

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

Seed Corn  Corn  Soybeans  Wheat  \_\_\_\_\_ Grower MSU Date 6/19 2014  
 Field Name/Number T1R3 Growth Stage \_\_\_\_\_  
 General Appearance OK Size OK Variance OK Leaf Color OK Variance OK  
 Plant Population OK Soil Moisture 0-12 80 12+ 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:

V&I 18-20" Range  
Population  
32 31 30 32 27 29  
30,166 Acres  
good weed control  
R1, 2, 3, 4 & 5 looked at.

- |  |  |
|--|--|
| <input type="checkbox"/> Annual Grasses AG | <input type="checkbox"/> Pigweed RRP           |
| <input type="checkbox"/> Foxtail F         | <input type="checkbox"/> Horsenettle HN        |
| <input type="checkbox"/> Panicum -Fall FP  | <input type="checkbox"/> Bindweed -Field FBW   |
| <input type="checkbox"/> Quack grass QG    | <input type="checkbox"/> Bindweed -Hedge HBW   |
| <input type="checkbox"/> Wirestem Muhly WM | <input type="checkbox"/> Smartweed -Penn. PSM  |
| <input type="checkbox"/> Field Sandbur FS  | <input type="checkbox"/> Smart -Swamp SSM      |
| <input type="checkbox"/> Crabgrass CG      | <input type="checkbox"/> Dogbane -Hemp HDB     |
| <input type="checkbox"/> Johnsongrass JG   | <input type="checkbox"/> Lambsquarter LQU      |
| <input type="checkbox"/> Shattercane SCA   | <input type="checkbox"/> Ragweed CRAG          |
| <input type="checkbox"/> Nutsedge NS       | <input type="checkbox"/> Ragweed -Giant GRAG   |
| <input type="checkbox"/> Winter Annuals WA | <input type="checkbox"/> Dock -Curly CD        |
| <input type="checkbox"/> Chickweed CW      | <input type="checkbox"/> Nightshade -Black BNS |
| <input type="checkbox"/> Biannuals WB      | <input type="checkbox"/> Jimsonweed JW         |
| <input type="checkbox"/> Cover Crop CC     | <input type="checkbox"/> Canada Thistle CTH    |
| <input type="checkbox"/> Velvetleaf VL     | <input type="checkbox"/> Yellow Rocket YR      |
| <input type="checkbox"/> Cocklebur CBUR    | <input type="checkbox"/> Perennials P          |
| <input type="checkbox"/> Milkweed CM       | <input type="checkbox"/> Pokeweed PW           |

N  
 noted: Reps: 1,2,3,4,+5  
 showed irregular growth  
 Patterns which appear  
 W to result of soil E  
 compaction and/or poor  
 drainage.  
 Corn showing size &  
 color variance

- 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 OK Variance OK  
 Plant spacing \_\_\_\_\_ Variance \_\_\_\_\_  
 Emergence \_\_\_\_\_ Variance \_\_\_\_\_  
 Soil Temperature \_\_\_\_\_ 2"

- |                                       |                                       |   |
|---------------------------------------|---------------------------------------|---|
| <input type="checkbox"/> Cutworms     | <input type="checkbox"/> White Grubs  | <input type="checkbox"/> Seed Corn Maggots    |
| <input type="checkbox"/> Armyworms    | <input type="checkbox"/> Flea Beetles | <input type="checkbox"/> Foliar Disease-Rust  |
| <input type="checkbox"/> Stalkborers  | <input type="checkbox"/> Aphids       | <input type="checkbox"/> Foliar Disease-Fungi |
| <input type="checkbox"/> Wireworms    | <input type="checkbox"/> Slugs        | <input type="checkbox"/> Corn Borer-% _____   |
| <input type="checkbox"/> Spider mites | <input type="checkbox"/> Leafhoppers  | <input type="checkbox"/> Stunted plants       |

- |                                      |                                    |
|--------------------------------------|------------------------------------|
| <input type="checkbox"/> Root Damage | <input type="checkbox"/> Plants    |
| <input type="checkbox"/> Insects     | <input type="checkbox"/> Purplish  |
| <input type="checkbox"/> Diseases    | <input type="checkbox"/> Yellowish |
| <input type="checkbox"/> Nematodes   | <input type="checkbox"/> Stunting  |

→ deep rip in future would help in either case

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

Seed Corn  Corn  Soybeans  Wheat  \_\_\_\_\_ Grower MSU Date 6/19 2014  
 Field Name/Number T2RB Growth Stage \_\_\_\_\_  
 General Appearance OK Size OK Variance OK Leaf Color OK Variance OK  
 Plant Population \_\_\_\_\_ Soil Moisture 0-12 80 12+ 85 %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:**

18 20" Range  
 28 30 29 30 32 31  
 30,000 Acres Population

Color/growth normal

- |  |  |
|--|--|
| <input type="checkbox"/> Annual Grasses AG | <input type="checkbox"/> Pigweed RRP           |
| <input type="checkbox"/> Foxtail F         | <input type="checkbox"/> Horsenettle HN        |
| <input type="checkbox"/> Panicum -Fall FP  | <input type="checkbox"/> Bindweed -Field FBW   |
| <input type="checkbox"/> Quack grass QG    | <input type="checkbox"/> Bindweed -Hedge HBW   |
| <input type="checkbox"/> Wirestem Muhly WM | <input type="checkbox"/> Smartweed -Penn. PSM  |
| <input type="checkbox"/> Field Sandbur FS  | <input type="checkbox"/> Smart -Swamp SSM      |
| <input type="checkbox"/> Crabgrass CG      | <input type="checkbox"/> Dogbane -Hemp HDB     |
| <input type="checkbox"/> Johnsongrass JG   | <input type="checkbox"/> Lambsquarter LQU      |
| <input type="checkbox"/> Shattercane SCA   | <input type="checkbox"/> Ragweed CRAG          |
| <input type="checkbox"/> Nutsedge NS       | <input type="checkbox"/> Ragweed -Giant GRAG   |
| <input type="checkbox"/> Winter Annuals WA | <input type="checkbox"/> Dock -Curly CD        |
| <input type="checkbox"/> Chickweed CW      | <input type="checkbox"/> Nightshade -Black BNS |
| <input type="checkbox"/> Biannuals WB      | <input type="checkbox"/> Jimsonweed JW         |
| <input type="checkbox"/> Cover Crop CC     | <input type="checkbox"/> Canada Thistle CTH    |
| <input type="checkbox"/> Velvetleaf VL     | <input type="checkbox"/> Yellow Rocket YR      |
| <input type="checkbox"/> Cocklebur CBUR    | <input type="checkbox"/> Perennials P          |
| <input type="checkbox"/> Milkweed CM       | <input type="checkbox"/> Pokeweed PW           |



- |  |  |
|--|--|
| <input type="checkbox"/> Germination                         | <input type="checkbox"/> No <input type="checkbox"/> 1/4" Root <input type="checkbox"/> Spike PE |
| <input type="checkbox"/> Emergence                           | <input type="checkbox"/> Breaking <input type="checkbox"/> VC / V1                               |
| <input type="checkbox"/> Nutrient Deficiency                 | <input type="checkbox"/> Spots <input type="checkbox"/> General _____                            |
| <input type="checkbox"/> Soil Compaction:                    | <input type="checkbox"/> Soil Surface:   |
| ○ Spots ○ General  | ○ Hard ○ Crusted   |
| <input type="checkbox"/> Standing Water                      | <input type="checkbox"/> Small Spots <input type="checkbox"/> Large Spots                        |
| <input type="checkbox"/> Herbicide damage                    | <input type="checkbox"/> Emergence stress  |
| <input type="checkbox"/> Physiological Disorder in Corn      | ○ Yellowish whorl  |
| ○ Buggywip ○ Stalk bending ○ Twisted whorl                   |  |
| <input type="checkbox"/> Doubles _____ %                     |  |
| <input type="checkbox"/> Density _____ Variance _____        |  |
| <input type="checkbox"/> Growth <u>OK</u> Variance <u>OK</u> |  |
| <input type="checkbox"/> Plant spacing _____ Variance _____  |  |
| <input type="checkbox"/> Emergence _____ Variance _____      |  |
| <input type="checkbox"/> Soil Temperature _____ 2"           |  |

- |                                       |                                       |   |
|---------------------------------------|---------------------------------------|---|
| <input type="checkbox"/> Cutworms     | <input type="checkbox"/> White Grubs  | <input type="checkbox"/> Seed Corn Maggots    |
| <input type="checkbox"/> Armyworms    | <input type="checkbox"/> Flea Beetles | <input type="checkbox"/> Foliar Disease-Rust  |
| <input type="checkbox"/> Stalkborers  | <input type="checkbox"/> Aphids       | <input type="checkbox"/> Foliar Disease-Fungi |
| <input type="checkbox"/> Wireworms    | <input type="checkbox"/> Slugs        | <input type="checkbox"/> Corn Borer-% _____   |
| <input type="checkbox"/> Spider mites | <input type="checkbox"/> Leafhoppers  | <input type="checkbox"/> Stunted plants       |

- |                                      |                                    |
|--------------------------------------|------------------------------------|
| <input type="checkbox"/> Root Damage | <input type="checkbox"/> Plants    |
| <input type="checkbox"/> Insects     | <input type="checkbox"/> Purplish  |
| <input type="checkbox"/> Diseases    | <input type="checkbox"/> Yellowish |
| <input type="checkbox"/> Nematodes   | <input type="checkbox"/> Stunting  |

# BioEnt - Early Season Survey

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

Seed Corn  Corn  Soybeans  Wheat  \_\_\_\_\_  
 Field Name/Number 43 R3 Growth Stage \_\_\_\_\_  
 General Appearance OK Size \_\_\_\_\_ Variance OK Leaf Color OK Variance OK  
 Plant Population OK Soil Moisture 0-12 80 12+ 85 %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 WEEDS  
 Yes, see comments

**Comments:**  
V6 10-12"  
Population  
30 32 29 28 29 32  
30 000/Acre  
LQU/CRAG/VL general  
1-3" Range  
density low but general

- |   |  |
|---|--|
| <input type="checkbox"/> Annual Grasses AG        | <input type="checkbox"/> Pigweed RRP                 |
| <input type="checkbox"/> Foxtail F                | <input type="checkbox"/> Horsenettle HN              |
| <input type="checkbox"/> Panicum -Fall FP         | <input type="checkbox"/> Bindweed -Field FBW         |
| <input type="checkbox"/> Quack grass QG           | <input type="checkbox"/> Bindweed -Hedge HBW         |
| <input type="checkbox"/> Wirestem Muhly WM        | <input type="checkbox"/> Smartweed -Penn. PSM        |
| <input type="checkbox"/> Field Sandbur FS         | <input type="checkbox"/> Smart -Swamp SSM            |
| <input type="checkbox"/> Crabgrass CG             | <input type="checkbox"/> Dogbane -Hemp HDB           |
| <input type="checkbox"/> Johnsongrass JG          | <input checked="" type="checkbox"/> Lambsquarter LQU |
| <input type="checkbox"/> Shattercane SCA          | <input checked="" type="checkbox"/> Ragweed CRAG     |
| <input type="checkbox"/> Nutsedge NS              | <input type="checkbox"/> Ragweed -Giant GRAG         |
| <input type="checkbox"/> Winter Annuals WA        | <input type="checkbox"/> Dock -Curly CD              |
| <input type="checkbox"/> Chickweed CW             | <input type="checkbox"/> Nightshade -Black BNS       |
| <input type="checkbox"/> Biannuals WB             | <input type="checkbox"/> Jimsonweed JW               |
| <input type="checkbox"/> Cover Crop CC            | <input type="checkbox"/> Canada Thistle CTH          |
| <input checked="" type="checkbox"/> Velvetleaf VL | <input type="checkbox"/> Yellow Rocket YR            |
| <input type="checkbox"/> Cocklebur CBUR           | <input type="checkbox"/> Perennials P                |
| <input type="checkbox"/> Milkweed CM              | <input type="checkbox"/> Pokeweed PW                 |

N  
 W ..... E  
 S  
Cola (growth normal)  
No problems  
Control WEEDS within  
next 2 weeks.

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 OK  
 Plant spacing \_\_\_\_\_ Variance \_\_\_\_\_  
 Emergence \_\_\_\_\_ Variance \_\_\_\_\_  
 Soil Temperature \_\_\_\_\_ 2"

- |                                       |                                       |   |
|---------------------------------------|---------------------------------------|---|
| <input type="checkbox"/> Cutworms     | <input type="checkbox"/> White Grubs  | <input type="checkbox"/> Seed Corn Maggots    |
| <input type="checkbox"/> Armyworms    | <input type="checkbox"/> Flea Beetles | <input type="checkbox"/> Foliar Disease-Rust  |
| <input type="checkbox"/> Stalkborers  | <input type="checkbox"/> Aphids       | <input type="checkbox"/> Foliar Disease-Fungi |
| <input type="checkbox"/> Wireworms    | <input type="checkbox"/> Slugs        | <input type="checkbox"/> Corn Borer-% _____   |
| <input type="checkbox"/> Spider mites | <input type="checkbox"/> Leafhoppers  | <input type="checkbox"/> Stunted plants       |

- |                                      |                                    |
|--------------------------------------|------------------------------------|
| <input type="checkbox"/> Root Damage | <input type="checkbox"/> Plants    |
| <input type="checkbox"/> Insects     | <input type="checkbox"/> Purplish  |
| <input type="checkbox"/> Diseases    | <input type="checkbox"/> Yellowish |
| <input type="checkbox"/> Nematodes   | <input type="checkbox"/> Stunting  |

# BioEnt - Early Season Survey

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

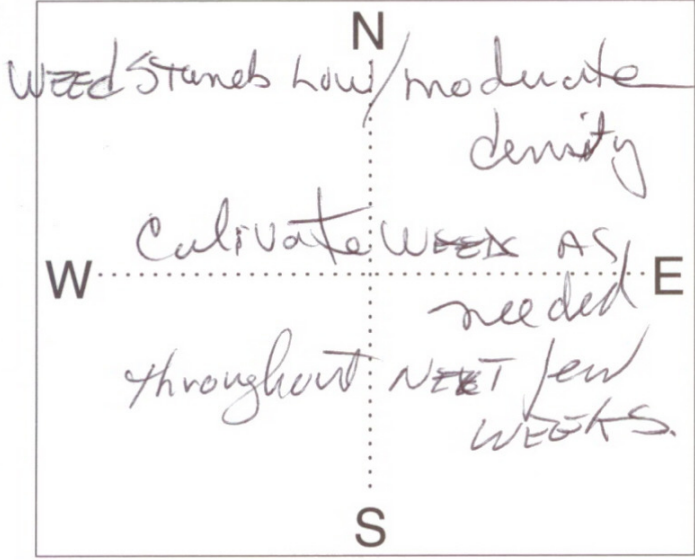
Seed Corn  Corn  Soybeans  Wheat  \_\_\_\_\_  
 Field Name/Number 7423 Growth Stage \_\_\_\_\_  
 General Appearance OK Size OK Variance OK Leaf Color OK Variance OK  
 Plant Population OK Soil Moisture 0-12 85 12+ 85+ %AWC \_\_\_\_\_

**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  
*Control Weeds*

**Comments:**  
Population  
26 22 27 18  
14 28 18 25  
22, 750 Acre Population  
0 3/4 4-6" Range  
WEEDS - VE / 2" Range  
GRASSES - VE / 1-2" Range

<input checked="" type="checkbox"/> Annual Grasses AG	<input type="checkbox"/> Pigweed RRP
<input type="checkbox"/> Foxtail F	<input type="checkbox"/> Horsenettle HN
<input type="checkbox"/> Panicum -Fall FP	<input type="checkbox"/> Bindweed -Field FBW
<input type="checkbox"/> Quack grass QG	<input type="checkbox"/> Bindweed -Hedge HBW
<input type="checkbox"/> Wirestem Muhly WM	<input type="checkbox"/> Smartweed -Penn. PSM
<input type="checkbox"/> Field Sandbur FS	<input type="checkbox"/> Smart -Swamp SSM
<input type="checkbox"/> Crabgrass CG	<input type="checkbox"/> Dogbane -Hemp HDB
<input type="checkbox"/> Johnsongrass JG	<input checked="" type="checkbox"/> Lambsquarter LQU
<input type="checkbox"/> Shattercane SCA	<input checked="" type="checkbox"/> Ragweed CRAG
<input type="checkbox"/> Nutsedge NS	<input type="checkbox"/> Ragweed -Giant GRAG
<input type="checkbox"/> Winter Annuals WA	<input type="checkbox"/> Dock -Curly CD
<input type="checkbox"/> Chickweed CW	<input type="checkbox"/> Nightshade -Black BNS
<input type="checkbox"/> Biannuals WB	<input type="checkbox"/> Jimsonweed JW
<input type="checkbox"/> Cover Crop CC	<input type="checkbox"/> Canada Thistle CTH
<input checked="" type="checkbox"/> Velvetleaf VL	<input type="checkbox"/> Yellow Rocket YR
<input type="checkbox"/> Cocklebur CBUR	<input type="checkbox"/> Perennials P
<input type="checkbox"/> Milkweed CM	<input type="checkbox"/> 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  
 Buggywip  Stalk bending  Twisted whorl  
 Doubles \_\_\_\_\_ %  
 Density \_\_\_\_\_ Variance \_\_\_\_\_  
 Growth OK Variance OK  
 Plant spacing \_\_\_\_\_ Variance \_\_\_\_\_  
 Emergence \_\_\_\_\_ Variance \_\_\_\_\_  
 Soil Temperature \_\_\_\_\_ 2"

<input type="checkbox"/> Cutworms	<input type="checkbox"/> White Grubs	<input type="checkbox"/> Seed Corn Maggots
<input type="checkbox"/> Armyworms	<input type="checkbox"/> Flea Beetles	<input type="checkbox"/> Foliar Disease-Rust
<input type="checkbox"/> Stalkborers	<input type="checkbox"/> Aphids	<input type="checkbox"/> Foliar Disease-Fungi
<input type="checkbox"/> Wireworms	<input type="checkbox"/> Slugs	<input type="checkbox"/> Corn Borer-% _____
<input type="checkbox"/> Spider mites	<input type="checkbox"/> Leafhoppers	<input type="checkbox"/> Stunted plants

<input type="checkbox"/> Root Damage	<input type="checkbox"/> Plants
<input type="checkbox"/> Insects	<input type="checkbox"/> Purplish
<input type="checkbox"/> Diseases	<input type="checkbox"/> Yellowish
<input type="checkbox"/> Nematodes	<input type="checkbox"/> Stunting

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

Seed Corn  Corn  Soybeans  Wheat  \_\_\_\_\_ Grower MSU Date 6/19/2014  
 Field Name/Number 76 E3 Alfalfa Growth Stage \_\_\_\_\_  
 General Appearance OK Size OK Variance OK Leaf Color OK Variance OK  
 Plant Population normal Soil Moisture 0-12 80 12+ 85 %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:**

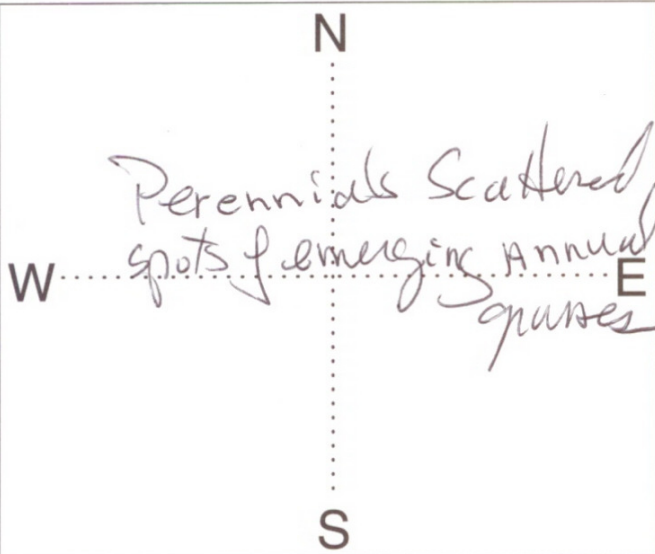
None Required  
 Watch  
 Yes, see comments

**Comments:**

Regrowth 12-16" Range

Aphids low level  
Mirid Bug low level

- |  |  |
|--|--|
| <input type="checkbox"/> Annual Grasses AG | <input type="checkbox"/> Pigweed RRP             |
| <input type="checkbox"/> Foxtail F         | <input type="checkbox"/> Horsenettle HN          |
| <input type="checkbox"/> Panicum -Fall FP  | <input type="checkbox"/> Bindweed -Field FBW     |
| <input type="checkbox"/> Quack grass QG    | <input type="checkbox"/> Bindweed -Hedge HBW     |
| <input type="checkbox"/> Wirestem Muhly WM | <input type="checkbox"/> Smartweed -Penn. PSM    |
| <input type="checkbox"/> Field Sandbur FS  | <input type="checkbox"/> Smart -Swamp SSM        |
| <input type="checkbox"/> Crabgrass CG      | <input type="checkbox"/> Dogbane -Hemp HDB       |
| <input type="checkbox"/> Johnsongrass JG   | <input type="checkbox"/> Lambsquarter LQU        |
| <input type="checkbox"/> Shattercane SCA   | <input type="checkbox"/> Ragweed CRAG            |
| <input type="checkbox"/> Nutsedge NS       | <input type="checkbox"/> Ragweed -Giant GRAG     |
| <input type="checkbox"/> Winter Annuals WA | <input type="checkbox"/> Dock -Curly CD          |
| <input type="checkbox"/> Chickweed CW      | <input type="checkbox"/> Nightshade -Black BNS   |
| <input type="checkbox"/> Biannuals WB      | <input type="checkbox"/> Jimsonweed JW           |
| <input type="checkbox"/> Cover Crop CC     | <input type="checkbox"/> Canada Thistle CTH      |
| <input type="checkbox"/> Velvetleaf VL     | <input type="checkbox"/> Yellow Rocket YR        |
| <input type="checkbox"/> Cocklebur CBUR    | <input checked="" type="checkbox"/> Perennials P |
| <input type="checkbox"/> Milkweed CM       | <input type="checkbox"/> 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  
 Buggywip  Stalk bending  Twisted whorl  
 Doubles \_\_\_\_\_ %  
 Density \_\_\_\_\_ Variance \_\_\_\_\_  
 Growth OK Variance OK  
 Plant spacing \_\_\_\_\_ Variance \_\_\_\_\_  
 Emergence \_\_\_\_\_ Variance \_\_\_\_\_  
 Soil Temperature \_\_\_\_\_ 2"

