BioEnt – Early Season Survey

Seed Corn ☐ Corn ☐ Soybeans ☐ Wheat ☑ Grower: M.Y
Date: 6/12/2013

Field Name/Number: TIRY
Growth Stage: OK

General Appearance: OK
Size: OK
Variance: OK
Leaf Color: OK
Variance: OK
Plant Population: OK
Soil Moisture: 0-12 ☑ good 12+: ☑ good

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:

Flowering currently

low leafy S.aptarias lesions on flag leaf
< 1% of plants

Some old cereal leaf beetle feeding - low level

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 ☐ Velvetchain VL
Cocklebur CBUR ☐ Milkweed CM
Pigweed RRP ☐ Horse nettle HN
Bindweed Field FBW ☐ Smartweed Penn PSM
Dock Curly CD ☐ Nightshade Black BNS
Jimsonweed JW ☐ Canada Thistle CTH
Dogbane Hemp HDB ☐ Ragweed CRAG
Dock Curly CD ☐ Nightshade Black BNS
Jimsonweed JW ☐ Canada Thistle CTH
Pigweed RRP ☐ Horse nettle HN
Bindweed Field FBW ☐ Smartweed Penn PSM
Dock Curly CD ☐ Nightshade Black BNS
Jimsonweed JW ☐ Canada Thistle CTH

Germination ☐ No ☑ 1/4" Root ☐ Spike PE
Emergence ☐ Breaking ☐ VC/V1
Density ☐ Variance ☑

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 ☐

Nutrient Deficiency ☐ Spots ☐ General

Plant spacing ☐ Variance ☑
Emergence ☐ Variance ☑
Soil Temperature ☐ 2°

Cutworms ☐ White Grubs ☐ Seed Corn Maggot
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
☐ Purplish ☐ Diseases ☐ Yellowish
☐ Nematodes ☐ Stunting
BioEnt – Early Season Survey

Field Name/Number: 12 Ry
Grower: M
Date: 6/12/2013

General Appearance: OK
Size: OK
Variance: OK
Leaf Color: OK
Variance: OK
Plant Population: OK
Soil Moisture: 0-12 Good
12+ Good

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:
Flowering Currently
Old Cereal leaf beetle feeding general
<weel below threshold>

Disease levels very low on flag leaf

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
□ Insects
□ Diseases
□ Nematodes
□ Purplish
□ Yellowish
□ Stunting

 aborted by user a
Comments:
Flowering Currently
Old Cereal Leaf Beetle Feeding
Disease levels low as of Flag leaf

ACTION:
None Required
Watch
Yes, see comments

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

No Soil Compaction: No Soil Surface:
No Spots No General No Hard No Crusted
No Standing Water No Small Spots No Large Spots

No Herbicide damage No Emergence stress

No Physiological Disorder in Corn No yellowish whorl
No Bugglywip No Stalk bending No Twisted whorl

Doubles %
Density Variance
Growth Variance
Plant spacing Variance
Emergence Variance
Soil Temperature 2°

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

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

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

<table>
<thead>
<tr>
<th>Plant Population</th>
<th>Soil Moisture</th>
<th>0-12</th>
<th>12+</th>
<th>%AWC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OK</strong></td>
<td><strong>Good</strong></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

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

**Comments:**
- Mayweed flowering (Common)
- Clover Cover 6" Ranger
- Flowering Currently
- Flag Leaf looks ok very low disease level

<table>
<thead>
<tr>
<th>Annual Grasses AG</th>
<th>Pigweed RRP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foxtail F</td>
<td>Horseenette HN</td>
</tr>
<tr>
<td>Panicum -Fall FP</td>
<td>Bindweed -Field FBW</td>
</tr>
<tr>
<td>Quack grass QG</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>Shartecane SCA</td>
<td>Ragweed CRAG</td>
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<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>Biannuals 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>Cocklebur CBUR</td>
<td>Perennials P</td>
</tr>
<tr>
<td>Milkweed CM</td>
<td>Pokeweed PW</td>
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<table>
<thead>
<tr>
<th>Germination</th>
<th>No</th>
</tr>
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<tbody>
<tr>
<td>1/4&quot; Root</td>
<td>Spike PE</td>
</tr>
<tr>
<td>Emergence</td>
<td>Breaking</td>
</tr>
<tr>
<td>Nutrient Deficiency</td>
<td>Spots</td>
</tr>
<tr>
<td>Soil Compaction:</td>
<td>Soil Surface:</td>
</tr>
<tr>
<td>Spots</td>
<td>General</td>
</tr>
<tr>
<td>Hard</td>
<td>Crusted</td>
</tr>
<tr>
<td>Standing Water</td>
<td>Small Spots</td>
</tr>
<tr>
<td>Large Spots</td>
<td></td>
</tr>
<tr>
<td>Herbicide damage</td>
<td>Emergence stress</td>
</tr>
<tr>
<td>Physiological Disorder in Corn</td>
<td>Yellowish whorl</td>
</tr>
<tr>
<td>Buggywip</td>
<td>Stalk bending</td>
</tr>
<tr>
<td>Twisted whorl</td>
<td></td>
</tr>
<tr>
<td>Doubles</td>
<td>%</td>
</tr>
<tr>
<td>Density</td>
<td>Variance</td>
</tr>
<tr>
<td>Growth</td>
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</tr>
<tr>
<td>Plant spacing</td>
<td>Variance</td>
</tr>
<tr>
<td>Emergence</td>
<td>Variance</td>
</tr>
<tr>
<td>Soil Temperature</td>
<td>2&quot;</td>
</tr>
</tbody>
</table>

