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

- □ Seed Corn □ Corn □ Soybeans □ Wheat □ grower MSX □ Date 6/1/2017
- Field Name/Number: TR2
- General Appearance: 9/10  Size: 19  Normal: 10  Variance: ok  Leaf Color: 9/10  Variance: ok
- Plant Population: 70+  Soil Moisture: 0-12  70+  12+  75+  %AWC

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

Comments:
May 16, 2017  V3
28 31 32 31 28 28 31
24 30 28
May 30, 2017  29,300/acre
Low weed density - few V1
Grasses emerging (AG)

- □ 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
- □ Velvetleaf VL
- □ Cocklebur CBUR
- □ Milkweed OM
- □ Pigweed RRP
- □ Horsenettle HN
- □ Bindweed -Field FBW
- □ Bindweed -Hedge HBW
- □ Smartweed -Perenn. PSM
- □ Smart -Swamp SSM
- □ Dogbane -Hemp HDB
- □ Lambquarters 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 □ Spots □ %
- □ Density: □ Variance □ ok □ ok
- □ Growth: □ ok □ ok
- □ Plant spacing: □ Spots □ ok
- □ Emergence: □ Spots □ ok
- □ Soil Temperature: □ ok □ 2"
### BioEnt – Early Season Survey

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

- **Field Name/Number**: D R Z
- **General Appearance**: OK
- **Size**: 7B
- **Variance**: OK
- **Leaf Color**: OK
- **Variance**: 7B
- **Growth Stage**: 1/3
- **Soil Moisture 0-12**: 7B
- **12+**: 7B
- **%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:
- *May 15th*
- 30,000 Acres
- Annual grasses emerging
- Annual grasses emerging
- Minnow slug feeding

### Species:
- Annual Grasses (AG)
- Foxtail (F)
- Panicum (Fall) (FP)
- Quack grass (QQ)
- 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)
- Milkwort (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)

### Issues:
- 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
- Growth
- Plant spacing
- Emergence
- Plant Temperature
- Soil Temperature
- 2"
BioEnt – Early Season Survey

Grower: [MSU] Date: 6/16/2017

Field Name/Number: [J3RD]

General Appearance: OK

Size: 2

Variance: OK

Leaf Color: OK

Variance: OK

Plant Population

Soil Moisture: 0-12

70+

12+

35+

%AWC

Vigor: ☑ Good

Temperature: ☑ Heat

General: ☑ Spotty

Nutrient Deficiency: ☑ Spots

Weed Control: ☑ Good

Emergence: Breaking

Nutrient Deficiency: Spots

Soil Compaction:

Germination: No

1/4” Root: Yes

Spike PE: No

Emergence: Breaking

Nutrient Deficiency: Spots

Soil Compaction:

Spots: General

Standing Water: Small Spots

Large Spots: General

Herbicide damage: General

Emergence stress: General

Physiological Disorder in Corn: Yellowish whorl

Buggywip: General

Stalk bending: General

Twisted whorl: General

Doubles: Variance

Density: Variance

Variance: General

Growth: OK

Variance: OK

Plant spacing: Variance

Variance: General

Emergence: Variance

Variance: General

Soil Temperature: 2°

Root Damage: Insects

Plants: Purplish

Leafhoppers

Cutworms

White Grubs

Flea Beetles

Armyworms

Flea Beetles

Stalkborers

Aphids

Wireworms

Slugs

Spider mites

Leafhoppers

Seed Corn Maggots

Foliar Disease-Rust

Foliar Disease-Fungi

Corn Borer-

Stunted plants

Root Damage

Insects

Plants

Purplish

Diseases

Yellowish

Nematodes

Stunting

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

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

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

General

Emergence stress

Physiological Disorder in Corn

Yellowish whorl

Buggywip

Stalk bending

Twisted whorl

Doubles

Variance

Density

Variance

Growth

Variance

Plant spacing

Variance

Variance

Soil Temperature

2°

Cutworms

White Grubs

Flea Beetles

Armyworms

Flea Beetles

Stalkborers

Aphids

Wireworms

Slugs

Spider mites

Leafhoppers

Seed Corn Maggots

Foliar Disease-Rust

Foliar Disease-Fungi

Corn Borer-

Stunted plants

Root Damage

Insects

Plants

Purplish

Diseases

Yellowish

Nematodes

Stunting

Comments:

