

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

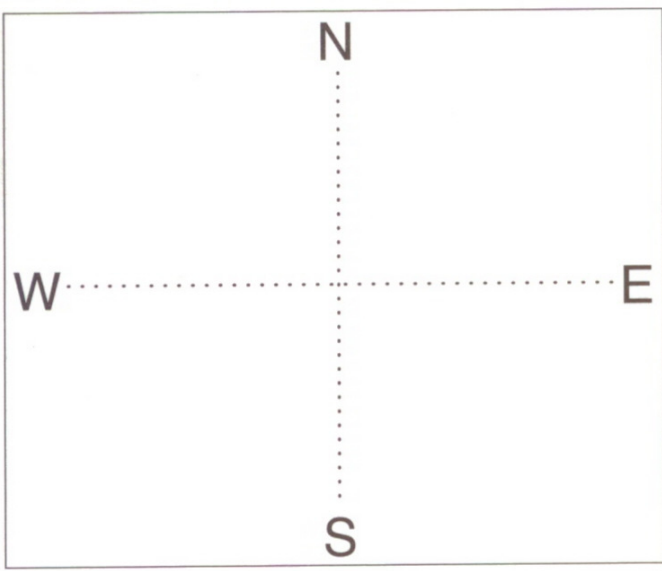
Seed Corn  Corn  Soybeans  Wheat  \_\_\_\_\_ Grower MSU Date 6/5/2014  
 Field Name/Number T1R2 Growth Stage \_\_\_\_\_  
 General Appearance good Size ok Variance ok Leaf Color ok Variance ok  
 Plant Population 29,333 Soil Moisture 0-12 70 12+ 75 %AWC \_\_\_\_\_

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:** CORN Population  
32 27 29 29 31 28  
29,333 ACRES  
1/4 5 5-7" Range  
May 12<sup>th</sup> 14  
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           |



- |   |   |  |                                   |
|---|---|--|-----------------------------------|
| <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:    |  |                                   |
| <input type="checkbox"/> Spots                          | <input type="checkbox"/> General          | <input type="checkbox"/> Hard          | <input type="checkbox"/> 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 | <input type="checkbox"/> Yellowish whorl  |  |                                   |
| <input type="checkbox"/> Buggywip                       | <input type="checkbox"/> Stalk bending    | <input type="checkbox"/> Twisted whorl |                                   |
| <input type="checkbox"/> Doubles <u>low %</u>           |   |  |                                   |
| <input type="checkbox"/> Density <u>ok</u>              | Variance <u>ok</u>                        |  |                                   |
| <input type="checkbox"/> Growth <u>ok</u>               | Variance <u>ok</u>                        |  |                                   |
| <input type="checkbox"/> Plant spacing <u>ok</u>        | Variance <u>ok</u>                        |  |                                   |
| <input type="checkbox"/> Emergence                      | Variance                                  |  |                                   |
| <input type="checkbox"/> Soil Temperature               |   | <u>2"</u>                              |                                   |

- |                                       |                                       |   |
|---------------------------------------|---------------------------------------|---|
| <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 6/5 2014  
 Field Name/Number T2P2 Growth Stage V5/6  
 General Appearance OK Size OK Variance OK Leaf Color OK Variance OK  
 Plant Population \_\_\_\_\_ 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:  Good  OK  Poor  Spotty  Dense Spots  
 Grasses  Broadleaves  Perennials

### ACTION:

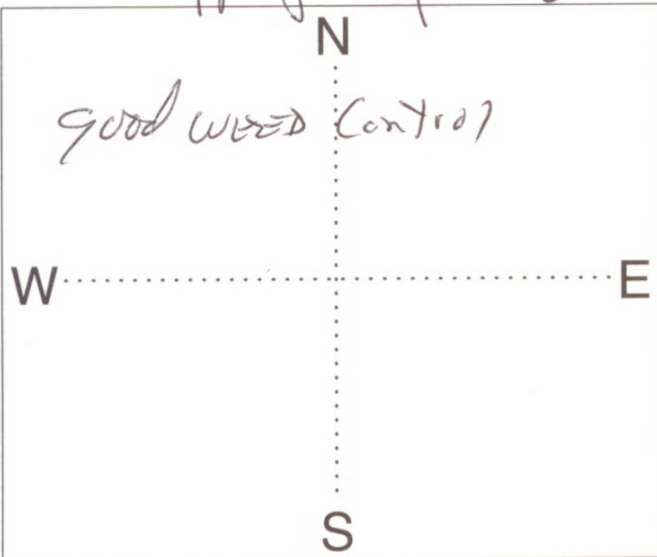
None Required  
 Watch  
 Yes, see comments

### Comments:

Planted May 10 - 2014  
 Plant populations  
 30 32 30 29 30 32  
 30,500 ACRG  
 U5/6 10-12" range

Slug damage on old leaves < 1%  
 Grasshopper feeding < 1%

- |  |  |
|--|--|
| <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

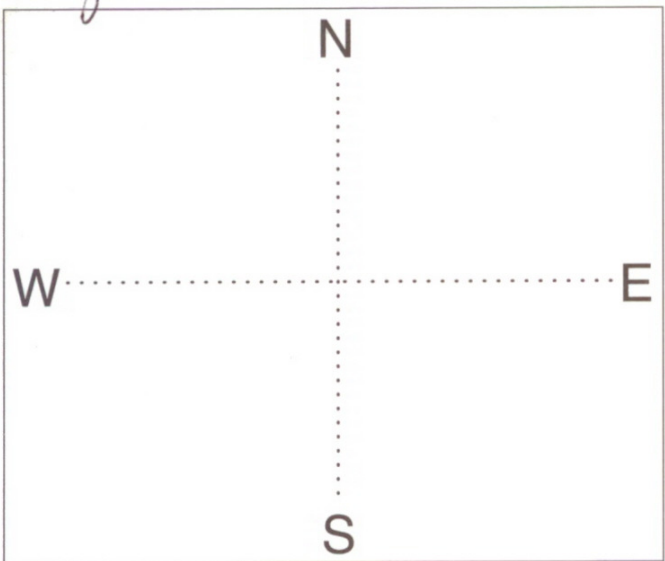
Seed Corn  Corn  Soybeans  Wheat  \_\_\_\_\_ Grower MSU Date 6/5/2014  
 Field Name/Number T3R2 Growth Stage V3  
 General Appearance ok Size ok Variance ok Leaf Color ok Variance ok  
 Plant Population below Soil Moisture 0-12 70 12+ 75 %AWC

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:** V3 - 34" range  
Planted 5/24/2014  
Corn populations  
32 31 34 31 30  
30 31  
30,833 ACRE  
V4 - VC - general  
Ragweed - VE - scattered.

- |   |  |
|---|--|
| <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 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 ok Variance ok  
 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 6/5 2014  
 Field Name/Number T4R2 Growth Stage P8  
 General Appearance PE Size \_\_\_\_\_ Variance \_\_\_\_\_ Leaf Color \_\_\_\_\_ Variance \_\_\_\_\_  
 Plant Population spike Soil Moisture 0-12 70 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

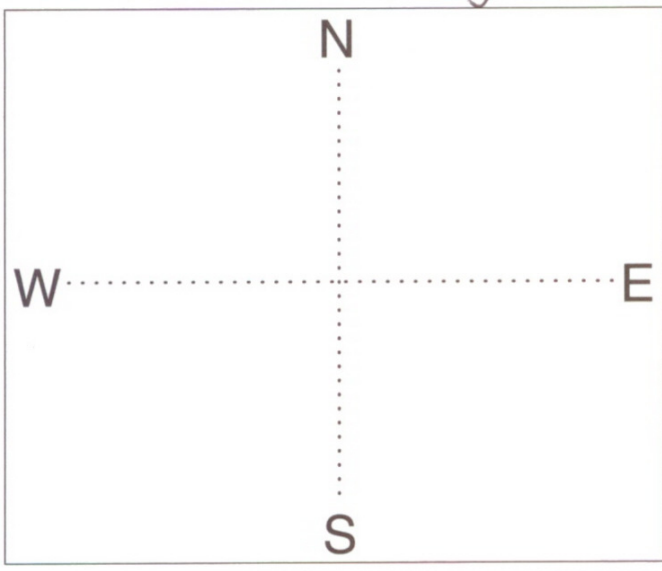
**ACTION:**

None Required  
 Watch  
 Yes, see comments

**Comments:**

may 31 planted  
 (early spike)  
 5-10%  
 WEED free  
 conditions good for emergence

- |  |  |
|--|--|
| <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 \_\_\_\_\_ Variance \_\_\_\_\_  
 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

