

EARLY GROWTH REPORT



SAMPLING DATE:	5/28/2021
GROWTH STAGE:	
REGISTRATION DATE:	2021-04-29 15:12:34

PRODUCER INFORMATION

Site ID:	NTS-1619730753
Registered By:	Howard Brown
Producer Name:	Gene Heap
Cell Phone:	0

SITE INFORMATION

Field Name:	Trust East - N
Acres:	155.0
Prev. Crop:	Soybean
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: 5/28/2021
 Date of Registration: 2021-04-29 15:12:34



PRODUCER INFORMATION

Site ID: NTS-1619730753
 Registered By: Clapper, Kurt
 Producer Name: Gene Heap
 Cell Phone:

SITE INFORMATION

Field Name: Trust East - N
 Acres: 155
 Prev. Crop: Soybean
 Expected Yield: 230

OTHER INFORMATION

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 Report Reviewer: Howard Brown
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PLANT-AVAILABLE N UPDATE

Sampling Date: 5/28/2021

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:

256 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	108.0	64.0	37.2%	172.0
5/28/2021	208.0	48.0	18.8%	256.0

NITROGEN APPLICATION HISTORY

Applied	N Source	Placement	Rate (N)	Enhancement

SOIL TEST RESULTS



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Sampling Date	SOIL		SOIL		Mg	Ca	Buffer							Zn	Mn		
	DEPTH	O.M.	P TEST	K TEST	TEST	TEST	SOIL Ph	pH	CEC	% K	% Mg	% Ca	% H	S TEST	TEST	TEST	B TEST
4/20/2021	0-1 FT.	3.4	45	3045	1179	6991	6	6.7	28.5	1.4	17.3	61.4	19.9	16	4.6	25	1.7
	1-2 FT.	2.6	10	317	1450	5980	6.7	7	22.8	1.8	26.5	65.6	6	11	3	34	1.4
5/28/2021	0-1 FT.	3.4	42	305	1149	6585	6	6.7	27.1	1.5	17.7	60.8	20	20	3.4	32	1.5
	1-2 FT.	3.0	15	272	1413	5951	6.5	7	23.5	1.5	25.1	63.4	10	8	2.6	43	1.2
	0-1 FT.																0
	1-2 FT.																0
SUFFICIENCY	0-1 FT.	S	S		S		L	H	L		S	L	S	S			
	1-2 FT.	L	S		S		L	H	L		L	L	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: 5/28/2021

P	Phosphorus concentration sufficient
K	Potassium concentration considered High
Mg	No Comments
Ca	No Comments
pH	Consider an application of lime in near future
S	Sulfur concentration considered Adequate
Zn	Consider 1 qt. Nutriblast Zn/Acre as a foliar treatment
Mn	Manganese concentration considered Adequate
B	Boron concentration considered Adequate

COMMON NUTRIENT RATIOS

Phosphorus/Zinc Ratio:	12
Acceptable Range:	25 - 154

BASE SATURATION DESIRED RANGE

% Potassium: 1.5	2-5%
% Magnesium: 17.7	10-15%
% Calcium: 60.8	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
5/28/2021	V5	WHOLE PLANT	3.99	0.28	0.39	4.43	0.29	0.65	0.00	16.00	33.0	60.0	1686.0	17.0	0.0

SUFFICIENCY	S	S	S	H	S	S		S	S	S	H	S	
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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: 5/28/2021

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: