

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 G124 Grower MSU Growth Stage late pollination

General Appearance good Size ok 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:
 None Required
 Watch
 Yes, see comments

Comments:

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

N
 early season dry weather
 has made plants shorter
 W... Dry... weather effects... E
 on yield yet to be
 determined.
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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>good</u> | Variance <u>good</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 |
| <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 |

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|--------------------------------------|------------------------------------|
| <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 8/11, 2023

Field Name/Number S2R4 Grower MSU Growth Stage early development

General Appearance poor Size 12/3 Variance high Leaf Color ok Variance ok

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

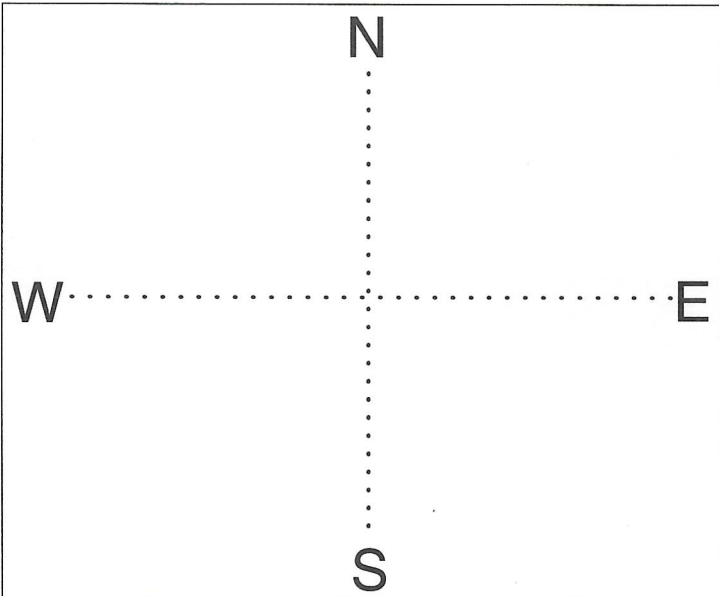
Vigor: Good OK Poor General Spotty
 Stress: Heat Moisture Nitrogen General Spotty
 Stress-Chlorophyll: None Low High General Spotty
 Weed Control: Good OK Poor Spotty Dense Spots
 Grasses Broadleaves Perennials

ACTION:
 None Required
 Watch
 Yes, see comments

Comments:

Few scattered plants in Plot. Heavy wild life feeling. Most of the plants no longer present

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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>good</u> Variance <u>good</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 checked="" 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 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 |

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Seed Corn Corn Soybeans Wheat Green Beans Hay

Date 8/11/2023

Field Name/Number G3R4 Grower ZNSU Growth Stage veg. growth

General Appearance ok Size 3-4' Variance high Leaf Color good Variance good

Plant Population ok 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:

Dry weather effects on tonnage yet to be determined.

- Annual Grasses AG
- Foxtail F *scattered*
- Panicum -Fall FP
- Quack grass QG
- Wirestem Muhly WM
- Marestalk MT
- Crabgrass CG
- Johnsongrass JG
- Shattercane SCA
- Nutsedge NS
- Winter Annuals WA
- Chickweed CW
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- Cover Crop CC
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- Cocklebur CBUR
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- 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

Early Season dry weather is effecting growth and development
 W.....E
 Plants shorter than normal
 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 _____
- Growth ok Variance high
- 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