- Cutworms
- White Grubs
- Flea Beetles
- Seed Corn Maggots
- Armyworms
- Aphids
- Foliar Disease-Rust
- Stalkborers
- Slugs
- Foliar Disease-Fungi
- Wireworms
- Leathoppers
- Corn Borer-%
- Spider mites
- Stunted plants

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

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

Seed Corn ☐ Corn ☐ Soybeans ☐ Wheat ☐ Grower: NISA Date: 01/3/2013

Field Name/Number: TRY Growth Stage: 


Vigor: ☒ Good ☐ OK ☐ Poor Stress: ☐ General ☐ Spotty Stress-Chlorophyll: ☐ General ☐ Spotty

Weed Control: ☒ Good ☐ OK ☐ Poor ☐ Spotty ☐ Dense Spots ☐ Grasses ☐ Broadleaves ☐ Perennials

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

Comments:

Regrowth 3-4+" Range
no leafhoppers
very low density Aphids
low level mivid bugs.

□ 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
□ Horsenettle HN
□ Bindweed -Field FBW
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□ Smartweed -Penn. PSM
□ Smart -Swamp SSM
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□ 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 __________ 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

Seed Corn ☐ Corn ☐ Soybeans ☐ Wheat ☐ Grower M.S. Date 6/12/2013
Field Name/Number Irrigated Plot 12 growth study Growth Stage
General Appearance OK Size OK Variance OK Leaf Color OK Variance OK
Plant Population OK Soil Moisture 0-12 good 12+ good %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:
Flowering Currently
low leafy cereal leaf beetle feeding (old)
low disease levels

Annual Grasses AG
Foxtail F
Panicum-Fall FP
Quack grass CG
Wirestem Muhly WM
Field Sandbur FS
Crabgrass CG
Johnsongrass JG
Shatter cane SCA
Nutsedge NS
Winter Annuals WA
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Pigweed RRP
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Bindweed -Field FBW
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Smartweed -Penn. PSM
Smart -Swamp SSM
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Germination ☐ No ☐ 1/4” Root ☐ Spike PE
Emergence ☐ Breaking ☐ VC / V1
Nutrient Deficiency ☐ Spots ☐ General
Soil Compaction: ☐ Soil Surface:
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Standing Water ☐ Small Spots ☐ Large Spots
Herbicide damage ☐ Emergence stress
Physiological Disorder in Corn ☐ Yellowish whorl
☐ Buggywip ☐ Stalk bending ☐ Twisted whorl
Doubles ☐ %
Density ☐ Variance ☐ Variance
Growth ☐ Variance ☐ Variance
Plant spacing ☐ Variance ☐ Variance
Emergence ☐ Variance ☐ 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
**BioEnt – Early Season Survey**

**Grower:** MN

**Date:** 6/1/2013

<table>
<thead>
<tr>
<th>Field Name/Number</th>
<th>Non-Irrigated – N Study</th>
<th>Growth Stage</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Appearance</td>
<td>OK</td>
<td>Variance</td>
</tr>
<tr>
<td>Size</td>
<td>ok</td>
<td></td>
</tr>
<tr>
<td>Leaf Color</td>
<td>OK</td>
<td>Variance</td>
</tr>
</tbody>
</table>

**Plant Population:** OK

**Soil Moisture:** 0-12  12+  90%

**%AWC**

**Vigor:** [ ] Good | [ ] OK | [ ] Poor

**Stress:** [ ] Heat | [ ] Moisture | [ ] Nitrogen

**Stress-Chlorophyll:** [ ] None | [ ] Low | [ ] High

**Weed Control:** [ ] Good | [ ] OK | [ ] Poor | [ ] Spotty | [ ] Dense Spots

**ACTION:**

[ ] None Required

[ ] Watch

[ ] Yes, see comments

**Comments:**

Flowering currently
Low locust cereal
Leaf beetle feeding low
Low disease levels

**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 | Horse-nettle HN |

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| 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 |

| Buggywip | Stalk bending | Twisted whorl |

| Doubles | [ ] % |

| Density | Variance | % |

| Growth | Variance | % |

| Plant spacing | Variance | % |

| Emergence | Variance | % |

| Soil Temperature | 2” | % |

**Cutworms**

[ ] Arm/woorms

[ ] 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