BioEnt – Early Season Survey

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

☐ Seed Corn ☐ Corn ☒ Soybeans ☐ Wheat ☐ _____ Grower MSA Date 7/16 2015

Field Name/Number TIRS Growth Stage _____

General Appearance OK Size OK Variance OK Leaf Color OK Variance OK

Plant Population OK Soil Moisture 0-12 85/90 12+ 90+ %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

SEE NOTES

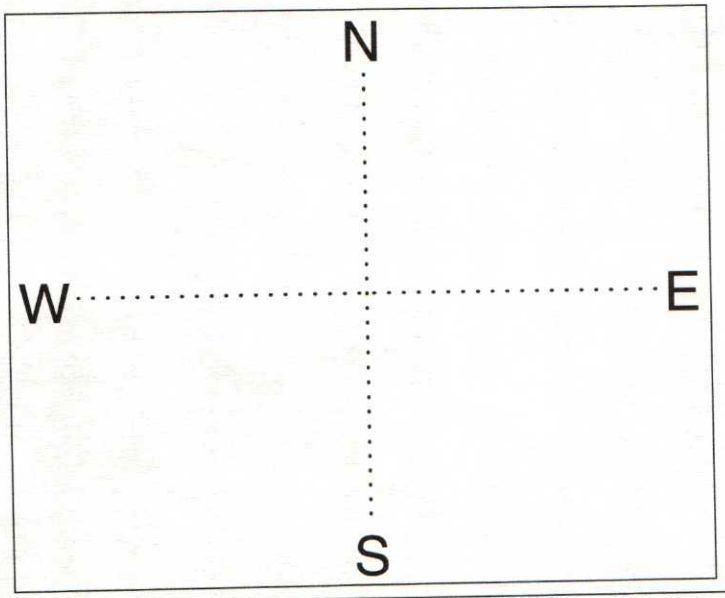
Comments:

15" Range
Flowering.

Annual grasses
VE to 2"
low density but general.

Control WEEDS (grass)

- ☒ Annual Grasses AG
- ☐ Foxtail F
- ☐ Panicum -Fall FP
- ☐ Quack grass QG
- ☐ Wirestem Muhly WM
- ☐ Field Sandbur FS
- ☐ Crabgrass CG
- ☐ Johnsongrass JG
- ☐ Shatercane SCA
- ☐ Nutsedge NS
- ☐ Winter Annuals WA
- ☐ Chickweed CW
- ☐ Biannuals WB
- ☐ Cover Crop CC
- ☐ Velvetleaf VL
- ☐ Cocklebur CBUR
- ☐ Milkweed CM
- ☐ Pigweed RRP
- ☐ Horsenettle HN
- ☐ Bindweed -Field FBW
- ☐ Bindweed -Hedge HBW
- ☐ Smartweed -Penn. PSM
- ☐ 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
- ☐ Perennials P
- ☐ 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"

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

- ☐ Root Damage
  - ☐ Insects
  - ☐ Diseases
  - ☐ Nematodes
- ☐ Plants
  - ☐ Purplish
  - ☐ Yellowish
  - ☐ Stunting

Rev 05-28-14

BioEnt – Early Season Survey

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

☐ Seed Corn ☐ Corn ☒ Soybeans ☐ Wheat ☐ _____ Grower MSU Date 7/16/2015

Field Name/Number T225 Growth Stage _____

General Appearance OK Size OK Variance OK Leaf Color OK Variance OK

Plant Population OK Soil Moisture 0-12 85 90 12+ 90+ %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

SEE NOTES

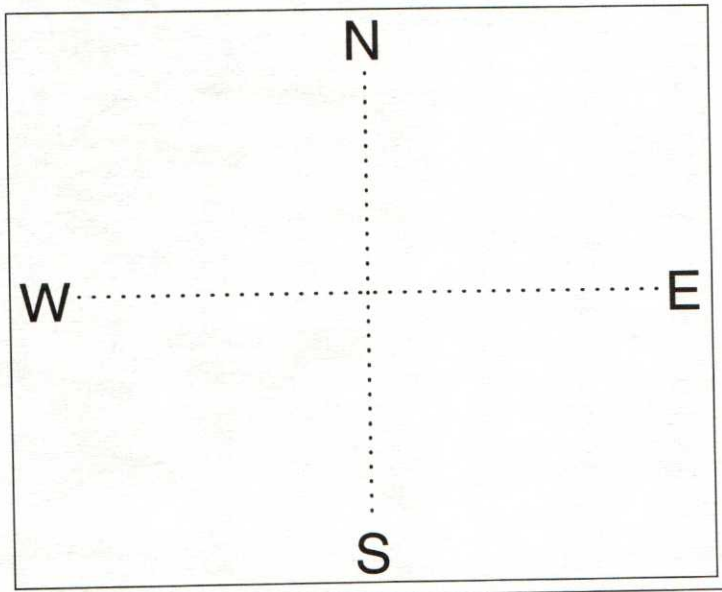
Comments:

13" Range Flowering.

low density scattered Annual grasses

Control grasses as time permits.

- ☒ Annual Grasses AG
- ☐ Foxtail F
- ☐ Panicum -Fall FP
- ☐ Quack grass QG
- ☐ Wirestem Muhly WM
- ☐ Field Sandbur FS
- ☐ Crabgrass CG
- ☐ Johnsongrass JG
- ☐ Shatercane SCA
- ☐ Nutsedge NS
- ☐ Winter Annuals WA
- ☐ Chickweed CW
- ☐ Biannuals WB
- ☐ Cover Crop CC
- ☐ Velvetleaf VL
- ☐ Cocklebur CBUR
- ☐ Milkweed CM
- ☐ Pigweed RRP
- ☐ Horsenettle HN
- ☐ Bindweed -Field FBW
- ☐ Bindweed -Hedge HBW
- ☐ Smartweed -Penn. PSM
- ☐ 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
- ☐ Perennials P
- ☐ 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"

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

- ☐ Root Damage
  - ☐ Insects
  - ☐ Diseases
  - ☐ Nematodes
- ☐ Plants
  - ☐ Purplish
  - ☐ Yellowish
  - ☐ Stunting

Rev 05-28-14

BioEnt – Early Season Survey

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

☐ Seed Corn ☐ Corn ☒ Soybeans ☐ Wheat ☐ _____ Grower MSU Date 7/15/2015

Field Name/Number TBRS Growth Stage _____

General Appearance OK Size OK Variance OK Leaf Color OK Variance OK

Plant Population OK Soil Moisture 0-12 80/85+ 12+ 90+ %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

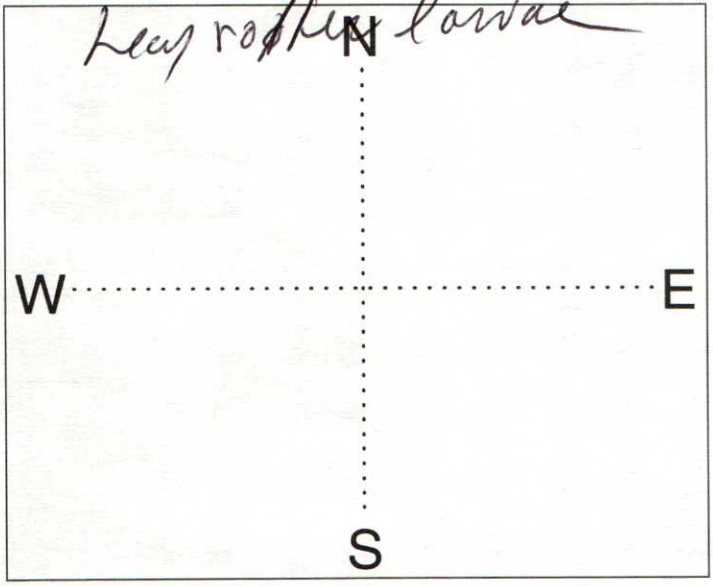
☐ Yes, see comments

Comments:

12" Range - Flowering. Color/growth Normal.

Jap. Beetles. Low level.

Leaf rolling larvae



☐ Annual Grasses AG
☐ Foxtail F
☐ Panicum -Fall FP
☐ Quack grass QG
☐ Wirestem Muhly WM
☐ Field Sandbur FS
☐ Crabgrass CG
☐ Johnsongrass JG
☐ Shatercane SCA
☐ Nutsedge NS
☐ Winter Annuals WA
☐ Chickweed CW
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☐ Cover Crop CC
☐ Velvetleaf VL
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☐ Milkweed CM
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☐ Smartweed -Penn. PSM
☐ Smart -Swamp SSM
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☐ Ragweed CRAG
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☐ Dock -Curly CD
☐ Nightshade -Black BNS
☐ Jimsonweed JW
☐ Canada Thistle CTH
☐ Yellow Rocket YR
☐ Perennials P
☐ 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"

☐ 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

Rev 05-28-14

BioEnt – Early Season Survey

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

☐ Seed Corn ☐ Corn ☒ Soybeans ☐ Wheat ☐ _____ Grower MSG Date 7/16/2015

Field Name/Number 4125 Growth Stage _____

General Appearance OK Size OK Variance OK Leaf Color OK Variance OK

Plant Population OK Soil Moisture 0-12 85/90 12+ 90+ %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:

10-12" Range. V5/6

Scattered grasses, mostly in row.

Few Scattered VL

" " CRAG

early WEED emergence between rows

☒ Annual Grasses AG
☐ Foxtail F
☐ Panicum -Fall FP
☐ Quack grass QG
☐ Wirestem Muhly WM
☐ Field Sandbur FS
☐ Crabgrass CG
☐ Johnsongrass JG
☐ Shatercane SCA
☐ Nutsedge NS
☐ Winter Annuals WA
☐ Chickweed CW
☐ Biannuals WB
☐ Cover Crop CC
☒ Velvetleaf VL
☐ Cocklebur CBUR
☐ Milkweed CM

☐ Pigweed RRP
☐ Horsenettle HN
☐ Bindweed -Field FBW
☐ Bindweed -Hedge HBW
☐ Smartweed -Penn. PSM
☐ 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
☐ Perennials P
☐ Pokeweed PW

N

Soil Conditions Wet

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 _____ Variance _____
☐ 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

Rev 05-28-14

BioEnt – Early Season Survey

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

☐ Seed Corn ☐ Corn ☐ Soybeans ☐ Wheat ☐ _____ Grower MSU Date 7/16/2015

Field Name/Number TORS Alfalfa Growth Stage _____

General Appearance OK Size OK Variance OK Leaf Color OK Variance OK

Plant Population Mixed Soil Moisture 0-12 85/90 12+ 90+ %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:

Regrowth 1ft. Range.

Weeds/grasses general.

Insect Levels low

No pests

☐ Annual Grasses AG
☐ Foxtail F
☐ Panicum -Fall FP
☐ Quack grass QG
☐ Wirestem Muhly WM
☐ Field Sandbur FS
☐ Crabgrass CG
☐ Johnsongrass JG
☐ Shatercane SCA
☐ Nutsedge NS
☐ Winter Annuals WA
☐ Chickweed CW
☐ Biannuals WB
☐ Cover Crop CC
☐ Velvetleaf VL
☐ Cocklebur CBUR
☐ Milkweed CM
☐ Pigweed RRP
☐ Horsenettle HN
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☐ Dock -Curly CD
☐ Nightshade -Black BNS
☐ Jimsonweed JW
☐ Canada Thistle CTH
☐ Yellow Rocket YR
☐ Perennials P
☐ Pokeweed PW

