**BioEnt – Early Season Survey**

**Grower:** [Name]  
**Date:** 5/16/2013

<table>
<thead>
<tr>
<th>Field Name/Number</th>
<th>Growth Stage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General Appearance</th>
<th>Size</th>
<th>Variance</th>
<th>Leaf Color</th>
<th>Variance</th>
</tr>
</thead>
<tbody>
<tr>
<td>OK</td>
<td>81</td>
<td></td>
<td>OK</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plant Population</th>
<th>Soil Moisture 0-12</th>
<th>12+</th>
<th>70 - 75 %AWC</th>
</tr>
</thead>
<tbody>
<tr>
<td>OK</td>
<td>12-</td>
<td>70</td>
<td></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 [ ]  
- Grasses [ ]  
- Broadleaves [ ]  
- Perennials [ ]

**Comments:**

*Weed Control good!*

**ACTION:**  
- None Required [☑]  
- Watch [ ]  

**Crops and Pests:**

- 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  
- Biannuals WB  
- Cover Crop CC  
- Velvetleaf VL  
- Cocklebur CBUR  
- Milkweed CM  
- Pigweed RRP  
- Horsetail HN  
- Bindweed-Field FBW  
- Bindweed-Hedge HBW  
- Smartweed-Penn. PSM  
- Smart-Swamp SSM  
- Dogbane-Hemp HDB  
- Lambquarters LOU  
- Ragweed CRAG  
- Ragweed-Giant GRAG  
- Dock-Curly CD  
- Nightshade-Black BNS  
- Jimsonweed JW  
- Canada Thistle CTH  
- Yellow Rocket YR  
- Perennials P  
- Pokeweed PW

**Issues:**

- 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 ________ Var.  
- Growth ________ Var.  
- Plant spacing ________ Var.  
- Emergence ________ Var.  
- Soil Temperature 2" [ ]

**Insects:**  
- Cutworms [ ]  
- Armyworms [ ]  
- Stalk borers [ ]  
- Wireworms [ ]  
- Spider mites [ ]  
- White Grubs [ ]  
- Flea Beetles [ ]  
- Aphids [ ]  
- Slugs [ ]  
- Leafhoppers [ ]  
- Seed Corn Maggots [ ]  
- Foliar Disease-Rust [ ]  
- Foliar Disease-Fungi [ ]  
- Corn Borer-% [ ]  
- Stunted plants [ ]

**Damage:**  
- Root Damage [ ]  
- Plants [ ]  
- Insects [ ]  
- Purplish [ ]  
- Diseases [ ]  
- Yellowish [ ]  
- Nematodes [ ]  
- Stunting [ ]

*Note: The page includes additional notes and diagrams related to the survey, but they are not transcribed here.*
### BioEnt – Early Season Survey

**Grower:** N\_S\_W  
**Date:** 5/14/2013  
**Growth Stage:** FG

#### General Information
- **Field Name/Number:** 12R2
- **General Appearance:** OK
- **Size:** 8" x Variation
- **Leaf Color:** OK
- **Variance:**
- **Plant Population:** OK
- **Soil Moisture:** 0-12
- **AWC:** 0-70

#### Vigor
- **General:** OK
- **Spotty:**
- **Stress:** Heat
- **Nitrogen:**
- **General:** OK
- **Spotty:**
- **Stress-Chlorophyll:** None
- **Low:**
- **High:**

#### Weed Control
- **Good:** OK
- **Poor:**
- **Spotty:**
- **Dense Spots:**
- **Grasses:**
- **Broadleaves:**
- **Perennials:**

#### Comments:

*Grass spots - Dense spots
Reduce growth in dense spots (6" + *)

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

#### Pests
- **Seed Corn Maggots**
- **Foliar Disease-Rust**
- **Foliar Disease-Fungi**
- **Corn Borer-%**
- **Stunted plants**
- **Root Damage:**
  - Insects
  - Plants
  - Nematodes
  - Stunting

#### Annual Plants
- **Annual Grasses AG**
- **Foxtail F**
- **Panicum -Fall FP**
- **Quack grass QG**
- **Wirestem Muhly WM**
- **Field Sandbur FS**
- **Crabgrass CG**
- **Johnsongrass JG**
- **Shattuck 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
- **Emergence**
- **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**
- **Bugguwip**
- **Stalk bending**
- **Twisted whorl**

#### Doubles
- **%**

#### Density
- **Variance**

#### Growth
- **Variance**

#### Plant Spacing
- **Variance**

#### Emergence
- **Variance**

#### Soil Temperature
- **2"**

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

#### Other
- **Cutworms**
- **Armyworms**
- **Stalk borers**
- **Wireworms**
- **Spider mites**
- **White Grubs**
- **Flea Beetles**
- **Aphids**
- **Slugs**
- **Leafhoppers**
BioEnt – Early Season Survey

Seed Corn ☐ Corn ☐ Soybeans ☒ Wheat ☒ Grower M SU Date 5/16/2013
Field Name/Number: 3R2 
Growth Stage: F6

General Appearance: OK Size: 5' Variance: 
Leaf Color: 05 Variance:
Plant Population: Soil Moisture 0-12: 65-70% AWC 12+: 70-75% AWC

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

Comments:

