BioEnt – Early Season Survey  

Gary Manley 269-273-7070 or 269-816-1080

Seed Corn □ Corn □ Soybeans □ Wheat □ Grower □ Date 7/12/2014

Field Name/Number: TMS

General Appearance: Good Size: 8 Variance: OK Leaf Color: OK Variance: OK

Plant Population: OK Soil Moisture: 0-12 65% 12+ 70 %AWC

Vigor: □ Good □ OK □ Poor □ General □ Spotty

Stress: □ Heat □ Moisture □ Nitrogen □ General □ Spotty

Stress-Chlorophyll: □ None □ Low □ High □ General □ Spotty

Weed Control: □ Good □ OK □ Poor □ Spotty □ Dense Spots

Grasses □ Broadleaves □ Perennials

ACTION:

□ None Required

□ Watch

□ Yes, see comments

Comments:

U16/17 - Close to tassel emergence

Low level of scattered flower leaf yellow (1-2 leaves)

Few scattered corn leaf miners & midge bug feeding.

Annual Grasses AG

Foxtail F

Panica - Fall FP

Quack grass QG

Wirestem Muhly WM

Field Sandbur FS

Crabgrass CG

Johnsongrass JG

Shattercane SCA

Nutsedge NS

Winter Annuals WA

Chickweed CW

Biennials WB

Cover Crop CC

Velvetleaf VL

Cocklebur CBUR

Milkweed CM

Pigweed RRP

Horsenettle HN

Bindweed - Field FBW

Bindweed - Hedge HBW

Smartweed - Penn. PSM

Smart - Swamp SSM

Dogbane - Hemp HDB

Lambquartier LQU

Ragweed CRAG

Ragweed - Giant GRAG

Dock - Curly CD

Nightshade - Black BNS

Jimsonweed JW

Canada Thistle CTH

Yellow Rocket YR

Perennials P

Pokeweed PW

Germination □ No □ 1/4” Root □ Spike PE

Emergence □ Breaking □ VC / V1

Nutrient Deficiency □ Spots □ General

Soil Compaction: □ Soil Surface:

□ Spots □ General □ Hard □ Crushed

Standing Water □ Small Spots □ Large Spots

Herbicide damage □ Emergence stress

Physiological Disorder in Corn □ Yellowish whorl

□ Buggiwip □ Stalk bending □ Twisted whorl

Doubles ____ %

Density □ Variance

Growth □ Variance

Plant spacing □ Variance

□ Emergence □ Variance

□ Soil Temperature 2”

Cutworms □ White Grubs □ Seed Corn Maggots

Armyworms □ Aphids □ Foliar Disease - Rust

Stalkborers □ Slugs □ Foliar Disease - Fungi

Wireworms □ Leafhoppers □ Corn Borer - %

□ Stunted plants

Root Damage □ Insects □ Plants

□ Diseases □ Purplish

□ Yellowish □ Nematodes

□ Stunting
BioEnt – Early Season Survey

Grower: JMSY
Date: 7/12/2014

Field Name/Number: 7AE
Growth Stage: 7AE

General Appearance: OK
Size: UT
Variance: OK
Leaf Color: OK
Variance: 0.4

Plant Population: OK
Soil Moisture: 0-12 65/65, 12+ 70

Vigor: Good
Stress: None
Weed Control: Good

ACTION:
None Required
Watch
Yes, see comments

Comments:

8' Range
VT Tassel emergence
Early Silk emergence
Early pollination

Scattered spots with lower head yellowing

No disease noted
Few Corn: Headmines (very low level)

Germination: No
Soil Compaction: Spots
Nutrient Deficiency: Spots

Cutworms
Armyworms
Stalk borers
Wireworms
Spider mites
White Grubs
Flea Beetles
Aphids
Slugs
Leafhoppers
Seed Corn Maggots
Foliar Disease-Rust
Foliar Disease-Fungi
Corn Borer-%
Stunted plants

