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

Seed Corn ☑ Corn ☐ Soybeans ☐ Wheat ☐ Grower ☑ MSU Date 6/5/2014
Field Name/Number TIRL
General Appearance ☑ Good Size ☑ OK Variance ☑ ok Leaf Color ☑ ok Variance ☑ Ok
Plant Population 29,733 Soil Moisture 0-12 40
12+ 75 %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: CORN POPULATION
9a 27 29 31 28 29,733 ACRE
4/5 5-7" Range
May 12th 14
Good weed control

Annual Grasses AG ☐
Foxtail F ☐
Panicum -Fall FP ☐
Quack grass QG ☐
Wirestem Muhly WM ☐
Field Sandbur FS ☐
Crabgrass CG ☐
Johnsongrass JG ☐
Shattercane SCA ☐
Nutsedge NS ☐
Winter Annuals WA ☐
Chickweed CW ☐
Biennials 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 ☐
Lambquarters LOU ☐
Ragweed CRAG ☐
Ragweed -Giant GRAG ☐
Dock -Curly CD ☐
Nightshade -Black BNS ☐
Jimsonweed JW ☐
Canada Thistle CTH ☐
Yellow Rocket YR ☐
Perennials P ☐
Pokeweed PW ☐

Germination ☐
Emergence ☐
Nutrient Deficiency ☐
No ☑ 1/4" Root ☑ Spike PE
Soil Compaction: ☐
Standing Water ☐
Herbicide damage ☐
Physiological Disorder in Corn ☐
Soil Surface:
Spots ☐ General ☑ Hard ☑ Crusted
Small Spots ☐ Large Spots ☐
Emergence stress ☐
Buggyspin ☐ Stalk bending ☐ Twisted whorl
Doubles 0% ☑
Density 0K ☑ Variance 0K
Growth 0K ☑ Variance 0K
Plant spacing 0K ☑ Variance 0K
Emergence ☐ Variance ☐
Soil Temperature 2°C

Cutworms ☐
Armyworms ☐
Stalk borers ☐
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 ☐
Purplish ☐
Diseases ☐
Yellowish ☐
Nematodes ☐
Stunting ☐
BioEnt - Early Season Survey

Seed Corn
General Appearance: OK
Size: OK
Variance: OK
Leaf Color: OK
Variance: OK

Plant Population: 75
Soil Moisture: 0-12
12+: 80

Vigor: Good
Stress: OK
Weed Control: Good

 ACTION:
None Required
Watch
Yes, see comments

Comments:
Planted May 10-2014
Plant populations:
30 32 30 29 30 32
30 500 ACP

05/6 10-12' Range

Slug damage on older leaves 41%
Grasshopper feeding 21%

Good weed control

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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
Yellowish
Nematodes
Stunting

Germination
Emergence
Nutrient Deficiency
Soil Compaction:
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
Growth
Variance
Plant spacing
Variance
Emergence
Variance
Soil Temperature
2"
BioEnt – Early Season Survey

Field Name/Number: J3B2
General Appearance: Ok Size: Ok Variance: Ok
Vigor: Good [X] OK [ ] Poor [ ]
Stress: Heat [X] Moisture [X] Nitrogen [ ]
Vigor: General [X] Spotty [ ]
Stress-Chlorophyll: None [X] Low [ ] High [ ]
Vigor: General [X] Spotty [ ]
Weed Control: Good [X] OK [ ] Poor [ ] Spotty [ ] Dense Spots [ ]
Grasses [X] Broadleaves [X] Perennials [ ]

Comments:
Planted 5/24/2014

Vigor: Good [X] Poor [ ]
Size: Ok [X] Variance: Ok [X]
Leaf Color: Ok [X] Variance: Ok [X]
Plant Population: Below [X] Soil Moisture: 0-12

ACTION:
[ ] None Required
[ ] Watch
[ ] Yes, see comments

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

Pigweed RRP
Horsenettle HN
Bindweed-Field FSB
Bindweed-Hedge HBW
Smartweed -Penn. PSM
Smart-Swamp SSM
Dogbane -Hemp HDB
Lambquarters LOU
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 [X] 1/4” Root PE [ ]
Emergence [ ] Breaking [X] VC / V1
Nutrient Deficiency [ ] Spots [ ] General [ ]
Soil Compaction: [ ] Soil Surface:
Spots [X] General [ ] Hard [ ] Crusted [ ]
Standing Water [ ] Small Spots [X] Large Spots [ ]
Herbicide damage [ ] Emergence stress [ ]
Physiological Disorder in Corn [X] Yellowish whorl [X]
Buggypip [ ] Stalk bending [ ] Twisted whorl [ ]
Doubles [ ] %
Density: Ok [X] Variance: Ok [X]
Growth: Ok [X] Variance: Ok [X]
Plant spacing: [ ] Variance: [ ]
Emergence: [ ] Variance: [ ]
Soil Temperature: 2” [ ]

Cutworms [X] White Grubs [X] Seed Corn Maggots [X]
Armyworms [ ] Flea Beetles [ ] Foliar Disease-Rust [X]
Stalkborers [ ] Aphids [X] Foliar Disease-Fungi [X]
Wireworms [ ] Slugs [X] Corn Borer-% [ ]
Spider mites [X] Leafhoppers [ ] Stunted plants [X]
Root Damage [ ] Insects [ ] Plants [X]
Diseases [ ] Purplish [ ]
Yellowish [X] Nematodes [ ] Stunting [ ]
BioEnt – Early Season Survey

