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

Seed Corn  Corn  Soybeans  Wheat  Grower  Date 8/15/2013
Field Name/Number  7124  Growth Stage

General Appearance  Size  Variance  Leaf Color  Variance

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

Plant Population  Soil Moisture 0-12  12+  %AWC

ACTION:
[ ] None Required
[ ] Watch
[ ] Yes, see comments

Comments:

Herbicide treatment did good job.
Field clean.
No Active Growing.

<table>
<thead>
<tr>
<th>Annual Grasses AG</th>
<th>Pigweed RRP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foxtail F</td>
<td>Horsesettle HN</td>
</tr>
<tr>
<td>Panicum -Fall FP</td>
<td>Bindweed -Field FBW</td>
</tr>
<tr>
<td>Quack grass CG</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 LOU</td>
</tr>
<tr>
<td>Shatercane 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>Cockscomb CBUR</td>
<td>Perennials P</td>
</tr>
<tr>
<td>Milkwheat CM</td>
<td>Pokeweed PW</td>
</tr>
</tbody>
</table>

| Germination | No |
| Emergence   | Breaking |
| 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 |
| Buggy whip | Stalk bending | Twisted whorl |
| Doubles | % |
| Density | Variance |
| Growth | Variance |
| Plant spacing | Variance |
| Emergence | Variance |
| Soil Temperature | 2" |

<table>
<thead>
<tr>
<th>Cutworms</th>
<th>Root Damage</th>
</tr>
</thead>
<tbody>
<tr>
<td>White Grubs</td>
<td>Insects</td>
</tr>
<tr>
<td>Flea Beetles</td>
<td>Diseases</td>
</tr>
<tr>
<td>Aphids</td>
<td>Yellowish</td>
</tr>
<tr>
<td>Slugs</td>
<td>Nematodes</td>
</tr>
<tr>
<td>Leafhoppers</td>
<td>Stunting</td>
</tr>
</tbody>
</table>
Comments:

Herbicide treatment did good job. Clean, no active growing weeds.
BioEnt – Early Season Survey

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

Seed Corn [x] Corn [ ] Soybeans [ ] Wheat [x] Grower MSA Date 9/5/2013
Field Name/Number 93 24 Growth Stage
General Appearance [ ] Size [ ] Variance [ ] Leaf Color [ ] Variance [ ]
Plant Population [ ] Soil Moisture 0-12 [ ] 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:

Good weed control
Clover 1-2" tall
Good stand
Scattered wheat plants with dense spots

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
Biannials 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
Lambshquarter 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 [x] 1/4" Root [x] Spike PE
Emergence [ ] Breaking [ ] VC / V1
Nutrient Deficiency [ ] Spots [ ] General
Soil Compaction: [ ] Spots [ ] General
Soil Surface: [ ] Hard [ ] Crusted
Standing Water [ ] Small Spots [ ] Large Spots
Herbicide damage [ ] Emergence stress
Physiological Disorder in Corn [ ] Yellowish whorl
Buggywip [ ] Stalk bending [x] 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
Stalk borers [ ] Aphids [ ] Foliar Disease-Fungi
Wireworms [ ] Slugs [ ] Corn Borer-%
Spider mites [ ] Leafhoppers [ ] Stunted plants

Root Damage [ ] Insects [ ] Plants
[ ] Diseases [ ] Purplish
[ ] Yellowish [ ] Nematodes [ ] Stunting
**BioEnt - Early Season Survey**

**Grower:** MSU  
**Date:** 9/15/2013  
**Field Name/Number:** T4R4

<table>
<thead>
<tr>
<th>Vigor</th>
<th>General</th>
<th>Spotty</th>
<th>Stress-Chlorophyll</th>
<th>None</th>
<th>Low</th>
<th>High</th>
<th>General</th>
<th>Spotty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Good</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OK</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Poor</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Comments:**

  Clover 16'-20' Rune  
  Fall flowers  
  Tandem Stanza  
  Few Foxtail & Ragweed

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

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

<table>
<thead>
<tr>
<th>ACTION:</th>
</tr>
</thead>
</table>
| None Required  
| Watch                   |
| Yes, see comments        |

<table>
<thead>
<tr>
<th>Comments:</th>
</tr>
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</table>
| 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  
| Horseradish 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

- **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

- **Emergence:** Variance

- **Soil Temperature:** 2°

- **Cutworms:**
- **White Grubs:**
- **Seed Corn Maggots:**
- **Flea Beetles:**
- **Aphids:**
- **Slugs:**
- **Leafhoppers:**

- **Root Damage:**

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

Seed Corn ☐ Corn ☐ Soybeans ☐ Wheat ☐ Grower MSY Date 7-15-2013
Field Name/Number Alfalfa Tary
General Appearance OK Size OK Variance OK Leaf Color OK Variance OK
Plant Population Soil Moisture 0-12 OK 12+ OK %AWC

Vigor: ☑ Good ☐ OK ☐ Poor Stress: ☐ 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:
Regrowth 15” Range
Color growth odd
No key tip damage.

☐ Annual Grasses AG
☐ Foxtail F
☐ Panicum-Fall FP
☐ Quack grass QQ
☐ 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: ☐ 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 OK Variance OK
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 ☐ Stunting
☐ Nematodes ☐ Stunting
BioEnt – Early Season Survey

Seed Corn ☐ Corn ☐ Soybeans ☐ Wheat ☐ Grower: MSA Date: 9/5/2013
Field Name/Number: N/A Irrigated

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

Plant Population: Soil Moisture 0-12: 12+: Percentage 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:
Herbicide did a good job.
Great control.
No active growing.

☐ Annual Grasses AG
☐ Foxtail F
☐ Panicum -Fall FP
☐ Quack grass CG
☐ Wiremuhly 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 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
☐ Soil Surface:
☐ Hard ☐ Crusted
☐ Standing Water
☐ Small Spots ☐ Large Spots
☐ Herbicide damage
☐ Emergence stress
☐ Physiological Disorder in Corn ☐ Yellowish whorl
☐ Buggynip ☐ 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
☐ Seed Corn Maggots
☐ Foliar Disease -Rust
☐ Foliar Disease -Fungi
☐ Corn Borer -% ☐ Stunted plants

☐ Root Damage
☐ No ☐ Insects ☐ Purplish
☐ No ☐ Diseases ☐ Yellowish
☐ No ☐ Nematodes ☐ Stunting
**BioEnt – Early Season Survey**

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

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

**Grower:** ________  **Date:** 9/5/2013

**Field Name/Number:**  **Non-Irrigated**

**General Appearance:**
- **Size:**
- **Variance:**
- **Leaf Color:**
- **Variance:**

**Plant Population:**  **Soil Moisture:** 0-12

- **12+**
- **%AWC**

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

**Comments:**

*Herbicide treatment did a good job.*

*No active growing weeds.*

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**Actions:**

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

**Features:**

- **Germination**
- **No**
- **1/4” Root**
- **Spike PE**
- **Emergence**
- **Breaking**
- **VC / V1**
- **Nutrient Deficiency**
- **Spots**
- **General**
- **Soil Compaction:**
  - **Spots**
  - **General**
  - **Hard**
  - **Crumbed**
- **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**
- **Slugs**
- **Leafhoppers**

**Plants:**
- **Seed Corn Maggots**
- **Foliar Disease-Rust**
- **Foliar Disease-Fungi**
- **Corn Borer-%**
- **Stunted plants**

**Root Damage:**
- **Insects**
- **Diseases**
- **Nematodes**
- **Purplish**
- **Yellowish**

**Soil Temperature:** 2”

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