Root Damage
Insects
Diseases
Nematodes

Purplish
Yellowish

Plants

Emergence
No 1/4" Root
Breaking
VC/V1

Variance

Soil Temperature
2°
BioEnt – Early Season Survey  

Gary Manley 269-273-7070 or 269-816-1080

- Seed Corn
- Corn Soybeans
- Wheat
- Grower 21554
- Date 7/15/2014
- Field Name/Number J3R
- Growth Stage V.1
- General Appearance OK
- Size 6
- Variance OK
- Leaf Color OK
- Variance OK
- Plant Population OK
- Soil Moisture 0-12 65170
- 12+ 78
- % AWC

ACTION:
- None Required
- Watch
- Yes, see comments

Comments:

V.14 4 leaves or ears Tassel

6’ Tall Range

Lower leaf yellowing due to lack of Nitrogen general

To be leaf common

Corn Rootworm Active (Adult) very low population

- Cutworms
- Armyworms
- Stalk borers
- Wireworms
- Spider mites

- White Grubs
- Flea beetles
- Aphids
- Slugs
- Leafhoppers

- Seed Corn Maggots
- Foliar Disease-Rust
- Foliar Disease-Fungi
- Corn Borer-%
- Stunted plants

- Root Damage
- Insects
- Diseases
- Nematodes

- Plants
- Purplish
- Yellowish
BioEnt – Early Season Survey  
Gary Manley 269-273-7070 or 269-816-1080

Seed Corn  Corn  Soybeans  Wheat  Grower: MS  Date: 7/17/2014  
Field Name/Number: T4R5  Growth Stage: V8

General Appearance: OK  Size: 2'  Variance: OK  Leaf Color: OK  Variance: OK  
Plant Population:  OK  Soil Moisture: 0-12% 70% 12+ 75% AWC

Vigor:  Good  OK  Poor  General  Spotty  
Stress:  Heat  Moisture  Nitrogen  General  Spotty  
Stress-Chlorophyll:  None  Low  High  General  Spotty

Weed Control:  Good  OK  Poor  Spotty  Dense Spots  Grasses  Broadleaves  Perennials

ACTION:  None Required  
Watch  Yes, see comments

Comments:

2 V8
Scattered AG/GRAC (Weeds)
Mind Aug. Leaf feeding common throughout plot

Corn Leaf Miner scattered

Germination: No  1/4" Root: Spike PE
Emergence: Breaking  VC/V1
Nutrient Deficiency: Spots  General
Soil Compaction:  Spots  General  Hard  Crusted
Standing Water: Small Spots  Large Spots
Herbicide damage: Emergence stress
Physiological Disorder in Corn: Yellowish whorl
Doubles:  Buggypip  Stalk bending  Twisted whorl
Density:  OK  Variance
Growth:  OK  Variance
Plant spacing:  Variance
Emergence:  Variance
Soil Temperature: 2°

Root Damage:  Insects  Purplish
Diseases:  Yellowish  
Nematodes:  Stunting
**BioEnt – Early Season Survey**

**Grower:** MSA  
**Date:** 7/17/2011

**Field Name/Number:** T6 R5  
**Growth Stage:** Alfalfa

**General Appearance:** Good  
**Size:** 6-8”  
**Variance:** Ok  
**Leaf Color:** Good  
**Variance:** Ok  

**Plant Population:** Ok  
**Soil Moisture:** 0-12  
**75% AWC  
**12+ 80% AWC:**

**ACTION:**
- None Required
- Watch
- Yes, see comments

**Comments:**
Alfalfa looks normal. Require normal growth.
Very low insect pressure – Few scars found on hypocotyls.

---

<table>
<thead>
<tr>
<th>Vigor:</th>
<th>Good</th>
<th>OK</th>
<th>Poor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stress:</td>
<td>Heat</td>
<td>Moisture</td>
<td>Nitrogen</td>
</tr>
<tr>
<td>Stress-Chlorophyll:</td>
<td>None</td>
<td>Low</td>
<td>High</td>
</tr>
<tr>
<td>Weed Control:</td>
<td>Good</td>
<td>OK</td>
<td>Poor</td>
</tr>
<tr>
<td>Grasses</td>
<td>Broadleaves</td>
<td>Perennials</td>
<td></td>
</tr>
</tbody>
</table>

