BioEnt – Early Season Survey

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

Seed Corn ☑ Corn ☐ Soybeans ☐ Wheat ☐ Gower M51 Date 7/3/2014
Field Name/Number YR Growth Stage V10
General Appearance Good Size 4-5’ Variance OK Leaf Color OK Variance OK
Plant Population OK Soil Moisture 0-12 ☐ 12+ ☐ 90 90 %AWC

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

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

Comments:
4-5’ U/O Range Color growth good
No insects or disease noted.

N
Corn improved in uniformity due to drainage/compaction problems

W
Good soil moisture & deeper root system makes field more uniform

E

S

If it was dry soil condition the patterns of irregular growth would most likely be more visible.
BioEnt – Early Season Survey
Gary Manley 269-273-7070 or 269-816-1080

□ Seed Corn □ Corn □ Soybeans □ Wheat □ Grower MSA Date 7/3/2014
Field Name/Number T2R4 Growth Stage Vi0
General Appearance Good Size 4-5" Variance OK Leaf Color Good Variance OK
Plant Population OK Soil Moisture 0-12 90 12+ 90 %AWC

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

Comments:
4-5" Vi0 Range
Color/growth good
No insect or disease damage

□ 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
□ Horsenettle 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
□ 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
□ Buggypip □ Stalk bending □ Twisted whorl
□ Doubles _______ %
□ Density □ Variance
□ Growth □ Variance
□ Plant spacing _______ Variance
□ Emergence _______ Variance
□ Soil Temperature _______

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

Seed Corn ☑ Corn ☐ Soybeans ☐ Wheat ☐ 
Grower: MSU 
Date: 7/3/2014 
Field Name/Number: 7R4 
Growth Stage: V4 
General Appearance: OK 
Size: 3 
Variance: OK 
Leaf Color: OK 
Variance: OK 
Plant Population: OK 
Soil Moisture: 0-12 ☐ 12+ ☐

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

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

Comments: 
Bt. U9 Range

Low level of weeds scattered. Crab, VL, QB. Few scattered plants only.

No Insect or Disease levels.

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: OK ☑ Variance
Growth: OK ☑ Variance
Plant spacing: OK ☑ Variance
Emergence: OK ☑ Variance
Soil Temperature: 2°

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

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

SeedCorn □ Corn □ Soybeans □ Wheat □ Grower 2014 Date 7/13/2014
Field Name/Number: T4R4 Growth Stage
General Appearance: OK Size 12-14 Variance Moderate Leaf Color: OK Variance: Little
Plant Population: □ Soil Moisture 0-12 90% □ 12+ 90% □ %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:
13-14” V6/7
Grass Scattered
Scattered LAU - VL
Some Color Variance in Plot - Shady green due to wet conditions

Color Small & More yellowish in wet spots
Smaller yellowish corn mostly in lower / poor drainage spots
Looked at R1.23.95 - all showed □□□□

□ Cutworms □ White Grubs □ Seed Corn Maggots
□ Armyworms □ flea Beetles □ Foliar Disease-Rust
□ Stalkborers □ Aphids □ Foliar Disease-Fungi
□ Wireworms □ Slugs □ Corn Borer-% □ Stunted plants
□ Spider mites □ Root Damage □ Insects □ Plants
□ Diseases □ Yellowish □ Purplish
□ Nematodes □ Stunting
BioEnt – Early Season Survey

Seed Corn ☐ Corn ☐ Soybeans ☐ Wheat ☐ Grower M64 Date 7/3/2014
Field Name/Number Alfalfa 7CR Growth Stage
General Appearance Size Variance Leaf Color Variance
Plant Population Soil Moisture 0-12 90% 12+ 90% %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 ☑ OK
☐ Watch
☐ Yes, see comments

Comments:
cut yesterday

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

<table>
<thead>
<tr>
<th>Field Name/Number</th>
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<th>Growth Stage</th>
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<tbody>
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<th>Size</th>
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<th>Leaf Color</th>
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**Vigor:** Good  
**Stress:** None  
**Weed Control:** Good

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

**Comments:**  
3-4 ft.  
Color grows to good

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<thead>
<tr>
<th>Comments:</th>
<th>Annual Grasses AG</th>
<th>Pigweed RRP</th>
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<tr>
<td></td>
<td>Foxtail F</td>
<td>Horsetail HN</td>
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<tr>
<td></td>
<td>Panicum -Fall FP</td>
<td>Bindweed -Field FW</td>
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<tr>
<td></td>
<td>Quack grass QG</td>
<td>Bindweed -Hedge HBW</td>
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<td>Milkweed CM</td>
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<tr>
<th>Germination</th>
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<td>1/4&quot; Root</td>
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<td>Spike PE</td>
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<th>Soil Compaction:</th>
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<td>Spots</td>
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<th>Standing Water</th>
<th>Small Spots</th>
<th>Large Spots</th>
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<tr>
<th>Herbicide damage</th>
<th>Emergence stress</th>
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<tbody>
<tr>
<td>Buggywip</td>
<td>Stalk bending</td>
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<tr>
<td>Twisted whorl</td>
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<tr>
<th>Cutworms</th>
<th>White Grubs</th>
<th>Seed Corn Maggots</th>
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<tr>
<td></td>
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<td>Foliar Disease-Rust</td>
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<td>Foliar Disease-Fungi</td>
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<td></td>
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<td>Corn Borer-%</td>
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<td>Stunted plants</td>
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<th>Plants</th>
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<tr>
<td>Insects</td>
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<td>Diseases</td>
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<td>Nematodes</td>
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<td>Stunting</td>
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</table>
BioEnt – Early Season Survey

Seed Corn ☐ Corn ☐ Soybeans ☐ Wheat ☐
Grower: MSL Date: 7/3/2014
Field Name/Number: Non Irrigated N3 Rate
General Appearance: Good Size: OK Variance: OK Leaf Color: OK Variance: OK
Plant Population: 2000 Soil Moisture: 0-12 90 12+ 90 %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:

3-4 ft 1/10/11
Color/growth good

☐ Annual Grasses AG
☐ Foxtail F
☐ Panicum -Fall FP
☐ Quack grass GQ
☐ Wirestem Muhly WM
☐ Field Sandbur FS
☐ Crabgrass CG
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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 ☐ Armyworms ☐ Stalkbokers ☐ Wireworms ☐ Spider mites
White Grubs ☐ Flea Beetles ☐ Seed Corn Maggots
Aphids ☐ Slugs ☐ Leafhoppers
Foliar Disease-Rust ☐ Foliar Disease-Fungi
Corn Borer-%_______
Stunted plants

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