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

Date: 5/24/2019

Field Name/Number: John
Growth Stage: 10-10-4

General Appearance: 

Plant Population: 

Soil Moisture: 0-12

ACTION: 

Comments:

Flag leaf emerged. Control fungi disease.

Corn growth good.

Vigor: [ ] Good [ ] OK [ ] Poor
Stress: [ ] Heat [ ] Moisture [ ] Nitrogen
Stress-Chlorophyll: [ ] None [ ] Low [ ] High
Weed Control: [ ] Good [ ] OK [ ] Poor [ ] Spotty [ ] Dense Spots

Annual Grasses AG
Foxtail F
Panicum -Fall FP
Quack grass QG
Wirestem Muhly WM
Marestail MT
Crabgrass CG
Johnsongrass JG
Shatercane 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 SSN
Dogbane -Hemp HDB
Lambsquarter 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: [ ] Breaking [ ] VC / V1
Nutrient Deficiency: [ ] General [ ] Spotty
Soil Compaction: [ ] General [ ] Hard [ ] Crusted
Soil Surface: [ ] General [ ] Spots [ ] Small Spots
Soil Surface: [ ] General [ ] Small Spots [ ] Large Spots
Standing Water: [ ] Emergence stress
Herbicide damage: [ ] Emergence stress
Physiological Disorder in Corn: [ ] Yellowish whorl
Physiological Disorder in Corn: [ ] Buggywip [ ] Stalk bending [ ] Twisted whorl
Doubles: [ ] %
Density: [ ] %
Growth: [ ] %
Plant spacing: [ ] %
Emergence: [ ] %
Soil Temperature: 2°

Cutworms CW
Armyworms AW
Stalkborers SB
Wireworms WW
Spider Mites SM
White Grubs WG
Flea Beetles FB
Aphids A
Slugs S
Leafhoppers LH
Seed Corn Maggots
Foliar Disease-Rust
Foliar Disease-Fungi
Corn Borer-%
Stunted plants

Root Damage: [ ] Insects [ ] Plants
Insects: [ ] Purplish [ ] Yellowish
Diseases: [ ] Purplish [ ] Yellowish
Nematodes: [ ] Stunting
Stunting: [ ] %

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4

2
# BioEnt – Early Season Survey

**Date:** 5/31/2019

**Grower:** [Signature]

**Growth Stage:** 0.4

## General Appearance
- **Size:** 24" (Variance 90%)
- **Leaf Color:** Good (Variance 90%)

## Plant Population
- **Soil Moisture:** 0-12 (Variance 80%), 12-24 (Variance 85%), 24+ (Variance 80%)

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

### Stress:
- Heat □
- Moisture □
- Nitrogen □
- General □
- Spotty □
- Low □
- High □

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

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

### Comments:

Cereal leaf beetles

Low level. Adults/larvae

Control C&B if needed.

Population current

Below threshold.

### ACTION:
- Flag leaf open
- None Required □
- Watch □
- Control diseases □
- Yes, see comments □

## Weed List

- Annual Grasses AG
- Foxtail F
- Panicum -Fall FP
- Quack grass QG
- Wirestem Muhly WM
- Marestail MT
- Crabgrass CG
- Johnsongrass JG
- Shatercane 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
- Lambsquarter LQU
- Ragweed CRAG
- Ragweed -Giant GRAG
- Dock -Curly CD
- Nightshade -Black BNS
- Jimsonweed JW
- Canada Thistle CTH
- Yellow Rocket YR
- Perennials P
- Pokeweed PW

## Other Issues

- Germination □
- 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 □
- Growth □
- Variance □
- Plant spacing □
- Variance □
- Emergence □
- Variance □
- Soil Temperature □

- Cutworms CW □
- White Grubs WG □
- Seed Corn Maggots □
- Foxtail F □
- Flea Beetles FB □
- Aphids A □
- Slugs S □
- Leafhoppers LH □
- Root Damage □
- Insects □
- Diseases □
- Purplish □
- Yellowish □
- Nematodes □
- Stunting □

**Field Name/Number:** [Field Number]

**Seed Corn □**
**Corn □**
**Soybeans □**
**Wheat □**
**Green Beans □**

**Items marked as checked in the bioent form:**
- Seed Corn Maggots
- Foxtail F
- Flea Beetles FB
- Aphids A
- Slugs S
- Leafhoppers LH
- Cutworms CW
- White Grubs WG
- Root Damage
- Insects
- Diseases
- Purplish
- Yellowish
- Nematodes
- Stunting
## BioEnt – Early Season Survey

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

- **Field Name/Number:** T3R J
- **Grower:** May
- **Growth Stage:** 10-6-10c
- **General Appearance:** Good
- **Size:** 20-24"
- **Plant Population:**
- **Soil Moisture:** 0-12
- **Variance:** 12-24
- **%AWC:** 85+

### 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:
- Flag Hay open
- Watch
- Time to spray
- No
- Spotty
- Dense Spots
- Flag Hay open
- Yes, see comments

### Comments:
- Cereal leaf beetle - Adults: Low level scattered
- Adult larvae:

### Populations currently below threshold.

### Germination:
- No
- 1/4" Root
- Spike PE

### Emergence:
- Breaking
- VC / V1

### Nutrient Deficiency:
- General

### Soil Compaction:
- Hard
- Crusted

### Soil Moisture:
- Spots
- General

### 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:
- Good
- Variance

### Plant spacing:
- Variance

### Emergence:
- Variance

### Soil Temperature:

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### Insects:
- Cutworms CW
- Armyworms AW
- Stalkborders SB
- Wireworms WW
- Spider Mites SM
- White Grubs WG
- Flea Beetles FB
- Aphids A
- Slugs S
- Leafhoppers LH
- Seed Corn Maggots
- Foliar Disease-Rust
- Foliar Disease-Fungi
- Corn Borer-%
- Stunted plants

### Diseases:
- Corn Borer-

### Nematodes:

### Stunting:

---

### Plants:
- Purplish
- Yellowish
- Yellow Rocket YR
- Perennials P
- Pokeweed PW

### Weeds:
- Annual Grasses AG
- Foxtail F
- Panicum -Fall FP
- Quack grass QG
- Wirestem Muhly WM
- Marestail MT
- Crabgrass CG
- Johnsongrass JG
- Shatercane 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
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- Smart -Swamp SSM
- Dogbane -Hemp HDB
- Lambsquarter LQU
- Ragweed CRAG
- Ragweed -Giant GRAG
- Dock -Curly CD
- Nightshade -Black BNS
- Jimsonweed JW
- Canada Thistle CTH
- Yellow Rocket YR
- Perennials P
- Pokeweed PW

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### Other:
- Pigweed RRP
- Horsenettle HN
- Bindweed -Field FBW
- Bindweed -Hedge HBW
- Smartweed -Penn. PSM
- Smart -Swamp SSM
- Dogbane -Hemp HDB
- Lambsquarter LQU
- Ragweed CRAG
- Ragweed -Giant GRAG
- Dock -Curly CD
- Nightshade -Black BNS
- Jimsonweed JW
- Canada Thistle CTH
- Yellow Rocket YR
- Perennials P
- Pokeweed PW
**BioEnt – Early Season Survey**  
Gary Manley 269-273-7070 or 269-816-1080

- **Field Name/Number:** TYR  
- **Grower:** MY  
- **Growth Stage:** 8-9

**General Appearance:** OK  
**Size:** 12  
**Variance:** Fair  
**Leaf Color:** Mixed  
**Variance:** Mixed

**Plant Population:** OK  
**Soil Moisture:** 0-12

**Vigor:** Good  
**Stress:** Heat  
**Stress-Chlorophyll:** None

**Weed Control:** Good  
**Soil Compaction:**  
**Emergence:** Breaking  
**Soil Temperature:** 2°

**ACTION:**  
1. Flag leaf open  
2. 4-5 days

**Comments:**  
- Good Corn Crop development
- WEEDS general CRAB Common
- LQU-Scattered
- N mixed yellowish to light green

- Annual Grasses AG
- Foxtail F
- Panicum -Fall FP
- Quack grass QG
- Wirestem Muhly WM
- Marestail MT
- Crabgrass CG
- Johnsongrass JG
- Shattercane SCA
- Nutsedge NS
- Winter Annuals WA
- Chickweed CW
- Biennials WB
- Cover Crop CC
- Velvetleaf VL
- Cocklebur CBUR
- Milkweed CM
- Annual Grasses AG
- Foxtail F
- Panicum -Fall FP
- Quack grass QG
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- Dock -Curly CD
- Nightshade -Black BNS
- Jimsonweed JW
- Canada Thistle CTH
- Yellow Rocket YR
- Perennials P
- Pokeweed PW

**Nutrient Deficiency:** No
**1/4" Root:** Spike PE
**Breaking:** VC / V1

**Emergence:** No
**Soil Compaction:** Spots
**Soil Surface:** General

- **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:**
- **Growth:**
- **Plant spacing:**
- **Emergence**
- **Soil Temperature:**

- **Cutworms CW**
- **White Grubs WG**
- **Seed Corn Maggots**
- **Foliar Disease-Rust**
- **Foliar Disease-Fus**
- **Corn Borer-%**
- **Stunted plants**

- **Boot Damage**
- **Insects**
- **Plants**
- **Diseases**
- **Yellowish**
- **Nematodes**
- **Stunting**
BioEnt – Early Season Survey

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

Date 5/31/2017

Ⅱ None Required
Ⅱ Watch
Yes, see comments

Field Name/Number
Grower
Growth Stage 10

General Appearance
Seed Size

Variance

Leaf Color

Variance

Plant Population
Soil Moisture 0-12

12-24

85

24+

%AWC

ACTION:

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

Comments:

Cereal leaf Beetles
Adults/ Larvae

Color variance on low
1/2 plots.

