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

Seed Corn ☐ Corn ☐ Soybeans ☐ Wheat ☐ Grower: MNS Date: 6/4/2015
Field Name/Number: TIR2  Growth Stage: VE-VI

General Appearance: OK  Size: OK  Variance: OK  Leaf Color: OK  Variance: OK
Plant Population:  Soil Moisture 0-12: 75-80  12+: 80  %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: VE-VI few plants emerging.
Emergence looks normal.
Good weed control.

Planted May 19-2015

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: OK  Variance:
Soil Temperature: 2"

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

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

Annual Grasses AG  Foxtail F  Panicum - Fall FP  Quack grass QG
Wirestem Muhly WM  Field Sandbur FS  Crabgrass CG  Johnsongrass JG
Shatrcane SCA  Nutsedge NS  Winter Annuals WA  Chickweed CW
Biennials WB  Cover Crop CC  Velvetleaf VL  Cocklebur CBUR
Milkweed CM  Pigweed RRP  Horseneettle 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

Germination: ☐ No  ☐ 1/4" Root  ☐ Spike PE
Emergence: ☐ Breaking  ☐ VC/V1
Nutrient Deficiency: ☐ Spots  ☐ General
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: OK  Variance:
Soil Temperature: 2"
## BioEnt – Early Season Survey

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

- **Seed Corn**, **Soybeans**, **Wheat**  
  **Grower**: Ms, **Date**: 4/4/2015

### Field Name/Number

**TAR**

### General Appearance

- **Size**: **OK**  
  **Leaf Color**: **OK**  
  **Plant Population**: **OK**  
  **Soil Moisture**: 0-12 %AWC

### Vigor

- **Good**  
  **General**  
  **Spotty**  
  **Poor**

### Stress

- **Heat**  
  **Moisture**  
  **Nitrogen**  
  **General**  
  **Spotty**

### Stress-Chlorophyll

- **None**  
  **Low**  
  **High**  
  **General**  
  **Spotty**

### Weed Control

- **Good**  
  **OK**  
  **Poor**  
  **Spotty**  
  **Dense Spots**  
  **Grasses**  
  **Broadleaves**  
  **Perennials**

### Plant Name

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

### Action

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

### Comments

- Planted May 30-2015
- VE - VC + early V1
- Good weed control
  - No-till

---

### Soil Compaction

- **Spots**  
  **General**  
  **Hard**  
  **Crusted**

### Soil Surface

- **Spots**  
  **General**  
  **Hard**  
  **Crusted**

### Emergence

- **Breaking**  
  **VC / V1**

### Nutrient Deficiency

- **Spots**  
  **General**

### Heribicide damage

- **Emergence stress**

### Physiological Disorder in Corn

- **Yellowish whorl**

### Buggwip

- **Stalk bending**  
  **Twisted whorl**

### Density

- **Variance**

### Growth

- **Variance**

### Plant spacing

- **Variance**

### Emergence

- **OK**  
  **Variance**

### Soil Temperature

- **2°**

---

### Insects

- **Cutworms**  
  **Armyworms**  
  **Stalkborers**  
  **Wireworms**  
  **Spider mites**  
  **White Grubs**  
  **Flea Beetles**  
  **Aphids**  
  **Slugs**  
  **Leafhoppers**  
  **Seed Corn Maggots**

### Diseases

- **Foliar Disease-Rust**  
  **Foliar Disease-Fungi**  
  **Corn Borer-%**  
  **Stunted plants**

### Root Damage

- **Insects**  
  **Plants**  
  **Purplish**  
  **Diseases**  
  **Yellowish**  
  **Nematodes**  
  **Stunting**
### BioEnt – Early Season Survey

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

- **Field Name/Number:**
- **General Appearance:**
- **Plant Population:**
- **Soil Moisture 0-12:**
- **Vigor:**
- **Stress:**
- **Stress-Chlorophyll:**
- **Weed Control:**
- **ACTION:**

#### Comments:

Planted May 23

UE-VC+


---

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

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<table>
<thead>
<tr>
<th>Planting Stage</th>
<th>1/4&quot; Root</th>
<th>Spike PE</th>
</tr>
</thead>
<tbody>
<tr>
<td>---</td>
<td>No</td>
<td>Yes, see comments</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Nutrient Deficiency</th>
<th>Spots</th>
<th>General</th>
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<tr>
<td>---</td>
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<table>
<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>Standing Water</td>
<td>Small Spots</td>
</tr>
<tr>
<td>Herbicide damage</td>
<td>Emergence stress</td>
</tr>
<tr>
<td>Physiological Disorder in Corn</td>
<td>Yellowish whorl</td>
</tr>
<tr>
<td>Buggywip</td>
<td>Stalk bending</td>
</tr>
<tr>
<td>Doubles</td>
<td>%</td>
</tr>
<tr>
<td>Density</td>
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</tr>
<tr>
<td>Growth</td>
<td>Variance</td>
</tr>
<tr>
<td>Plant spacing</td>
<td>Variance</td>
</tr>
</tbody>
</table>
| Emergence | OK | Variance | 0%

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<table>
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<tr>
<th>Root Damage</th>
<th>Plants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insects</td>
<td>Purplish</td>
</tr>
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<td>Nematodes</td>
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</tr>
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</tr>
<tr>
<td>Wirestem Muhly</td>
<td>PSM</td>
</tr>
<tr>
<td>Field Sandbur</td>
<td>SSM</td>
</tr>
<tr>
<td>Crabgrass CG</td>
<td>DPH</td>
</tr>
<tr>
<td>Johnson grass</td>
<td>HDB</td>
</tr>
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<td>Shatetane SCA</td>
<td>LQU</td>
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<th>White Grubs</th>
<th>Seed Corn Maggots</th>
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<tbody>
<tr>
<td>Armyworms</td>
<td>Flea Beetles</td>
<td>Foliar Disease-Rust</td>
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<td>Stalkborers</td>
<td>Aphids</td>
<td>Foliar Disease-Fungi</td>
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<td>Wireworms</td>
<td>Slugs</td>
<td>Corn Borer-%</td>
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<tr>
<td>Spider mites</td>
<td>Leafhoppers</td>
<td>Stunted plants</td>
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</table>

**Comments:**

Preplant 6-4-15
Wil plant 6-4-15
Ground worked, looks good, clean.
BioEnt – Early Season Survey  
Gary Manley 269-273-7070 or 269-816-1080

☐ Seed Corn ☐ Corn ☐ Soybeans ☐ Wheat ☐ Grower MSU Date 6/14/2015

Field Name/Number Alfa 2 Tur 2 Growth Stage

General Appearance OK Size OK Variance OK Leaf Color OK Variance

Plant Population OK Soil Moisture 0-12

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

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:

Regrowth 4-8" Ranger

Patches y Clover

Dandelion - general/ Common
green grasses.

Insect populations low.
 Aphids - low crude

Annual Grasses AG
Foxtail F
Panicum - Fall FP
Quack grass QG
Wirestem Muhly WM
Field Sandbur FS
Crabgrass CG
Johnsongrass JG
Shattercane SCA
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Milkwort CM

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
Buggyywip ☐ Stalk bending ☐ Twisted whorl
Doubles %
Density Variance
Growth Variance
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
 ☐ Diseases ☐ Purplish
 ☐ Nematodes ☐ Yellowish
 ☐ Stunting
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>Date</th>
<th>Growth Stage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mny</td>
<td>6/7/2015</td>
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</table>

<table>
<thead>
<tr>
<th>General Appearance</th>
<th>Plant Population</th>
<th>Soil Moisture</th>
<th>%AWC</th>
</tr>
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<tbody>
<tr>
<td>Size OK</td>
<td>OK</td>
<td>0-12</td>
<td>75-80</td>
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</table>

<table>
<thead>
<tr>
<th>Vigor</th>
<th>Stress</th>
<th>Stress-Chlorophyll</th>
<th>Weed Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>Good</td>
<td>Heat</td>
<td>None</td>
<td>Good</td>
</tr>
<tr>
<td>OK</td>
<td>Moisture</td>
<td>Low</td>
<td>OK</td>
</tr>
<tr>
<td>Poor</td>
<td>Nitrogen</td>
<td>High</td>
<td>Poor</td>
</tr>
<tr>
<td>General</td>
<td>General</td>
<td>General</td>
<td>Spotty</td>
</tr>
<tr>
<td>Spotty</td>
<td>Spotty</td>
<td>Spotty</td>
<td>Dense Spots</td>
</tr>
</tbody>
</table>

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

**Comments:**
- Planted May 21-2015
- UF - VC +
- Still plants emerging
- Good weed control

**Insects:**
- Cutworms
- Armyworms
- Stalkborers
- Wireworms
- Spider mites
- White Grubs
- Flea Beetles
- Aphids
- Slugs
- Leafhoppers
- Seed Corn Maggots

**Plants:**
- Root Damage
- Plants
- Insects
- Diseases
- Purplish
- Yellowish
- Nematodes
- Stunting
BioEnt – Early Season Survey  
Gary Manley 269-273-7070 or 269-816-1080

- Seed Corn
- Corn
- Soybeans
- Wheat

GROWER: Mfy

DATE: 6/4/2015

Field Name/Number: Non-trans/ed. N2, Ohio

Growth Stage:

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

Plant Population: OK
Soil Moisture: 0-12

%AWC

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

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

Comments:

Planted May 9-12. This field was small and had dented, but emerged well. Good weed control.

Action:

□ None Required
□ Watch

Yes, see comments

- Annual Grasses AG
- Foxtail F
- Panicum-Fall FP
- Quack grass QG
- Wiresm Muhl WWM
- Field Sandbur FS
- Crabgrass CG
- Johnsongrass JG
- Shatcane SCA
- Nutsedge NS
- Winter Annuals WA
- Chickweed CW
- Biannials WB
- Cover Crop CC
- Velvetleaf VL
- Cocklebur CBUR
- Milkweed CM

- Root Damage □ Insects □ Plants
- Seed Corn Maggots □ Foliar Disease-Rust
- Foliar Disease-Fungi □ Corn Borer-%
- Stunted plants

- Grasses
- Broadleaves
- Perennials

- Pigweed RRP
- Horsenettle HN
- Bindweed -Field FBW
- Bindweed -Hedge HBW
- Smartweed -Penn. PSM
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- Jimsonweed JW
- Canada Thistle CTH
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- Perennials P
- Pokeweed PW

- 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
  □ Buggiwip □ Stalk bending □ Twisted whorl

- Doubles ___%
- Density _____ Variance ________
- Growth ______ Variance ______
- Plant spacing _____ Variance ______
- Emergence ______ Variance ______
- Soil Temperature _______ 2"