| Annual Grasses AG | Pigweed RRP |
| Foxtail F | Horseradish HN |
| Panicum -Fall FP | Bindweed -Field FBW |
| Quack grass QG | Bindweed -Hedge HBW |
| Wirestem Muhly WM | Smartweed -Penn. PSM |
| Field Sandbur FS | Smart -Swamp SSM |
| Crabgrass CG | Dogbane -Hemp HDB |
| Johnsongrass JG | Lamb-quarters LQ |
| Shattercane SCA | Ragweed CRAG |
| Nutsedge NS | Ragweed -Giant GRAG |
| Winter Annuals WA | Dock -Curly CD |
| Chickweed CW | Nightshade -Black BNS |
| Biennials WB | Jimsonweed JW |
| Cover Crop CC | Canada Thistle CTH |
| Velvetleaf VL | Yellow Rocket YR |
| Cocklebur CBUR | Perennials P |
| Milkweed CM | Pokeweed PW |

**Germination:** No  
**Emergence:** Breaking  
**Nutrient Deficiency:** Spots  
**Soil Compaction:**  
- Spots  
- General  
**Standing Water:**  
- Small Spots  
- Large Spots  
**Herbicide damage:**  
**Physiological Disorder in Corn:**  
- Yellowish whorl  
- Buggywip  
**Doubles:** %  
**Density:** Ok  
**Growth:** Variance  
**Plant spacing:** Variance  
**Emergence:** Variance  
**Soil Temperature:** 2”

<table>
<thead>
<tr>
<th>Cutworms</th>
<th>Root Damage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Armyworms</td>
<td>Insects</td>
</tr>
<tr>
<td>Stalk borers</td>
<td>Diseases</td>
</tr>
<tr>
<td>Wireworms</td>
<td>Yellowish</td>
</tr>
<tr>
<td>Spider mites</td>
<td>Nematodes</td>
</tr>
<tr>
<td>White Grubs</td>
<td>Stunting</td>
</tr>
<tr>
<td>Seed Corn Maggots</td>
<td></td>
</tr>
<tr>
<td>Foliar Disease-Rust</td>
<td></td>
</tr>
<tr>
<td>Foliar Disease-Fungi</td>
<td></td>
</tr>
<tr>
<td>Corn Borers-%</td>
<td></td>
</tr>
<tr>
<td>Stunted plants</td>
<td></td>
</tr>
<tr>
<td>Root Damage</td>
<td>Plants</td>
</tr>
</tbody>
</table>
BioEnt – Early Season Survey

Seed Corn ❌ Corn □ Soybeans □ Wheat □ Grower MSU Date 7/17/2014

Rate Irrigated

General Appearance □ Poor □ Size OK □ Variance OK □ Leaf Color OK □ Variance OK

Plant Population OK Soil Moisture 0-12 45/70 12+ 75 %AWC

Vigor: □ Good □ OK □ Poor □ General □ Spotty
Stress: □ Heat □ Moisture □ Nitrogen □ General □ Spotty
Stress-Chlorophyll: □ None □ Low □ High □ General □ Spotty
Weed Control: □ Good □ OK □ Poor □ Spotty □ Dense Spots
□ Grasses □ Broadleaves □ Perennials

ACTION:
□ None Required
□ Watch
□ Yes, see comments

Comments:

8' 1.5/16 Range
growth & development normal.
Start irrigation this week if no rain Friday.