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

☐ Root Damage ☐ Plants
☐ Insects ☐ Purplish
☐ Diseases ☐ Yellowish
☐ Nematodes ☐ Stunting

Rev 05-28-14

BioEnt – Early Season Survey

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

☐ Seed Corn ☐ Corn ☒ Soybeans ☐ Wheat ☐ _____ Grower MSU Date 7/16/2015

Field Name/Number ½ Rate Irrigated Growth Stage _____

General Appearance OK Size OK Variance OK Leaf Color OK Variance OK

Plant Population OK Soil Moisture 0-12 80/85+ 12+ 90+ %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 SEE NOTES

☐ Watch

☐ Yes, see comments

Comments:

12" Range

Flowering.

Annual grasses

Control grasses

☐ Annual Grasses AG
☐ Foxtail F
☐ Panicum -Fall FP
☐ Quack grass QG
☐ Wirestem Muhly WM
☐ Field Sandbur FS
☐ Crabgrass CG
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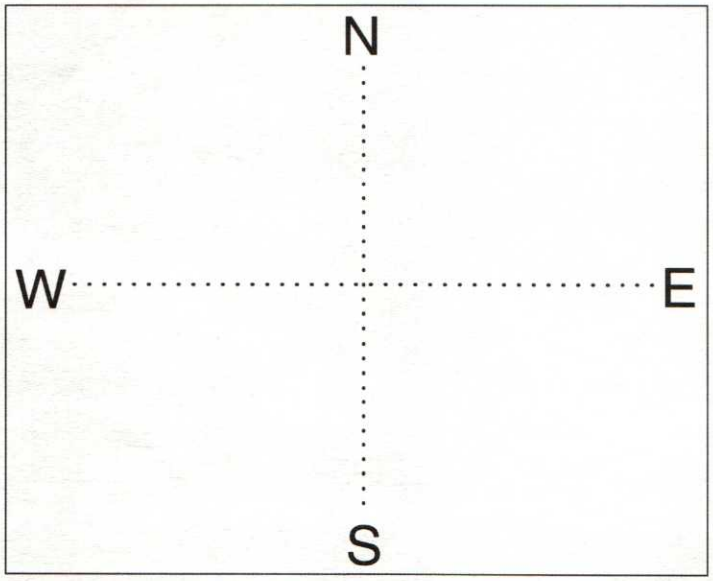

☐ Germination ☐ No ☐ 1/4" Root ☐ Spike PE
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☐ Nutrient Deficiency ☐ Spots ☐ General _____
☐ Soil Compaction: ☐ Soil Surface:
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☐ Doubles _____%
☐ Density _____ Variance _____
☐ Growth OK Variance OK
☐ 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

Rev 05-28-14

BioEnt – Early Season Survey

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

☐ Seed Corn ☐ Corn ☒ Soybeans ☐ Wheat ☐ _____ Grower MSU Date 7/16 2015

Field Name/Number N2 Rate non-Irrigated Growth Stage _____

General Appearance OK Size OK Variance OK Leaf Color OK Variance OK

Plant Population OK Soil Moisture 0-12 80/85+ 12+ 90+ %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 SEE NOTES

☐ Watch

☐ Yes, see comments

Comments:

15" Range
Flowering.

Annual grass
Control grasses

☐ Annual Grasses AG
☐ Foxtail F
☐ Panicum -Fall FP
☐ Quack grass QG
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S

☐ Germination ☐ No ☐ 1/4" Root ☐ Spike PE
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☐ Plant spacing _____ Variance _____
☐ Emergence _____ Variance _____
☐ Soil Temperature _____ 2"

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

☐ Root Damage ☐ Plants
☐ Insects ☐ Purplish
☐ Diseases ☐ Yellowish
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Rev 05-28-14