

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

Seed Corn Corn Soybeans Wheat _____ Grower MSU Date 7/31/2014
 Field Name/Number GIR1 Growth Stage _____
 General Appearance OK Size 8' Variance OK Leaf Color OK Variance OK
 Plant Population OK Soil Moisture 0-12 55/60 12+ 55 %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:

Late pollination
 Color/growth good.
 Some yellowing bottom
 leaves due to Nitrogen

- | | |
|--|--|
| <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"/> Field Sandbur FS | <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 |

lost N
 most bottom 3-4 leaves
 W Corn Rootworm adults E
 1.0/plant Range
 minor silk damage
 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 _____ %
 Density _____ Variance _____
 Growth OK Variance OK
 Plant spacing _____ Variance _____
 Emergence _____ Variance _____
 Soil Temperature _____ 2"

- | | | |
|---------------------------------------|---------------------------------------|--|
| <input type="checkbox"/> Cutworms | <input type="checkbox"/> White Grubs | <input type="checkbox"/> Seed Corn Maggots |
| <input type="checkbox"/> Armyworms | <input type="checkbox"/> Flea Beetles | <input checked="" type="checkbox"/> Foliar Disease-Rust |
| <input type="checkbox"/> Stalkborers | <input type="checkbox"/> Aphids | <input checked="" type="checkbox"/> Foliar Disease-Fungi |
| <input type="checkbox"/> Wireworms | <input type="checkbox"/> Slugs | <input type="checkbox"/> Corn Borer-% _____ |
| <input type="checkbox"/> Spider mites | <input type="checkbox"/> Leafhoppers | <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 |

BioEnt - Early Season Survey

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

Seed Corn Corn Soybeans Wheat _____
 Field Name/Number 9221 Growth Stage _____
 General Appearance good Size OK Variance OK Leaf Color good Variance OK
 Plant Population OK Soil Moisture 0-12 95/60 12+ 55 %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:
mid-pollination

Minor lower leaf yellowing
mostly without

- | | |
|--|--|
| <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"/> Field Sandbur FS | <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 |

yellowing Non lower leaves

No Corn Worm Adults
 W E
 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 _____ %
 Density _____ Variance _____
 Growth OK Variance OK
 Plant spacing _____ Variance _____
 Emergence _____ Variance _____
 Soil Temperature _____ 2"

Cutworms White Grubs Seed Corn Maggots
 Armyworms Flea Beetles Foliar Disease-Rust
 Stalkborers Aphids Foliar Disease-Fungi
 Wireworms Slugs Corn Borer-% _____
 Spider mites Leafhoppers Stunted plants

Root Damage Plants
 Insects Purplish
 Diseases Yellowish
 Nematodes Stunting

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

Seed Corn Corn Soybeans Wheat _____ Grower msc Date 9/13/2014
 Field Name/Number G321 Growth Stage _____
 General Appearance ok Size good Variance ok Leaf Color good Variance ok
 Plant Population ok Soil Moisture 0-12 55/60 12+ 55 %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:
 midc pollination
 Corn/growth good.
 some lower leaf yellowing
 due to Nitrogen

- | | |
|--|--|
| <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"/> Field Sandbur FS | <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 |

Bottom 1-2 Leaves -
 nitrogen effect.

W E
 No Corn Root Worm
 adults

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 _____ %
 Density _____ Variance _____
 Growth ok Variance ok
 Plant spacing _____ Variance _____
 Emergence _____ Variance _____
 Soil Temperature _____ 2"

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<input type="checkbox"/> Stalkborers	<input type="checkbox"/> Aphids	<input checked="" type="checkbox"/> Foliar Disease-Fungi
<input type="checkbox"/> Wireworms	<input type="checkbox"/> Slugs	<input type="checkbox"/> Corn Borer-% _____
<input type="checkbox"/> Spider mites	<input type="checkbox"/> Leafhoppers	<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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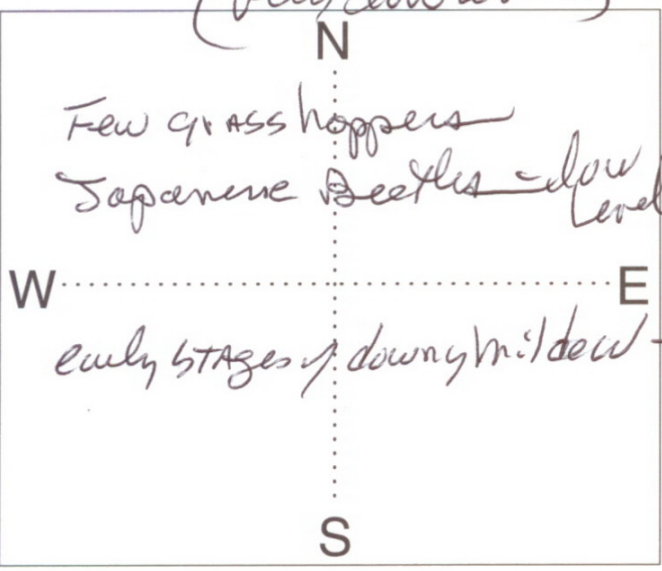
Seed Corn Corn Soybeans Wheat _____
 Field Name/Number 64R1 Growth Stage _____
 General Appearance good Size OK Variance OK Leaf Color OK Variance OK
 Plant Population OK Soil Moisture 0-12 55/60 12+ 55 %AWC

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:
 20-24" Range
 Color/growth good
 Flower/pod set
 Few scattered Aphids
 (very low levels)

- | | |
|--|--|
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| <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 |
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<input type="checkbox"/> Stalkborers	<input type="checkbox"/> Aphids	<input type="checkbox"/> Foliar Disease-Fungi
<input type="checkbox"/> Wireworms	<input type="checkbox"/> Slugs	<input type="checkbox"/> Corn Borer-% _____
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<input type="checkbox"/> Diseases	<input type="checkbox"/> Yellowish
<input type="checkbox"/> Nematodes	<input type="checkbox"/> Stunting