

BioEnt - Early Season Survey Gary Manley 269-273-7070 or 269-816-1080

Seed Corn Corn Soybeans Wheat Green Beans

Date 6/18/2021

Field Name/Number G1 R145 Grower MSU

Growth Stage V5/6

General Appearance good Size V5/6 Variance good Leaf Color good Variance good

Plant Population _____ Soil Moisture 0-12 70 +12-24 75 +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

Color/growth normal

Comments:

G1 R1

STOVER 29 26 21 29
28,250 ACRE

non stover 31 32 32 32 33
32,000 ACRE

G1 R5

STOVER 32 31 24 27 28
28,500 ACRE

NON STOVER
31 32 30 33 32 35
32,100 ACRE

Appears to be no starter problems in these Reps.
 Uniform in size

- | | |
|---|--|
| <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 checked="" 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"/> Perennials P |
| <input type="checkbox"/> Milkweed CM | <input type="checkbox"/> Pokeweed PW |

- | | | | |
|---|---|--|-----------------------------------|
| <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 _____ % | | | |
| <input type="checkbox"/> Density <u>good</u> | Variance _____ | | |
| <input type="checkbox"/> Growth <u>good</u> | Variance _____ | | |
| <input type="checkbox"/> Plant spacing <u>good</u> | 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 |

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

Date 6/18/2021

Field Name/Number G1 Rows 2,3,4 Grower MSU

Growth Stage 05/6

General Appearance good Size 05/6 Variance OK Leaf Color good Variance good

Plant Population _____ Soil Moisture 0-12 70+ 12-24 75T 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

Size Variance by Rows -

Comments:

G1R2 stored 33 31 33 31

32,000 ACRES

non stored 33 31 32 32 31 32

31,833 ACRES

G1R3 stored

33 27 30 32

non stored

30,500 ACRES

~~33 30~~ 30 32 31 30 30 32

30,833 ACRES

G1R4 stored 24 26 28 32

27,500 ACRES

non stored

33 30 30 33 30 32

31,333 ACRES

W E

Appears to starter problem with some rows - smaller plants - reduced starter

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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"/> 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"/> Perennials P |
| <input type="checkbox"/> Milkweed CM | <input type="checkbox"/> Pokeweed PW |

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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 _____ % | | | |
| <input type="checkbox"/> Density <u>OK</u> | Variance <u>OK</u> | | |
| <input checked="" type="checkbox"/> Growth <u>mixed</u> | Variance <u>mixed</u> | | |
| <input type="checkbox"/> Plant spacing <u>OK</u> | Variance <u>OK</u> | | |
| <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 checked="" 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 |

side dress as corn as DAP: 60 - should see no yield difference

BioEnt - Early Season Survey Gary Manley 269-273-7070 or 269-816-1080

Seed Corn Corn Soybeans Wheat Green Beans Sorghum Date 6/18/2021
 Field Name/Number G2R1 Grower MSU Growth Stage V4/5
 General Appearance good Size 3-4" Variance good Leaf Color good Variance good
 Plant Population Below Soil Moisture 0-12 70+ 12-24 7.5 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

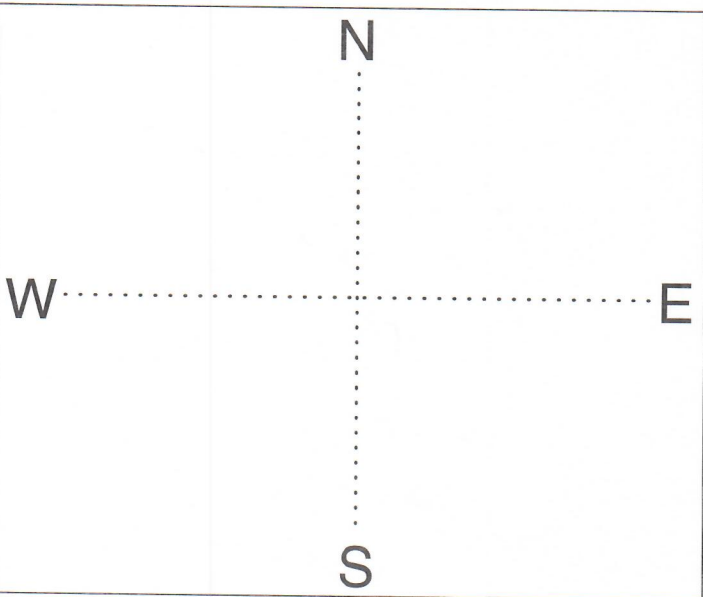
ACTION:
 None Required good
 Watch
 Yes, see comments

Comments:

29 34 38 32 23 25
 30
60,333 ACRE

mareetail common
 in plots - general
 & spotty

- | | |
|--|--|
| <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"/> Perennials P |
| <input type="checkbox"/> Milkweed CM | <input type="checkbox"/> Pokeweed PW |



- 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 _____
 Density good Variance good
 Growth good Variance good
 Plant spacing good Variance good
 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 |
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| <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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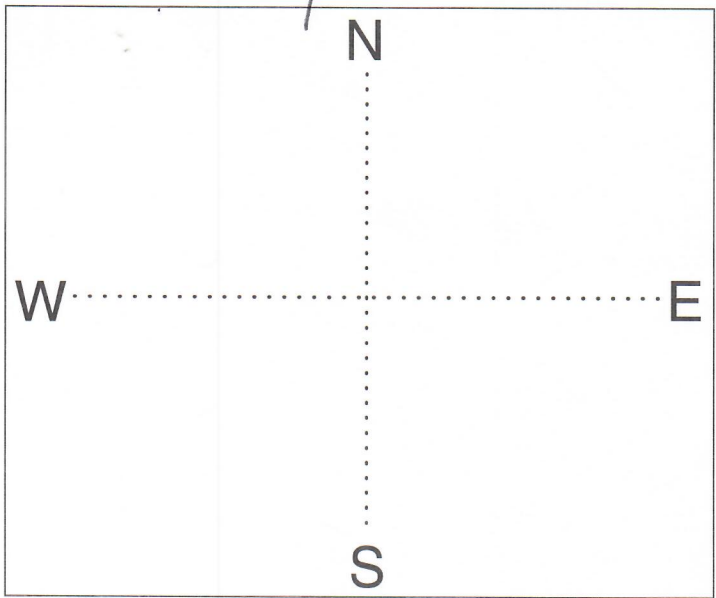
Seed Corn Corn Soybeans Wheat Green Beans Sorghum Date 6/18/2021
 Field Name/Number G3R1 Grower WSU Growth Stage V4/5
 General Appearance good Size 3-4" Variance good Leaf Color good Variance good
 Plant Population _____ Soil Moisture 0-12 70 12-24 75 24+ _____ %AWC _____

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 good
 Watch
 Yes, see comments

Comments:
G3R1 - good weed control
25 22 29 33 30 36 39, 166
58 737 AERT 29, 166
~~G2R1 - manure all common in spots~~
~~29 34 38 32 23 25 30, 166~~
~~60, 735 AERT~~
See other sheet for G2

- | | |
|--|--|
| <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 |
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| <input type="checkbox"/> Velvetleaf VL | <input type="checkbox"/> Yellow Rocket YR |
| <input type="checkbox"/> Cocklebur CBUR | <input type="checkbox"/> Perennials P |
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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 _____ %
 Density good Variance OK
 Growth good Variance OK
 Plant spacing good Variance OK
 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 |
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| <input type="checkbox"/> Wireworms WW | <input type="checkbox"/> Slugs S | <input type="checkbox"/> Corn Borer-% _____ |
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- | | |
|--|------------------------------------|
| <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 |