82 - 108	100 - 108	118 - 108	136 - 108	
14 - 90	29 - 108	47 - 108	65 - 108	83 - 108	101 - 108	119 - 108	137 - 108	
15 - 84	30 - 102	48 - 102	66 - 102	84 - 102	102 - 102	120 - 102	138 - 102	
	31 - 96	49 - 96	67 - 96	85 - 96	103 - 96	121 - 96	139 - 96	
	32 - 90	50 - 90	68 - 90	86 - 90	104 - 90	122 - 90	140 - 90	
	33 - 84	51 - 84	69 - 84	87 - 84	105 - 84	123 - 84	141 - 84	

## SUMMARY OF DROPS

19 - 84 IN DROP  
 15 - 90 IN DROP  
 15 - 96 IN DROP  
 16 - 102 IN DROP  
 32 - 108 IN DROP  
 48 - 114 IN DROP

TOTAL OF 145 DROPS