**BioEnt – Early Season Survey**

- **Field Name/Number:**
- **Seed Corn**
- **Soybeans**
- **Wheat**
- **Grower:**
- **Date:** 7/14/2015
- **Growth Stage:**
- **General Appearance:**
  - **Size:** OK
  - **Variance:** OK
- **Plant Population:** OK
- **Soil Moisture:** 0-12
  - **0**
  - **90**
  - **%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**
- **Comments:**
  - 18" Range Flowering.
  - Annual grasses 1-2' low density but general.
  - Control weeds (grasses).
- **ACTION:**
  - **None Required**
  - **Watch**
  - **Yes, see comments**

---

**Weeds:**
- **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
  - Biannuars WB
  - Cover Crop CC
  - Velvetleaf VL
  - Cocklebur CBUR
  - Milkweed CM
- **Broadleaves**
  - **Perennials**
  - **Annual Grasses**
  - AG
  - **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**
  - **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:**
  - **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**
- **Plant spacing**
- **Variance**
- **Emergence**
  - **Variance**
- **Soil Temperature**
  - 2°

---

**Insects:**
- **Weeds:**
  - **Annual Grasses AG**
  - **Pigweed RRP**
  - **Horsenettle HN**
  - **Bindweed -Field FBW**
  - **Bindweed -Hedge HBW**
  - **Smartweed -Penn. PSM**
  - **Smart -Swamp SSM**
  - **Dogbane -Hemp HDB**
  - **Lambquarters LQU**
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  - **Jimsonweed JW**
  - **Canada Thistle CTH**
  - **Yellow Rocket YR**
  - **Perennials P**
  - **Pokeweed PW**

---

**Stunting:**
- **Weeds:**
  - **Annual Grasses AG**
  - **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**
  - **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

Seed Corn ☐ Corn ☐ Soybeans ☐ Wheat ☐ Grower ☐ MSU ☐ Date 7/16/2015

Field Name/Number ☐ 72R5

General Appearance ☐ Size ☐ Varianse ☐ Leaf Color ☐ Variance ☐

Plant Population ☐ Soil Moisture 0-12 ☐ 85% ☐ 90% ☐ %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:
15" Range Flowering.
low density scattered annual grasses
Control grasses as time permits.

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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°

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

Root Damage ☐ Insects ☐ Plants

Diseases ☐ Yellowish ☐ Purplish

Nematodes ☐ Stunting
### Soybeans

- **Comments:**
  - "ev[...]iot,L1-14,// 1-46"
  - "Spots General °Hard °Crusted"
  - "Weed Control:	 Good □ OK □ Poor □ Spotty □ Dense Spots
    - Grasses □ Broadleaves □ Perennials"

### Wheat

- **Comments:**
  - "12" Range - Flowering. Color growth Normal."
  - "Leaf rosetting
  
  S W E"

### General Appearance

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

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

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

### Plant Population

- **Size**
  - OK □ Variance
- **Leaf Color**
  - OK □ Variance
- **Soil Moisture**
  - 0-12 □ 12+ □ %AWC

### ACTION:

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

---

### Weed Control

- **Annual Grasses AG**
- **Foxtail F**
- **Panicum -Fall FP**
- **Quack grass QG**
- **Wirestem Muhly WM**
- **Field Sandbur FS**
- **Crabgrass CG**
- **Johnsongrass JG**
- **Shatercane SCA**
- **Nutsedge NS**
- **Winter Annuals WA**
- **Chickweed CW**
- **Biannnuals 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**

### Insects

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

---

### Growth Stage

- **Comments:**
  - Pigweed RRP
### BioEnt – Early Season Survey

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

- **Seed Corn**
- **Corn**
- **Soybeans**
- **Wheat**

**Grower:**

- **Date:** 7/16/2015

**Field Name/Number:**

- **General Appearance:**
- **Size:**
- **Variance:**
- **Leaf Color:**
- **Variance:**
- **Plant Population:**
- **Soil Moisture:**
- **0-12**
- **85/90**
- **12+**
- **90+**
- **%AWC**

