Corn Management from a Consultant's Perspective

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MISSISSIPPI STATE UNIVERSITY MEXTENSION

Seedling Development

Soil Surface

Nodal Roots

Mesocotyl

Seminal Roots

Vegetative Growth Staging





0)





Recovery from Hail Damage

Seasonal Nitrogen Use





Greensnap

Greensnap

Irrigation Initiation?

Corn Seasonal Water Use



2.0

1.0

0.5

0.0

VE V6 V12 Silk Milk Dent Mature

Corn Sensitivity to Water Deficit

% Yield loss per day

Low Sensitivity

Low Need

Tassel Milk Dent Maturity

Kernel Rows per Ear

Corn Hybrid Demo (2014 -2022)



Pollination

A trans

AT THINK

NO MANY NAMES

THE THE

Need during early reproductive stages

21

/9

High Sensitivity High Need

Tassel Milk Dent Maturity

Kernel Abortion

Evaluating Disease Threat

Estimated Corn Yield Loss (%) Due to Defoliation

Corn Growth Stage	Percent Leaf Area Defoliated									
	10	20	30	40	50	60	70	80	90	100
Late Dough	0	1	2	5	9	13	18	23	27	32
Dent Stage	0	0	2	4	7	10	14	17	20	23
1/3 Milk-line	0	0	1	3	5	7	9	11	13	15
2/3 Milk-line	0	0	0	0	1	3	5	6	7	8
Physiological Maturity	0	0	0	0	0	0	0	0	0	0

Adapted from the National Crop Insurance Service's "Corn Loss Instructions."



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Less Sensitive during Late Grain Fill

% Yield loss per day



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Tassel Milk Maturity

Reproductive Corn Water Needs







Questions?



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