### BioEnt – Early Season Survey

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

**Grower**: [Blank]

**Date**: 5/18/2017

**Growth Stage**: [Blank]

**Seed Corn**

**General Appearance**

<table>
<thead>
<tr>
<th>Size</th>
<th>Variance</th>
<th>Leaf Color</th>
<th>Variance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</table>

**Plant Population**

<table>
<thead>
<tr>
<th>Soil Moisture</th>
<th>%AWC</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-12</td>
<td>70</td>
</tr>
<tr>
<td>12+</td>
<td>75</td>
</tr>
</tbody>
</table>

**Vigor**

- Good
- OK
- Poor

**Stress**

- Heat
- Moisture
- Nitrogen

**Stress-Chlorophyll**

- None
- Low
- High

**Weed Control**

- Good
- OK
- Poor
- Spotty
- Dense Spots

**ACTION:**

- None Required
- Watch
- Yes, see comments

**Comments:**

- Planted 5/16/17
- Field clean
- Conditions for emergence good

---

**Germination**

- No

**Emergence**

- Breaking

**Nutrient Deficiency**

- Spots

**Soil Compaction**

- Spots

**Soil Surface**

- General

**Standing Water**

- Small Spots

**Herbicide damage**

- Large Spots

**Physiological Disorder in Corn**

- Yellowish whorl

**Doubles**

- %

**Density**

- Variance

**Growth**

- Variance

**Plant spacing**

- Variance

**Emergence**

- Variance

**Soil Temperature**

- 2°

**Weeds**

- Annual Grasses AG
- Foxtail F
- Panicum -Fall FP
- Quack grass QG
- Wirestern Muhly WM
- Field Sandbur FS
- 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
- Lambquarters LQU
- Ragweed CRAG
- Ragweed -Giant GRAG
- Dock -Curly CD
- Nightshade -Black BNS
- Jimsonweeds JW
- Canada Thistle CTH
- Yellow Rocket YR
- Perennials P
- Pokeweed PW
- Annual Grasses AG
- White Grubs
- Flea Beetles
- Aphids
- Slugs
- Leathoppers
- Seed Corn Maggots
- Foliar Disease-Rust
- Foliar Disease-Fungi
- Corn Borer-%
- Stunted plants
- Root Damage
- Insects
- Diseases
- Yellowish
- Nematodes
- Stunting
BioEnt – Early Season Survey

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

[Survey Details]

Field Name/Number: T2R1
Grower: MCM
Date: 5/18/2017

General Appearance
Size
Variance
Leaf Color
Variance
Plant Population
Soil Moisture

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:
[Options: None Required □ Watch □ Yes, see comments]

Comments:
Planted 5/15/17
Field clean of weeds
Emergence condition good
T2R Reps 1, 2, 3 were planted on May 15, 2017

T2Rb
early spike
Planting date: 5/10/17
T2R 4, T2R5, and T2R6 were planted on May 10, 2017

□ 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
□ Diseases □ Purplish □ Yellowish
□ Nematodes □ Stunting

[More Detailed Comments and Observations]
BioEnt – Early Season Survey  Gary Manley 269-273-7070 or 269-816-1080

Field Name/Number _____ T3 R _____

General Appearance ______ Size ______ Variance ______ Leaf Color ______ Variance ______

Plant Population ______ Soil Moisture 0-12 ______ 7 ______ 12+ ______ 25 ______ %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:

Clover tilled under
CORN not planted

□ 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
□ Velveteen VL
□ Cocklebur CBUR
□ Milkweed CM
□ Pigweed RRP
□ Horsenettle HN
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□ Dock -Curly CD
□ Nightshade -Black BNS
□ Jimsonweed JW
□ Canada Thistle CTH
□ Yellow Rocket YR
□ Perennials P
□ Poxweed 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"

□ Root Damage □ Plants
□ Insects □ Diseases □ Yellowish
□ Nematodes □ Stunting
### BioEnt – Early Season Survey

**Grower: 222543**  
**Date: 5/18/2017**

#### Field Name/Number

**TYR1**

### General Appearance

**Size**

<table>
<thead>
<tr>
<th>Variance</th>
<th>Leaf Color</th>
<th>Variance</th>
<th>%AWC</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE</td>
<td>0-12</td>
<td>70</td>
<td>75</td>
</tr>
</tbody>
</table>

### 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:

**Standing corn has been cut. Not planted yet. Not tilled yet.**

<table>
<thead>
<tr>
<th>Weed Control</th>
<th>Annual Grasses AG</th>
<th>Oxalis F</th>
<th>Panicum -Fall FP</th>
<th>Quack grass QG</th>
<th>Wiresic Muhly WM</th>
<th>Field Sandbur FS</th>
<th>Crabgrass CG</th>
<th>Johnsongrass JG</th>
<th>Shattercane SCA</th>
<th>Nutsettle NS</th>
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<th>Chickweed CW</th>
<th>Biannials WB</th>
<th>Cover Crop CC</th>
<th>Velvetleaf VL</th>
<th>Cocklebur CBUR</th>
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- Good
- OK
- Poor
- Spotty
- Dense Spots
- Grasses
- Broadleaves
- Perennials

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<thead>
<tr>
<th>Density</th>
<th>Variance</th>
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<thead>
<tr>
<th>Soil Compaction</th>
<th>Soil Surface</th>
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<tbody>
<tr>
<td>Spots</td>
<td>General</td>
</tr>
<tr>
<td>General</td>
<td>Hard</td>
</tr>
<tr>
<td>Crusted</td>
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### Action

- None Required
- Watch
- Yes, see comments

### Comments

- Standing corn has been cut. Not planted yet. Not tilled yet.