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

Seed Corn  Corn  Soybeans  Wheat  \_\_\_\_\_  
 Field Name/Number 76R2 *Alfalfa* Alfalfa Sq Growth Stage \_\_\_\_\_  
 General Appearance \_\_\_\_\_ Size \_\_\_\_\_ Variance \_\_\_\_\_ Leaf Color \_\_\_\_\_ Variance \_\_\_\_\_  
 Plant Population \_\_\_\_\_ Soil Moisture 0-12 OK 12+ OK %AWC \_\_\_\_\_

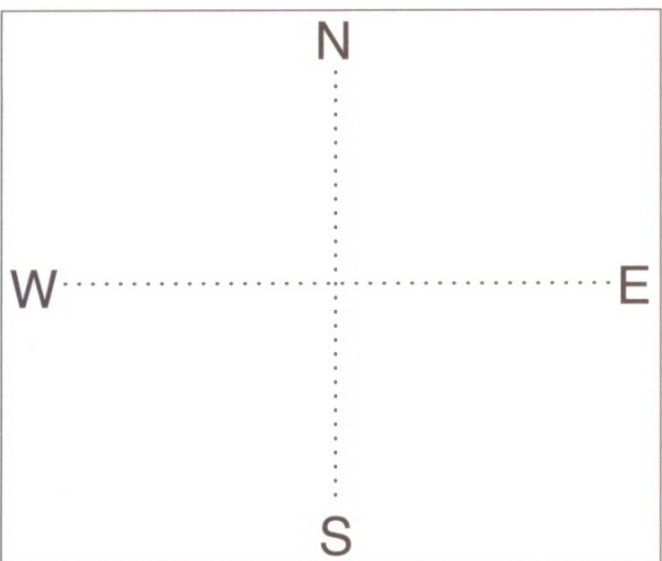
Vigor:  Good  OK  Poor  General  Spotty  
 Stress:  Heat  Moisture  Nitrogen  General  Spotty  
 Stress-Chlorophyll:  None  Low  High  General  Spotty  
 Weed Control:  Good  OK  Poor  Spotty  Dense Spots  
                    Grasses  Broadleaves  Perennials

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

**Comments:**

*Cut last 6 day ago  
 looks ok. (May 30)  
 moisture levels ok*

- |   |  |
|---|--|
| <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 checked="" type="checkbox"/> Wirestem Muhly WM | <input type="checkbox"/> Smartweed -Penn. PSM  |
| <input checked="" 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:   |
| <input type="checkbox"/> Spots <input type="checkbox"/> General | <input type="checkbox"/> Hard <input type="checkbox"/> 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         | <input type="checkbox"/> Yellowish whorl   |
| <input type="checkbox"/> Buggywip                               | <input type="checkbox"/> Stalk bending   |
| <input type="checkbox"/> Twisted whorl                          |  |
| <input type="checkbox"/> Doubles _____%                         |  |
| <input type="checkbox"/> Density _____                          | Variance _____   |
| <input type="checkbox"/> Growth _____                           | Variance _____   |
| <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  \_\_\_\_\_ Grower MSU Date 6/5/2014  
 Field Name/Number N Rate - Irrigated Growth Stage \_\_\_\_\_  
 General Appearance ok Size ok Variance ok Leaf Color ok Variance ok  
 Plant Population \_\_\_\_\_ Soil Moisture 0-12 73 12+ 78 %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

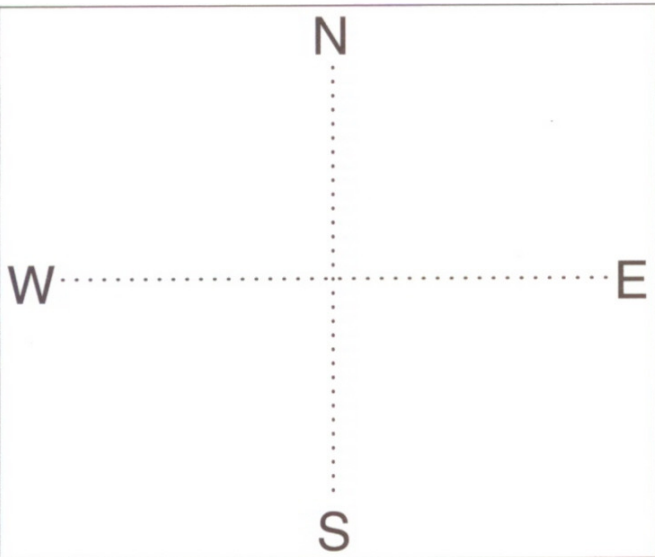
### ACTION:

