

BioEnt – Early Season Survey

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

Seed Corn Corn Soybeans Wheat Green Beans Hay

Date 8/11/2023

Field Name/Number Q1R5 Grower MSU Growth Stage dent

General Appearance OK Size 681 Variance 24 Leaf Color good Variance good

Plant Population _____ Soil Moisture 0-12 55 12-24 60 24+ _____ %AWC

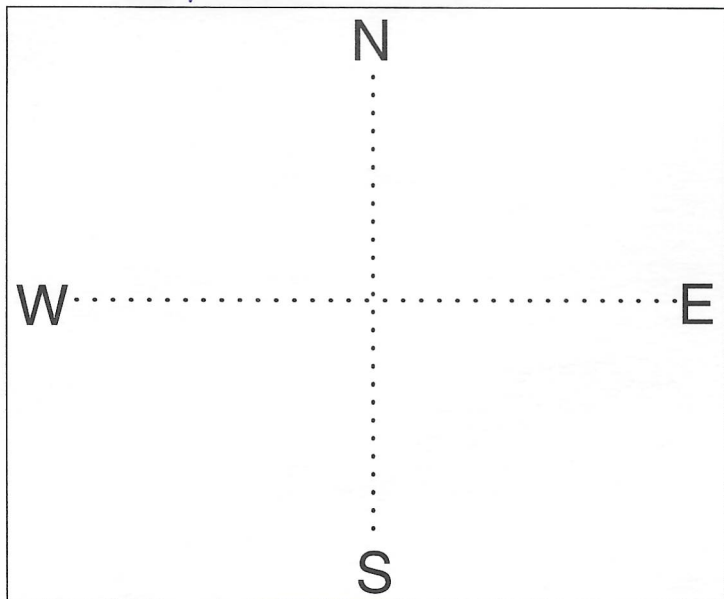
Vigor: Good OK Poor General Spotty
 Stress: Heat Moisture Nitrogen General Spotty
 Stress-Chlorophyll: None Low High General Spotty
 Weed Control: Good OK Poor Spotty Dense Spots
 Grasses Broadleaves Perennials

ACTION:
 None Required
 Watch
 Yes, see comments

Comments:

effects of season long dry weather yet to be determined.

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



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|--|---|--|-----------------------------------|
| <input type="checkbox"/> Germination | <input type="checkbox"/> No | <input type="checkbox"/> 1/4" Root | <input type="checkbox"/> Spike PE |
| <input type="checkbox"/> Emergence | <input type="checkbox"/> Breaking | <input type="checkbox"/> VC / V1 | |
| <input type="checkbox"/> Nutrient Deficiency | <input type="checkbox"/> Spots | <input type="checkbox"/> General | _____ |
| <input type="checkbox"/> Soil Compaction: | <input type="checkbox"/> Soil Surface: | | |
| <input type="checkbox"/> Spots | <input type="checkbox"/> General | <input type="checkbox"/> Hard | <input type="checkbox"/> Crusted |
| <input type="checkbox"/> Standing Water | <input type="checkbox"/> Small Spots | <input type="checkbox"/> Large Spots | |
| <input type="checkbox"/> Herbicide damage | <input type="checkbox"/> Emergence stress | | |
| <input type="checkbox"/> Physiological Disorder in Corn | <input type="checkbox"/> Yellowish whorl | | |
| <input type="checkbox"/> Buggywip | <input type="checkbox"/> Stalk bending | <input type="checkbox"/> Twisted whorl | |
| <input type="checkbox"/> Doubles _____ % 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" | | | |

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|--|--|--|---|------------------------------------|
| <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 checked="" 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 checked="" type="checkbox"/> Nematodes | <input type="checkbox"/> Stunting |
| <input type="checkbox"/> Spider Mites SM | <input type="checkbox"/> Leafhoppers LH | <input type="checkbox"/> Stunted plants | | |
- OK* *low to moderate lower leaves* *OK*

BioEnt – Early Season Survey

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

Seed Corn Corn Soybeans Wheat Green Beans Hay

Date 8/31 2023

Field Name/Number G2R1 Grower MSU Growth Stage R4

General Appearance _____ Size 14464 Variance _____ Leaf Color OK Variance OK

Plant Population _____ Soil Moisture 0-12 55 12-24 60 24+ _____ %AWC

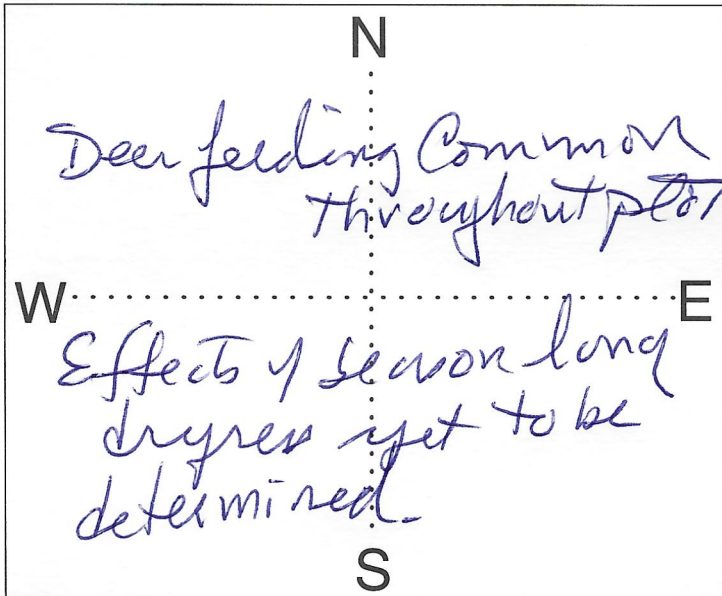
Vigor: Good OK Poor General Spotty
 Stress: Heat Moisture Nitrogen General Spotty
 Stress-Chlorophyll: None Low High General Spotty
 Weed Control: Good OK Poor Spotty Dense Spots
 Grasses Broadleaves Perennials

ACTION:
 None Required
 Watch
 Yes, see comments

Comments:

Yes this was G2R1, not G2R5.
 We sprayed G2R5 with Roundup and the REI was not up/over by the time we were scouting the GLBRC plots.

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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 |



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|---|---|--|-----------------------------------|
| <input type="checkbox"/> Germination | <input type="checkbox"/> No | <input type="checkbox"/> 1/4" Root | <input type="checkbox"/> Spike PE |
| <input type="checkbox"/> Emergence | <input type="checkbox"/> Breaking | <input type="checkbox"/> VC / V1 | |
| <input type="checkbox"/> Nutrient Deficiency | <input type="checkbox"/> Spots | <input type="checkbox"/> General | |
| <input type="checkbox"/> Soil Compaction: | <input type="checkbox"/> Soil Surface: | | |
| <input type="checkbox"/> Spots | <input type="checkbox"/> General | <input type="checkbox"/> Hard | <input type="checkbox"/> Crusted |
| <input type="checkbox"/> Standing Water | <input type="checkbox"/> Small Spots | <input type="checkbox"/> Large Spots | |
| <input type="checkbox"/> Herbicide damage | <input type="checkbox"/> Emergence stress | | |
| <input type="checkbox"/> Physiological Disorder in Corn | <input type="checkbox"/> Yellowish whorl | | |
| <input type="checkbox"/> Buggywip | <input type="checkbox"/> Stalk bending | <input type="checkbox"/> Twisted whorl | |
| <input type="checkbox"/> Doubles _____ % 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" | | |

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|--|--|---|
| <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 type="checkbox"/> Root Damage | <input type="checkbox"/> Plants |
| <input type="checkbox"/> Insects <u>OK</u> | <input type="checkbox"/> Purplish |
| <input type="checkbox"/> Diseases <u>OK</u> | <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 8/31/2023

Field Name/Number G325 Grower MSK Growth Stage J

General Appearance OK Size 84 Variance OK Leaf Color Pale Color Variance OK

Plant Population _____ Soil Moisture 0-12 50 12-24 55 24+ _____ %AWC _____

Vigor: <input type="checkbox"/> Good <input checked="" type="checkbox"/> OK <input type="checkbox"/> Poor	<input type="checkbox"/> General <input type="checkbox"/> Spotty	ACTION: <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 type="checkbox"/> None <input checked="" type="checkbox"/> Low <input type="checkbox"/> High	<input checked="" 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:

Seed heads starting to appear.

dry condition are causing some lower yellowing of leaves

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|--|--|
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| <input type="checkbox"/> Wirestem Muhly WM | <input type="checkbox"/> Smartweed -Penn. PSM |
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| <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 |
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| <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 |

effects of season long dry conditions on yield yet to be determined.

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foliar disease general at moderate/low level

<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>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	<input checked="" type="checkbox"/> Foliar Disease-Fungi <i>general</i>	<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		