## BioEnt – Early Season Survey

**Grower**: MCE

**Field Name/Number**: TIPY

**Growth Stage**: Grain fill

### General Appearance
- **Size**: OK
- **Variance**: OK
- **General**: OK
- **Spotty**: OK

### Plant Population
- **Soil Moisture**: 0-12 9.5
- **12-24**: 75/80 24+
- **%AWC**:

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

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

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

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

### Comments:
- Grain fill leaves standing die back & brown down.
- Scattered, low level.
- Scrub in heads.
- Septoria general on leaves.
- Looks like fungicidal applications did a good job.

### Action
- None Required
- Watch
- Yes, see comments

### Weeds
- **Annual Grasses**: AG
- **Foxtail**: F
- **Panicum - Fall**: FP
- **Quack grass**: QG
- **Wirestem Muhly**: WM
- **Marestail**: MT
- **Crabgrass**: CG
- **Johnsongrass**: JG
- **Biennials**: WB
- **Cover Crop**: CC
- **Velvetleaf**: VL
- **Cocklebur**: CBUR
- **Milkwed**: 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**: JWW
- **Canada Thistle**: CTH
- **Yellow Rocket**: YR
- **Perennials**: P
- **Pokeweed**: PW

### Diseases
- **Germination**: 
- **Emergence**: 
- **Nutrient Deficiency**: 
- **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°

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

### Dates
- **6-27-17**
BioEnt – Early Season Survey

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

Seed Corn ☐ Corn ☐ Soybeans ☐ Wheat ☐ Green Beans

Field Name/Number: TA9K
Grower: msu
Growth Stage: Grain fill

General Appearance: ok
Size: ok
Leaf Color: ok

Soil Moisture 0-12

Date: 6/27/2019

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

Comments:

Grain fill leaves starting to die back
Scattered, low level of head scab
Septoria general on leaves

ACTION:

None Required ☐
Watch ☐ Yes, see comments ☐

Germination: No ☐
Emergence: Breaking ☐
Nutrient Deficiency: ☐
Soil Compaction: ☐
Standing Water: ☐
Herbicide damage: ☐
Physiological Disorder in Corn: ☐
Doubles: ☐
Density: ☐
Growth: ☐
Plant spacing: ☐
Emergence: ☐
Soil Temperature: 2°

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 ☐
Root Damage: Insects ☐ Diseases ☐ Yellowish ☐ Nematodes ☐ Stunting ☐

Annual Grasses AG ☐ Foxtail F ☐ Panicum -Fall FP ☐ Quack grass QG ☐
Wirestem Muhly WM ☐ Marestail MA ☐ Crabgrass CG ☐ Johnsongrass JG ☐
Shatercane SCA ☐ Nutsedge NS ☐ Winter Annuals WA ☐ Chickweed CW ☐ Biennials WB ☐
Cover Crop CC ☐ 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 ☐
Emergence: Breaking ☐
Nutrient Deficiency: ☐
Soil Compaction: ☐
Standing Water: ☐
Herbicide damage: ☐
Physiological Disorder in Corn: ☐
Doubles: ☐
Density: ☐
Growth: ☐
Plant spacing: ☐
Emergence: ☐
Soil Temperature: 2°

Germination: No ☐
Emergence: Breaking ☐
Nutrient Deficiency: ☐
Soil Compaction: ☐
Standing Water: ☐
Herbicide damage: ☐
Physiological Disorder in Corn: ☐
Doubles: ☐
Density: ☐
Growth: ☐
Plant spacing: ☐
Emergence: ☐
Soil Temperature: 2°

Germination: No ☐
Emergence: Breaking ☐
Nutrient Deficiency: ☐
Soil Compaction: ☐
Standing Water: ☐
Herbicide damage: ☐
Physiological Disorder in Corn: ☐
Doubles: ☐
Density: ☐
Growth: ☐
Plant spacing: ☐
Emergence: ☐
Soil Temperature: 2°

Germination: No ☐
Emergence: Breaking ☐
Nutrient Deficiency: ☐
Soil Compaction: ☐
Standing Water: ☐
Herbicide damage: ☐
Physiological Disorder in Corn: ☐
Doubles: ☐
Density: ☐
Growth: ☐
Plant spacing: ☐
Emergence: ☐
Soil Temperature: 2°
BioEnt – Early Season Survey  Gary Manley 269-273-7070 or 269-816-1080

□ Seed Corn □ Corn □ Soybeans □ Wheat □ Green Beans
Field Name/Number: 732Y  Grower: WHY
General Appearance: OK  Size: OK  Variance: OK  Leaf Color: OK  Variance: OK
Plant Population: Soil Moisture 0-12  75  12-24  75/75  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

Comments:
Leaves greener in this plot, but starting to dry down. Scald and head scabby. Septoria general on beans.

Looks like fungicide applications did a good job.

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

- Annual Grasses AG
- Foxtail F
- Panicum -Fall FP
- Quack grass QQ
- Wirestem Muhly WM
- Marestail MT
- Crabgrass CG
- Johnsonsgrass JG
- Shatercane SCA
- Nutsedge NS
- Winter Annuals WA
- Chickweed CW
- Biannnals WB
- Cover Crop CC
- Velveteen 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:
  - 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**

**Date:** 6/27/2019

<table>
<thead>
<tr>
<th>Field Name/Number</th>
<th>Type</th>
<th>Grower</th>
<th>Growth Stage</th>
<th>General Appearance</th>
<th>Size</th>
<th>Variance</th>
<th>Leaf Color</th>
<th>Variance</th>
<th>Plant Population</th>
<th>Soil Moisture 0-12</th>
<th>12-24</th>
<th>24+</th>
<th>%AWC</th>
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<tbody>
<tr>
<td>TYPY</td>
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</tbody>
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**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:**

- Train fill stage
- Leaves starting to die back
- Septoria general
- Scattered low levels
- Scab on heads
- Low levels cereal leaf
- Feeding non leaves
- Plants are small/heads are small (likely lack?)
- Corn Crop looks good
- 6" tall

**ACTION:**

- None Required
- Watch

- Yes, see comments

**Insects:**
- 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

**Diseases:**
- Root Damage
- Nematodes
- Stunting

**Plants:**
- Purplish

**Diseases:**
- Yellowish

**Nutrients:**
- Nutrient Deficiency

**Soil:**
- Soil Compaction:
  - No
  - 1/4" Root
  - Spike PE

- Soil Temperature 2"
## BioEnt – Early Season Survey

**Date**: 6/27/2017

### Field Name/Number

**TGRY**

### Grower

**Switchgrass**

### Growth Stage

**G**

### General Appearance | Size | Variance
--- | --- | ---

### Leaf Color | Variance
--- | ---

### Plant Population | 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

### Comments:

*Not planted yet*

*Burn down good*

*Scattered new grass emergence*

### ACTION:

- None Required
- Watch
- Yes, see comments

### Weed Control:

- Annual Grasses AG
- Foxtail F
- Panicum-Fall FP
- Quack grass QG
- 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
- Annual Grasses AG
- Pigweed RRP
- Horsenettle HN
- Bindweed -Field FBW
- Bindweed -Hedge HBW
- Smartweed -Penn. PSM
- Smart -Swamp SSM
- Dogbane -Hemp HDB
- Lambquarter LQU
- Ragweed CRAG
- Ragweed -Giant GRAG
- Dock -Curly CD
- Nightshade -Black BNS
- Jimsonweed JW
- Canada Thistle CTH
- Yellow Rocket YR
- Perennials P
- Pokeweed PW

