### BioEnt – Early Season Survey

**Grower:** [Handwritten Name]  
**Date:** 6/18/2015

**Field Name/Number:** JIRB

**Growth Stage:** V3

### General Appearance

- **Size:** [Handwritten Comments]
- **Roundness:** [Handwritten Comments]
- **Variance:** [Handwritten Comments]

### Plant Population

- [Handwritten Comments]

### Soil Moisture

- 0-12: [Handwritten Comments]
- 12+: [Handwritten Comments]
- %AWC: [Handwritten Comments]

### Vigor

- [Handwritten Comments]

### Stress

- [Handwritten Comments]

### Stress-Chlorophyll

- [Handwritten Comments]

### Weed Control

- [Handwritten Comments]

### ACTION:

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

### Comments

- [Handwritten Comments]

### Population

- [Handwritten Calculations]

### Weed List

- 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
- Biannually 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

### Other Issues

- Germination
- None
- 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
- OK
- Variance
- Plant spacing
- Variance
- Emergence
- Variance
- Soil Temperature
- 2°
- Root Damage
- Insects
- Plants
- Purplish
- Diseases
- 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
**BioEnt – Early Season Survey**  
Gary Manley 269-273-7070 or 269-816-1080

<table>
<thead>
<tr>
<th>Field Name/Number</th>
<th>Grower</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>160</td>
<td>MSU</td>
<td>6/18/2015</td>
</tr>
</tbody>
</table>

**General Appearance**
- Size: 6V
- Variance: ok

**Plant Population** /6'0 /ze(160)  
**Soil Moisture** 0-12: 90/100  
12+: 90/100  
%AWC

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

**Comments:**  
16" Roots  
Good Weed Control.

<table>
<thead>
<tr>
<th>Vigor:</th>
<th>Good</th>
<th>OK</th>
<th>Poor</th>
<th>General</th>
<th>Spotty</th>
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</thead>
<tbody>
<tr>
<td>Stress:</td>
<td>Heat</td>
<td>Moisture</td>
<td>Nitrogen</td>
<td>General</td>
<td>Spotty</td>
</tr>
<tr>
<td>Stress-Chlorophyll:</td>
<td>None</td>
<td>Low</td>
<td>High</td>
<td>General</td>
<td>Spotty</td>
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<thead>
<tr>
<th>Weed Control:</th>
<th>Good</th>
<th>OK</th>
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<th>Dense Spots</th>
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<tbody>
<tr>
<td>Grasses</td>
<td>Broadleaves</td>
<td>Perennials</td>
<td></td>
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<tr>
<th>Weed Control:</th>
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<th>AG</th>
<th>Pigweed RRP</th>
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<tr>
<td>Foxtail F</td>
<td>Horsenettle HN</td>
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<tr>
<td>Panicum -Fall FP</td>
<td>Bindweed -Field FBW</td>
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<td></td>
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<td>Quack grass</td>
<td>Bindweed -Hedge HBW</td>
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<tr>
<td>Wirestem Muhly WM</td>
<td>Smartweed -Penn. PSM</td>
<td></td>
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<td>Smart -Swamp SSM</td>
<td></td>
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<tr>
<td>Crabgrass CG</td>
<td>Dogbane -Hemp HDB</td>
<td></td>
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<tr>
<td>Johnsonsgrass JG</td>
<td>Lambsquarter LQU</td>
<td></td>
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<td>Jimsonweed JW</td>
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<td>Canada Thistle CTH</td>
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<td>Velvetleaf VL</td>
<td>Yellow Rocket YR</td>
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<td>Cocklebur CBUR</td>
<td>Perennials P</td>
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<td>Milkweed CM</td>
<td>Pokedewe PW</td>
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<tr>
<th>Nutrient Deficiency</th>
<th>Spots</th>
<th>General</th>
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<tr>
<th>Soil Compaction:</th>
<th>Soil Surface:</th>
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<tbody>
<tr>
<td>Spots</td>
<td>General</td>
</tr>
<tr>
<td>Hard</td>
<td>Crusted</td>
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<th>Small Spots</th>
<th>Large Spots</th>
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<th>Herbicide damage</th>
<th>Emergence stress</th>
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<td>Buggywip</td>
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<th>Yellowish whorl</th>
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<tr>
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<td>Armyworms</td>
<td>Flea Beetles</td>
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<td>Stalkborers</td>
<td>Aphids</td>
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<td>Spider mites</td>
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<tr>
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<th>No</th>
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<th>Spike PE</th>
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<tbody>
<tr>
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<td>Breaking</td>
<td>VC / V1</td>
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BioEnt – Early Season Survey  Gary Manley 269-273-7070 or 269-816-1080