5-19-17 planted

5-22, 28, 30, 29

28, 33, A & D

Mostly clear of weeds

Early emergence

VL - low density

W

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N

E

...
Comments: Tilled / Not Planted
BioEnt – Early Season Survey

Field Name/Number: TLP 2

General Appearance: Good

Size Variance: OK

Leaf Color: Good

Plant Population: 4'

Soil Moisture: 0-12

Growth Stage: 12+ G

%AWC: 50

ACTION:

None Required

Watch

Yes, see comments

Comments:

First flowered

24" tall range

At full weed 0.5/sweep

 Aphids general / common

Vigor: Good

Stress: Heat

Stress-Chlorophyll: None

Weed Control: Good

Annual Grasses AG

Foxtail F

Panicum - Fall FP

Quack grass QG

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

Annual Grasses AG

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

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

White Grubs

Flea Beetles

Aphids

Seed Corn Maggots

Foliar Disease - Rust

Foliar Disease - Fungi

Corn Borer - %

Stunted plants

Seed Corn Maggots

Foliar Disease - Rust

Foliar Disease - Fungi

Corn Borer - %

Stunted plants

Root Damage

Insects

Diseases

Yellowish

Nematodes

Stunting
Growth Stage: 3/4

ACTION:
- No Required
- Watch

Comments:
- Planted 5-10-27
- 27 30 27 29 29 31
- 26 27 28 27 28 27

- Minn slug feeding on lower leaves
- No damage between plots that have my wheat straw

- Cutworms
- Armyworms
- Stalk borers
- Wireworms
- Spider mites
- White grubs
- Flea beetles
- Aphids
- Slugs
- Leafhoppers
- 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
- Field sandbur FSB
- Crab grass CG
- Johnson grass JG
- Shatter cane SCA
- Nutsedge NS
- Winter annuals WA
- Chick grass CW
- Biannuals WB
- Cover crop CC
- Velvet leaf VL
- Cocklebur CBUR
- Milkweed CM
- Pigweed RRP
- Horsenettle HN
- Bind weed - field FBW
- Bind weed - hedge HBW
- Smartweed - Penn PSM
- Smart - swamp SSM
- Dog bane - hemp HDB
- Lambs quarter LQU
- Ragweed CRAG
- Ragweed - giant GRAG
- Dock - curly CD
- Nightshade - black BNS
- Jimson weed JW
- Canada thistle CTH
- Yellow rocket YR
- Perennials P
- Pokeweed PW

- Seed corn
- Soybeans
- Wheat

- Size: 3-4
- Leaf color: 50%
- Seed corn corn
- Soybeans
- Wheat

- Size: 3-4
- Leaf color: 50%
BioEnt – Early Season Survey
Gary Manley 269-273-7070 or 269-816-1080

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

**Grower:**
**Date:** 06/16/2017
**Growth Stage:** 2/4

**Field Name/Number:** Non-irrigated - N

**General Appearance:**
- **Vigor:**
  - Good
  - OK
  - Poor
  - General
  - Spotty
- **Stress:**
  - Heat
  - Moisture
  - Nitrogen
  - General
  - Spotty
- **Stress-Chlorophyll:**
  - None
  - Low
  - High
  - General
  - Spotty

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

**Comments:**

- **Stressed Corn:**
  - 30 29 29 27 30 26
  - 20 29 29 29

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

- **Comments:**
  - Planted 5-10-17
  - 30 29 29 27 30 26
  - 20 29 29 28

- **Weed Control:**
  - Grasses
  - Broadleaves
  - Perennials

- **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**
- **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**
- **Lamb's Quarters 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**
- **Emergence**
- **Nutrient Deficiency**
- **Soil Compaction:**
  - Spots
  - General
- **Soil Moisture 0-12**
- **Leaf Color**
- **Variance**

- **Stunting**
- **Diseases**
- **Foliar Disease-Fungi**
- **Foliar Disease-Rust**
- **Foliar Disease-Chlorosis**

- **Root Damage**
- **Insects**
- **Diseases**
- **Nematodes**
- **Stunting**