

# BioEnt – Early Season Survey

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

Seed Corn  Corn  Soybeans  Wheat  Green Beans  Hay

Date 7/14/2023

Field Name/Number TIR2 Grower MSU Growth Stage V10/11

General Appearance good Size 4' Range Variance ok Leaf Color good Variance good

Plant Population \_\_\_\_\_ Soil Moisture 0-12 60 12-24 60 24+ \_\_\_\_\_ %AWC

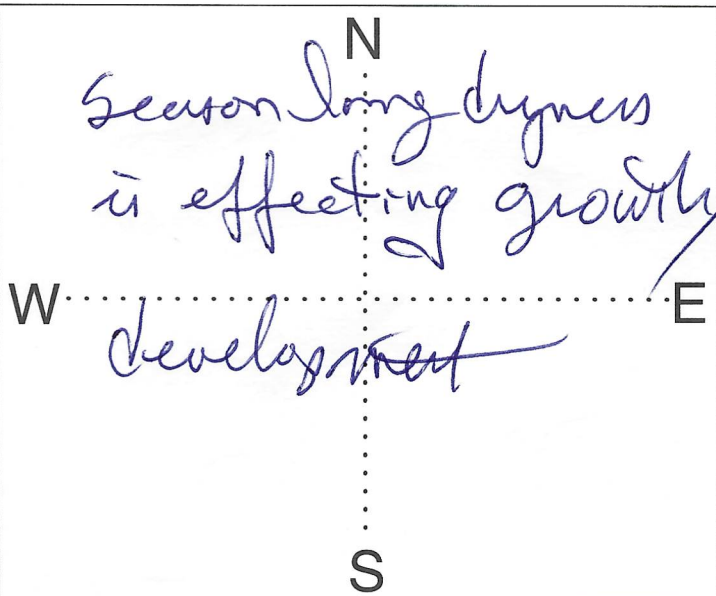
Vigor:  Good  OK  Poor  General  Spotty  
 Stress:  Heat  Moisture  Nitrogen  General  Spotty  
 Stress-Chlorophyll:  None  Low  High  General  Spotty  
 Weed Control:  Good  OK  Poor  Spotty  Dense Spots  
 Grasses  Broadleaves  Perennials

ACTION: looking good  
 None Required  
 Watch  
 Yes, see comments

Comments:

Color/growth normal.  
32 28 31 30 30 32  
30,500/Acre

- |  |  |
|--|--|
| <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"/> Marestalk MT      | <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"/> Pokeweed PW           |
| <input type="checkbox"/> Milkweed CM       | <input type="checkbox"/> Wild Corn WC          |



- |   |   |  |                                   |
|---|---|--|-----------------------------------|
| <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"/> 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 _____ % Corn           |   |  |                                   |
| <input type="checkbox"/> Density _____                  | Variance _____                            |  |                                   |
| <input type="checkbox"/> Growth <u>good</u>             | Variance <u>good</u>                      |  |                                   |
| <input type="checkbox"/> Plant spacing _____            | Variance _____                            |  |                                   |
| <input type="checkbox"/> Emergence _____                | Variance _____                            |  |                                   |
| <input type="checkbox"/> Soil Temperature _____         | 2"  |  |                                   |

- |  |  |   |                                      |                                    |
|--|--|---|--------------------------------------|------------------------------------|
| <input type="checkbox"/> Cutworms CW     | <input type="checkbox"/> White Grubs WG  | <input type="checkbox"/> Seed Corn Maggots    | <input type="checkbox"/> Root Damage | <input type="checkbox"/> Plants    |
| <input type="checkbox"/> Armyworms AW    | <input type="checkbox"/> Flea Beetles FB | <input type="checkbox"/> Foliar Disease-Rust  | <input type="checkbox"/> Insects     | <input type="checkbox"/> Purplish  |
| <input type="checkbox"/> Stalkborers SB  | <input type="checkbox"/> Aphids A        | <input type="checkbox"/> Foliar Disease-Fungi | <input type="checkbox"/> Diseases    | <input type="checkbox"/> Yellowish |
| <input type="checkbox"/> Wireworms WW    | <input type="checkbox"/> Slugs S         | <input type="checkbox"/> Corn Borer-% _____   | <input type="checkbox"/> Nematodes   | <input type="checkbox"/> Stunting  |
| <input type="checkbox"/> Spider Mites SM | <input type="checkbox"/> Leafhoppers LH  | <input type="checkbox"/> Stunted plants       |                                      |                                    |

