## BioEnt - Early Season Survey

**Grower:** M & N  
**Date:** 8/8/2013

### Field Name/Number: 1/82

### General Appearance

- **Vigor:** [ ] Good  [ ] OK  [ ] Poor  
- **Stress:** [ ] Heat  [ ] Moisture  [ ] Nitrogen  
- **Stress-Chlorophyll:** [ ] None  [ ] Low  [ ] High  
- **Weed Control:** [ ] Good  [ ] OK  [ ] Poor  [ ] Spotty  
- **Plant Population:** Grasses  Broadleaves  Perennials

### Size & Variance

- **Leaf Color:** [ ] General  [ ] Spotty

### Soil Moisture

- **0-12:** OK
- **12+:** OK

### ACTION:

- [ ] None Required
- [ ] Watch
- [ ] Control
- [ ] Yes, see comments

### Comments:

Post-harvest
Annual grasses general
Some starting to produce seed heads
Control prior to seed production

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### Weeds

- Annual Grasses AG
- Foxtail F
- Panicum-Fall FP
- Quack grass QG
- Wirestem Muhly WM
- Field Sandbur FS
- Crabgrass CG
- Johnsongrass JG
- Shatercane SCA
- Nutseed 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
- 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

### Weed Management

- Germination
- Emergence
- Nutrient Deficiency
- Soil Compaction:
  - Spots
  - General
- Standing Water
- Herbicide damage
- Physiological Disorder in Corn
- Buggwynp
- Stalk bending
- Twisted whorl
- doubles
- Density
- Growth
- Plant spacing
- Emergence
- Soil Temperature 2°

### Insects & Diseases

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

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

Seed Corn ☐  Corn ☐  Soybeans ☐  Wheat ☑  Grower MSU Date 5/8/2013
Field Name/Number T2R1  Growth Stage

General Appearance  Size  Variance  Leaf Color  Variance
Plant Population  Soil Moisture 0-12  OK  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  ☑ Control
☐ Watch  ☐ Yes, see comments

Comments:
Post-harvest Annual grains general some starting to produce seed heads Control prior to seed production

Annual Grasses AG  Pigweed RRP
Foxtail F  Horsenettle 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 LQU
Shattercane SCA  Ragweed CRAG
Nutsedge NS  Ragweed-Giant GRAG
Winter Annuals WA  Dock-Curly CD
Chickweed CW  Nightshade-Black BNS
Biennials WB  Jimsonweed JW
Cover Crop CC  Canada Thistle CTH
Velvetleaf VL  Yellow Rocket YR
Cocklebur CBUR  Perennials P
Milkwort 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
Bugguywip ☐  Stalk bending ☐ Twisted whorl
Doubles _________ %
Density _________ Variance _________
Growth _________ Variance _________
Plant spacing _________ Variance _________
Emergence _________ Variance _________
Soil Temperature 2°

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

Plants

Purplish
Diseases
Yellowish
Stunting
**BioEnt – Early Season Survey**

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

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

Grower: **MGU**
Date: **8/8/2012**

Field Name/Number: **12 R 1 + R 3**

**General Appearance**

- Size
- Variance
- Leaf Color
- Variance

**Plant Population**

- Soil Moisture: 0-12 **OK**
- 12+ **OK**
- %AWC

**Vigor**

- Good
- OK
- Poor

**Stress**

- Heat
- Moisture
- Nitrogen

**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:**

- **Post-Harvest**
- Sprayed granular weeds
- Starting to see yellowish color
- Herbicide working

**Soils:**

- Annual Grasses AG
- Foxtail F
- Panicum-Fall FP
- Quack grass QG
- Wirestem Muhly WM
- Field Sandbar FS
- Crabgrass CG
- Johnsonsgrass JG
- Shattercone SCA
- Nutsedge NS
- Winter Annuals WA
- Chickweed CW
- Biannuals WB
- Cover Crop CC
- Velvetleaf VL
- Cocklebur CBUR
- Milkwheat 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:**

- 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"

**Root Damage**

- Insects
- Plants
- Purplish

- Diseases
- Yellowish

- Nematodes
- Stunting
BioEnt – Early Season Survey

Date: 8/8/2023

Field Name/Number: T4R1

General Appearance: Size: Variance

Leaf Color: Variance

Plant Population: Soil Moisture 0-12

Action:

None Required
Watch

Comments:
Post harvest
Good Clover stand
Scattered Crabgrass

Annual Grasses AG
- Foxtail
- 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
- Biennials WB
- Cover Crop CC
- Velvetleaf VL
- Cocklebur CBUR
- Milkweed CM

