BioEnt – Early Season Survey

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

Seed Corn [ ] Corn [ ] Soybeans [ ] Wheat [ ]
Grower: [ ]
Date: 7/11/2013

Field Name/Number: TIR6

General Appearance: [ ] Size: [ ] Variance: [ ] Leaf Color: [ ] Variance: [ ]

Plant Population: [ ] Soil Moisture: 0-12 [ ] 12+ [ ]

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:

Mature/dry down heads brown

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□ 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
□ Nematodes
□ Plants
□ Purplish
□ Yellowish
□ Stunting
## BioEnt - Early Season Survey

**Grower:** M. S.  
**Date:** 11/2013

### Field Name/Number
- 726

### General Appearance
- Size: **OK**
- Variance: **6**
- Leaf Color: **OK**
- Variance: **6**

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

### Vigor
- **Good**
- **OK**
- **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**

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

### Comments:

```
Mature dry down  
Heads Brown
```

### Plant Health Indicators

- **Annual Grasses AG**
- **Foxtail F**
- **Panicum - Fall FP**
- **Quack grass GQ**
- **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**
- **Milkwed CM**

- **Pigweed RRP**
- **Horsenettle HN**
- **Bindweed - Field FBW**
- **Bindweed - Hedge HBW**
- **Smartweed - Penn. PSM**
- **Smart - Swamp SSM**
- **Dogbane - Hemp HDB**
- **Lambquartler LQU**
- **Ragweed CRAG**
- **Ragweed - Giant GRAG**
- **Dock - Curly CD**
- **Nightshade - Black BNS**
- **Jimsonweed JW**
- **Canada Thistle CTH**
- **Yellow Rocket YR**
- **Perennials P**
- **Pokeweed PW**

### Additional Observations

- **Germination**
- **No**
- **1/4" Root**
- **Spike PE**
- **Emergence**
- **Breaking**
- **VC / V1**
- **Nutrient Deficiency**
- **Spots**
- **General**

### Soil Condition

- **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"**

### Pests and Diseases

- **Cutworms**
- **White Grubs**
- **Seed Corn Maggots**
- **Foliar Disease-Rust**
- **Foliar Disease-Fungi**
- **Corn Borer-%**
- **Stunted plants**

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

**Grower:** M5U  
**Date:** 7/11/2013

<table>
<thead>
<tr>
<th>Field Name/Number</th>
<th>7326</th>
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</table>

**General Appearance:** ok  
**Size:** ok  
**Variance:** ok  
**Leaf Color:** More  
**Variance:** More  
**Plant Population:** ok  
**Soil Moisture 0-12:** ok  
**12+:** ok  
**%AWC:**

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

**Comments:**

Mature/dry down  
Head Brown

**Plants:**
- Annual Grasses AG  
- Pigweed RRP
- Foxtail F
- Horsenettle HN
- Panicum -Fall FP
- Bindweed -Field FBW
- Quack grass QG
- Bindweed -Hedge HBW
- Wiresem Muhly WM
- Smartweed -Penn. PSM
- Field Sandbur FS
- Smart -Swamp SSM
- Crabgrass CG
- Dogbane -Hemp HDB
- Johnsongrass JG
- Lambquarters LOU
- Shatercane SCA
- Ragweed CRAG
- Nutsgedge NS
- Ragweed -Giant GRAG
- Winter Annuals WA
- Dock -Curly CD
- Chickweed CW
- Nightshade -Black BNS
- Biannuals WB
- Jimsonweed JW
- 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:**
- Buggywip
- Yellowish whorl
- Stalk bending
- Twisted whorl
**Doubles:**
**Density:**
**Variance:**
**Growth:**
**Variance:**
**Plant spacing:**
**Variance:**
**Emergence:**
**Variance:**
**Soil Temperature:** 2°

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

**Grower:** MSU  
**Date:** 7/1/2013

**Field Name/Number:** TYRC

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

**Plant Population:** OK  
**Soil Moisture:** 0-12  
**12+:** 14  
**%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:**

mature dry down
Heads Brown

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**Comments:**

- 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
- Horsenettle HN
- Bindweed -Field FBW
- Bindweed -Hedge HBW
- Smartweed -Penn. PSM
- Smart -Swamp SSM
- Dogbane -Hemp HDB
- Lamb-quarters LOU
- 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

**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
- Buggypip
- Stalk bending
- Twisted whorl

**Doubles:**
- %

**Density:**
- Variance

**Growth:**
- Variance

**Plant spacing:**
- Variance

**Soil Temperature:** 2"
BioEnt – Early Season Survey

Grower: MSY  Date: 7/1/2013

Field Name/Number: T6R6  Alfalfa

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

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

Vigor: F 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:
Alfalfa - Harvested this morning - Nothing to scout

Annual Grasses AG  Foxtail F  Panicum -Fall FP
Quack grass QQ  Wirestem Muhly WM  Field Sandbur FS
Crabgrass CG  Johnsongrass JG  Shartecane 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

Germination  No  1/4" Root  Spike PE
Emergence  Breaking  VC / V1
Nutrient Deficiency  Spots  General
Soil Compaction: Spots  General  Hard  Crusted
Soil Surface:
Standing Water  Small Spots  Large Spots
Herbicide damage  Emergence stress
Physiological Disorder in Corn  Yellowish whorl
Bugglywip  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  Leathoppers
Seed Corn Maggots  Foliar Disease-Rust  Foliar Disease-Fungi
Corn Borer-%  Stunted plants

Root Damage  Insects  Plants
Diseases  Yellowish  Nematodes  Stunting
Mature/lay-down
Heads Brown
Some green
Some N application

Comments:

ACTION:

None Required

Watch

Yes, see comments

Germination

Emergence

Nutrient Deficiency

Soil Compaction:

Spots

Standing Water

Herbicide damage

Physiological Disorder in Corn

Doubles

Density

Growth

Plant spacing

Emergence

Soil Temperature

Cutworms

Armyworms

Stalk borers

Wireworms

Spider mites

White Grubs

Flea beetles

Aphids

Slugs

Leaf hoppers

Seed Corn Maggot

Foliar Disease-Rust

Foliar Disease-Fungi

Corn Borer-%

Stunted plants

Root Damage

Insects

Diseases

Nematodes

Plants

Purplish

Yellowish

Yellow Rocket YR

Perennials YP

Pokeweed PW
BioEnt – Early Season Survey

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

Seed Corn □ Corn □ Soybeans □ Wheat □ Grower MSU Date 7/16/2013

Field Name/Number □ □ □ □ Non-Irrigation Growth Stage

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

Plant Population □ □ Soil Moisture 0-12 □ □ %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:

Mature dry down
heads brown
some green in some
N2 treatments.

Annual Grasses AG □ Pigweed RRP
Foxtail F □ Horsetail 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 LOU
Shattercane SCA □ Ragweed CRAG
Nutsedge NS □ Ragweed - Giant GRAG
Winter Annuals WA □ Dock - Curly CD
Chickweed CW □ Nightshade - Black BNS
Biannuals WB □ Jimsonweed JW
Cover Crop CC □ Canada Thistle CTH
Velvetleaf VL □ Yellow Rocket YR
Cookiebur 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 □ 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
□ Yellowish □ Nematodes
□ Stunting