BioEnt – Early Season Survey

Date: 6/4/2020

Field Name/Number: TIR
Grower: MSY
Growth Stage: 1/4/5

General Appearance: Good
Size: Low
Variance: Low
Leaf Color: Low
Variance: Low
Plant Population: 40
Soil Moisture: 0-12

Vigor: Good
Stress: Heat
Stress-Chlorophyll: None
Weed Control: Good

ACTION:

None Required

Comments:

V4/5 5" Ranger
28 31 28 29 29 33
28 833/Acre

Planted May 13 44

Diseases

Seeds Corn Maggots
Foliar Disease-Rust
Foliar Disease-Fungi
Corn Borer-%
Stunted plants

Annual Grasses AG
Foxtail F
Pancum -Fall FP
Quack grass GQ
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
Milkwed CM

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

Low level deer feeding - few plants

Germination: No
Emergence: 1/4" Root
Nutrient Deficiency: Breaking
Soil Compaction: VC / V1
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: 0%
Density: OK
Variance: Low
Growth: OK
Variance: Low
Plant spacing: OK
Variance: Low
Soil Temperature: 2

Cutworms CW
Armyworms AW
Stalkborers SB
Wireworms WW
Spider Mites SM
White Grubs WG
Flea Beetles FB1
Aphids A
Slugs S
Leafhoppers LH
Seed Corn Maggots
Foliar Disease-Rust
Foliar Disease-Fungi
Corn Borer-
Stunted plants

Root Damage
Insects
Diseases
Nematodes
Stunting
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Seed Corn ☑ Corn ☐ Soybeans ☐ Wheat ☐ Green Beans

Field Name/Number: T281  Grower: MSU  Growth Stage: 4.5

General Appearance: Good  Size: Dense  Variance: Some  Leaf Color: Good  Variance: 2.0

Plant Population: 70  Soil Moisture: 0-12  12-24  75%  24+  80% +

Vigor: Good  Stress: Moisture  Spotty
Stress-Chlorophyll: None  General  Spotty
Weed Control: Good  Grasses  Broadleaves  Perennials

ACTION:
[ ] None Required  [ ] Watch
[ ] Yes, see comments

Comments:

28,666 Acres
Planted May 12-24

4/5  5' Range
28 26 30 21 28 29

Good weed control

N

W

E

S

1/4" Root
VC / V1

No

1/4" Root
Spike PE

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"
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Seed Corn ☑ Corn ☐ Soybeans ☐ Wheat ☐ Green Beans  Date: 6/14/20

Field Name/Number ☐ T3R1 ☐ Grower ☐ MSU  Growth Stage

General Appearance ☐ Good  Size ☐ Good  Variance ☐ Low  Leaf Color ☐ Good  Variance: ☐ None

Plant Population ☐ Good  Soil Moisture 0-12 ☐ 70  12-24 ☐ 75-80  24+ ☐ 80 ☐ %AWC

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:

Planted May 26

Emergence looks good.

Clean of weeds

Germination ☐ No ☐ 1/4” Root ☐ Spike PE
Emergence ☐ No ☐ 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 ☐ OK ☐ 0% 
Density ☐ OK ☐ Variance ☐ Low
Growth ☐ OK ☐ Variance ☐ Low
Plant spacing ☐ OK ☐ Variance ☐ Low
Emergence ☐ OK ☐ Variance ☐ Low
Soil Temperature ☐ 2”

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

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

Pigweed RRP ☐ Horsenettle HN
Bindweed -Field FBW ☐ Bindweed -Hedge HBW
Smartweed -Penn. PSM ☐ Smart -Swamp SSM
Dogbane -Hemph 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
**BioEnt – Early Season Survey**  
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- **Seed Corn**
- **Corn**
- **Soybeans**
- **Wheat**
- **Green Beans**

**Field Name/Number**: T4R1  
**Grower**: WSM  
**Growth Stage**:  
**Date**: 4/2020

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

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

**Vigor**: Good  
**Spotty**:  
**General**:  
**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**: PE
- **Watch**:  
- **Yes, see comments**: PE

**Comments:**

- Planted 6-1-2020  
- Conditions good for emergence

**Clean of Weeds**

- Annual Grasses AG  
- Foxtail F  
- Panicum - Fall FP  
- Quack grass QG  
- Wirestern Muhly WM  
- Marestail MT  
- Crabgrass CG  
- Johnsongrass JG  
- Shattercane SCA  
- Nutsedge NS  
- Winter Annuals WA  
- Chickweed CW  
- Biannuals 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

- Germination: No  
- 1/4" Root: Spike PE  
- Emergence: Spots  
- Nutrient Deficiency: General  
- Soil Compaction: Spots  
- Soil Surface: General  
- 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: 4/14/2020

Field Name/Number: R2 Raker  May  Insect
Growth Stage: V4/V5

General Appearance:  Size: OK  Variance: OK  Leaf Color: 70 12-24 75/75 24+ 80

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:
1/4/5 5" Range
29 28 26 31 26 28 666/Acre
Planted May 13

Regional (spots) ground squirrel

Spots with 50/60% Plant missing

Cutworms CW
Armyworms AW
Stalkborers SB
Wireworms WW
Spider Mites SM

White Grubs WG
Flea Beetles FB
Aphids A
Slugs S
Leathoppers LH

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

Root Damage
Insects
Diseases
Nematodes
Stunting

Annual Grasses AG
Foxtail F
Panicum-Fall FP
Quack grass QG
Wiresmuhly 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

Pigweed RRP
Horsenettle HN
Bindweed -Field FBW
Bindweed -Hedge HBW
Smartweed -Penn. PSM
Smart -Swamp SSM
Dogbane -Hemp HDB
Lambsquarter LQH
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
Standing Water  Small Spots  Large Spots
Herbicide damage  Emergence stress
Physiological Disorder in Corn  Yellowish whorl
Buggywip  Stalk bending  Twisted whorl
Doubles  0%
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

☐ Seed Corn ☑ Corn ☐ Soybeans ☐ Wheat ☐ Green Beans
Field Name/Number: AZ Rate: 6.50Y NON-T 20728 Date: 6/4/2028
Growth Stage: V4

General Appearance: Size: OK Variance: □ Leaf Color: 75% Variance: □
Plant Population: Soil Moisture 0-12: ☐ 12-24: 25% 24+: 80% %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:
29 30 29 27 28 29
28,666 ACRE
Planted May 13 74 -
4/5 5" 1-

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 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 ☐ Diseases
Nematodes ☐ Plants ☐ Purplish
Yellowish ☐ Stunting

PG 5/3/3/8