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

☐ Seed Corn ☑ Corn ☐ Soybeans ☐ Wheat ☑ Grower MSU ☑ Date: 6/15/2014

Field Name/Number: 742

Growth Stage PE

General Appearance: ☑ Poor ⬇ Size: 70 ⬆ Variance: Leaf Color: 75 ⬇ Variance: 12+ %AWC

Plant Population

Soil Moisture 0-12

ACTION:
☐ None Required
☐ Watch
☐ Yes, see comments

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

Comments:

May 31 planted
(early spike)
(5-10%)

Weed free

conditions good
emergence

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Germination ☐ No ☑ 1/4" Root ☑ Spike PE
Emergence ☑ Breaking ☐ VC V1
Nutrient Deficiency ☑ Spots ☐ General
Soil Compaction:
☐ 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 spacings ☑ Variance
Emergence ☑ Variance
Soil Temperature 2°

Root Damage ☑ Insects ☑ Plants
Diseases ☑ Yellowish
Nematodes ☑ Stunting
BioEnt – Early Season Survey

Seed Corn ☐ Corn ☐ Soybeans ☐ Wheat ☐
Grower: mgn Date: 6/5/2011
Field Name/Number: TCR 76R Growth Stage: 50

General Appearance: Size: Variance: Leaf Color: Variance:
Plant Population: Soil Moisture: 0-12 ☐ OK 12+ ☐ OK ☐ %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:
Cut last 6 days ago
May 30
Looks ok
Moisture levels ok

☐ Annual Grasses AG
☐ Foxtail F
☐ Panicum -Fall FP
☐ Quack grass QQ
☐ Wirestem Muhly WM
☐ Field Sandbur FS
☐ Crabgrass CG
☐ Johnsonsgrass 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 _________ Variance ________
☐ Plant spacing _______ Variance ______
☐ Emergence __________ Variance ______
☐ Soil Temperature ________

☐ 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

Grower: MY Date: 6/15/2014

Field Name/Number: N Rate: Irrigated Growth Stage: G

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

Plant Population: Soil Moisture 0-12: 73 12+: 78 %AWC

Vigor: [X] Good [ ] OK [ ] Poor Stress: [ ] General [ ] Spotty Vigor: [ ] General [ ] Spotty Stress-Chlorophyll: [X] None [ ] Low [ ] High Vigor: [ ] General [ ] Spotty

Weed Control: [X] Good [ ] OK [ ] Poor [ ] Spotty [ ] Dense Spots [ ] Grasses [ ] Broadleaves [ ] Perennials

ACTION:
[ ] None Required [ ] Watch [ ] Yes, see comments

Comments:

Irrigated Plant Population 37 33 37 38 43 37 33 38 27 250 43 Good weed control

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 Buggypip: [ ] Stalk bending: [ ] Twisted whorl

Doubles: [ ] Variance: [ ] % Density: [ ] Variance: [ ] Growth: [ ] Variance: [ ] Plant spacing: [ ] Variance: [ ] Emergence: [ ] Variance: [ ] Soil Temperature: [ ] 2”

Cutworms: [ ] White Grubs: [ ] Seed Corn Maggots: [ ] Root Damage: [ ] Insects: [ ] Plants: [ ] Armyworms: [ ] Flea Beetles: [ ] Foliar Disease-Rust: [ ] Purplish: [ ] Stalkborers: [ ] Aphids: [ ] Foliar Disease-Fungi: [ ] Diseases: [ ] Yellowish: [ ] Wireworms: [ ] Slugs: [ ] Corn Borer-%: [ ] Nematodes: [ ] Spider mites: [ ] Leafhoppers: [ ] Stunted plants: [ ]
BioEnt – Early Season Survey  Gary Manley 269-273-7070 or 269-816-1080

Grower: 7MSU  Date: 6-15-2014

Field Name/Number:  N Rate:  Non-Irrigated  Growth Stage: 1
General Appearance:  OK Size: OK  Variance: OK  Leaf Color: OK  Variance: OK

Plant Population:  [Blank] Soil Moisture: 0-12  [-] 12+ 78 %AWC

Vigor:  [Blank] Good  [-] OK  [-] Poor
Stress:  [Blank] Heat  [-] Moisture  [-] Nitrogen
Stress-Chlorophyll:  [Blank] None  [-] Low  [-] High
Weed Control:  [Blank] Good  [-] OK  [-] Poor  [Blank] Spotty  [-] Dense Spots

Grasses  [-] Broadleaves  [-] Perennials

ACTION:
[-] None Required  [-] Watch  [Yes, see comments]

Comments:
Group Plant Population: 30 33 27 37 29
30, 833, A-W6
V3/4  4-5” Range
70% 60% Weed Control

North
3.2  3.0  2.9  2.1
3.1  3.3  3.2  3.2

South

West

East

Cutworms  [-] Armyworms  [-] Stalkborers  [-] Wireworms  [-] Spider mites
White Grubs  [-] Flea Beetles  [-] Aphids  [-] Slugs  [-] Leafhoppers
Seed Corn Maggots  [-] Root Damage  [-] Insects
Foliar Disease-Rust  [-] Foliar Disease-Fungi  [-] Diseases
Corn Borer-%  [-] Yellowish
Stunted plants  [-] Root Damage  [-] Plants
Foliar Disease-Fungi  [-] Purplish
Diseases  [-] Yellowish
Nematodes  [-] Stunting