**BioEnt – Early Season Survey**

**Field Name/Number:** TIR1

**Growth Stage:**

**General Appearance:**

**Size:**

**Variance:**

**Leaf Color:**

**Variance:**

**Plant Population:**

**Soil Moisture 0-12:**

**%AWC:**

**ACTION:**

- None Required
- Watch
- Yes, see comments

**Comments:**

- Grasses emerging
- Planted 5/12/14
- Spiking (early emergence)
- Normal emergence conditions for emergence
  - Good

**Annual Grasses**
- AG
- Ve
- 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

**Pigweed**
- RRP
- Horsetail HN
- Bindweed -Field FBW
- Bindweed -Hedge HBW
- Smartweed -Penn. PSM
- Smart -Swamp SSM
- Dogbane -Hemp HDB
- Lamb'squarter 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

**Growth**
- Variance

**Plant spacing**
- Variance

**Emergence**
- Variance

**Soil Temperature**
- 2°

**Cutworms**
- White Grubs
- Flea Beetles
- Seed Corn Maggots
- Foliar Disease-Rust
- Foliar Disease-Fungi
- Corn Borer-%
- Stunted plants

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

Seed Corn ☑ Corn ☐ Soybeans ☐ Wheat ☐ ☐ Grower 7MS4 Date 5/22/2014
Field Name/Number  T2R1 Growth Stage

General Appearance  ☐ Size  ☐ Variance  ☐ Leaf Color  ☐ Variance
Plant Population  ☐ Soil Moisture 0-12  ☐ ☐ ☐ %AWC

Vigor: ☑ Good ☐ OK ☐ Poor
Stress: ☐ Heat ☐ Moisture ☐ Nitrogen
Stress-Chlorophyll: ☐ None ☐ Low ☐ High
Weed Control: ☐ Good ☐ OK ☐ Poor ☐ Spotty ☐ Dense Spots
Grasses ☐ Broadleaves ☐ Perennials

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

Comments:
Spiking 4% - 50% emerged.
Emergence normal.
Soil conditions good for emergence.
Planted 05/21/14

N
Good weed control
W
S
E

☐ Germination ☐ No ☐ 1/4” Root ☐ Spike PE
☒ Emergence ☐ Breaking ☐ VC/V1
☐ Nutrient Deficiency ☐ Spots ☐ General
☐ Soil Compaction: ☐ Soil Surface:
☐ Standing Water ☐ Small Spots ☐ Large Spots
☐ Herbicide damage ☐ Emergence stress
☐ Physiological Disorder in Corn ☐ Yellowish whorl:
☐ Buggywipe ☐ 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 ☐ Purple ☐ Plants
☐ Yellowish ☐ Nematodes ☐ Stunting
BioEnt – Early Season Survey

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

Seed Corn ☑ Corn ☐ Soybeans ☐ Wheat ☐ Grower: M. Manley Date: 5/12/2014

Field Name/Number: T3R1

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: Clover Chisel
Crop not Planted

☐ Annual Grasses AG
☐ Foxtail F
☐ Panicum - Fall FP
☐ Quack grass QG
☐ Wirestem Muhly WM
☐ Field Sandbur FS
☐ Crabgrass CG
☐ Johnsonsgrass JG
☐ Shatercane SCA
☐ Nutsedge NS
☐ Winter Annuals WA
☐ Chickweed CW
☐ Biennials WB
☐ Cover Crop CC
☐ Velvetleaf VL
☐ Cocklebur CBUR
☐ Milkweed CM

☐ Pigweed RRP
☐ Horsetail HN
☐ Bindweed - Field FBW
☐ Bindweed - Hedge HBW
☐ Smartweed - Penn. PSM
☐ Smart - Swamp SSM
☐ Dogbane - Hemlock HDB
☐ Lamb-quarters LOU
☐ Ragweed CRAG
☐ Ragweed - Giant GRAG
☐ Dock - Curly CD
☐ Nightshade - Black BNS
☐ Jimson weed 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”

☐ Cutworms ☐ White Grubs ☐ Seed Corn Maggots
☐ Armyworms ☐ Flea Beetles ☐ Foliar Disease-Rust
☐ Stalk borers ☐ Aphids ☐ Foliar Disease-Fungi
☐ Wireworms ☐ Slugs ☐ Corn Borer-%
☐ Spider mites ☐ Leathoppers ☐ 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 T4R1
Field Name/Number
MSU Date 5/22/2014
Growth Stage

General Appearance □ Size □ Variance □ Leaf Color □ Variance
Plant Population □ Soil Moisture 0-12 %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:

Cover cloth plowed
Crop not planted

□ Annual Grasses AG □ Pigweed RRP
□ Foxtail F □ Horsetail 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 LQO
□ Shatterscane 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
□ Milkweed CM □ Pekeweed 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
□ Stalkborers □ Aphids □ Foliar Disease-Fungi
□ Wireworms □ Slugs □ Corn Borer-%
□ Spider mites □ Leafhoppers □ Stunted plants

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

□ Seed Corn □ Corn □ Soybeans □ Wheat □ Grower: mly Date: 5/22/2014

Field Name/Number: TLo Growth Stage: V

General Appearance: OK Size: 4/6 Variance: OK Leaf Color: 1st Leaf: 12+ %AWC

Plant Population: OK 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:

Low level of Alphaalfa weed
Awa 3rd instar
Rage 0.1 sweep range

N
Dandelion general no problem

W

E

S

□ 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 □ Plants
□ Insects □ Purplish
□ Diseases □ Yellowish
□ Nematodes □ Stunting
BioEnt – Early Season Survey  

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

Seed Corn ☐ Corn ☐ Soybeans ☐ Wheat ☐  
Grower: nsmy Date: 5/22/2014

Field Name/Number:  
Rate: Irrigated

Growth Stage:

General Appearance: Size: Variance: Leaf Color: Variance:
Plant Population: Soil Moisture: 0-12 %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:
Planted 5/16th May.
PE - germination ACTIVE
sprayed/Clean up Weeds

☐ Annual Grasses AG  ☐ Pigweed RRP
☐ Foxtail F  ☐ Horsetail 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  ☐ Lambquarter LOU
☐ Shatercane 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
☐ Milkwed 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
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
☐ 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

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

☑ Seed Corn ☑ Corn ☐ Soybeans ☐ Wheat ☐ Grower: Mike ☐ Date: 5/22/2014

Field Name/Number: PE Rate: Non-irrigated Growth Stage:

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

Plant Population: 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
Pre-emergence

Comments:
Planted 1/28 May
PE-germination active
Sprayed clean of weeds

☐ Annual Grasses AG ☐ Foxtail F ☐ Panicum-Fall FP
☐ Quack grass OG ☐ Wirestem Muhly WM
Field Sandbur FS ☐ Crabgrass CG ☐ Johnsongrass JG
Shatertan CCA ☐ Nutsedge NS ☐ Winter Annuals WA
Chickweed CW ☐ Biennials WB ☐ Cover Crop CC
Velvetleaf VL ☐ Cocklebur CBUR ☐ Milkwax CM

☐ Pigweed RRP ☐ Horsetail 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 ☐ 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 ☐ Leathoppers ☐ Stunted plants

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