Low Nitrogen/lower leaf green.
F, F2 & F3 plots

□ Germination □ No □ 1/4” Root □ Spike PE
□ Emergence □ Breaking □ VC/V1
□ Nutrient Deficiency □ Spots □ General ______
□ Soil Compaction:
□ Soil Surface:
□ Spots □ General □ Hard □ Crusted
□ Standing Water □ Small Spots □ Large Spots
□ Herbicide damage □ Emergence stress
□ Physiological Disorder in Corn □ Yellowish whorl
□ Buggywip □ Stalk bending □ Twisted whorl
□ Doubles ______ %
□ Density □ Variance ______
□ Growth □ OK □ Variance 0.5:
□ Plant spacing □ Variance ______
□ Emergence □ Variance ______
□ Soil Temperature 2°

□ Cutworms □ White Grubs □ Seed Corn Maggots
□ Armyworms □ Flea Beetles □ Foliar Disease-Rust
□ Stalkborers □ Aphids □ Foliar Disease-Fungi
□ Wireworms □ Slugs □ Corn Borer-%
□ Spider mites □ Leafhoppers □ Stunted plants

□ Root Damage □ Insects □ Plants
□ Insects □ Diseases □ Purplish
□ Diseases □ Yellowish □ Nematodes
□ Yellowish □ Stunting

© 2004
**BioEnt – Early Season Survey**

<table>
<thead>
<tr>
<th>Field Name/Number</th>
<th>Rate: Non-Irrigated</th>
<th>Growth Stage</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Appearance: Good</td>
<td>Size: OK</td>
<td>Variance: OK</td>
</tr>
<tr>
<td>Leaf Color: OK</td>
<td>Variance: OK</td>
<td></td>
</tr>
</tbody>
</table>
| Plant Population: OK | Soil Moisture: 0-12%

- Vigor: Good
- Stress: Moisture
- Stress-Chlorophyll: None
- Weed Control: Good

**ACTION:**
- None Required
- Watch
- Yes, see comments

**Comments:**

- 8/15/16 Range
- Growth development normal
- Low nitrogen lowered leaf yellowing

**N**

- Annual Grasses AG
- Foxtail F
- Panicum - Fall FP
- Quack grass QG
- Wirestem Muhly WM
- Field Sandbur FS
- Crabgrass CG
- Johnsongrass JG
- Shattercane SCA
- Nutsedge NS
- Winter Annuals WA
- Chickweed CW
- Biennials WB
- Cover Crop CC
- Velvetleaf VL
- Cocklebur CBUR
- Milkweed CM
- Pigweed RRP
- Horsetail HN
- Bindweed - Field FBW
- Bindweed - Hedge HBW
- Smartweed - Penn. PSM
- Smart - Swamp SSM
- Dogbane - Hemp HDB
- Lambquarter LOU
- Ragweed CRAG
- Ragweed - Giant GRAG
- Dock - Curly CD
- Nightshade - Black BNS
- Jimsonweed JW
- Canada Thistle CTH
- Creeping Charlie
- Yellow Rocket YR
- Perennials P
- Pokeweed PW

**W**

- Germination
- No
- 1/4” Root
- Spike PE
- Emergence
- Breaking
- VC/V1
- Nutrient Deficiency
- Spots
- General
- Soil Compaction:
- Spots
- General
- Hard
- Crusted
- Standing Water
- Small Spots
- Large Spots
- Herbicide damage
- Emergence stress
- Physiological Disorder in Corn
- Yellowish whorl
- Buggywip
- Stalk bending
- Twisted whorl
- Doubles %
- Density
- Variance
- Growth
- Variance
- Plant spacing
- Variance
- Emergence
- Soil Temperature 2°

**S**

- Cutworms
- Armyworms
- Stalk borers
- Wireworms
- Spider mites
- White Grubs
- Flea Beetles
- Aphids
- Slugs
- Leaf hoppers
- Seed Corn Maggots
- Foliar Disease - Rust
- Foliar Disease - Fungi
- Corn Borers %
- Stunted plants

**E**

- Root Damage
- Plants
- Insects
- Diseases
- Yellowish
- Nematodes
- Stunting