

# EARLY GROWTH REPORT



SAMPLING DATE:	5/27/2021
GROWTH STAGE:	
REGISTRATION DATE:	2021-04-29 15:10:03

## PRODUCER INFORMATION

Site ID:	NTS-1619730602
Registered By:	Howard Brown
Producer Name:	GENE HEAP
Cell Phone:	0

## SITE INFORMATION

Field Name:	Trust East-M
Acres:	155.0
Prev. Crop:	0
Expected Yield:	230

## OTHER INFORMATION

Crop Specialist:	Clapper, Kurt
Report Reviewer:	Howard Brown
Sampler:	Howard Brown
Lab Used:	KSI LABS

## NITROGEN STATUS

PLANT:	SUFFICIENT
SOIL:	SUFFICIENT
OVERALL ASSESSMENT:	SUFFICIENT
LBS N TO APPLY:	0

## SULFUR STATUS

PLANT:	SUFFICIENT
SOIL:	SUFFICIENT
OVERALL ASSESSMENT:	SUFFICIENT
ACTION SUGGESTED:	No indication of S needed
FORM:	
RATE:	

## ZINC STATUS

PLANT STATUS:	SUFFICIENT
SOIL STATUS:	NOT SUFFICIENT
OVERALL ASSESSMENT:	DEFICIENCY POSS.
ACTION SUGGESTED:	Consider test strips
FORM:	NUTRIBLAST Zn
RATE:	2-3 Pts/Acre

## BORON STATUS

PLANT STATUS:	SUFFICIENT
SOIL STATUS:	SUFFICIENT
OVERALL ASSESSMENT:	SUFFICIENT
ACTION SUGGESTED:	No indication of B needed
FORM:	
RATE:	

Current Sampling Date: 5/27/2021  
 Date of Registration: 2021-04-29 15:10:03



**PRODUCER INFORMATION**

Site ID: NTS-1619730602  
 Registered By: Clapper, Kurt  
 Producer Name: GENE HEAP  
 Cell Phone:

**SITE INFORMATION**

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 Acres: 155  
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**PLANT-AVAILABLE N UPDATE**

Sampling Date: 5/27/2021

**Projected Pounds of N/Acre Needed by Corn Crop:**

230 Lbs. ← Plant uptake needed by maturity.

*(Projected N requirement = Expected Yld x 1.1)*

**Pounds of Plant-Available Supplied Detected at 0-2 feet:**

248 Lbs. ← Current Lbs. N detected in upper 2 ft.

*(If plants beyond V4-5 amount is irrelevant. Refer to "Data Summary-Bare Soil".)*

**Pounds N/Acre Remaining to Meet N Requirement:**

0 lbs. ← What needs to be provided by maturity

*(If plants beyond V4-5 amount is irrelevant. Refer to "Data Summary-Bare Soil".)*

	SOIL NITROGEN (Estimate)			
	0 - 2 FT. SAMPLING DEPTH			
	NO3-N (Lbs/A)	NH4-N (Lbs/A)	% NH4 PAN	TOTAL PAN (lbs/A)
Date Tested				
4/20/2021	96.0	60.0	38.5%	156.0
5/27/2021	204.0	44.0	17.7%	248.0

**NITROGEN APPLICATION HISTORY**

Applied	N Source	Placement	Rate (N)	Enhancement

# SOIL TEST RESULTS



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Sampler:	Howard Brown
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Sampling Date	SOIL DEPTH	SOIL O.M.	P TEST		K TEST		Mg TEST		Ca TEST		Buffer				Zn TEST		Mn TEST	
			P TEST	K TEST	Mg TEST	Ca TEST	SOIL Ph	pH	CEC	% K	% Mg	% Ca	% H	S TEST	TEST	TEST	B TEST	
4/20/2021	0-1 FT.	3.3	43	295	1521	7529	6.2	6.9	30.4	1.3	20.9	62	1.8	15	3.2	24	2.1	
	1-2 FT.	2.6	15	246	1797	6876	6.8	7	26	1.3	28.8	66.2	3.7	8	2	27	1.8	
5/27/2021	0-1 FT.	3.4	54	320	1339	7066	6.1	6.8	28.8	1.5	19.4	61.4	17.7	19	5.4	25	1.9	
	1-2 FT.	3.0	15	267	1724	6782	6.8	7	25.5	1.4	28.2	6.5	3.8	14	27	30	1.6	
	0-1 FT.																0	
	1-2 FT.																0	
SUFFICIENCY	0-1 FT.		H	S			S		L	H	L		S	L	L	S		
	1-2 FT.		L	S			S		L	H	L		S	H	S	S		
SUFFICIENCY RANGE (VT)	Low End		30	250			6.0		2	10	65		12	6	30	1.2		
	High End		46	400			7.0		5	15	75		24	10	58	2.4		

## SUGGESTIONS BASED UPON SAMPLING DATE: 5/27/2021

P	Phosphorus concentration above sufficiency
K	Potassium concentration considered High
Mg	No Comments
Ca	No Comments
pH	Soil pH adequate
S	Sulfur concentration considered Adequate
Zn	Consider 1 qt. Nutriblast Zn/Acre as a foliar treatment
Mn	Consider application of manganese fall/pre-plant
B	Boron concentration considered Adequate

## COMMON NUTRIENT RATIOS

Phosphorus/Zinc Ratio:	10
Acceptable Range:	25 - 154

## BASE SATURATION DESIRED RANGE

% Potassium: 1.5	2-5%
% Magnesium: 19.4	10-15%
% Calcium: 61.4	65-75%

L = LOW    S = SUFFICIENT    H = HIGH

# TISSUE TEST RESULTS



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Sampling Date	GROWTH STAGE	PART HARVESTED	Percent (%)							Parts per Million (ppm)					
			N	S	P	K	Mg	Ca	Na	B	Zn	Mn	Fe	Cu	Al
5/27/2021	V5	WHOLE PLANT	4.37	0.21	0.32	3.49	0.25	0.51	0.00	11.00	25.0	50.0	1239.0	12.0	0.0

SUFFICIENCY	N	S	P	K	Mg	Ca	Na	B	Zn	Mn	Fe	Cu	Al
	S	S	S	S	S	S		S	S	S	H	S	

SUFFICIENCY RANGE (VT)	LOW END	N	S	P	K	Mg	Ca	Na	B	Zn	Mn	Fe	Cu	Al
	HIGH END	3.40	0.20	0.30	2.50	0.20	0.40		8	25	30	75	5	
	4.50	0.40	0.40	3.50	0.50	0.70		20	50	100	300	20		

### SUGGESTIONS BASED UPON SAMPLING DATE: 5/27/2021

N	Nitrogen concentration sufficient
S	Sulfur concentration sufficient
P	Phosphorus concentration above sufficiency
K	Potassium concentration sufficient
Mg	Magnesium concentration sufficient
Ca	Calcium concentration sufficient
Na	Not essential for plant growth
B	Boron concentration sufficient
Zn	Zinc concentration sufficient
Mn	Manganese concentration sufficient
Fe	Iron concentration sufficient
Cu	Copper concentration sufficient
Al	Not essential for plant growth

Comments: