

# BioEnt – Early Season Survey

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

Seed Corn  Corn  Soybeans  Wheat  Green Beans  Hay

Date 7/26/2023

Field Name/Number TIR3 Grower MSU Growth Stage VT

General Appearance \_\_\_\_\_ Size 4-6' Variance high 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:**  
 None Required  
 Watch  
 Yes, see comments

**Comments:**

Size 4-6'+  
 VIB to pollination

High variance due to  
 year long dry conditions  
 Both size & development

N  
 .....  
 Plants show effects  
 of dry conditions  
 .....  
 W ..... from planting ..... E  
 .....  
 S

- |  |  |
|--|--|
| <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 <u>high</u>                      |  |                                   |
| <input type="checkbox"/> Growth <u>ok</u>               | Variance <u>high</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 <u>ok</u>  | <input type="checkbox"/> Purplish  |
| <input type="checkbox"/> Stalkborers SB  | <input type="checkbox"/> Aphids A        | <input type="checkbox"/> Foliar Disease-Fungi | <input type="checkbox"/> Diseases <u>ok</u> | <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 7/26 2023

Field Name/Number T2R3 Grower MSU Growth Stage V6/7

General Appearance OK Size 5' Variance moderate Leaf Color good Variance OK

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

Vigor: <input type="checkbox"/> Good <input checked="" type="checkbox"/> OK <input type="checkbox"/> Poor	<input type="checkbox"/> General <input type="checkbox"/> Spotty	<b>ACTION:</b> <input checked="" type="checkbox"/> None Required <i>See notes</i> <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 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	

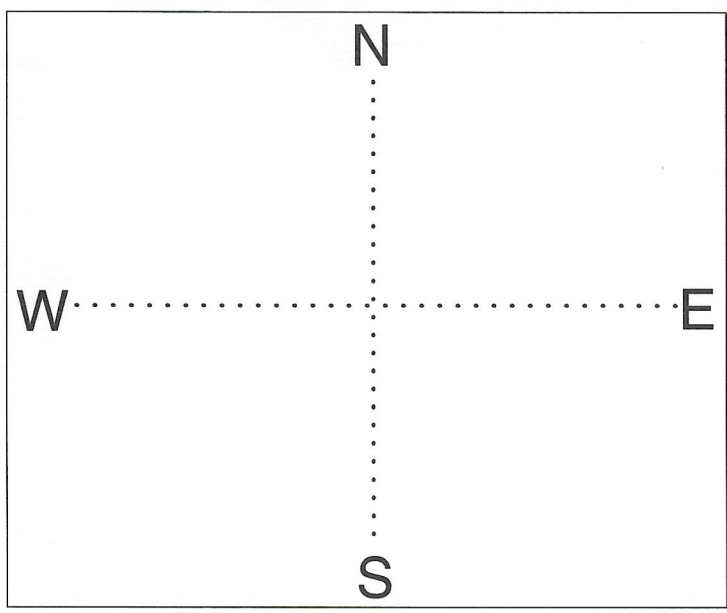
Comments:

*bt early tassal stage  
few plants with pollen shed.*

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*Season long dry conditions  
is effecting growth &  
development*

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|--|--|
| <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>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 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 <u>OK</u>	<input type="checkbox"/> Foliar Disease-Fungi <u>OK</u>	<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 7/26/2023

Field Name/Number T3 R3 Grower MSY Growth Stage \_\_\_\_\_

General Appearance \_\_\_\_\_ Size 3-7' Variance high Leaf Color good Variance good

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

Vigor:  Good  OK  Poor

Stress:  Heat  Moisture  Nitrogen

Stress-Chlorophyll:  None  Low  High

Weed Control:  Good  OK  Poor  Spotty  Dense Spots

Grasses  Broadleaves  Perennials

ACTION: See notes

None Required

Watch

Yes, see comments

Comments:

*high size & stage  
variance due to dry  
conditions throughout  
season.  
Uneven 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"/> Marestail 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          |

dry season causing uneven emergence  
W...and...growth...and...E  
development.

N  
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 \_\_\_\_\_ Variance high

Growth ok Variance high

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 <u>ok</u> |
| <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 checked="" type="checkbox"/> Root Damage | <input type="checkbox"/> Plants    |
| <input type="checkbox"/> Insects <u>ph</u>      | <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 7/26 2023  
 Field Name/Number T4R3 Grower MSU Growth Stage V6 / V10  
 General Appearance OK Size 8-16" Variance high Leaf Color OK Variance OK  
 Plant Population OK Soil Moisture 0-12 60 12-24 60 24+ \_\_\_\_\_ %AWC

Vigor: <input type="checkbox"/> Good <input checked="" 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 type="checkbox"/> Good <input checked="" type="checkbox"/> OK <input type="checkbox"/> Poor <input checked="" type="checkbox"/> Grasses <input checked="" type="checkbox"/> Broadleaves <input type="checkbox"/> Perennials	<input type="checkbox"/> General <input type="checkbox"/> Spotty <input type="checkbox"/> General <input type="checkbox"/> Spotty <input checked="" type="checkbox"/> General <input checked="" type="checkbox"/> Spotty <input checked="" type="checkbox"/> Spotty <input checked="" type="checkbox"/> Dense Spots	<b>ACTION:</b> <input checked="" type="checkbox"/> None Required <input type="checkbox"/> Watch <input type="checkbox"/> Yes, see comments
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Comments:  
In row grasses & some weeds.  
Corn size 8-16"  
V6 - V10 Range.  
Due to dry season, uneven 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"/> 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          |

growth. **N**  
 Plants showing stress  
 W... As a result of dry condition during entire growing season. **E**  
 S

<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 checked="" 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>OK</u> Variance <u>high</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 checked="" 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 7/26/2023

Field Name/Number T6R3 Grower \_\_\_\_\_ Growth Stage Heading

General Appearance good Size 4-5' Variance ok Leaf Color ok Variance ok

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

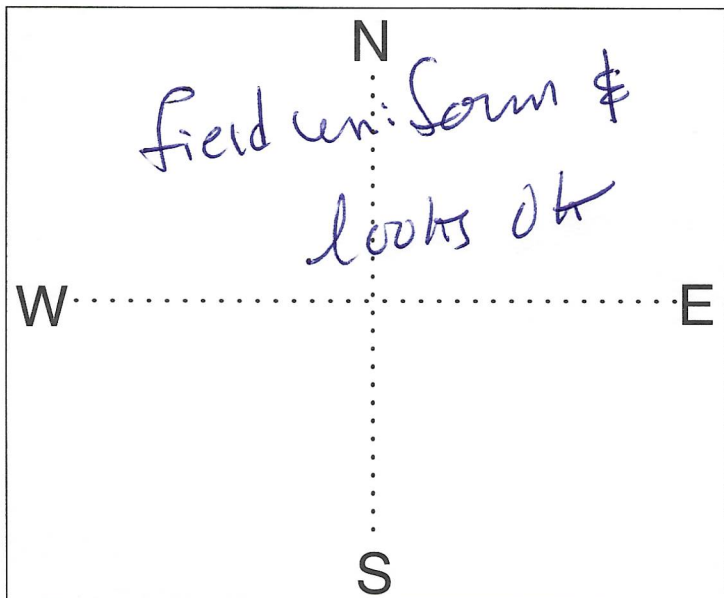
Vigor:  Good  OK  Poor  General  Spotty  
 Stress:  Heat  Moisture  Nitrogen  General  Spotty  
 Stress-Chlorophyll:  None  Low  High  General  Spotty  
 Weed Control:  Good  OK  Poor  Spotty  Dense Spots  
 Grasses  Broadleaves  Perennials

ACTION: soil moisture between 50-60% Avg.  
 None Required  
 Watch  
 Yes, see comments

## Comments:

90% +/- Seeding  
Seed heads emerging  
some heads with seeds

- |  |  |
|--|--|
| <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>ok</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       |
- ok

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



# BioEnt – Early Season Survey

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

Seed Corn  Corn  Soybeans  Wheat  Green Beans  Hay Date 7/26/2023

Field Name/Number \_\_\_\_\_ Grower MSU Growth Stage V1

General Appearance good Size 21 Variance good Leaf Color good Variance good

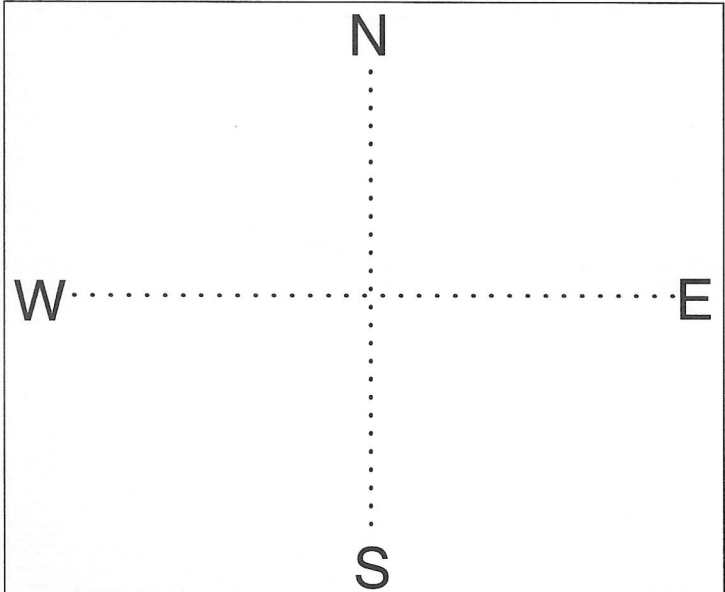
Plant Population \_\_\_\_\_ Soil Moisture 0-12 70 12-24 75 24+ 75 %AWC \_\_\_\_\_

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

Early pollen shed,  
Silks emerging.  
Currently less than  
1/20 pollination.

- |  |  |
|--|--|
| <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="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 _____ % 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 checked="" 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 <u>ok</u>	<input type="checkbox"/> Purplish
<input type="checkbox"/> Stalkborers SB	<input type="checkbox"/> Aphids A	<input type="checkbox"/> Foliar Disease-Fung	<input type="checkbox"/> Diseases <u>ok</u>	<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

*N<sub>2</sub> Rate - non-Irrigated Corn*  
 Gary Manley 269-273-7070 or 269-816-1080

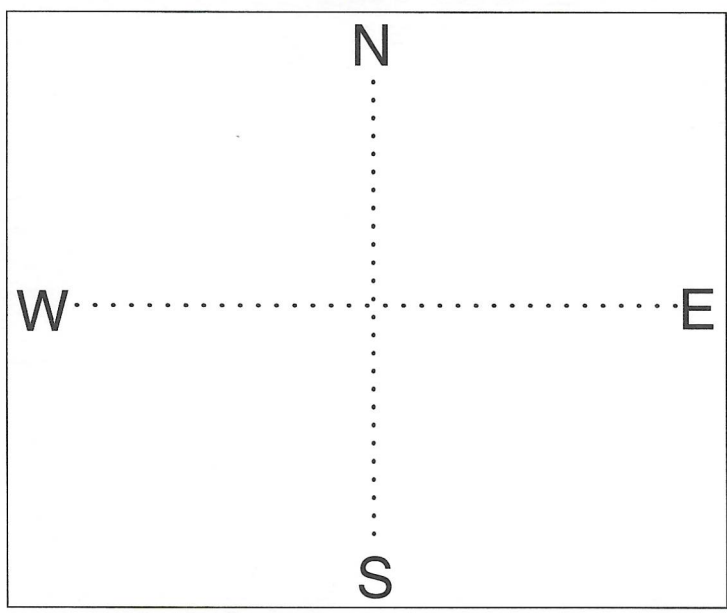
Seed Corn  Corn  Soybeans  Wheat  Green Beans  Hay Date 7/26/2023  
 Field Name/Number \_\_\_\_\_ Grower MSU Growth Stage V7  
 General Appearance Short Size 45' Variance ok Leaf Color good Variance ok  
 Plant Population \_\_\_\_\_ Soil Moisture 0-12 60 12-24 60 24+ \_\_\_\_\_ %AWC \_\_\_\_\_

Vigor: <input type="checkbox"/> Good <input checked="" 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"/> Dense Spots <input type="checkbox"/> Grasses <input type="checkbox"/> Broadleaves <input type="checkbox"/> Perennials	ACTION: <input checked="" type="checkbox"/> None Required <input type="checkbox"/> Watch <input type="checkbox"/> Yes, see comments
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Comments:

*Corn short, behind in development*  
*Season long dryness is affecting growth & development.*

- |  |  |
|--|--|
| <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 ok Variance moderate  
 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 checked="" 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 type="checkbox"/> Root Damage <input checked="" 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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