Annual Grasses AG
 Foxtail F
 Panicum -Fall FP
 Quack grass QG
 Wirestem Muhly WM
 Marestail MT
 Crabgrass CG
 Johnsongrass JG
 Shattercane SCA
 Nutsedge NS
 Winter Annuals WA
 Chickweed CW
 Biennials WB
 Cover Crop CC
 Velvetleaf VL
 Cocklebur CBUR
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 Smartweed -Penn. PSM
 Smart -Swamp SSM
 Dogbane -Hemp HDB
 Lambquarter 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 □ 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 □ Variance

Soil Temperature □ 2°

Cutworms CW
 Armyworms AW
 Stalkborers SB
 Wireworms WW
 Spider Mites SM

White Grubs WG
 Flea Beetles FB
 Aphids A
 Slugs S
 Leafhoppers LH

Seed Corn Maggots
 Foliage Disease-Rust
 Foliage Disease-Fung
 Corn Borer-%
 Stunted plants

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

Insects

Diseases

Nematodes

Stunting
BioEnt – Early Season Survey  Gary Manley 269-273-7070 or 269-816-1080

Field Name/Number  Grower  Growth Stage  Date: 5/31/2019
General Appearance  Size  % Variance  Leaf Color  % Variance
Plant Population  Soil Moisture 0-12 12-24 24+  %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

Comments:
Cereal Leaf Beetles low level / Adults / Larvae
Color variance on low % plots

ACTION:
☒ None Required
☑ Watch
☒ Yes, see comments

☑ Annual Grasses AG
☐ Foxtail F
☐ Panicum -Fall FP
☐ Quack grass QG
☐ Wiredstem Muhly WM
☐ Marestail MT
☐ Crabgrass CG
☐ Johnsongrass JG
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☐ 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 ☐ Small Spots ☐ Large Spots
☐ Soil Compaction: ☐ Soil Surface:
☐ Spots ☐ General ☐ Hard ☐ Crusted
☐ Standing Water ☐ Buggysip ☐ Stalk bending ☐ Twisted whorl
☐ Herbicide damage ☐ Emergence stress
☐ Physiological Disorder in Corn ☐ Yellowish whorl
☐ Doubles ☐ Density ☐ % Variance
☐ Growth ☐ Plant spacing ☐ Variance
☐ Emergence ☐ Variance
☐ Soil Temperature 2"
**BioEnt – Early Season Survey**

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

<table>
<thead>
<tr>
<th>Field Name/Number</th>
<th>Grower</th>
<th>Growth Stage</th>
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<tbody>
<tr>
<td>C6F7</td>
<td>2754</td>
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<table>
<thead>
<tr>
<th>General Appearance</th>
<th>Size</th>
<th>Variance</th>
<th>Leaf Color</th>
<th>Variance</th>
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<thead>
<tr>
<th>Vigor:</th>
<th>□ Good</th>
<th>□ OK</th>
<th>□ Poor</th>
<th>□ General</th>
<th>□ Spotty</th>
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<th>□ Heat</th>
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<th>Stress-Chlorophyll:</th>
<th>□ None</th>
<th>□ Low</th>
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<th>Weed Control:</th>
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<th>□ Poor</th>
<th>□ Spotty</th>
<th>□ Dense Spots</th>
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<thead>
<tr>
<th>Grasses</th>
<th>Broadleaves</th>
<th>Perennials</th>
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</thead>
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<th>Pigweed RRP</th>
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<tbody>
<tr>
<td>Foxtail F</td>
<td>Horsenettle HN</td>
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<tr>
<td>Panicum -Fall FP</td>
<td>Bindweed -Field FBW</td>
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<tr>
<td>Milkweed CM</td>
<td>Pokeweed PW</td>
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<table>
<thead>
<tr>
<th>Germination</th>
<th>□ No</th>
<th>□ 1/4&quot; Root</th>
<th>□ Spike PE</th>
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<tbody>
<tr>
<td>Emergence</td>
<td>□ No</td>
<td>□ Breaking</td>
<td>□ VC / V1</td>
</tr>
<tr>
<td>Nutrient Deficiency</td>
<td>□ No</td>
<td>□ Small Spots</td>
<td>□ Large Spots</td>
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<tr>
<th>Soil Compaction:</th>
<th>□ Soil Surface:</th>
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<tbody>
<tr>
<td></td>
<td>□ Spots</td>
</tr>
<tr>
<td>Standing Water</td>
<td>□ Hard</td>
</tr>
<tr>
<td>Herbicide damage</td>
<td>□ Emergence stress</td>
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</tr>
<tr>
<td>Soil Temperature</td>
<td>□ 2&quot;</td>
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</table>

<table>
<thead>
<tr>
<th>Root Damage</th>
<th>□ Insects</th>
<th>□ Plants</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>□ Purplish</td>
<td>□ Plants</td>
</tr>
<tr>
<td></td>
<td>□ Yellowish</td>
<td>□ Diseases</td>
</tr>
<tr>
<td></td>
<td>□ Stunted</td>
<td>□ Yellowish</td>
</tr>
</tbody>
</table>

**Comments:**

Control weeds before planting.