# BioEnt – Early Season Survey

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

Seed Corn  Corn  Soybeans  Wheat  Green Beans  Hay

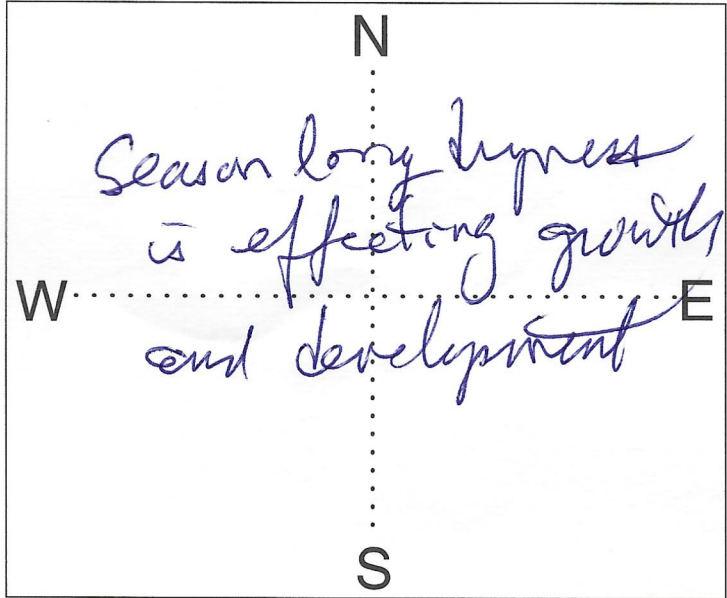
Date 6/14/2023  
 Field Name/Number T2R2 Grower MSY Growth Stage V9 Range  
 General Appearance good Size 3-4' Variance moderate Leaf Color good Variance ok  
 Plant Population \_\_\_\_\_ Soil Moisture 0-12 60 12-24 60 24+ \_\_\_\_\_ %AWC \_\_\_\_\_

Vigor: <input checked="" type="checkbox"/> Good <input type="checkbox"/> OK <input type="checkbox"/> Poor	<input type="checkbox"/> General <input type="checkbox"/> Spotty	<b>ACTION:</b> <input checked="" type="checkbox"/> None Required <input type="checkbox"/> Watch <input type="checkbox"/> Yes, see comments
Stress: <input type="checkbox"/> Heat <input type="checkbox"/> Moisture <input type="checkbox"/> Nitrogen	<input type="checkbox"/> General <input type="checkbox"/> Spotty	
Stress-Chlorophyll: <input checked="" type="checkbox"/> None <input type="checkbox"/> Low <input type="checkbox"/> High	<input type="checkbox"/> General <input type="checkbox"/> Spotty	
Weed Control: <input checked="" type="checkbox"/> Good <input type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/> Spotty <input type="checkbox"/> Dense Spots	<input type="checkbox"/> Grasses <input type="checkbox"/> Broadleaves <input type="checkbox"/> Perennials	

Comments:

vs 19 Range  
3-4' Range  
Some spots are shorter & color not as good.  
28 29  
29 29 27 28  
28, 223/Acres

- |  |  |
|--|--|
| <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"/> Marestalk MT      | <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"/> Pokeweed PW           |
| <input type="checkbox"/> Milkweed CM       | <input type="checkbox"/> Wild Corn WC          |



<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 _____ % Corn			
<input type="checkbox"/> Density _____ Variance _____			
<input type="checkbox"/> Growth <u>good</u> Variance <u>moderate</u>			
<input type="checkbox"/> Plant spacing _____ Variance _____			
<input type="checkbox"/> Emergence _____ Variance _____			
<input type="checkbox"/> Soil Temperature _____ 2"			

<input type="checkbox"/> Cutworms CW	<input type="checkbox"/> White Grubs WG	<input type="checkbox"/> Seed Corn Maggots	<input type="checkbox"/> Root Damage	<input type="checkbox"/> Plants
<input type="checkbox"/> Armyworms AW	<input type="checkbox"/> Flea Beetles FB	<input type="checkbox"/> Foliar Disease-Rust	<input type="checkbox"/> Insects	<input type="checkbox"/> Purplish
<input type="checkbox"/> Stalkborers SB	<input type="checkbox"/> Aphids A	<input type="checkbox"/> Foliar Disease-Fungi	<input type="checkbox"/> Diseases	<input type="checkbox"/> Yellowish
<input type="checkbox"/> Wireworms WW	<input type="checkbox"/> Slugs S	<input type="checkbox"/> Corn Borer-% _____	<input type="checkbox"/> Nematodes	<input type="checkbox"/> Stunting
<input type="checkbox"/> Spider Mites SM	<input type="checkbox"/> Leafhoppers LH	<input type="checkbox"/> Stunted plants		

# BioEnt – Early Season Survey

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

Seed Corn  Corn  Soybeans  Wheat  Green Beans  Hay

Date 6/14/2023  
 Field Name/Number T3R2 Grower MSY Growth Stage V8/V10  
 General Appearance \_\_\_\_\_ Size 3-4' Variance Moderate Leaf Color good Variance good  
 Plant Population \_\_\_\_\_ Soil Moisture 0-12 80 12-24 60 24+ \_\_\_\_\_ %AWC \_\_\_\_\_

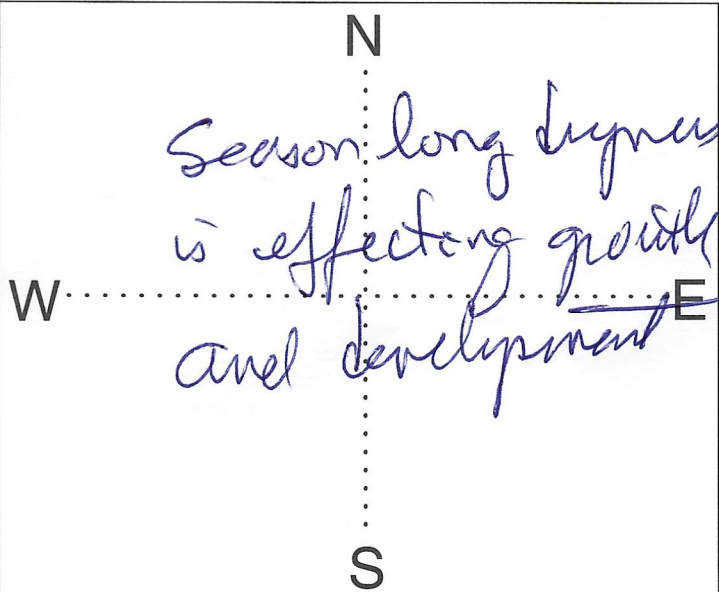
Vigor:  Good  OK  Poor  General  Spotty  
 Stress:  Heat  Moisture  Nitrogen  General  Spotty  
 Stress-Chlorophyll:  None  Low  High  General  Spotty  
 Weed Control:  Good  OK  Poor  Spotty  Dense Spots  
 Grasses  Broadleaves  Perennials

ACTION:  
 None Required  
 Watch  
 Yes, see comments

Comments:

Size Variance  $3\frac{1}{2}$ -4'  
 Growth Stage Variance  
 V8 - V10  
 Few plants V6 @ 20" tall  
 28 34 25 24 28 28  
 24, 500 Acres

- |  |  |
|--|--|
| <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"/> Marestalk MT      | <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"/> Pokeweed PW           |
| <input type="checkbox"/> Milkweed CM       | <input type="checkbox"/> Wild Corn WC          |



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 \_\_\_\_\_ % Corn  
 Density \_\_\_\_\_ Variance \_\_\_\_\_  
 Growth good Variance Mixed  
 Plant spacing \_\_\_\_\_ Variance \_\_\_\_\_  
 Emergence \_\_\_\_\_ Variance \_\_\_\_\_  
 Soil Temperature \_\_\_\_\_ 2"

<input type="checkbox"/> Cutworms CW	<input type="checkbox"/> White Grubs WG	<input type="checkbox"/> Seed Corn Maggots
<input type="checkbox"/> Armyworms AW	<input type="checkbox"/> Flea Beetles FB	<input type="checkbox"/> Foliar Disease-Rust
<input type="checkbox"/> Stalkborers SB	<input type="checkbox"/> Aphids A	<input type="checkbox"/> Foliar Disease-Fungi
<input type="checkbox"/> Wireworms WW	<input type="checkbox"/> Slugs S	<input type="checkbox"/> Corn Borer-% _____
<input type="checkbox"/> Spider Mites SM	<input type="checkbox"/> Leafhoppers LH	<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  Green Beans  Hay

Date 7/14/2023

Field Name/Number TYR 2 Grower msac Growth Stage U3 to U7

General Appearance ok Size 4" to 12" Variance high Leaf Color good Variance good

Plant Population Below Soil Moisture 0-12 60 12-24 60 24+ \_\_\_\_\_ %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

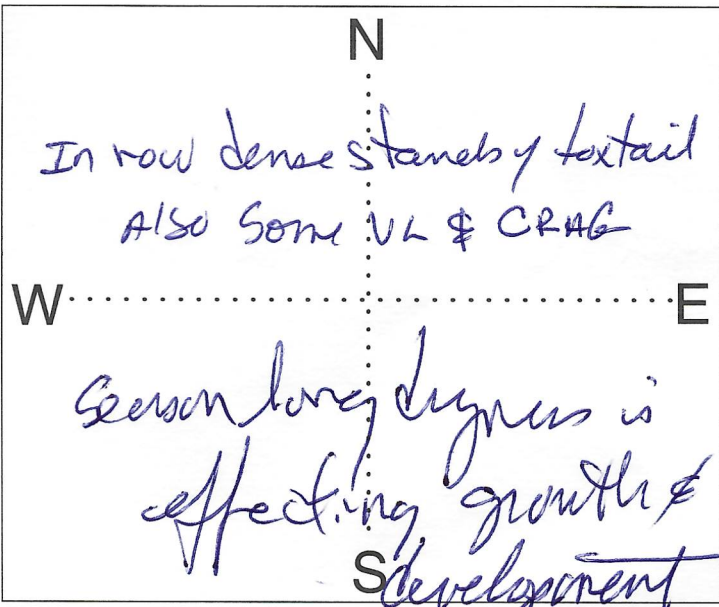
**ACTION:**  
 None Required  
 Watch  
 Yes, see comments

**Comments:**

Sizes - variance high  
 Range 4" to 12" Range  
 # U6/7 to U3/4 Range

23 24 25 23 21 25  
 23,500/Acre

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Annual Grasses AG | <input type="checkbox"/> Pigweed RRP             |
| <input checked="" 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"/> Marestalk MT                 | <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"/> Pokeweed PW             |
| <input type="checkbox"/> Milkweed CM                  | <input type="checkbox"/> Wild Corn WC            |



- |   |   |  |  |
|---|---|--|--|
| <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"/> 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"/> Doubles _____ % Corn                     | <input type="checkbox"/> Buggywip         | <input type="checkbox"/> Stalk bending | <input type="checkbox"/> Twisted whorl |
| <input type="checkbox"/> Density _____ Variance _____             |   |  |  |
| <input type="checkbox"/> Growth <u>good</u> Variance <u>Mixed</u> |   |  |  |
| <input type="checkbox"/> Plant spacing _____ Variance _____       |   |  |  |
| <input type="checkbox"/> Emergence _____ Variance _____           |   |  |  |
| <input type="checkbox"/> Soil Temperature _____ 2"                |   |  |  |

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Cutworms CW     | <input type="checkbox"/> White Grubs WG  | <input type="checkbox"/> Seed Corn Maggots    |
| <input type="checkbox"/> Armyworms AW    | <input type="checkbox"/> Flea Beetles FB | <input type="checkbox"/> Foliar Disease-Rust  |
| <input type="checkbox"/> Stalkborers SB  | <input type="checkbox"/> Aphids A        | <input type="checkbox"/> Foliar Disease-Fungi |
| <input type="checkbox"/> Wireworms WW    | <input type="checkbox"/> Slugs S         | <input type="checkbox"/> Corn Borer-% _____   |
| <input type="checkbox"/> Spider Mites SM | <input type="checkbox"/> Leafhoppers LH  | <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  Green Beans  Hay  Switchgrass Date 7/14 2023  
 Field Name/Number T6R2 Grower MSU Growth Stage \_\_\_\_\_  
 General Appearance \_\_\_\_\_ Size 3-4' Variance good Leaf Color good Variance good  
 Plant Population \_\_\_\_\_ Soil Moisture 0-12 ok 12-24 ok 24+ \_\_\_\_\_ %AWC \_\_\_\_\_

