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

Seed Corn ☐ Corn ☐ Soybeans ☐ Wheat ☐ Grower 2024 Date 6/15/2014
Field Name/Number ☐ Corn ☐ Wheat ☐ Growth Stage L12
General Appearance OK Size 78" Variance ok Leaf Color OK Variance OK
Plant Population OK Soil Moisture 0-12 70/75 12+ 75 %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:
Nostud Corn Population
30 31 31 32 30 29
V5 78" Range
Planted May 10 2014
Stover Remain 31 31 30 31
30,750 ACRE

Annual Grasses AG
Foil F
Panicum -Fall FP
Quack grass QQ
Wirestem Muhly WM
Field Sandbur FS
Crapgrass CG
Johnsongrass JG
Shaterecne 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
Lambsquarters 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 ☐ OK ☐ Variance
Growth ☐ OK ☐ Variance ☐ OK
Plant spacing ☐ Variance ☐ Variance
Emergence ☐ Variance ☐ 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 ☐ Diseases ☐ Stunting
Nematodes ☐ Stunting
### BioEnt – Early Season Survey

**Grower**: MSU  
**Date**: 6/5/2014

<table>
<thead>
<tr>
<th>Field Name/Number</th>
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**General Appearance** | **Size** | **Variance** | **Leaf Color** | **Variance** |
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**Plant Population**: VE  
**Soil Moisture**: 0-12 75%  
12+ 80% AWC

**Vigor**:  
- [ ] Good  
- [ ] OK  
- [ ] Poor  
- [ ] 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**:  
By harvested 29th May  
Planted 30 May  
Roundup 31 May  
Early spike 25% emerged.

**Good weed control**

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

**Root Damage**:  
- [ ] Insects  
- [ ] Plants

**Plants**:  
- [ ] Purplish  
- [ ] Diseases  
- [ ] Yellowish

**Nematodes**:  
- [ ] Stunted plants

- [ ] Cutworms  
- [ ] Armyworms  
- [ ] Stalkborers  
- [ ] Wireworms  
- [ ] Spider mites  
- [ ] White Grubs  
- [ ] Flea Beetles  
- [ ] Aphids  
- [ ] Slugs  
- [ ] Leafhoppers  
- [ ] 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

☐ Seed Corn ☑ Corn ☐ Soybeans ☐ Wheat  
Grower:  
Date: 5/15/2014  
Growth Stage: UE

General Appearance: UE  
Size:  
Variance:  
Leaf Color:  
Variance: 
Plant Population: UE  
Soil Moisture: 0-12  
75  
12+  
80  
%AWC

Vigor: ☑ Good ☐ OK ☐ Poor  
General: ☑ Good ☐ Spotty  
Stress: ☑ Heat ☐ Moisture ☐ Nitrogen  
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 29 Reharvested  
May 30 Planted  
May 31 Sprayed Roundup  
Emergence < 25%  
Good weed control

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

☐ Pigweed RRP  
☐ Horseradish 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 ________

☐ Growth ________ Variance ________

☐ Plant spacing ________ Variance ________

☐ Emergence ________ Variance ________

☐ Soil Temperature 2"  

☐ Root Damage ☐ Insects ☐ Plants  
☐ Diseases ☐ Purplish

☐ Yellowish

☐ Nematodes ☐ Stunting

☐ Cutworms ☐ White Grubs  
☐ 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  
☐ Diseases ☐ Purplish

☐ Yellowish

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

Field Name/Number G4R2  Grower MSU  Date 6/15/2014

General Appearance □ OK □ Size □ Variance □ Leaf Color □ Variance

Plant Population UE □ Soil Moisture 0-12 □ 75 □ 12+ □ 80 □ %AWC

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

ACTION:  Starting to Emerge

Comments:  Planted May 30, 2014
UE – Starting to emerge
Rye harvested May 29th – Spring Roundup May 31st

□ Annual Grasses AG
□ Foxtail F
□ Panicum -Fall FP
□ Quack grass QG
□ Wirestem Muhly WM
□ Field Sandbur FS
□ Crabgrass CG
□ Johnsongrass JG
□ Shacketsca SCA
□ Nutsedge NS
□ Winter Annuals WA
□ Chickweed CW
□ Biennnals WB
□ Cover Crop CC
□ Velvetleaf VL
□ Cocklebur CBUR
□ Milkweed CM
□ Pigweed RRP
□ Horsemintle HN
□ Bindweed -Field FBW
□ Bindweed -Hedge HBW
□ Smartweed -Penn. PSM
□ Smart -Swamp SSM
□ Dogbane -Hemp HDB
□ Lambsquarter LOU
□ Ragweed CRAG
□ Ragweed -Giant GRAG
□ Dock -Curly CD
□ Nightshade -Black BNS
□ Jimsonweed JW
□ Canada Thistle CTH
□ Yellow Rocket YR
□ Perennials P
□ Pseudosem 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
□ Buggypop □ Stalk bending □ Twisted whorl
□ Doubles □
□ Density □ Variance □
□ Growth □
□ Plant spacing □ Variance □
□ Emergence □
□ Soil Temperature 2°
□ Root Damage □ Plants
□ Insects □ Purplish
□ Diseases □ Yellowish
□ Nematodes □ Stunting