None Required  
 Watch  
 Yes, see comments

### Comments:

Irrigated Plant population  
 37 33 37 38 43  
 37 35 38  
 27,250 ACRES  
 1 3/4 4-5" Range  
 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           |



- |   |   |  |                                   |
|---|---|--|-----------------------------------|
| <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:    |  |                                   |
| <input type="checkbox"/> Spots                          | <input type="checkbox"/> General          | <input type="checkbox"/> Hard          | <input type="checkbox"/> 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 | <input type="checkbox"/> Yellowish whorl  |  |                                   |
| <input type="checkbox"/> Buggywip                       | <input type="checkbox"/> Stalk bending    | <input type="checkbox"/> Twisted whorl |                                   |
| <input type="checkbox"/> Doubles _____%                 |   |  |                                   |
| <input type="checkbox"/> Density <u>ok</u>              | Variance <u>ok</u>                        |  |                                   |
| <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"/> Root Damage | <input type="checkbox"/> Plants    |
| <input type="checkbox"/> Armyworms    | <input type="checkbox"/> Flea Beetles | <input type="checkbox"/> Foliar Disease-Rust  | <input type="checkbox"/> Insects     | <input type="checkbox"/> Purplish  |
| <input type="checkbox"/> Stalkborers  | <input type="checkbox"/> Aphids       | <input type="checkbox"/> Foliar Disease-Fungi | <input type="checkbox"/> Diseases    | <input type="checkbox"/> Yellowish |
| <input type="checkbox"/> Wireworms    | <input type="checkbox"/> Slugs        | <input type="checkbox"/> Corn Borer-% _____   | <input type="checkbox"/> Nematodes   | <input type="checkbox"/> Stunting  |
| <input type="checkbox"/> Spider mites | <input type="checkbox"/> Leafhoppers  | <input type="checkbox"/> Stunted plants       |                                      |                                    |



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

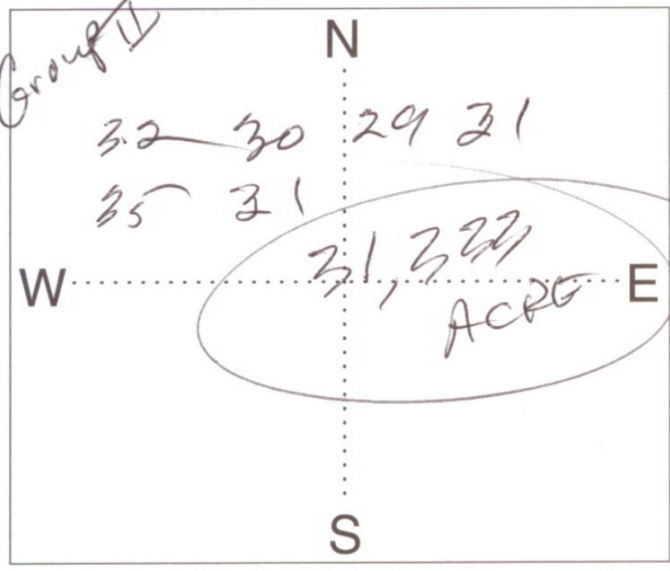
Seed Corn  Corn  Soybeans  Wheat  \_\_\_\_\_ Grower MSU Date 6/15 2014  
 Field Name/Number N Rate - non irrigated Growth Stage \_\_\_\_\_  
 General Appearance OK Size OK Variance OK Leaf Color OK Variance OK  
 Plant Population \_\_\_\_\_ Soil Moisture 0-12 73 12+ 78 %AWC

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:**  
 Group I Plant Population  
 30 33 27 37 29  
 29  
30, 833 ACDE  
 1/3/4 4-5" Range  
 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           |



- |   |  |
|---|--|
| <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:   |
| <input type="checkbox"/> Spots <input type="checkbox"/> General   | <input type="checkbox"/> Hard <input type="checkbox"/> 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   | <input type="checkbox"/> Yellowish whorl   |
| <input type="checkbox"/> Buggywip <input type="checkbox"/> Stalk bending <input type="checkbox"/> Twisted whorl |  |
| <input type="checkbox"/> Doubles _____%   |  |
| <input type="checkbox"/> Density <u>OK</u>  | Variance <u>OK</u>   |
| <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  |