

# BioEnt – Early Season Survey

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

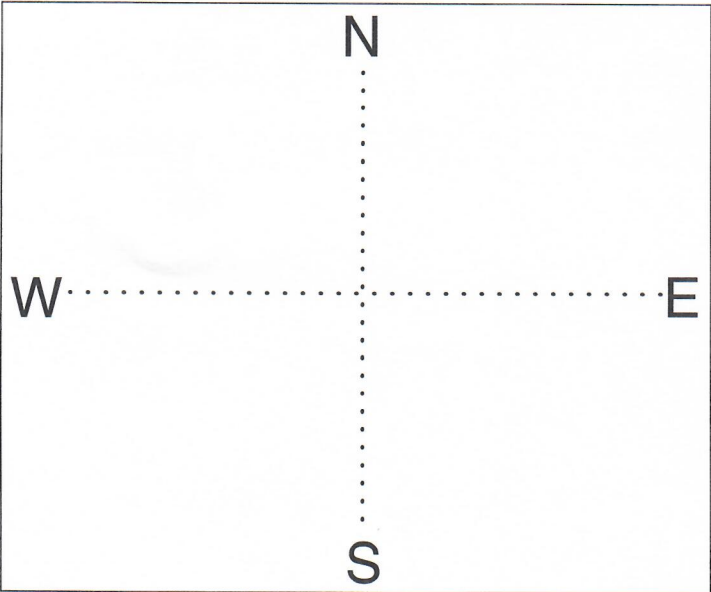
Seed Corn  Corn  Soybeans  Wheat  Green Beans  Hay  
 Date 8/6 2021  
 Field Name/Number TIR3 Grower \_\_\_\_\_ Growth Stage R3/4  
 General Appearance good Size 3 1/4 Variance good Leaf Color good Variance good  
 Plant Population \_\_\_\_\_ Soil Moisture 0-12 55/60 12-24 66 24+ \_\_\_\_\_ %AWC

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:**  
 None Required  
 Watch  
 Yes, see comments

Comments:  
*Color growth normal - good.*  
*spots starting show moisture stress*

- |  |  |
|--|--|
| <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"/> Maretail 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 good  
 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  |



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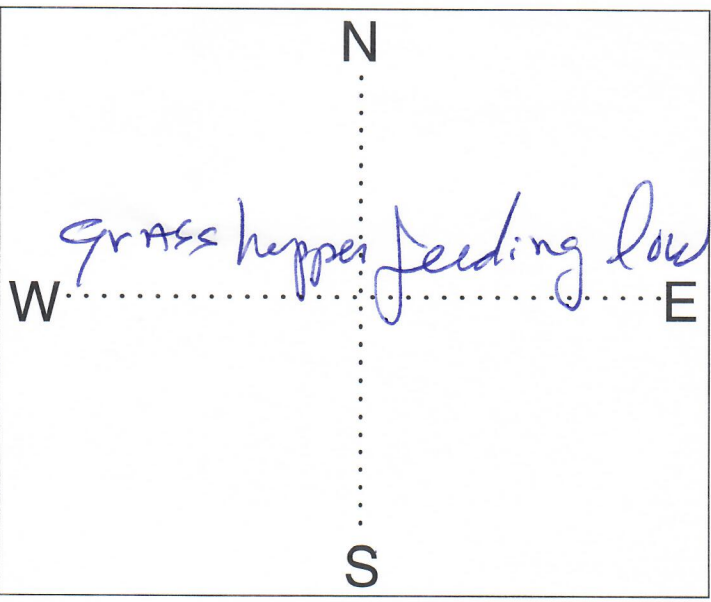
Seed Corn  Corn  Soybeans  Wheat  Green Beans  Hay Date Aug 6 2021  
 Field Name/Number TJR3 Grower MSU Growth Stage R4  
 General Appearance good Size 2-3' Variance good Leaf Color good Variance good  
 Plant Population \_\_\_\_\_ Soil Moisture 0-12 55/60 12-24 55/60 24+ \_\_\_\_\_ %AWC \_\_\_\_\_

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:  
*Color/growth look good.*

- |  |  |
|--|--|
| <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"/> Maretail 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 good  
 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"/> 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		



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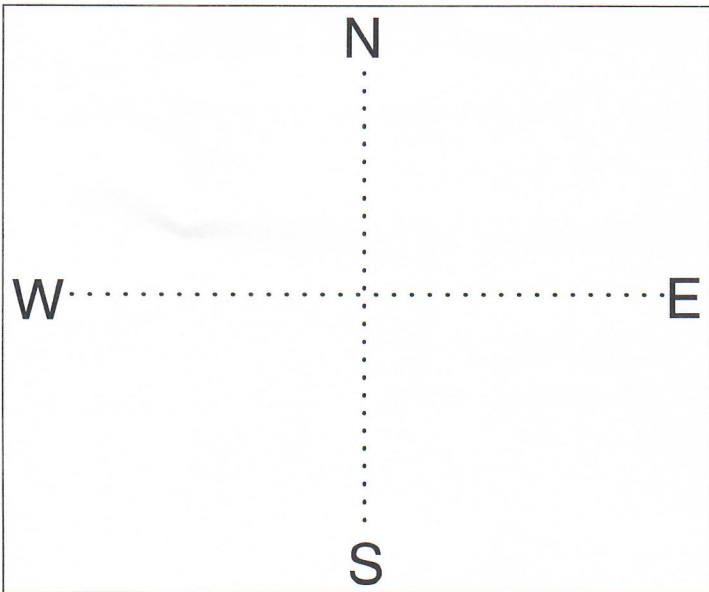
Seed Corn  Corn  Soybeans  Wheat  Green Beans  Hay  
 Date 8/6/2021  
 Field Name/Number 7BR3 Grower msy Growth Stage R1-R3+  
 General Appearance good Size good Variance ok Leaf Color ok Variance good  
 Plant Population \_\_\_\_\_ Soil Moisture 0-12 55/60 12-24 55/60 24+ \_\_\_\_\_ %AWC \_\_\_\_\_

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:**  
Replant - R1 - 3+  
12-14-20" Range.  
Replant R1 - 12" +/-  
early plant R3+ - 20" +/-

- |  |  |
|--|--|
| <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"/> Maretail 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 good  
 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



# BioEnt - Early Season Survey

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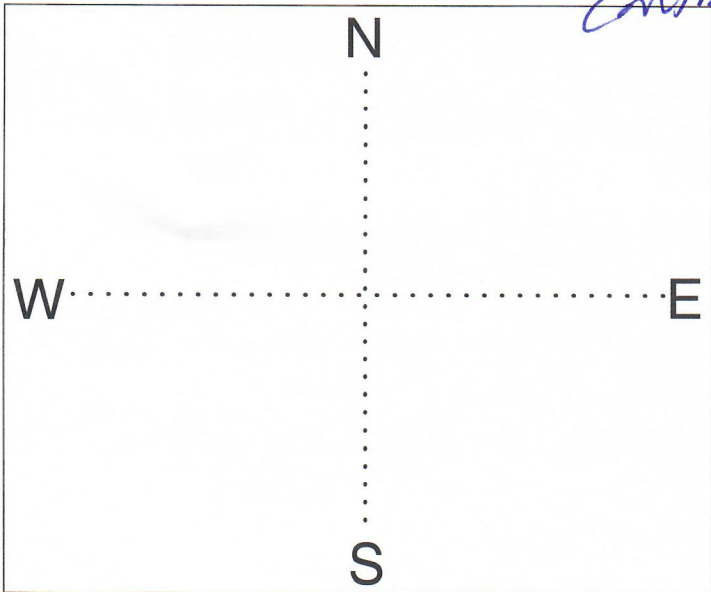
Seed Corn  Corn  Soybeans  Wheat  Green Beans  Hay  
 Date Aug 6 2021  
 Field Name/Number 4R3 Grower MSU Growth Stage R3/R3+  
 General Appearance good Size 20-24" Variance good Leaf Color good Variance good  
 Plant Population good Soil Moisture 0-12 55/60 12-24 55/60 24+ \_\_\_\_\_ %AWC

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: Color/growth good  
 None Required  
 Watch  
 Yes, see comments

Comments:  
In Row weeds  
 Fox tail - most common  
 Ragweed - general  
 nut sedge - low  
 Velvet leaf - low  
 Scattered Dogbone  
  
Between Row 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"/> Maretail 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 good  
 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 checked="" type="checkbox"/> Root Damage	<input type="checkbox"/> Plants
<input type="checkbox"/> Armyworms AW	<input checked="" 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 checked="" 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 checked="" type="checkbox"/> Leafhoppers LH	<input type="checkbox"/> Stunted plants		



# BioEnt - Early Season Survey

*Irrigation study*  
 Gary Manley 269-273-7070 or 269-816-1080

Seed Corn  Corn  Soybeans  Wheat  Green Beans  Hay

Date Aug 6 2021

Field Name/Number Irrigated Grower MSU Growth Stage R4/R5

General Appearance \_\_\_\_\_ Size 3 Variance good Leaf Color good Variance good

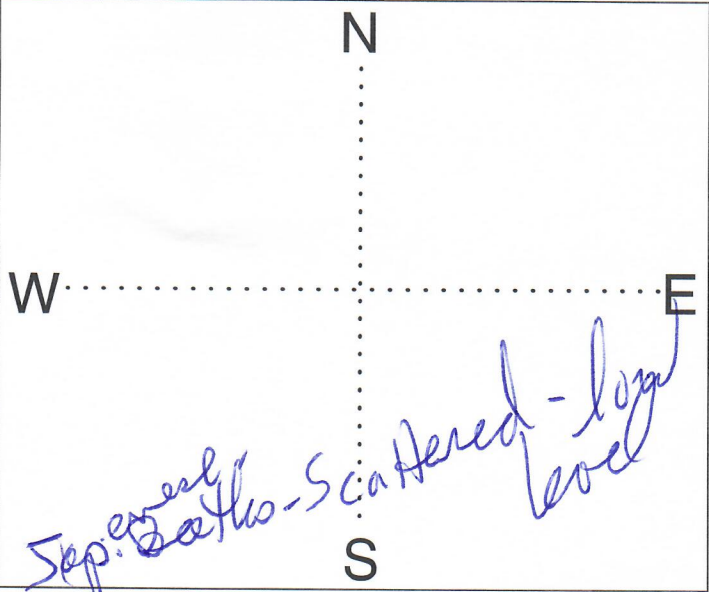
Plant Population \_\_\_\_\_ Soil Moisture 0-12 62/65 12-24 65/70 24+ \_\_\_\_\_ %AWC

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:  
*good growth/color*  
*time for 1/2" irrigation*

- |  |  |
|--|--|
| <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"/> Maretail 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 good  
 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

*ok*

<input checked="" 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

*Irrigation Study*  
 Gary Manley 269-273-7070 or 269-816-1080

Seed Corn  Corn  Soybeans  Wheat  Green Beans  Hay  
 Date Aug 6 2021  
 Field Name/Number Non-Irrigated Grower MSU Growth Stage R3/R4  
 General Appearance good Size 30" Variance good Leaf Color good Variance good  
 Plant Population \_\_\_\_\_ Soil Moisture 0-12 55/60 12-24 55/60 24+ \_\_\_\_\_ %AWC \_\_\_\_\_

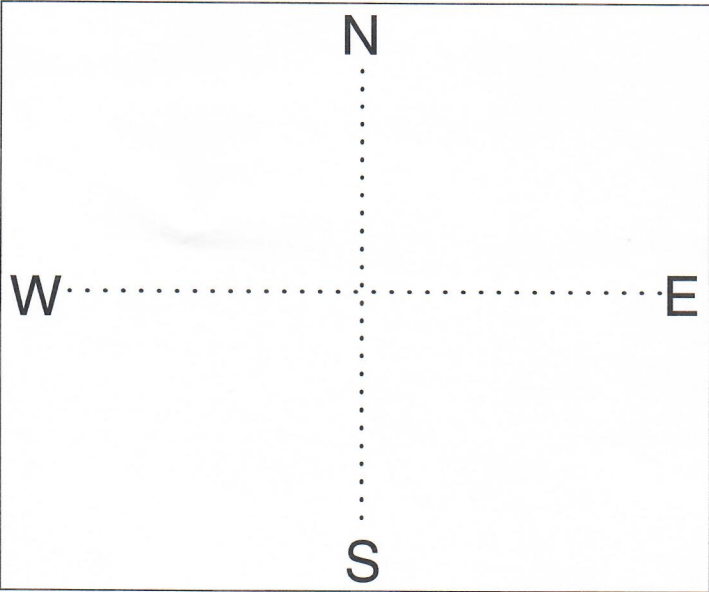
Vigor:  Good  OK  Poor  General  Spotty  
 Stress:  Heat  Moisture  Nitrogen  General  Spotty  
 Stress-Chlorophyll:  None  Low  High  General  Spotty  
 Weed Control:  Good  OK  Poor  Spotty  Dense Spots  
 Grasses  Broadleaves  Perennials

ACTION:  
 None Required  
 Watch  
 Yes, see comments

Comments:

*low level of size variance & color variance. overall looks good!*

- |  |  |
|--|--|
| <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"/> Maretail 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 good  
 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-Fungus  
 Wireworms WW  Slugs S  Corn Borer-%  
 Spider Mites SM  Leafhoppers LH  Stunted plants

Root Damage  Plants  
 Insects  Purplish  
 Diseases  Yellowish  
 Nematodes  Stunting



# BioEnt – Early Season Survey

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

8

Seed Corn  Corn  Soybeans  Wheat  Green Beans  Hay *Switchgrass*  
 Date *8/6/2021*  
 Field Name/Number *T6RFB* Grower *msu* Growth Stage *late flower/seed*  
 General Appearance *good* Size *3-4'* Variance *good* Leaf Color *good* Variance *good*  
 Plant Population \_\_\_\_\_ Soil Moisture 0-12 *60* 12-24 *60* 24+ \_\_\_\_\_ %AWC

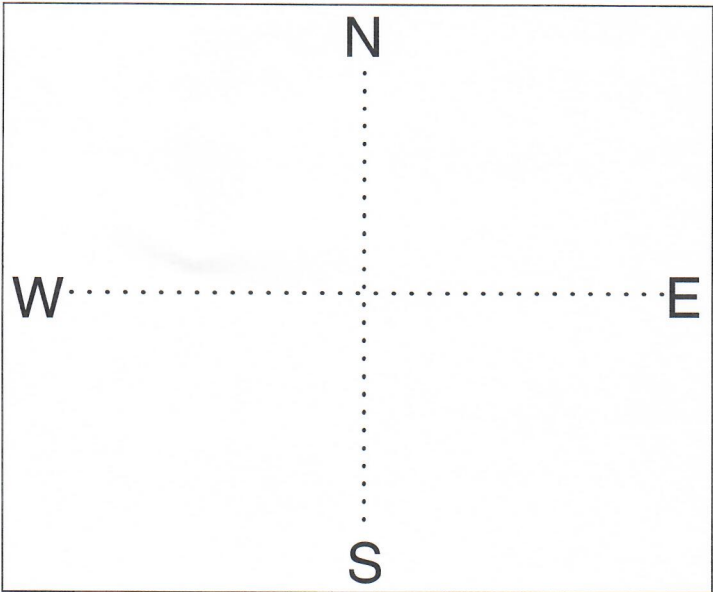
Vigor:  Good  OK  Poor  General  Spotty  
 Stress:  Heat  Moisture  Nitrogen  General  Spotty  
 Stress-Chlorophyll:  None  Low  High  General  Spotty  
 Weed Control:  Good  OK  Poor  Spotty  Dense Spots  
 Grasses  Broadleaves  Perennials

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

Comments:

*manetail common general  
flower stage*

- |   |  |
|---|--|
| <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 checked="" type="checkbox"/> Maretail 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 *good*  
 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  |