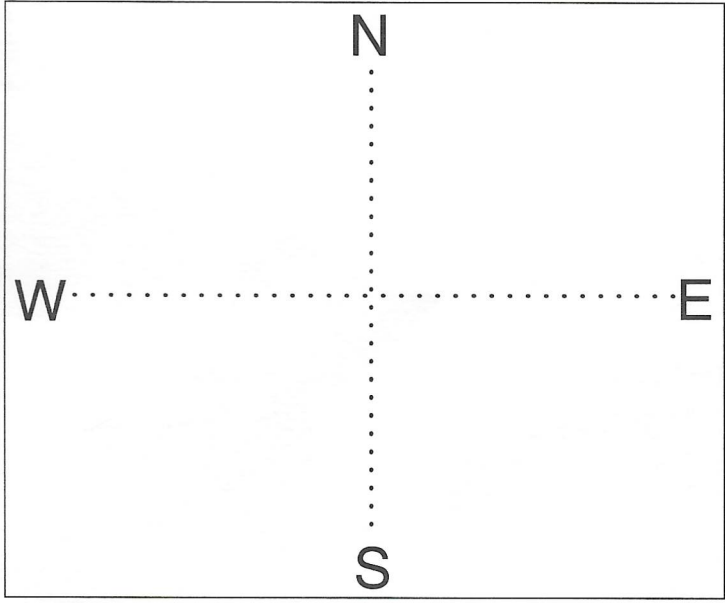
Vigor: <input checked="" type="checkbox"/> Good <input type="checkbox"/> OK <input type="checkbox"/> Poor Stress: <input type="checkbox"/> Heat <input type="checkbox"/> Moisture <input type="checkbox"/> Nitrogen Stress-Chlorophyll: <input type="checkbox"/> None <input type="checkbox"/> Low <input type="checkbox"/> High Weed Control: <input checked="" type="checkbox"/> Good <input type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/> Spotty <input type="checkbox"/> Grasses <input type="checkbox"/> Broadleaves <input type="checkbox"/> Perennials	<b>ACTION:</b> <input checked="" type="checkbox"/> None Required <input type="checkbox"/> Watch <input type="checkbox"/> Yes, see comments
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Comments:

30/40% with seedheads

Fleabane common throughout

- |  |  |
|--|--|
| <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"/> Marestalk MT      | <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"/> Pokeweed PW           |
| <input type="checkbox"/> Milkweed CM       | <input type="checkbox"/> Wild Corn WC          |



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 \_\_\_\_\_ % Corn  
 Density good Variance \_\_\_\_\_  
 Growth good Variance good  
 Plant spacing \_\_\_\_\_ Variance \_\_\_\_\_  
 Emergence \_\_\_\_\_ Variance \_\_\_\_\_  
 Soil Temperature \_\_\_\_\_ 2"

<input type="checkbox"/> Cutworms CW <input type="checkbox"/> Armyworms AW <input type="checkbox"/> Stalkborers SB <input type="checkbox"/> Wireworms WW <input type="checkbox"/> Spider Mites SM	<input type="checkbox"/> White Grubs WG <input type="checkbox"/> Flea Beetles FB <input type="checkbox"/> Aphids A <input type="checkbox"/> Slugs S <input type="checkbox"/> Leafhoppers LH	<input type="checkbox"/> Seed Corn Maggots <input type="checkbox"/> Foliar Disease-Rust <input type="checkbox"/> Foliar Disease-Fungi <input type="checkbox"/> Corn Borer-% _____ <input type="checkbox"/> Stunted plants	<input checked="" type="checkbox"/> Root Damage <input type="checkbox"/> Insects <input type="checkbox"/> Diseases <input type="checkbox"/> Nematodes	<input type="checkbox"/> Plants <input type="checkbox"/> Purplish <input type="checkbox"/> Yellowish <input type="checkbox"/> Stunting
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# BioEnt - Early Season Survey

*Irrigation study*

*Irrigated*

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

Seed Corn  Corn  Soybeans  Wheat  Green Beans  Hay

Date 7/14/2023

Field Name/Number \_\_\_\_\_, Grower Manly, Growth Stage V15

General Appearance good Size 6 Variance good Leaf Color good Variance \_\_\_\_\_

Plant Population \_\_\_\_\_ Soil Moisture 0-12 65 12-24 70 24+ 75 %AWC

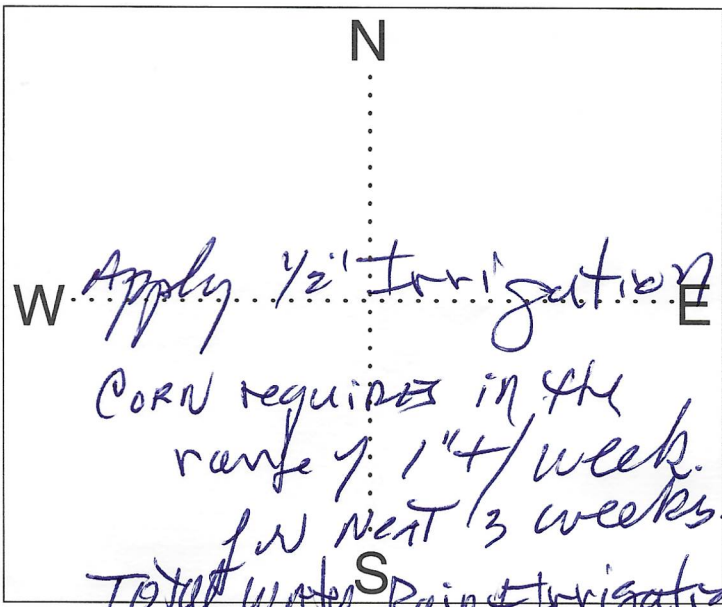
Vigor:  Good  OK  Poor  General  Spotty  
 Stress:  Heat  Moisture  Nitrogen  General  Spotty  
 Stress-Chlorophyll:  None  Low  High  General  Spotty  
 Weed Control:  Good  OK  Poor  Spotty  Dense Spots  
 Grasses  Broadleaves  Perennials

ACTION:  
 None Required  
 Watch  
 Yes, see comments

Comments:

*29 28 31 29 29 30*  
*29, 333/acre*

- Annual Grasses AG
- Foxtail F
- Panicum -Fall FP
- Quack grass QG
- Wirestem Muhly WM
- Marestail MT
- Crabgrass CG
- Johnsongrass JG
- Shattercane SCA
- Nutsedge NS
- Winter Annuals WA
- Chickweed CW
- Biannuals 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
- Pokeweed PW
- Wild Corn WC



- 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 \_\_\_\_\_ % Corn
- Density good Variance \_\_\_\_\_
- Growth good Variance good
- Plant spacing \_\_\_\_\_ Variance \_\_\_\_\_
- Emergence \_\_\_\_\_ Variance \_\_\_\_\_
- Soil Temperature \_\_\_\_\_ 2"

- Cutworms CW
- Armyworms AW
- Stalkborers SB
- Wireworms WW
- Spider Mites SM
- White Grubs WG
- Flea Beetles FB
- Aphids A
- Slugs S
- Leafhoppers LH
- Seed Corn Maggots
- Foliar Disease-Rust
- Foliar Disease-Fungi
- Corn Borer-% \_\_\_\_\_
- Stunted plants

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

# Irrigation Study

# Non-Irrigated

## BioEnt - Early Season Survey

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

Seed Corn  Corn  Soybeans  Wheat  Green Beans  Hay

Date 7/14/2023

Field Name/Number \_\_\_\_\_ Grower Manley Growth Stage U10

General Appearance OK Size 2-3' Variance moderate Leaf Color ch Variance ok

Plant Population \_\_\_\_\_ Soil Moisture 0-12 60 12-24 60 24+ \_\_\_\_\_ %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:

27 25 28 30 30 29  
28,166/ACRE

- Annual Grasses AG
- Foxtail F
- Panicum -Fall FP
- Quack grass QG
- Wirestem Muhly WM
- Marestalk MT
- Crabgrass CG
- Johnsongrass JG
- Shattercane SCA
- Nutsedge NS
- Winter Annuals WA
- Chickweed CW
- Biannuals WB
- Cover Crop CC
- Velvetleaf VL
- Cocklebur CBUR
- Milkweed CM
- Pigweed RRP
- Horsenettle HN
- Bindweed -Field FBW
- Bindweed -Hedge HBW
- Smartweed -Penn. PSM
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- Nightshade -Black BNS
- Jimsonweed JW
- Canada Thistle CTH
- Yellow Rocket YR
- Pokeweed PW
- Wild Corn WC

N

Season long dry conditions are affecting growth & development

W ..... E

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 \_\_\_\_\_ % Corn

Density OK Variance \_\_\_\_\_

Growth OK Variance Mixed

Plant spacing \_\_\_\_\_ Variance \_\_\_\_\_

Emergence \_\_\_\_\_ Variance \_\_\_\_\_

Soil Temperature \_\_\_\_\_ 2"

Cutworms CW  White Grubs WG  Seed Corn Maggots

Armyworms AW  Flea Beetles FB  Foliar Disease-Rust

Stalkborers SB  Aphids A  Foliar Disease-Fungi

Wireworms WW  Slugs S  Corn Borer-% \_\_\_\_\_

Spider Mites SM  Leafhoppers LH  Stunted plants

Root Damage  Plants

Insects  Purplish

Diseases  Yellowish

Nematodes  Stunting