### Additional Observations

- 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
- Variance
- Soil Temperature
  - 2"
BioEnt – Early Season Survey  
Gary Manley 269-273-7070 or 269-816-1080

Seed Corn ☐  Corn ☐  Soybeans ☐  Wheat ☐

Grower Name: Alfalfa
Date: 5/18/17

Field Name/Number: 4021

General Appearance: Good  Size: 4-16"  Variance: 0

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

Afternoon: 

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

Comments:

Alfalfa weevil: harva  3rd inst now mostly
1.5/sweep
Few minors bugs (low level)

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

Germination: ☐ No  ☐ 1/4" Root  ☐ Spike PE
Emergence: ☐ No  ☐ VC/V1
Nutrient Deficiency: ☐ Spots  ☐ General
Soil Compaction: ☐ 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: ☐ good  Variance
Growth: ☐ good  Variance
Plant spacing: ☐ Variance
Emergence: ☐ Variance
Soil Temperature: 2°

Root Damage: ☐ Insects  ☐ Plants  ☐ Purplish
Diseases: ☐  Yellowish
Nematodes: ☐ Stunting

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

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- **Seed Corn**: On/off
- **Corn**: On/off
- **Soybeans**: On/off
- **Wheat**: On/off
- **Grower**: [Redacted]
- **Date**: 5/18/2017

Field Name/Number: [Redacted]

- **Growth Stage**: [Redacted]
- **General Appearance**: [Redacted]
- **Size**: [Redacted]
- **Variance**: [Redacted]
- **Leaf Color**: [Redacted]
- **Variance**: [Redacted]

Plant Population: PEVE

- **Soil Moisture**: 0-12
- **Variance**: [Redacted]
- **%AWC**: 40/40

**Vigor**: [Redacted]

- **Good**: On/off
- **OK**: On/off
- **Poor**: On/off
- **General Spotty**: On/off

**Stress**: [Redacted]

- **Heat**: On/off
- **Moisture**: On/off
- **Nitrogen**: On/off
- **General Spotty**: On/off

**Stress-Chlorophyll**: [Redacted]

- **None**: On/off
- **Low**: On/off
- **High**: On/off
- **General Spotty**: On/off

**Weed Control**: [Redacted]

- **Grasses**: On/off
- **Broadleaves**: On/off
- **Perennials**: On/off

**ACTION**: [Redacted]

- **None Required**: On/off
- **Watch**: On/off
- **Yes, see comments**: On/off

**Comments**: [Redacted]

- **Early plants planted**: 5/10/17
- **Field condition clean, conditions good.**

|--------------|----------------|-----------|-------------------|----------------|-------------------|------------------|--------------|----------------|----------------|-------------|------------------|--------------|-------------|--------------|--------------|----------------|-------------|--------------|----------------|----------------|----------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|

<table>
<thead>
<tr>
<th>Diagnosis</th>
<th>No</th>
<th>1/4” Root</th>
<th>Spike PE</th>
</tr>
</thead>
<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>Spots</td>
<td>General</td>
</tr>
</tbody>
</table>
| Soil Compaction | No | Soil Surface:
| Spots | General | Hard | Crusted |
| Standing Water | No | Small Spots | Large Spots |
| Herbicide damage | No | Emergence stress |
| Physiological Disorder in Corn | No | Yellowish whorl |
| Buggywip | No | Stalk bending | Twisted whorl |
| Doubles | No | Variance |
| Density | No | Variance |
| Growth | No | Variance |
| Plant spacing | No | Variance |
| Emergence | No | Variance |
| Soil Temperature | No | Variance |

<table>
<thead>
<tr>
<th>Diagnosis</th>
<th>No</th>
<th>Root Damage</th>
<th>Plants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insects</td>
<td>No</td>
<td>Purplish</td>
<td></td>
</tr>
<tr>
<td>Diseases</td>
<td>No</td>
<td>Yellowish</td>
<td></td>
</tr>
<tr>
<td>Nematodes</td>
<td>No</td>
<td>Stunting</td>
<td></td>
</tr>
<tr>
<td>Stunted plants</td>
<td>No</td>
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| Doubles | No | Variance |
| Density | No | Variance |
| Growth | No | Variance |
| Plant spacing | No | Variance |
| Emergence | No | Variance |
| Soil Temperature | No | Variance |
BioEnt – Early Season Survey  

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

Comments: Planted 5/10/17
early spike
Field condition clean
Conditions good

ACTION:
None Required
Watch
Yes, see comments

Annual Grasses AG
Foxtail F
Panicum -Fall FP
Quack grass QG
Wirestem Muhly WM
Field Sandbur FS
Crabgrass CG
Johnsongrass JG
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Cutworms
White Grubs
Seed Corn Maggots
Foliar Disease-Rust
Foliar Disease-Fungi
Corn Borer-%
Stunted plants

Armyworms
Flea Beetles
Aphids
Slugs
Leafhoppers

Stalkborers
Aphids
Slugs

Wireworms

Spider mites

Wireworms