- Weed - die back normal
- Disease levels were zero

- Annual Grasses AG
- Foxtail F
- Panicum - Fall FFP
- Quack grass QQ
- Wirestem Muhly WM
- Field Sandbur FS
- Crabgrass CG
- Johnson grass JG
- Shattercane SCA
- Nutsedge NS
- Winter Annuals WA
- Chickweed CW
- Biannuals 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 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
- 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
☐ Seed Corn Maggots
☐ Foliar Disease-Rust
☐ Foliar Disease-Fungi
☐ Corn Borer-%
☐ Stunted plants

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

**Grower:** MSH  
**Date:** 5/16/2013

### Field Name/Number

- [ ] Seed Corn  
- [ ] Corn  
- [ ] Soybeans  
- [x] Wheat

### General Appearance

- [ ] OK
- [ ] Size 6"
- [ ] Variance

### Plant Population

- [ ] Vigor: Good  
- [x] 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:

- [x] None Required

### Comments:

- Small Weeds  
- Mag Weeds  
- Cover Crop  
- Ragweed general & Dense
- high variance in growth & color

### 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
- Biannuals WB
- Cover Crop CC
- Velvetleaf VL
- Cocklebur CBUR
- Milkweed CM
- Pigweed RRP
- Horse nettle HN
- Bindweed -Field FBW
- Bindweed -Hedge HBW
- Smartweed -Penn. PSM
- Smart -Swamp SSM
- Dogbane -Hemp HDB
- Lambsquarter LOU
- Ragweed CRAG
- Ragweed -Giant GRAG
- Dock -Curly CD
- Nightshade -Black BNS
- Jimsonweed JW
- Canada Thistle CTH
- Yellow Rocket YR
- Perennials P
- Pokeweed PW

### Pest Issues:

- Cutworms
- White Grubs
- Flea Beetles
- Aphids
- Wireworms
- Spider mites
- Seed Corn Maggots
- Foliar Disease-Rust
- Foliar Disease-Fungi
- Corn Borer-%
- Stunted plants
- Root Damage
- Insects
- Diseases
- Yellowish
- Nematodes
- Stunting

### Soil Temperature

- [ ] 2°
BioEnt – Early Season Survey

Seed Corn □ Corn □ Soybeans □ Wheat □ Alfalfa
Grower □ MS 4 □ Date 5/16/2013
Field Name/Number □ TBI □
Growth Stage □ TBB
General Appearance □ OK □ Size □ 16" □ Variance □ OK □ Leaf Color □ Good □ Variance □ OK
Plant Population □ Soil Moisture 0-12 □ 12+ □ OK □ %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 □ OK □ Watch □ Yes, see comments

Comments:

growth/development normal

□ Annual Grasses AG □ Foxtail F □ Panicum-Fall FP □ Quack grass QG □ Wirestem Muhly WM □ Field Sandbur FS □ Crabgrass CG □ Johnsongrass JG □ Shattercane SCA □ Nutseed NS □ Winter Annuals WA □ Chickweed CW □ Biannuals WB □ Cover Crop CC □ Velvetleaf VL □ Cocklebur CBUR □ Milkweed 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 □ Buggywip □ Stalk bending □ Twisted whorl □ Doubles □ % □ Density □ Variance □ Growth □ Variance □ Plant spacing □ Variance □ Emergence □ Variance □ Soil Temperature □ 2°

□ Cutworms □ White Grubs □ Seed Corn Maggots □ Foliar Disease-Rust □ Foliar Disease-Fungi □ Corn Borer-% □ Stunted plants □ Root Damage □ Plants □ Insects □ Purplish □ Diseases □ Yellowish □ Nematodes □ Stunting

Alfalfa Warning
1.0 ft of Curly Sweep
2 of 3 sweeps
Alfalfa 15-16 1/4
BioEnt – Early Season Survey  
Gary Manley 269-273-7070 or 269-816-1080

Seed Corn ☐ Corn ☐ Soybeans ☐ Wheat ☐  
Grower  NSY Date 5/16/2013

Irrigation study: Irrigated Growth Stage

General Appearance ☐ Study Size ☐ Variance ☐ Leaf Color ☐ Variance

Plant Population ☐ Soil Moisture 0-12 65-70 12+ 70-75 %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:
No irrigation to date, only N2 effect

☐ Annual Grasses AG ☐ Foxtail F ☐ Pigweed RRP
☐ Panicum-Fall FP ☐ Quack grass QG ☐ Horsenettle HN
☐ Wirestem Muhly WM ☐ Field Sandbur FS ☐ Bindweed -Field FBW
☐ Crabgrass CG ☐ Johnsongrass JG ☐ Bindweed -Hedge HBW
☐ Shattercane SCA ☐ Nutsedge NS ☐ Smartweed -Penn. PSM
☐ Winter Annuals WA ☐ Chickweed CW ☐ Smart -Swamp SSM
☐ Biennials WB ☐ Cover Crop CC ☐ Dogbane -Hemp HDB
☐ Velvetleaf VL ☐ Cocklebur CBUR ☐ Lamb'squarter LOU
☐ Milkweed CM ☐ Ragweed CRAG ☐ Ragweed -Giant GRAG

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
No Irrigation to

Date

Comments: