

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 TIR6 Growth Stage _____
 General Appearance OK Size normal Variance OK Leaf Color OK Variance OK
 Plant Population OK Soil Moisture 0-12 55 12+ 50 %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:

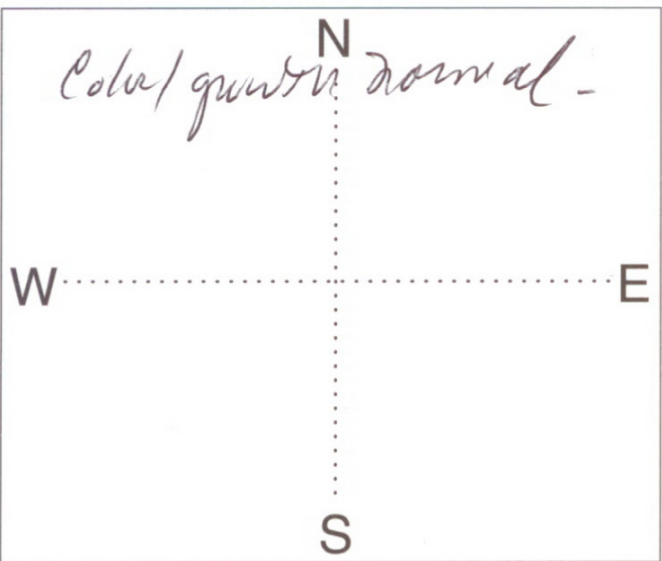
None Required
 Watch
 Yes, see comments

Comments:

*Late pollination
early blight*

*yellowing of bottom leaves
upto leaf 5/6 in
spot - yellowing general
(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 |



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 checked="" type="checkbox"/> Seed Corn Maggots
<input type="checkbox"/> Armyworms	<input type="checkbox"/> Flea Beetles	<input 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 _____ Grower MSU Date 7/31/2014
 Field Name/Number T2RL6 Growth Stage _____
 General Appearance OK Size Normal Variance OK Leaf Color OK Variance OK
 Plant Population OK Soil Moisture 0-12 60 12+ 55/60 %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

yellowing on bottom leaves
3-4 in general - spotty
(Range from 0 - 4)

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

Some with ^N leaf yellowing
 to leaf 5-6

 W ^A Corn Rootworm adults ^E
< 0.01/plant

 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 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*

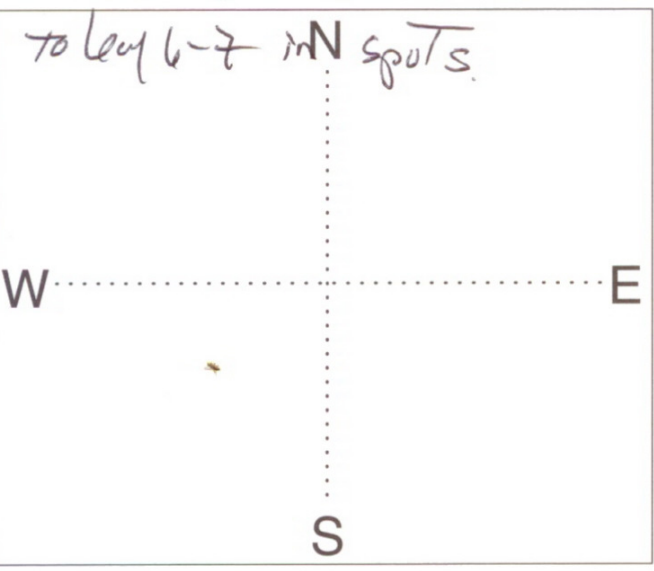
Seed Corn Corn Soybeans Wheat _____ Grower MSU Date 7/31/2014
 Field Name/Number T3R6 Growth Stage _____
 General Appearance light yellow Size 6-8' Variance high Leaf Color mixed Variance high
 Plant Population OK Soil Moisture 0-12 55-60 12+ 55 %AWC _____

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:
 Pollination
 Size Range from 6-8'
 Plants yellowish,
 Color & size variance high.
 Bottom leaf yellowing due
 to Nitrogen general.

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



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 high
 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 MSU Date 7/31/2014
 Field Name/Number T4 R6 Growth Stage _____
 General Appearance Mixed Size Mixed Variance 2-7' Leaf Color Mixed Variance high
 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:

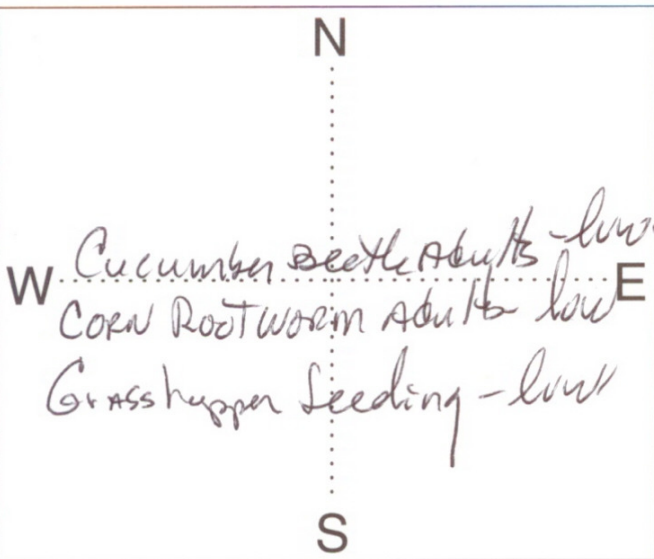
None Required
 Watch
 Yes, see comments

Comments:

Parts of field starting to
 Tassel
 Size Variance - 2-7'
 Color Variance high
 Stand is still open in spots
 allowing weed development

- | | |
|---|--|
| <input checked="" 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 checked="" type="checkbox"/> Lambsquarter LQU |
| <input type="checkbox"/> Shattercane SCA | <input checked="" 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 checked="" type="checkbox"/> Velvetleaf VL Small | <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: |
| ○ 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 _____% | |
| <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 | <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 _____ Grower MSUC Date 7/31/2014
 Field Name/Number To 26 Alfalfa Growth Stage _____
 General Appearance ok Size _____ Variance moderate Leaf Color ok Variance low
 Plant Population ok Soil Moisture 0-12 55/60 12+ 55/60 %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

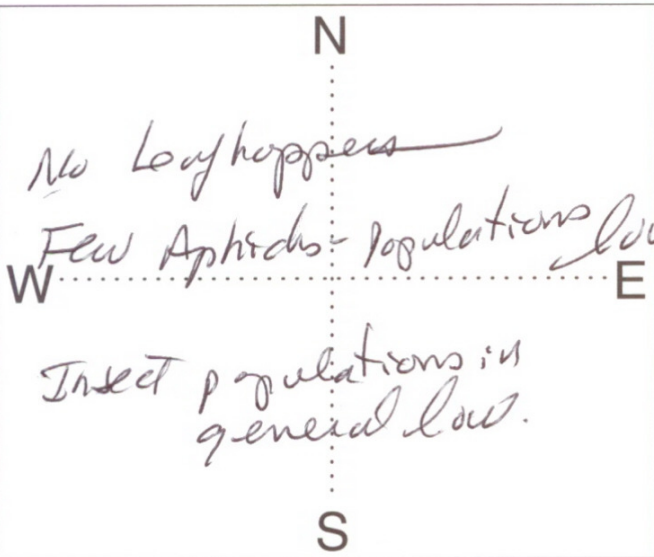
ACTION:

None Required *Time for harvest*
 Watch
 Yes, see comments

Comments:

Regrowth 15-20" range
First flower

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



- | | |
|--|--|
| <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 _____% | |
| <input type="checkbox"/> Density _____ | Variance _____ |
| <input type="checkbox"/> Growth <u>ok</u> | Variance <u>low</u> |
| <input type="checkbox"/> Plant spacing _____ | Variance _____ |
| <input type="checkbox"/> Emergence _____ | Variance _____ |
| <input type="checkbox"/> 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 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 Not Study Irrigated Grower M64 Date 7/31/2014
 General Appearance ok Size ok Variance ok Leaf Color green Variance ok
 Plant Population ok Soil Moisture 0-12 80 12-24 80+ %AWC _____

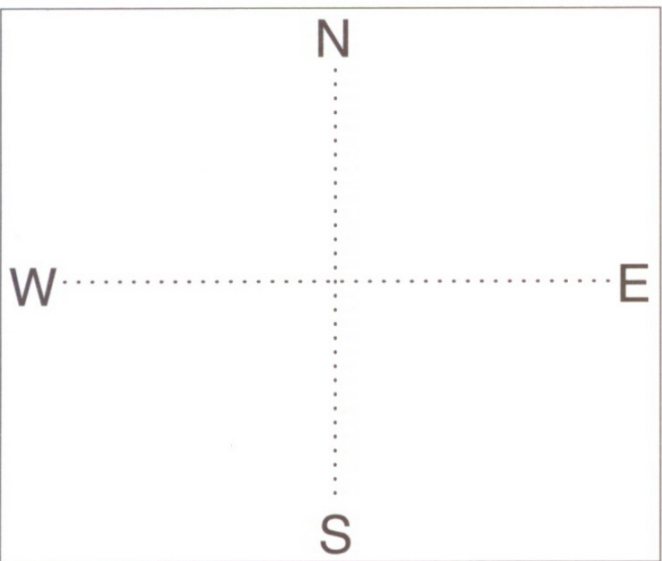
Vigor: Good OK Poor General Spotty
 Stress: Heat Moisture Nitrogen General Spotty
 Stress-Chlorophyll: None Low High General Spotty
 Weed Control: Good OK Poor Spotty Dense Spots
 Grasses Broadleaves Perennials

ACTION: 24-26 80/85
 None Required
 Watch
 Yes, see comments

Comments:

Pollination Current
 Color growth 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"/> 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 |
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| <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 _____ 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 type="checkbox"/> Foliar Disease-Rust |
| <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-% _____ |
| <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

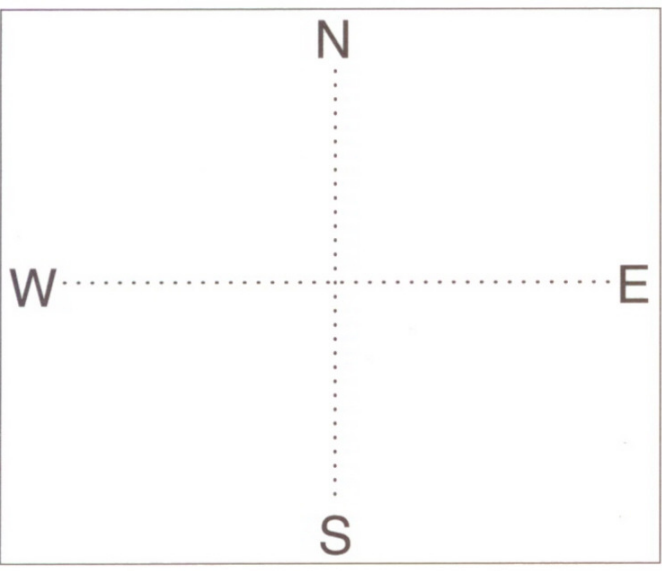
Seed Corn Corn Soybeans Wheat _____ Grower MSU Date 9/31/2014
 Field Name/Number Nz Study non-irrigated Growth Stage _____
 General Appearance OK Size OK Variance OK Leaf Color 900 Variance OK
 Plant Population OK Soil Moisture 0-12 60 12+ 60 %AWC _____

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:
*Pollination current
 color growth normal.*

- | | |
|--|--|
| <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 |
| <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 _____ 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 type="checkbox"/> Foliar Disease-Rust |
| <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-% _____ |
| <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 |

BEAN INSECT AND DISEASE REPORT

Date 7/31/2014
 Grower MSU
 Field(s) organic - Bio diversity study
 Crop Stage FLOWER Plant Height _____
 Soil Moisture 0-6" _____ 6-12"+ _____ %AWC _____



ACTION

None Required
 Watch
 Yes, see below

Vigor: Good Ok Poor General Spotty
Stress: Heat Moisture General Spotty
Stress-Chlorophyll: None Low High General Spotty
Weed Control: Good Ok Poor Spotty
 Grasses Broadleaves Perennials

Uniformity Mixed
 General Appearance ok
 Leaf Color ok
 Deficiency _____
 Total Leaf Damage low %
 Round-up Seed Yes No

INSECT SPECIES	LIFE STAGE (ELPA)	EVALUATION	DIST. (S-G)	THRESHOLD	COMMENTS
Worms - misc	larvae	% plts affected			
Japanese Beetle	adults	% leaf damage			
Potato Leafhopper	nymphs	# per leaf			
Spider Mites	nymphs	% plants affected			
Aphids	adults/nymphs	# per plant			ok
Aphids	Alatoid nymphs	% population			
Aphids	Winged adults	% population			
Other	larvae adult				
Other	larvae adult				
Natural Enemies		L M H			

DISEASES	PLT/PART Affected (sampled)	Region AFFECTED (range)	EVALUATION % Plts. Aff.	THRESHOLD	DIST. G/S	COMMENTS
Downy Mildew						
White Mold						
Common Blight						
SDS						
Charcoal Rot						
Other	Spots with short/yellowish plants					
Other	Roots show signs of death in affected regions					

Comments: Problem spots in B16^{and} B19 treatments
 maybe Brown Stem Rot