□ Seed Corn □ Corn □ Soybeans □ Wheat □ ______ Grower msy □ Date 6/18/2015

Field Name/Number □ T3R3

General Appearance □ Ok □ Size □ Normal □ Variance □ Ok □ Leaf Color □ Ok □ Variance □ Ok

Plant Population □ 105,927 □ Soil Moisture 0-12 □ 90/100 □ 12+ □ 90/100 □ %AWC

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

Comments:

3-4” Range

weed general/common

5th row

11, 14, 15, 19, 18

X=15.2

105,927 acres

Weed general/common

Annual Grasses AG
Foxtail F
Panicum -Fall FP
Quack grass QQ
Wiresm Muhly WM
Field Sandbur FS
Crabgrass CG
Johnsongrass JG
Shatercane SCA
Nutsedge NS
Winter Annuals WA
Chickweed CW
Biannuals 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
Lamb'squarter LQU
Ragweed CRAG
Ragweed Giant GRAG
Dock Curly CD
Nightshade Black BNS
Jimsonweed JW
Canada Thistle CTH
Yellow Rocket YR
Perennials P
Pokeweed PW

□ Cutworms □ White Grubs □ Seed Corn Maggots □ Root Damage
□ Armyworms □ Flea Beetles □ Foliar Disease-Rust □ Insects
□ Stalkborers □ Aphids □ Foliar Disease-Fungi □ Diseases
□ Wireworms □ Slugs □ Corn Borer % □ Yellowish
□ Spider mites □ Leafhoppers □ Stunted plants □ Nematodes

□ 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 □ Grower □ Date □

Field Name/Number □ 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

Comments: 30’ Rows/
1/2 2-3” tall
Grass/ broadleaved weed
VE - 1” Range.
Dense stems.

N 103, 573 ACRG

W S

E


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”

Root Damage □ Insects □ Purplish □ Diseases □ Yellowish □ Nematodes □ Stunting
□ 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

Field Name/Number: Alfalfa 16E3

General Appearance: Ok

Size: ok

Leaf Color: ok

Vigor: Good

Stress: Heat

Stress-Chlorophyll: None

Weed Control: Good

Comments:

16-20" tall
Bud Stage
Color/growth normal

Lots of dandelion weeds in the 16 plots.

ACTION:

/ None Required

Watch

Yes, see comments

Cutworms

White Grubs

Seed Corn Maggots

Root Damage

White Grubs

Flea Beetles

Aphids

Foliar Disease-Rust

Cutworms

Flea Beetles

Aphids

Foliar Disease-Fungi

White Grubs

Flea Beetles

Aphids

Stunted plants

White Grubs

Flea Beetles

Seed Corn Maggots

Stunted plants

Foliar Disease-Rust

Foliar Disease-Fungi

Stunted plants
BioEnt – Early Season Survey  

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

Seed Corn ☐ Corn ☒ Soybeans ☐ Wheat ☐ Grower MSU Date 6/19/2015

Field Name/Number Irrigated - No Date Growth Stage

General Appearance Size Variance Leaf Color Variance

Plant Population 155 073 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:

15" 12" ro
22 15 22 25 22 21
22 23 24 22 23 26
20.25
X 22.25 X (2) 44.5 $ 10 = 4.45 plants
X 155.21

☐ 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

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 _________

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

Annual Grasses AG ☐ Pigweed RRP
☐ Foxtail F ☐ Horsenettle HN
☐ Panicum - Fall FP ☐ Bindweed - Field FBW
☐ Quack grass QG ☐ Bindweed - Hedge HBW
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☐ Cocklebur CBUR ☐ Perennials P
☐ Milkweed 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
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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 _________

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

Comments: 15 12 20 25 22 21
22 23 24 22 23 26
20.25
X 22.25 X (2) 44.5 $ 10 = 4.45 plants
X 155.21
Germination
No
1/4" Root
Spike PE
Emergence
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Nutrient Deficiency
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General
Soil Compaction:
Soil Surface:
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Physiological Disorder in Corn
Yellowish whorl
Buggywip
Stalk bending
Twisted whorl
Doubles
Density
Growth
Plant spacing
Emergence
Soil Temperature
2"

Root Damage
Insects
Plants
Diseases
Yellowish
Nematodes
Stunting