Annual Grasses AG
- Pigweed RRP
- Horsenettle HN
- Bindweed - Field FBW
- Bindweed - Hedge HBW
- Smartweed - Penn. PSM
- Smart - Swamp SSM
- Dogbane - Hemp HDB
- Lambsquaher 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 No Spike PE
Emergence
Breaking No VC/V1
Nutrient Deficiency
No Spots
Soil Compaction:
No Soil Surface:
Spots General
Hard
Crusted
Standing Water
Small Spots
Large Spots
Herbicide damage
Emergence stress
Physiological Disorder in Corn
No Yellowish whorl
Buggywip
Stalk bending
Twisted whorl
Doubles
Density
Variance
Growth
Variance
Plant spacing
Variance
Emergence
Variance
Soil Temperature
2°

Cutworms
No
White Grubs
No
Seed Corn Maggots
Foliar Disease - Rust
Foliar Disease - Fungi
Corn Borer -% Stunted plants

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

Seed Corn □ Corn □ Soybeans □ Wheat □

Grower: M. Myers
Date: 8/8/2013

Field Name/Number: 76R2, Alfalfa, early flower
Growth Stage: G8

General Appearance: OK
Size: 2.5
Variance: ±
Leaf Color: Green
Variance: ±

Plant Population: ______
Soil Moisture: 0-12

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: T6R2
Leaves appear - 0.1/5 sweep (Low)
Aphids - general

Annual Grasses AG
Foxtail F
Panicum-Fall FP
Quack grass QG
Wiredem Muhly WM
Field Sandbur FS
Crabgrass CG
Johnson grass JG
Shalercane SCA
Nutseed NS
Winter Annuals WA
Chickweed CW
Bianuals WB
Cover Crop CC
Velvetleaf VL
Cocklebur CBUR
Milkweed CM

Pigweed RRP
Horsenettle HN
Bindweed - Field FBW
Bindweed - Hedge HBW
Smartweed - Penn. PSM
Smart - Swam SSM
Dogbane - Hemp HDB
Lamb'squarter LOU
Ragweed CRAG
Ragweed - Giant GRAG
Dock - Curly CD
Nachtshade - 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
□ Bouncyb □ 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
□ Leaffoppers
□ 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**  
Gary Manley 269-273-7070 or 269-816-1080

- **Grower**: MSA  
- **Date**: 8/5/2013

**Field Name/Number**: Irrigated  
**Growth Stage**:

<table>
<thead>
<tr>
<th>Plant Population</th>
<th>Soil Moisture 0-12</th>
<th>12+</th>
<th>%AWC</th>
</tr>
</thead>
</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  
- [ ] Control (Grasses)

**Comments**:  
Post-harvest, grasses general starting to produce seed heads. Consider cutting grasses followed by herbicide application.

```markdown
- Annual Grasses AG
  - Foxtail F
  - Panicle-Fall FP
  - Quack grass GQ
  - Wirestem Muhly WM
  - Field Sandbur FS
  - Crabgrass CG
  - Johnsongrass JG

- Nutrition SG
  - Sedge NS
  - Winter Annuals WA
  - Chickweed CW

- Bunkweed WB
  - Cover Crop CC

- Velvet VL
  - Cocklebur CBUR

- Milkweed CM
```

**Weeds**:
- [ ] Pigweed RRP
  - Horsenettle HN
- [ ] Bindweed -Field FBW
  - Bindweed -Hedge HBW
- [ ] Smartweed -Penn. PSM
  - Smart -Swamp SSM
- [ ] Dogbane -Hemp HDB

- [ ] Lambsquarters 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**: No  
**Spike PE**: No

**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

- [ ] Nematodes
- [ ] Stunting
BioEnt – Early Season Survey
Gary Manley 269-273-7070 or 269-816-1080

□ Seed Corn □ Corn □ Soybeans □ Wheat
Grower MSY Date 8/6/2013
Field Name/Number Non-irrigated
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 □ Control grasses
□ Watch □ Yes, see comments

Comments:
Post-harvest
grass general
starting to produce
seed heads—
Consider Cutting grasses
followed by
herbicide application

□ Annual Grasses AG
□ Foxtail F
□ Panicum Fay 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
□ Milkwheat CM
□ Pigweed RRP
□ Horsemint 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: □ Soil Surface:
□ 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
□ 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