### Emergence
- Breaking
- VC/V1

### Nutrient Deficiency

### Soil Compaction:
- No
- Spots
- General
- Soil Surface:
  - Spots
  - General
  - Hard
  - Crusted

### Standing Water
- Small Spots
- Large Spots

### Herbicide damage

### Physiological Disorder in Corn
- Yellowish whorl
  - Buggywip
  - Stalk bending
  - Twisted whorl

### Doubles

### Density

### Growth

### Plant spacing

### Emergence

### Soil Temperature

### Root Damage

### Insects

### Diseases

### Nematodes

### Stunting

### Annual Grasses AG

### Broadleaves

### Perennials P

### Pigweed RRP

### Horsenettle HN

### Bindweed -Field FBW

### Bindweed -Hedge HBW

### Smartweed -Penn. PSM

### Smart -Swamp SSM

### Dogbane -Hemp HDB

### Lambquarter LQU

### Ragweed CRAG

### Ragweed -Giant GRAG

### Dock -Curly CD

### Nightshade -Black BNS

### Jimsonweed JW

### Canada Thistle CTH

### Yellow Rocket YR

### Perennials P

### Pokeweed PW

### No

### 1/4" Root

### Spike PE

### Breaking

### VC/V1

### Spots

### General

### Soil Surface:
- Spots
- General
- Hard
- Crusted

### Small Spots

### Large Spots

### Herbicide damage

### Emergence stress

### Yellowish whorl

### Buggywip

### Stalk bending

### Twisted whorl

### Doubles

### Density

### Growth

### Plant spacing

### Emergence

### Soil Temperature

### 2°

### Root Damage

### Insects

### Diseases

### Nematodes

### Stunting
BioE7 Early Season Survey  
Gary Manley 269-273-7070 or 269-816-1080

Date: 6/27/2019

Seed Corn □ Corn □ Soybeans □ Wheat □ Green Beans

Field Name/Number: Trigged
Grower: M.G.
Growth Stage: Grain Fill

General Appearance: Size OK
Variance: OK

Leaf Color: 75
Variance: 75

Plant Population: Soil Moisture 0-12

Vigor: Good □ OK □ Poor
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:

Grain fill
Leaves starting to die back
Scattered low heavily dead scattering
Cephalia general on leaves
don't fungicide application

Wet a nice job
Color/growth development
varies with N rate

□ Annual Grasses AG
□ Foxtail F
□ Panicum -Fall FP
□ Quack grass QG
□ Wiresent Muhly WM
□ Marestail MT
□ 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
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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°

□ Root Damage □ Plants
□ Insects □ 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
### BioEnt - Early Season Survey

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

- **Field Name/Number:** [Redacted]
- **Grower:** [Redacted]
- **Growth Stage:** [Redacted]
- **Date:** 4/3/2019

#### General Appearance

- **Size:** OK
- **Variance:** OK
- **Leaf Color:** OK
- **Variance:** OK

#### Plant Population

- **Soil Moisture:** 0-12
- **12-24:** 80
- **24+:** %AWC

### Vigor

- **General**
- **Spotty**

### Stress

- **Heat**
- **Moisture**
- **Nitrogen**
- **General**
- **Spotty**

### Stress-Chlorophyll

- **General**
- **Spotty**

### Weed Control

- **Good**
- **OK**
- **Poor**
- **Spotty**
- **Dense Spots**

### Action:

- **None Required**

### Comments:

- **Grain**
- **ill leaves starting to dry back.**
- **Scattered low level head scabs.**
- **Septoria general on leaves.**

- **Looks like fungicide applications did a good job.**
- **Color/growth/development verify with N2 Rate.**

### Weeds:

- **Annual Grasses AG**
- **Foxtail F**
- **Panicum -Fall FP**
- **Quack grass QG**
- **Wirestem Muhly WM**
- **Marestail MT**
- **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**
- **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**

### Diseases:

- **Germination**
- **No**
- **1/4" Root**
- **Spike PE**

### Insects:

- **Nutrient Deficiency**
- **Spots**
- **VC / V1**

### Nutrients:

- **Soil Compaction:**
  - **Spots**
  - **General**
  - **Hard**
  - **Crusted**

- **Standing Water**
- **Small Spots**
- **Large Spots**

### Disorders:

- **Herbicide damage**
- **Emergence stress**

- **Physiological Disorder in Corn**
- **Yellowish whorl**
- **Buggywip**
- **Stalk bending**
- **Twisted whorl**

- **Doubles_______%**
- **Density_______**
- **Variance_______**

- **Nutrient Deficiency**
- **Spots**
- **Variance_______**

- **Soil Temperature_______2"**

### Other:

- **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**