- |                                       |                                       |   |
|---------------------------------------|---------------------------------------|---|
| <input type="checkbox"/> Cutworms     | <input type="checkbox"/> White Grubs  | <input type="checkbox"/> Seed Corn Maggots    |
| <input type="checkbox"/> Armyworms    | <input type="checkbox"/> Flea Beetles | <input type="checkbox"/> Foliar Disease-Rust  |
| <input type="checkbox"/> Stalkborers  | <input type="checkbox"/> Aphids       | <input type="checkbox"/> Foliar Disease-Fungi |
| <input type="checkbox"/> Wireworms    | <input type="checkbox"/> Slugs        | <input type="checkbox"/> Corn Borer-% _____   |
| <input type="checkbox"/> Spider mites | <input type="checkbox"/> Leafhoppers  | <input type="checkbox"/> Stunted plants       |

- |                                      |                                    |
|--------------------------------------|------------------------------------|
| <input type="checkbox"/> Root Damage | <input type="checkbox"/> Plants    |
| <input type="checkbox"/> Insects     | <input type="checkbox"/> Purplish  |
| <input type="checkbox"/> Diseases    | <input type="checkbox"/> Yellowish |
| <input type="checkbox"/> Nematodes   | <input type="checkbox"/> Stunting  |

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

Seed Corn  Corn  Soybeans  Wheat  \_\_\_\_\_ Grower MSYL Date 6/19/2014  
 Field Name/Number \_\_\_\_\_ N Rate Irrigated Growth Stage \_\_\_\_\_  
 General Appearance OK Size OK Variance OK Leaf Color OK Variance OK  
 Plant Population OK Soil Moisture 0-12 \_\_\_\_\_ 80 12+ \_\_\_\_\_ 85/90 %AWC

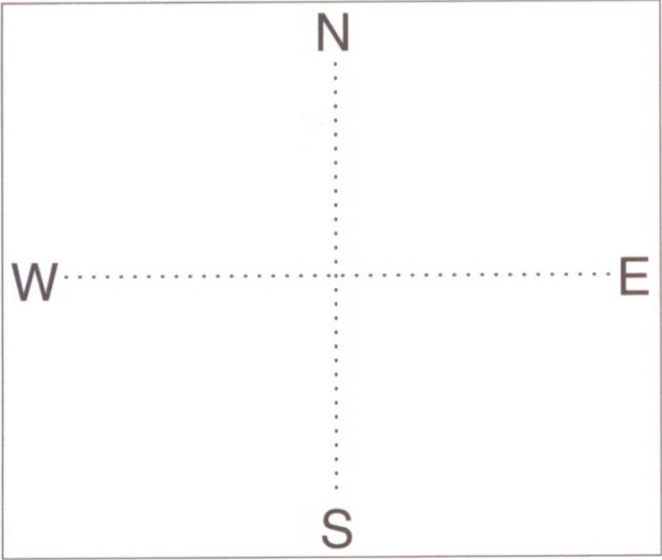
**Vigor:**  Good  OK  Poor  General  Spotty  
**Stress:**  Heat  Moisture  Nitrogen  General  Spotty  
**Stress-Chlorophyll:**  None  Low  High  General  Spotty  
**Weed Control:**  Good  OK  Poor  Spotty  Dense Spots  
 Grasses  Broadleaves  Perennials

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

**Comments:**

*Color/growth normal  
 no problem  
 good weed control*

- |  |  |
|--|--|
| <input type="checkbox"/> Annual Grasses AG | <input type="checkbox"/> Pigweed RRP           |
| <input type="checkbox"/> Foxtail F         | <input type="checkbox"/> Horsenettle HN        |
| <input type="checkbox"/> Panicum -Fall FP  | <input type="checkbox"/> Bindweed -Field FBW   |
| <input type="checkbox"/> Quack grass QG    | <input type="checkbox"/> Bindweed -Hedge HBW   |
| <input type="checkbox"/> Wirestem Muhly WM | <input type="checkbox"/> Smartweed -Penn. PSM  |
| <input type="checkbox"/> Field Sandbur FS  | <input type="checkbox"/> Smart -Swamp SSM      |
| <input type="checkbox"/> Crabgrass CG      | <input type="checkbox"/> Dogbane -Hemp HDB     |
| <input type="checkbox"/> Johnsongrass JG   | <input type="checkbox"/> Lambsquarter LQU      |
| <input type="checkbox"/> Shattercane SCA   | <input type="checkbox"/> Ragweed CRAG          |
| <input type="checkbox"/> Nutsedge NS       | <input type="checkbox"/> Ragweed -Giant GRAG   |
| <input type="checkbox"/> Winter Annuals WA | <input type="checkbox"/> Dock -Curly CD        |
| <input type="checkbox"/> Chickweed CW      | <input type="checkbox"/> Nightshade -Black BNS |
| <input type="checkbox"/> Biannuals WB      | <input type="checkbox"/> Jimsonweed JW         |
| <input type="checkbox"/> Cover Crop CC     | <input type="checkbox"/> Canada Thistle CTH    |
| <input type="checkbox"/> Velvetleaf VL     | <input type="checkbox"/> Yellow Rocket YR      |
| <input type="checkbox"/> Cocklebur CBUR    | <input type="checkbox"/> Perennials P          |
| <input type="checkbox"/> Milkweed CM       | <input type="checkbox"/> 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  
 Buggywip  Stalk bending  Twisted whorl  
 Doubles \_\_\_\_\_ %  
 Density \_\_\_\_\_ Variance \_\_\_\_\_  
 Growth OK Variance OK  
 Plant spacing \_\_\_\_\_ Variance \_\_\_\_\_  
 Emergence \_\_\_\_\_ Variance \_\_\_\_\_  
 Soil Temperature \_\_\_\_\_ 2"

- |                                       |                                       |   |
|---------------------------------------|---------------------------------------|---|
| <input type="checkbox"/> Cutworms     | <input type="checkbox"/> White Grubs  | <input type="checkbox"/> Seed Corn Maggots    |
| <input type="checkbox"/> Armyworms    | <input type="checkbox"/> Flea Beetles | <input type="checkbox"/> Foliar Disease-Rust  |
| <input type="checkbox"/> Stalkborers  | <input type="checkbox"/> Aphids       | <input type="checkbox"/> Foliar Disease-Fungi |
| <input type="checkbox"/> Wireworms    | <input type="checkbox"/> Slugs        | <input type="checkbox"/> Corn Borer-% _____   |
| <input type="checkbox"/> Spider mites | <input type="checkbox"/> Leafhoppers  | <input type="checkbox"/> Stunted plants       |

- |                                      |                                    |
|--------------------------------------|------------------------------------|
| <input type="checkbox"/> Root Damage | <input type="checkbox"/> Plants    |
| <input type="checkbox"/> Insects     | <input type="checkbox"/> Purplish  |
| <input type="checkbox"/> Diseases    | <input type="checkbox"/> Yellowish |
| <input type="checkbox"/> Nematodes   | <input type="checkbox"/> Stunting  |

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

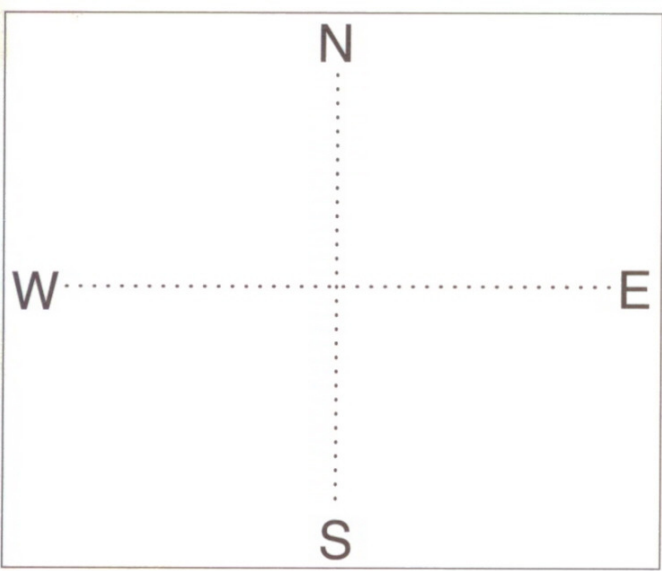
Seed Corn  Corn  Soybeans  Wheat  \_\_\_\_\_ Grower MSU Date 6/19 2014  
 Field Name/Number N Rate non-irrigated Growth Stage \_\_\_\_\_  
 General Appearance OK Size OK Variance OK Leaf Color OK Variance OK  
 Plant Population OK Soil Moisture 0-12 80 12+ 55-90 %AWC

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:**  
V718 18-20" Range  
growth normal  
No problems  
good WEED control

- |  |  |
|--|--|
| <input type="checkbox"/> Annual Grasses AG | <input type="checkbox"/> Pigweed RRP           |
| <input type="checkbox"/> Foxtail F         | <input type="checkbox"/> Horsenettle HN        |
| <input type="checkbox"/> Panicum -Fall FP  | <input type="checkbox"/> Bindweed -Field FBW   |
| <input type="checkbox"/> Quack grass QG    | <input type="checkbox"/> Bindweed -Hedge HBW   |
| <input type="checkbox"/> Wirestem Muhly WM | <input type="checkbox"/> Smartweed -Penn. PSM  |
| <input type="checkbox"/> Field Sandbur FS  | <input type="checkbox"/> Smart -Swamp SSM      |
| <input type="checkbox"/> Crabgrass CG      | <input type="checkbox"/> Dogbane -Hemp HDB     |
| <input type="checkbox"/> Johnsongrass JG   | <input type="checkbox"/> Lambsquarter LQU      |
| <input type="checkbox"/> Shattercane SCA   | <input type="checkbox"/> Ragweed CRAG          |
| <input type="checkbox"/> Nutsedge NS       | <input type="checkbox"/> Ragweed -Giant GRAG   |
| <input type="checkbox"/> Winter Annuals WA | <input type="checkbox"/> Dock -Curly CD        |
| <input type="checkbox"/> Chickweed CW      | <input type="checkbox"/> Nightshade -Black BNS |
| <input type="checkbox"/> Biannuals WB      | <input type="checkbox"/> Jimsonweed JW         |
| <input type="checkbox"/> Cover Crop CC     | <input type="checkbox"/> Canada Thistle CTH    |
| <input type="checkbox"/> Velvetleaf VL     | <input type="checkbox"/> Yellow Rocket YR      |
| <input type="checkbox"/> Cocklebur CBUR    | <input type="checkbox"/> Perennials P          |
| <input type="checkbox"/> Milkweed CM       | <input type="checkbox"/> 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  
 Buggywip  Stalk bending  Twisted whorl  
 Doubles \_\_\_\_\_ %  
 Density \_\_\_\_\_ Variance \_\_\_\_\_  
 Growth OK Variance OK  
 Plant spacing \_\_\_\_\_ Variance \_\_\_\_\_  
 Emergence \_\_\_\_\_ Variance \_\_\_\_\_  
 Soil Temperature \_\_\_\_\_ 2"

- |                                       |                                       |   |
|---------------------------------------|---------------------------------------|---|
| <input type="checkbox"/> Cutworms     | <input type="checkbox"/> White Grubs  | <input type="checkbox"/> Seed Corn Maggots    |
| <input type="checkbox"/> Armyworms    | <input type="checkbox"/> Flea Beetles | <input type="checkbox"/> Foliar Disease-Rust  |
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- |                                      |                                    |
|--------------------------------------|------------------------------------|
| <input type="checkbox"/> Root Damage | <input type="checkbox"/> Plants    |
| <input type="checkbox"/> Insects     | <input type="checkbox"/> Purplish  |
| <input type="checkbox"/> Diseases    | <input type="checkbox"/> Yellowish |
| <input type="checkbox"/> Nematodes   | <input type="checkbox"/> Stunting  |