BioEnt – Early Season Survey

Seed Corn ☐ Corn ☐ Soybeans ☐ Wheat ☐ Grower: M.S. Date: 5/30/2013
Field Name/Number: JIB
General Appearance: OK Size: 1/4" Variance: 4/16"
Plant Population: OK Soil Moisture 0-12: Wet

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

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

Comments:
Cereal Leaf Beetle lawn feeding - 1% of plants affected - low levels. No adult noted.
Disease levels very low.
Flag leaf good.

Nutrient Deficiency ☐ Spots ☐ General
Mineral Deficiency ☐ Spots ☐ General

Soil Compaction: ☐ Spots ☐ General
Standing Water ☐ Small Spots ☐ Large Spots
Herbicide damage ☐ Emergence stress
Physiological Disorder in Corn ☐ Yellowish whorl
Oxytetracycline ☐ Buggywip ☐ Stalk bending ☐ Twisted whorl
Doubles ☐%
Density ☐ Variance
Growth ☐ Variance
Plant spacing ☐ Variance
Emergence ☐ Variance
Soil Temperature ☐ 2.0

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>T2R3</th>
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<tbody>
<tr>
<td>General Appearance</td>
<td>OK</td>
</tr>
<tr>
<td>Size/14-16&quot;</td>
<td>8/16</td>
</tr>
<tr>
<td>Variance</td>
<td>OK</td>
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<tr>
<td>Leaf Color</td>
<td>OK</td>
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<tr>
<td>Variance</td>
<td>OK</td>
</tr>
<tr>
<td>Plant Population</td>
<td>OK</td>
</tr>
<tr>
<td>Soil Moisture 0-12</td>
<td>Wet</td>
</tr>
<tr>
<td>12+</td>
<td>Wet</td>
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<tr>
<td>%AWC</td>
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</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:**  
- Early head emergence
- Cereal leaf beetle
  - Larvae 1-3 inset
  - Larvae 2/1/00
  - Larvae 2/1/00
- Midge bugs - low
- Tarnished plant bugs - low

**Plants:**  
- 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
- 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
- Buggy wip
- Stalk bending
- Twisted whorl

**Doubles:**
- %

**Density:**
- Variance

**Growth:**
- Variance

**Plant spacing:**
- Variance

**Emergence:**
- Variance

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

**Grower**: NSU  **Date**: 5-7-2013

**Field Name/Number**: 13 PR  
**Growth Stage**: 

**General Appearance**: OK  **Size**: OK  **Variance**: OK  **Leaf Color**: Mixed  
**Plant Population**: OK  **Soil Moisture 0-12**: Wet  **12+**: Wet  %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**: early Head Emergence  
□ None Required □ Watch □ Yes, see comments

**Comments:**

Cereal leaf beetle hares likely to be below 1% on most 1-2nd Instar 1st Instar hares slow lead. Scattered mirid bug key spots - few adults active

**Disease Levels**

- Low (Good) - Play low good

- Some leaf color variance scattered

**Other Issues**

- 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
- 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

**Disease Management**

- 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" □ Root Damage □ Insects □ Plants
- □ Purplish □ Diseases □ Yellowish
BioEnt – Early Season Survey
Gary Manley 269-273-7070 or 269-816-1080

Grower: MSY  
Dates: 5.30.2013

Seed Corn ☐ Corn ☐ Soybeans ☐ Wheat ☐
Field Name/Number: 74R3

General Appearance: OK  
Size: 13-14  
Variance: OK  
Leaf Color: Mixed  
Variance: Mixed

Plant Population: OK  
Soil Moisture: 0-12: Wet  
12+: Wet  
%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:
Cereal leaf beetles larvae  
21% 1st instar 1-3 range low level
Mold bugs low density  
Tarantula plant bugs low density  
Low disease levels

Mayweed dense general evenly in flower

Leaf Color Lightens & Mixed Pattern Colors

Clean Corn Crop

Germination ☐  
Emergence ☐  
Nutrient Deficiency ☐  
Soil Compaction: ☐  
Spot Color:  
Nutrient Deficiency: ☐  
Soil Temperature: 2°

No ☐ 1/4” Root ☐ Spike PE ☐
No ☐ Breaking ☐ VC/V1 ☐
Nutrient Deficiency ☐  
Soil Surface: ☐  
Standing Water ☐  
Herbicide damage ☐  
Physiological Disorder in Corn ☐  
Buggywip ☐  
Doubles ☐  
Plant spacing ☐
Density ☐  
Growth ☐
Herbicide damage ☐  
Stalk bending ☐  
Physiological Disorder in Corn ☐
Buggywip ☐  
Plant spacing ☐
Doubles ☐  
Emergence ☐  
Physiological Disorder in Corn ☐
Buggywip ☐  
Stunt ☐

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 ☐
Seed Corn Maggots ☐
Insects ☐  
Diseases ☐
Plants ☐  
Purplish ☐
Diseases ☐  
Yellowish ☐
Nematodes ☐  
Stunting ☐
BioEnt – Early Season Survey

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

Seed Corn ☐ Corn ☐ Soybeans ☐ Wheat ☐ Alfalfa Grower m5y Dates: 5/3/2013
Field Name/Number: Alfalfa - T6 R3 Growth Stage: Bud
General Appearance: OK Size: OK Variance: OK Leaf Color: OK Variance: OK
Plant Population: Soil Moisture 0-12: Wet 12+: Wet %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 Harvest
☐ Watch
☐ Yes, see comments

Comments:
Alfalfa Weevil Larvae
3rd instar
Aphids - low level
Mild Bugs - low level
Tarnished Plant Bugs - low

No action needed new harvest

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Mixed weeds/grasses - low to moderate level

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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
Buggwyn ☐ 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

Field Name/Number: No Date Irrigated

General Appearance: OK Size: 14-16" Variance: ok

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

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

Comments:
Cereal Leaf Beetle Larvae 2-3 in spots
Mind bugs - low.

Very Few Weeds

Germination: No
1/4" Root: None
Spike: PE

Emergence: Breaking
VC/V1

Nutrient Deficiency: None

Soil Compaction: None
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: None
Plants: None
Insects: None
Diseases: None
Yellowish: None
Nematodes: None
Stunting: None
**BioEnt – Early Season Survey**  
Gary Manley 269-273-7070 or 269-816-1080

- **Grower:** MCM  
- **Date:** 5/30/2013  
- **Field Name/Number:** W2 Red Sea Non Irrigated, Growth Stage BB11

### General Appearance
- **Size:** 14-16"  
- **Variance:** ok  
- **Leaf Color:** ok  
- **Variance:** ok

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

### Vigor
- **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:
- Cereal leaf beetle damage  
- < 1% plant - low  
- Instar 2-3 range  
- Mixed bugs - low  
- Few weeds

### Map
- **Annual Grasses AG**  
- **Foxtail F**  
- **Panicum Fall FP**  
- **Quack grass QQ**  
- **Wirestem Muhly WM**  
- **Field Sandbur FS**  
- **Crabgrass CG**  
- **Johnsongrass JG**  
- **Sharracane 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**  
- **Lambquartker 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
- **No**  
- **1/4" Root**  
- **Spike PE**

### Additional Notes
- **Germination**  
- **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"**

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

### Plants
- **Root Damage**
- **Insects**
- **Purplish**
- **Diseases**
- **Yellowish**
- **Nematodes**
- **Stunting**