

Field Day

Informational Meeting and Dinner
1011 West Broadway, Leoti, KS
August 21 @ 6:30 pm

- Syngenta and Lindsay are Re-thinking Water -

According to the latest report from the US Drought Monitor, the majority of our growing area still falls into the severe to extreme drought range of classification. While this is a marked improvement over last year, the reality is that we are still in a water deficit that requires us to maximize the bushels for every inch of this precious resource available to us. Syngenta and Lindsay Corporation, together, are working with growers to do just that through the Water+ Intelligent Irrigation Platform.

2014 was the inaugural year for the Water+ Basic program. The story proved to be one that caught the ear of many growers as the stated acre goals of Water+ were surpassed by over 50%. Utilizing proven water-optimized agronomic solutions, as well as the convenience and security that Lindsay's irrigation technologies provide, it has been documented that we can, in fact, produce more bushels per inch of available water than ever thought before. But the Water+ innovation doesn't stop there, as we are currently evaluating new technologies such as UAV (unmanned air vehicles) and crop modeling capabilities; determining if there is significant added value and profit potential we can offer into 2015 and beyond.

We invite you to face the water challenge head-on and discover how Water+ and the innovation we offer can provide you the opportunity to Grow More Corn.

Jonathan J. Furasek | Business Development Manager | 402.740.9760



203 S. CARTER AVE., LEOTI, KS 67861
SEED AND SO MUCH MORE.

- DESK NOTES -

In everything there is a limiting factor and in all things agricultural that factor is water. How to maximize the return on water whether from irrigation or rain is the topic of many sales pitches, conversations, and government policy discussions across the state and nation.

Last year at the 3I Show in Dodge City a gentleman remarked to me he had figured out the irrigation problem. He joked that if he installed one of every irrigation related contraption that was on display he could have 435% more water. And while maximizing water is no laughing matter, I believe it is difficult to evaluate some of these new technologies and their worthiness of application.

Syngenta is working to do some of the evaluation to help you maximize your return on water. Developing technologies like Quilt Xcel and Agrisure Artesian, working in collaboration with Lindsay, and evaluating ever changing water technologies is some of the work that is being done everyday across the globe.

This issue of Stalk Talk is all about water, how to maximize it, how long to apply it, and one of the potential risks that come with it Hail. Take some time to check out how maximizing your return and achieving "Farming Success" is possible.

Matt Long | Seed Advisor | 620.872.4842

Late Season Hail

Yield Loss due to

Stage of Growth	Percent Leaf Area Destroyed																		
	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
	Percent Production Lost																		
7-leaf	0	0	0	0	0	0	1	1	2	3	4	4	5	5	6	7	8	9	9
8-leaf	0	0	0	0	0	1	1	2	3	4	5	5	6	6	7	8	9	10	11
9-leaf	0	0	0	1	1	2	2	3	4	5	6	6	7	7	9	10	11	12	13
10-leaf	0	0	0	1	2	3	4	5	6	7	8	8	9	9	11	13	14	15	16
11-leaf	0	0	1	1	2	3	5	6	7	8	9	10	11	12	14	16	18	20	22
12-leaf	0	0	1	2	3	4	5	7	9	10	11	13	15	16	18	20	23	26	28
13-leaf	0	1	1	2	3	4	6	8	10	11	13	15	17	19	22	25	28	31	34
14-leaf	0	1	2	3	4	6	8	10	13	15	17	20	22	25	28	32	36	40	44
15-leaf	1	1	2	3	5	7	9	12	15	17	20	23	26	30	34	38	42	46	51
16-leaf	1	2	3	4	6	8	11	14	18	20	23	27	31	36	40	44	49	55	61
17-leaf	2	3	4	5	7	9	13	17	21	24	28	32	37	43	48	53	59	65	72
18-leaf	2	3	5	7	9	11	15	19	24	28	33	38	44	50	56	62	69	76	84
19-21 leaf	3	4	6	8	11	14	18	22	27	32	38	43	51	57	64	71	79	87	96
Tassel	3	5	7	9	13	17	21	26	31	36	42	48	55	62	68	75	83	91	100
Silked	3	5	7	9	12	16	20	24	29	34	39	45	51	58	65	72	80	88	97
Silks brown	2	4	6	8	11	15	18	22	27	31	36	41	47	54	60	66	74	81	90
Pre-blister	2	3	5	7	10	13	16	20	24	28	32	37	43	49	54	60	66	73	81
Blister	2	3	5	7	10	13	16	19	22	26	30	34	39	45	50	55	60	66	73
Early milk	2	3	4	6	8	11	14	17	20	24	28	32	36	41	45	50	55	60	66
Milk	1	2	3	5	7	9	12	15	18	21	24	28	32	37	41	45	49	54	59
Late milk	1	2	3	4	6	8	10	12	15	18	21	24	28	32	35	38	42	46	50
Soft dough	1	1	2	2	4	6	8	10	12	14	17	20	23	26	29	32	35	38	41
Early dent	0	0	1	1	2	3	5	7	9	11	13	15	18	21	23	25	27	29	32
Dent	0	0	0	1	2	3	4	6	7	8	10	12	14	15	17	19	20	21	23
Late dent	0	0	0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Nearly mature	0	0	0	0	0	0	0	0	1	2	3	4	5	5	6	6	7	7	8
Mature	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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- When To Stop Irrigating Corn -

As we are approaching the end of the growing season the question always comes up: "When can I stop watering the corn?"

Before I try to answer this question there is some background to go through. A corn plant does not utilize soil moisture uniformly through the soil profile. 40% of the moisture it uses through the growing season comes from the top foot, 30% from the 2nd foot 20% from the 3rd foot and 10% from the 4th foot.

This means you need to focus on the top 2 feet of the soil profile when making irrigation ending decisions.

When the corn reaches the dent stage it will take approximately 5 inches of soil moisture to reach physiological maturity. At ½ milk line it will take 2.25" of moisture to reach maturity. A loam soil in Western Kansas holds around 2.25"/foot at field capacity (can't hold any more water). We very rarely can fill the soils to this level. If you can probe 2 feet and make a ball out of the soil you will have 1.8"/foot of moisture or 3.6" available in the top 2 feet. You will be able to finish the corn crop if it is ½ milk line, but you will leave the soil very depleted for the following crop.

In general you will need to keep irrigating until the corn reaches 1/3 milk line and if you have good moisture at that time you can stop irrigating for a couple of weeks. Monitor the soil moisture weekly and unless rain is received you will likely have to water 1 to 2 more times to finish the corn out properly.

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