

EARLY GROWTH REPORT



| | |
|--------------------|---------------------|
| SAMPLING DATE: | 6/2/2021 |
| GROWTH STAGE: | |
| REGISTRATION DATE: | 2021-04-05 10:03:30 |

PRODUCER INFORMATION

| | |
|----------------|----------------|
| Site ID: | NTS-1617638606 |
| Registered By: | Howard Brown |
| Producer Name: | John Reifsteck |
| Cell Phone: | 217-898-1142 |

SITE INFORMATION

| | |
|-----------------|---------|
| Field Name: | Pesotum |
| Acres: | 92.7 |
| Prev. Crop: | Soybean |
| Expected Yield: | 210 |

OTHER INFORMATION

| | |
|------------------|----------------|
| Crop Specialist: | Brokate, Haley |
| Report Reviewer: | Howard Brown |
| Sampler: | Howard Brown |
| Lab Used: | KSI LABS |

NITROGEN STATUS

| | |
|---------------------|--------------------------|
| PLANT: | ABOVE SUFFICIENCY |
| SOIL: | SUFFICIENT |
| OVERALL ASSESSMENT: | SUFFICIENT |
| LBS N TO APPLY: | 0 |

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 |

SULFUR STATUS

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

BORON STATUS

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

Current Sampling Date: 6/2/2021
 Date of Registration: 2021-04-05 10:03:30



PRODUCER INFORMATION

Site ID: NTS-1617638606
 Registered By: Brokate, Haley
 Producer Name: John Reifsteck
 Cell Phone:

SITE INFORMATION

Field Name: Pesotum
 Acres: 92.74
 Prev. Crop: Soybean
 Expected Yield: 210

OTHER INFORMATION

Crop Specialist: Brokate, Haley
 Report Reviewer: Howard Brown
 Sampler: Howard Brown
 Lab Used: KSI LABS

PLANT-AVAILABLE N UPDATE

Sampling Date: 6/2/2021

Projected Pounds of N/Acre Needed by Corn Crop:

210 Lbs. ← Plant uptake needed by maturity.

(Projected N requirement = Expected Yld x 1.1)

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

344 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 | 180.0 | 68.0 | 27.4% | 248.0 |
| 6/2/2021 | 312.0 | 32.0 | 9.3% | 344.0 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

NITROGEN APPLICATION HISTORY

| Applied | N Source | Placement | Rate (N) | Enhancement |
|------------|---------------|-----------|----------|-------------|
| 10/26/2020 | Anhydrous Am. | Injected | 161 | Other |
| | | | | |
| | | | | |

SOIL TEST RESULTS



PRODUCER INFORMATION

| | |
|----------------|----------------|
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| Sampling Date | SOIL DEPTH | SOIL O.M. | P TEST | K TEST | Mg TEST | Ca TEST | Buffer | | | | % K | % Mg | % Ca | % H | S TEST | Zn TEST | Mn TEST | B TEST |
|------------------------|------------|-----------|--------|--------|---------|---------|---------|-----|------|------|------|------|------|-----|--------|---------|---------|--------|
| | | | | | | | SOIL Ph | pH | CEC | % Ca | | | | | | | | |
| 4/20/2021 | 0-1 FT. | 2.7 | 60 | 258 | 662 | 4736 | 6.2 | 7 | 17.8 | 1.9 | 15.5 | 6.6 | 16 | 19 | 4.3 | 54 | 1.5 | |
| | 1-2 FT. | 2.4 | 16 | 298 | 1104 | 4900 | 6.2 | 7 | 20.5 | 1.9 | 22.5 | 59.8 | 15.8 | 15 | 2.3 | 56 | 1.3 | |
| 6/2/2021 | 0-1 FT. | 2.7 | 59 | 210 | 657 | 4537 | 6 | 6.8 | 17.9 | 1.6 | 15.3 | 63.4 | 19.7 | 22 | 3.8 | 54 | 1.3 | |
| | 1-2 FT. | 2.3 | 14 | 232 | 1173 | 5123 | 6.2 | 7 | 21.4 | 1.4 | 22.9 | 59.9 | 15.8 | 15 | 1.6 | 45 | 1.3 | |
| | 0-1 FT. | | | | | | | | | | | | | | | | | 0 |
| | 1-2 FT. | | | | | | | | | | | | | | | | | 0 |
| SUFFICIENCY | 0-1 FT. | H | L | | S | | L | H | L | | S | L | S | S | | | | |
| | 1-2 FT. | L | L | | S | | L | H | L | | S | 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: 6/2/2021

| | |
|----|---|
| P | Phosphorus concentration above sufficiency |
| K | Low - Revisit soil test K levels |
| 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: | 16 |
| Acceptable Range: | 25 - 154 |

BASE SATURATION DESIRED RANGE

| | | |
|--------------|------|--------|
| % Potassium: | 1.6 | 2-5% |
| % Magnesium: | 15.3 | 10-15% |
| % Calcium: | 63.4 | 65-75% |

L = LOW S = SUFFICIENT H = HIGH

TISSUE TEST RESULTS



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Expected Yield: 210

OTHER INFORMATION

Crop Specialist: Brokate, Haley
Report Reviewer: Howard Brown
Sampler: Howard Brown
Lab Used: KSI LABS

| Sampling Date | GROWTH STAGE | PART HARVESTED | Percent (%) | | | | | | | Parts per Million (ppm) | | | | | |
|---------------|--------------|----------------|-------------|------|------|------|------|------|------|-------------------------|------|------|-------|------|-----|
| | | | N | S | P | K | Mg | Ca | Na | B | Zn | Mn | Fe | Cu | Al |
| 6/2/2021 | V4 | WHOLE PLANT | 4.72 | 0.25 | 0.35 | 2.65 | 0.34 | 0.57 | 0.00 | 11.00 | 33.0 | 83.0 | 991.0 | 14.0 | 0.0 |

| | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|--|---|---|---|---|---|--|
| SUFFICIENCY | H | 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: 6/2/2021

| | |
|----|--|
| 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: