### BioEnt – Early Season Survey

**Date:** 7/5/2018

**Seed Corn**  
**Corn**  
**Soybeans**  
**Wheat**  
**Green Beans**

**Field Name/Number:** T1R5  
**Grower:** Ms  
**Growth Stage:** R1

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

**Plant Population:**  
**Soil Moisture 0-12:**  
**Vigor:**  
**General:**  
**Spotty:**

**Stress:**  
**Heat:**  
**Moisture:**  
**Nitrogen:**  
**General:**  
**Spotty:**

**Stress-Chlorophyll:**  
**None:**  
**Low:**  
**High:**  
**General:**  
**Spotty:**

**Weed Control:**  
**Good:**  
**OK:**  
**Poor:**  
**Spotty:**  
**Dense Spots:**

**Germination**  
**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**

**Doubles**  
**%**

**Density**  
**Variance**

**Growth**  
**Variance**

**Plant spacing**  
**Variance**

**Emergence**  
**Variance**

**Soil Temperature**  
**2°**

**Soil Moisture 12-24**  
**24+**  
**%AWC**

**Foliar Disease-Rust**  
**Foliar Disease-Fungi**

**Corn Borer- %**  
**Stunted plants**

**Insects**  
**Diseases**  
**Yellowish**

**Nematodes**  
**Stunting**

**ACTION:**  
**None Required**

**Watch**

**Yes, see comments**

**Comments:**

- Consider control of grasses - low density but general

- 15' Rows 34,846 =

- 15.916/5 ft x 34,846 = counted 65 ft of row length

- 110,932 ACRE

- Cutworms CW  
- White Grubs WG  
- Seed Corn Maggots  
- Root Damage  
- Root Damage - Insects  
- Root Damage - Plants  
-Armyworms AW  
- Flea Beetles FB  
- Foliar Disease-Rust  
- Purplish
- Stalkborers SB  
- Aphids A  
- Foliar Disease-Fungi  
- Yellowish
- Wireworms WW  
- Slugs S  
- Corn Borer-%  
- Diseases
- Spider Mites SM  
- Leafhoppers LH  
- Stunted plants  
- Nematodes  
- Cutting
### BioEnt – Early Season Survey

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

- **Date:** 7/5/2018
- **Field Name/Number:** R2R5
- **Grower:** MGY
- **Growth Stage:** R

#### General Appearance
- **Size:** OK
- **Leaf Color:** OK

#### Plant Population
- **Soil Moisture:**
  - 0-12 %AWC
  - 12-24 %AWC
  - 24+ %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:

- **Germination:**
  - [ ] No
  - [ ] 1/4" Root
  - [ ] Spike PE

- **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 CW
- [ ] Armyworms AW
- [ ] Stalkborers SB
- [ ] Wireworms WW
- [ ] Spider Mites SM

#### Diseases
- [ ] White Grubs WG
- [ ] Flea Beetles FB
- [ ] Aphids A
- [ ] Slugs S
- [ ] Leafhoppers LH
- [ ] Seed Corn Maggots
- [ ] Foliar Disease-Rust
- [ ] Foliar Disease-Fungi
- [ ] Corn Borer-%
- [ ] Stunted plants

#### Root Damage
- [ ] Insects
- [ ] Plants
- [ ] Purplish
- [ ] Yellowish

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

☐ Seed Corn  ☐ Corn  ☐ Soybeans  ☐ Wheat  ☐ Green Beans  ☐ Soybeans  ☐ Wheat  ☐ Green Beans

Field Name/Number:  MBY  Grower:  MSU  Growth Stage: 6/7

General Appearance:  ☐ ok  Size:  ☐ ok  Variance:  ☐ ok  Leaf Color:  ☐ ok  Variance:  ☐ ok

Plant Population:  ☐ ok  Soil Moisture:  0-12  ☐ 12-24  ☐ 24+  ☐ %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:

5-6" 15/16

12 9 11 11 a 10 13

8 11 9 9 17 7 =10.35

74.923 ACRE

GOOD WEED CONTROL

54.46

5+5/5(+) x .4(848) = 74.923

Counted 5 (4+) of row length.

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

- **Field Name/Number**:  
  - **Grower**: MGL  
  - **Growth Stage**: V3  
  - **Date**: 7/15 2016

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

**Stress-Chlorophyll**:  
- **None**  
- **Low**  
- **High**  
- **General**  
- **Spotty**

- **Stress**: Heat  
- **Elloisture**

**Vigor**:  
- **Good**  
- **OK**  
- **Poor**  
- **General**  
- **Spotty**

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

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

**Comments:**

- **13 44” Range**
- **36 38 37 39 31 35**
- **38” Rows 17/4” 40/3 Acte**

- **V3 44” Range**
- **36 38 37 39 35**
- **38” Rows 17/4”**

**W**

**E**

**S**

**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**

- **Plant spacing**:  
- **Variance**

- **Emergence**:  
- **Variance**

- **Soil Temperature**:  
  - **2”**

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

- **Cutworms CW**  
- **Armyworms AW**  
- **Stalkborers SB**  
- **Wireworms WW**  
- **Spider Mites SM**

- **White Grubs WG**  
- **Flea Beetles FB**  
- **Aphids A**  
- **Slugs S**  
- **Leafhoppers LH**

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

- **Annual Grasses AG**  
- **Pigweed RRP**  
- **Horsenettle HN**

- **Foxtail F**  
- **Bindweed -Field FBW**

- **Panicum -Fall FP**  
- **Bindweed -Hedge HBW**

- **Quack grass QG**  
- **Smartweed -Penn. PSM**

- **Wirestem Muhly WM**  
- **Smart -Swamp SSM**

- **Marestail MT**  
- **Dogbane -Hemp HDB**

- **Crabgrass CG**  
- **Lambquarters LOU**

- **Johnsongrass JG**  
- **Ragweed CRAG**

- **Shatercane SCA**  
- **Ragweed -Giant GRAG**

- **Nutsedge NS**  
- **Dock -Curly CD**

- **Winter Annuals WA**  
- **Nightshade -Black BNS**

- **Chickweed CW**  
- **Jimsonweed JW**

- **Biannials WB**  
- **Canada Thistle CTH**

- **Cover Crop CC**  
- **Yellow Rocket YR**

- **Velvetleaf VL**  
- **Perennials P**

- **Cocklebur CBUR**  
- **Pokeweed PW**

- **Milkwed CM**  
- **Root Damage**

- **Seed Corn Maggots**  
- **White Grubs WG**  
- **Flea Beetles FB**  
- **Aphids A**  
- **Slugs S**  
- **Leafhoppers LH**

- **Cutworms CW**  
- **Armyworms AW**  
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- **Annual Grasses AG**  
- **Pigweed RRP**  
- **Horsenettle 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**

- **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**

- **Plant spacing**:  
- **Variance**

- **Emergence**:  
- **Variance**

- **Soil Temperature**:  
  - **2”**

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

- **Cutworms CW**  
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- **Stalkborers SB**  
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- **Spider Mites SM**

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- **Canada Thistle CTH**  
- **Yellow Rocket YR**  
- **Perennials P**  
- **Pokeweed PW**

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  - **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**

- **Plant spacing**:  
- **Variance**

- **Emergence**:  
- **Variance**

- **Soil Temperature**:  
  - **2”**

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

- **Cutworms CW**  
- **Armyworms AW**  
- **Stalkborers SB**  
- **Wireworms WW**  
- **Spider Mites SM**
**BioEnt – Early Season Survey**

Date: **7/15/2013**

- **Field Name/Number:** TCR5  
- **Grower:** JNSA  
- **Growth Stage:**

<table>
<thead>
<tr>
<th>Comments:</th>
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</table>
| **not planted yet**  
| **At the good/ going to burn down.** |

<table>
<thead>
<tr>
<th>Vigor:</th>
<th>Good</th>
<th>OK</th>
<th>Poor</th>
<th>General</th>
<th>Spotty</th>
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<tbody>
<tr>
<td>Stress:</td>
<td>Heat</td>
<td>Moisture</td>
<td>Nitrogen</td>
<td>General</td>
<td>Spotty</td>
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<tr>
<td>Stress-Chlorophyll:</td>
<td>None</td>
<td>Low</td>
<td>High</td>
<td>General</td>
<td>Spotty</td>
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<table>
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<tr>
<th>Weed Control:</th>
<th>Good</th>
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<th>Poor</th>
<th>Spotty</th>
<th>Dense Spots</th>
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<tbody>
<tr>
<td></td>
<td>Grasses</td>
<td>Broadleaves</td>
<td>Perennials</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Plant Population</th>
<th>Soil Moisture 0-12</th>
<th>12-24</th>
<th>24+</th>
<th>%AWC</th>
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</thead>
</table>

**ACTION:**

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

**Weeds:**

- Annual Grasses AG
- Foxtail F
- Panicum - Fall FP
- Quack grass QG
- Wiresstem Muhly WM
- Marestail MT
- Crabgrass CG
- Johnsngass JG
- Shatercane SCA
- Nutsedge NS
- Winter Annuals WA
- Chickweed CW
- Biannuals WB
- Cover Crop CC
- Velvetleaf VL
- Cocklebur CBUR
- Milkweed CM
- Annual Grases AG
- Foxtail F
- Panicum - Fall FP
- Quack grass QG
- Wiresstem Muhly WM
- Marestail MT
- Crabgrass CG
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- Dogbane - Hemp HDB
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- Dock - Curly CD
- Nightshade - Black BNS
- Jimsonweed JW
- Canada Thistle CTH
- Yellow Rocket YR
- Perennials P
- Pokeweed PW
- Cutworms CW
- White Grubs WG
- Seed Corn Maggots
- Foliar Disease - Rust
- Foliar Disease - Fungi
- Corn Borer-%__
- Stunted plants
- Root Damage
- Insects
- Plants
- Purplish
- Diseases
- Yellowish
- Nematodes
- Stunting

<table>
<thead>
<tr>
<th>Foliar Disease - Rust</th>
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<table>
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<tr>
<th>Plant spacing</th>
<th>Variance</th>
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<tr>
<td>Emergence</td>
<td>Variance</td>
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<tr>
<td>Soil Temperature</td>
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<tr>
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<th>Variance</th>
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<tbody>
<tr>
<td>Growth</td>
<td>Variance</td>
</tr>
<tr>
<td>Stunted plants</td>
<td></td>
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</tbody>
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BioEnt – Early Season Survey  Gary Manley 269-273-7070 or 269-816-1080

Date 7/5/2013

Field Name/Number  S  L  W  N

Stunted - W  Stud  1m56

Germination: □ No □ 1/4” Root □ Spike PE

Emergence: □ Breaking □ VC / V1

Nutrient Deficiency: □ Spots □ General □ Spotty

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 CW  □ White Grubs WG
□ Armyworms AW  □ Flea Beetles FB
□ Stalkborers SB  □ Aphids A
□ Wireworms WW  □ Slugs S
□ Spider Mites SM  □ Leafhoppers LH

□ Seed Corn Maggots  □ Foliar Disease-Rust
□ Foliar Disease-Fungi  □ Corn Borer-%
□ Stunted plants

□ Root Damage  □ Insects  □ Purplish
□ Plants  □ Diseases  □ Yellowish
□ Nematodes  □ Stunting

Comments:

8-10” early R1

Few scattered grasses. Control grasses pride.

To canopy.

Soil moisture good for

Pay beans. Need to irrigate before

early next week.

N

W

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

Seed Corn ☐ Corn ☐ Soybeans ☐ Wheat ☐ Green Beans ☐

Field Name/Number ☐

General Appearance ☐

Plant Population ☐

Size 0K Variance ☐

Soil Moisture 0-12 ☐

Leaf Color ☐

Growth Stay ☐

%AWC ☐

Vigor: ☐ Good ☐ OK ☐ Poor ☐

Stress: ☐ Heat ☐ Moisture ☐ Nitrogen ☐

Stress-Chlorophyll: ☐ None ☐ Low ☐ High ☐

Weed Control: ☐ Good ☐ OK ☐ Poor ☐

Comments:

10" early R1

color/growth good

control grasses prior to canopy

Annual Grasses AG

Foxtail F

Panicum -Fall FP

Quack grass QQ

Wirestem Muhly WM

Marestail MT

Crabgrass CG

Johnsongrass JG

Shattercane SCA

Nutsedge NS

Winter Annuals WA

Chickweed CW

Biennials WB

Cover Crop CC

Velvetleaf VL

Cocklebur CBUR

Milkweed CM

Root Damage ☐

Insects ☐

Plants ☐

Purplish ☐

Diseases ☐

Yellowish ☐

Nematodes ☐

Stunting ☐

Germination ☐

Emergence ☐

Nutrient Deficiency ☐

Soil Compaction: ☐

Spots ☐

Soil Surface: ☐

Spots ☐

General ☐

Hard ☐

Crusted ☐

Standing Water ☐

Herbicide damage ☐

Emergence stress ☐

Physiological Disorder in Corn ☐

Yellowish whorl ☐

Buggywip ☐

Stalk bending ☐

Twisted whorl ☐

Doubles ☐

Density ☐

Variance ☐

Plant spacing ☐

Variance ☐

Soil Temperature ☐

2"