

# BioEnt - Early Season Survey

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

Seed Corn  Corn  Soybeans  Wheat  \_\_\_\_\_  
 Field Name/Number 21R3 \_\_\_\_\_  
 General Appearance OK Size OK Variance OK Leaf Color OK Variance OK  
 Plant Population OK Soil Moisture 0-12 80 12+ 85/85 %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:**  
*No residue*  
 18 20-24"  
 30 27 32 28 30 29  
 29, 333 Acres  
 good weed control  
 no snail feeding (most 6 rows)  
 Residue section - west side of plot

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

*Residue section*  
 N  
 18 20-24"  
 24 31 29 28  
 W 27 30 E  
 28, 166 Acres  
 most plants with snail feeding on lower leaves  
 S

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*

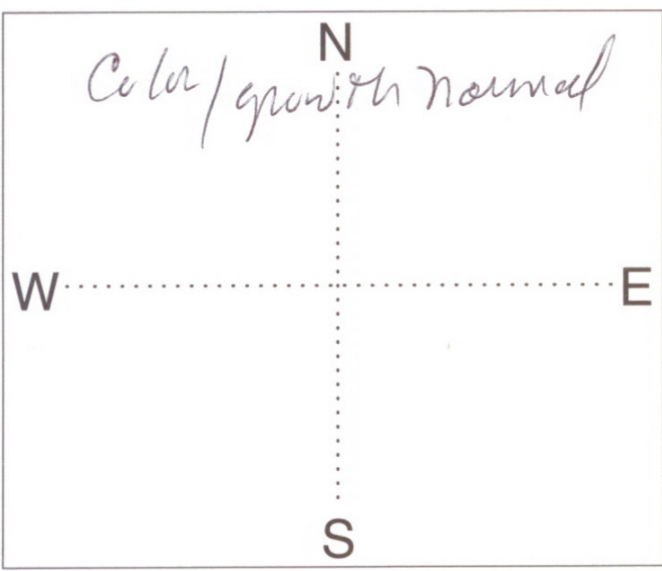
Seed Corn  Corn  Soybeans  Wheat  \_\_\_\_\_ Grower MSU Date 6/19 2014  
 Field Name/Number 62R3 Growth Stage \_\_\_\_\_  
 General Appearance OK Size OK Variance OK Leaf Color OK Variance OK  
 Plant Population OK Soil Moisture 0-12 80 12+ 85/85 %AWC

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:**  
U5 6" Range  
30 29 29 29 30 30  
29.500 ACPB  
grasses common/general  
1-2" Range  
low to moderate density

- general*
- 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
  - Biannuals WB
  - Cover Crop CC
  - Velvetleaf VL
  - Cocklebur CBUR
  - Milkweed CM
- regular level*
- 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



- 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"

- 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

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



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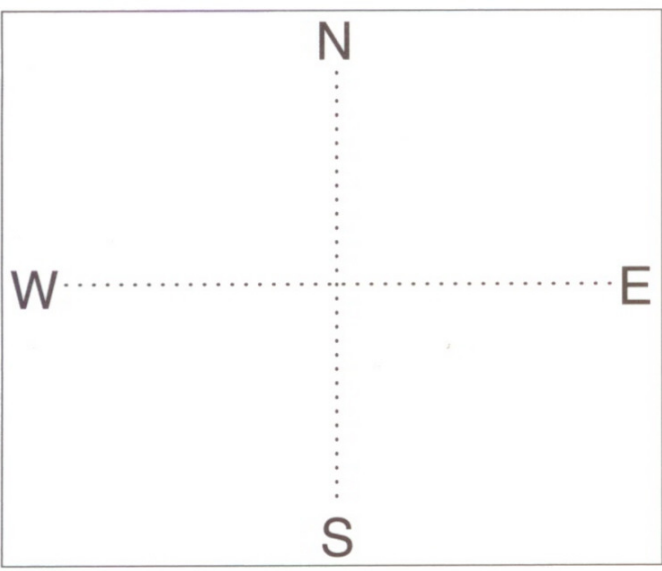
Seed Corn  Corn  Soybeans  Wheat  \_\_\_\_\_  
 Field Name/Number Q3R3 Growth Stage \_\_\_\_\_  
 General Appearance OK Size OK Variance OK Leaf Color OK Variance OK  
 Plant Population \_\_\_\_\_ Soil Moisture 0-12 80 12+ 85/85+ %AWC

**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 GRASSES  
 Watch Pigweed  
 Yes, see comments

**Comments:**  
UG 8-10" Range -  
30 29 29 29 31 30  
29,666 ACRES  
GRASSES scattered about  
Pigweed spots - some dense stands

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Annual Grasses AG | <input checked="" 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  |



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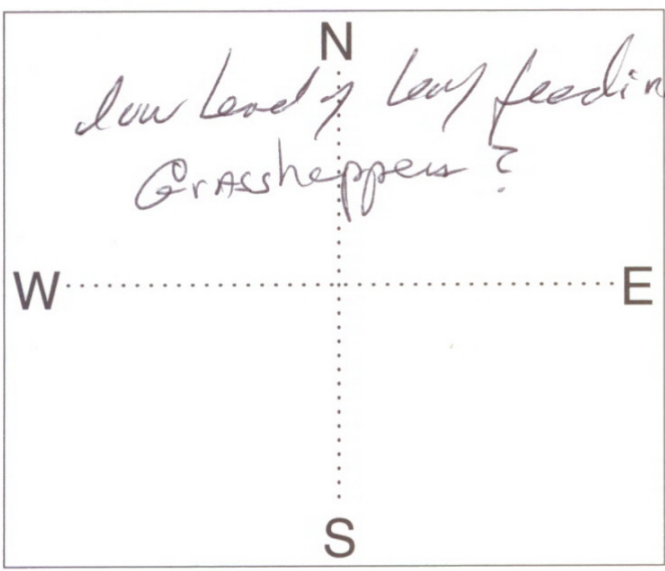
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 General Appearance OK Size \_\_\_\_\_ Variance \_\_\_\_\_ Leaf Color \_\_\_\_\_ Variance \_\_\_\_\_  
 Plant Population OK Soil Moisture 0-12 75 12+ 85/85+ %AWC

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 *will need*  
 Watch *Weed control*  
 Yes, see comments *at some point*

**Comments:** *15<sup>th</sup> Row 3484*  
*26 25 21 22 21 24*  
*28 22*  
*X = 24.375 4.875 ft population*  
*02/3 4-5" 169884*  
*1 ACTE*  
*low level of weeds/grasses*  
*1-2" Range*  
*AG/RRP/LQU*

- |   |  |
|---|--|
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| <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="radio"/> Spots <input type="radio"/> General  | <input type="radio"/> Hard <input type="radio"/> 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="radio"/> Yellowish whorl  |
| <input type="radio"/> Buggywip <input type="radio"/> Stalk bending <input type="radio"/> 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    |
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- |                                      |                                    |
|--------------------------------------|------------------------------------|
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| <input type="checkbox"/> Diseases    | <input type="checkbox"/> Yellowish |
| <input type="checkbox"/> Nematodes   | <input type="checkbox"/> Stunting  |