**Vigor:**
- **General**
- **Spotty**

**Stress:**
- **Heat**
- **Moisture**
- **Nitrogen**
- **General**
- **Spotty**

**Stress-Chlorophyll:**
- **General**
- **Spotty**

**Weed Control:**
- **Good**
- **OK**
- **Poor**
- **Spotty**
- **Dense Spots**

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

**Comments:**

- 10-12" Range 5/16
- Scattered grasses, mostly in rows
- Few scattered

**Soil Conditions Wet**

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- **Annual Grasses AG**
- **Foxtail F**
- **Millet**
- **Panicum -Fall FP**
- **Quack grass QB**
- **Wild rice WR**
- **Wirestem Muhly WM**
- **Field Sandbur FS**
- **Crabgrass CG**
- **Johnsongrass JG**
- **Shattercane SC**
- **Sorghum SR**
- **Winter Annuals WA**
- **Chickweed CW**
- **Biennials WB**
- **Cover Crop CC**
- **Velvetleaf VL**
- **Cocklebur CBUR**
- **Milkweed CM**
- **Pigweed RR**
- **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**
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- **Jimsonweed JW**
- **Canada Thistle CTH**
- **Yellow Rocket YR**
- **Perennials P**
- **Pokeweed PW**

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<th>Germination</th>
<th>1/4&quot; Root</th>
<th>Spike PE</th>
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<tbody>
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</table>

**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"**

**Root Damage**

- **Insects**
- **Diseases**
- **Yellowish**

**Plants**

- **Nematodes**
- **Stunting**

**Cutworms**

- **White Grubs**
- **Flea Beetles**
- **Aphids**
- **Slugs**
- **Leafhoppers**

**Seed Corn Maggots**

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

**Root Damage**

- **Insects**
- **Diseases**
- **Yellowish**

**Plants**

- **Nematodes**
- **Stunting**

**White Grubs**

- **Cutworms**
- **Armyworms**
- **Stalkworms**
- **Wireworms**
- **Spider mites**

**Cutworms**

- **Armyworms**
- **Stalkworms**
- **Wireworms**
- **Spider mites**
**BioEnt – Early Season Survey**  
Gary Manley 269-273-7070 or 269-816-1080

<table>
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<tr>
<th>Field Name/Number</th>
<th>General Appearance</th>
<th>Size</th>
<th>Variance</th>
<th>Ok</th>
<th>Leaf Color</th>
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</table>

**Vigor:**  
- Good  
- OK  
- Poor  
- General  
- Spotty

**Stress:**  
- Heat  
- Moisture  
- Nitrogen  
- General  
- Spotty

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

**Plant Population:**  
- Nik | _fill_  
- Soil Moisture:  
- 0-12  
- 12+  
- %AWC

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

**Comments:**  
Regrowth 1 ft. Range.
Weeds/grasses general.
Insect levels low.
No pests.

---

**Field Name/Number:**  
- _fill_

**Date:**  
- 7/16/2015

**Grower:**  
- _fill_

---

**Comments:**  
- Regrowth 1 ft. Range.
- Weeds/grasses general.
- Insect levels low.
- No pests.

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- Annual Grasses AG
- Foxtail F
- Panicum -Fall FP
- Quack grass OG
- Wirestem Muhly WM
- Field Sandbur FS
- Crabgrass CG
- Johnsongrass JG
- Shatercane SCA
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- Cutworms
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- 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
- Plants
- Nematodes
- Stunting

---

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

Seed Corn □ Corn □ Soybeans □ Wheat □ Grower MSU Date 7/16/2015

Growth Stage: □ Rain Irrigated

General Appearance □ Size □ Varied □ Leaf Color □ Variance □
Plant Population □ Soil Moisture 0-12 □ Growth Stage □ Variance □

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

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

Comments:
12" Range Flowering
Annual grasses
Control grasses

□ Annual Grasses AG □ Pigweed RRP
□ Foxtail F □ Horsenettle 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 □ Lambsquarter LQU
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□ Cover Crop CC □ Canada Thistle CTH
□ Velvetleaf VL □ Yellow Rocket YR
□ Cocklebur CBUR □ Perennials P
□ Milkweed CM □ 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 □

Growth □

Plant spacing □ Variance □

Emergence □ Variance □

Soil Temperature 2"

□ Cutworms □ White Grubs □ Root Damage □ Insects
□ Armyworms □ Flea Beetles □ Plants □ Purplish
□ Stalkborers □ Aphids □ Diseases □ Yellowish
□ Wireworms □ Slugs □ Nematodes □ Stunting
□ Spider mites □ Leafhoppers □ Seed Corn Maggots

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

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

<table>
<thead>
<tr>
<th>Field Name/Number</th>
<th>Size</th>
<th>Variance</th>
<th>Leaf Color</th>
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<th>Vigor:</th>
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<thead>
<tr>
<th>Grasses</th>
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<td>Smartweed -Penn. PSM</td>
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