BioEnt – Early Season Survey

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

☐ Seed Corn ☐ Corn ☐ Soybeans ☐ Wheat ☐ Grower: [Insert Name]  Date: 6/19/2014

Field Name/Number: TIRB

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

Plant Population: OK  Soil Moisture: 0-12: 80%  12+: 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:
☐ None Required
☐ Watch
☐ Yes, see comments

Comments:

V & F 18-20 " Range

Population 32 31 30 32 27 29
30 166 Acres
Good weed control
R 1, 2, 3, 4 & 5

N

W East

Noted: Reps: 1, 2, 3, 4, 5 showed irregular growth patterns which appear to result from soil compaction and/or poor drainage. Corn showing size & color variance.

☐ Annual Grasses AG  ☐ Pigweed RRP
☐ Foxtail F  ☐ Horsetail HN
☐ Panicum -Fall FP  ☐ Bindweed -Field FBW
☐ Quack grass QG  ☐ Bindweed -Hedge HBW
☐ Wirestem Muhly WM  ☐ Smartweed -Penn. PSM
☐ Field Sandbur FS  ☐ Smart -Swamp SSM
☐ Crabgrass CG  ☐ Dogbane -Hemp HDB
☐ Johnsongrass JJ  ☐ Lambsquarters LOU
☐ Shattercane SCA  ☐ Ragweed CRAG
☐ Nutsedge NS  ☐ Ragweed -Giant GRAG
☐ Winter Annuals WA  ☐ Dock -Curly CD
☐ Chickweed CW  ☐ Nightshade -Black BNS
☐ Biennials WB  ☐ Jimsonweed JW
☐ Cover Crop CC  ☐ Canada Thistle CTH
☐ Velvetleaf VL  ☐ Yellow Rocket YR
☐ Cocklebur CBUR  ☐ Perennials P
☐ Milkweed CM  ☐ 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
☐ Buzzywip  ☐ Stalk bending  ☐ Twisted whorl
☐ Doubles  ☐ Density  ☐ Variance
☐ Growth: ☐ Variance:  Cox
☐ 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 -%  ☐ Stunted plants
☐ Spider mites  ☐ Leafhoppers

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

Deep rip in future would help in either case.
Comments:

18 20" Range
28 30 29 30 32 31
30,000 Ac/acre Population

Color/growth normal

No problems
Good weed control

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
Shattercane SCA
Nutsedge NS
Winter Annuals WA
Chickweed CW
Biennials WB
Cover Crop CC
Velvetleaf VL
Cocklebur CBUR
Milkweed CM

Pigweeds RRP
Horsenettle HN
Bindweeds - Field FBW
Bindweeds - Hedge HBW
Smartweeds - Penn. PSM
Smart - Swamp SSM
Dogbane - Hemp HDB
Lambsquarters LQK
Ragweed CRAG
Ragweed - Giant GRAG
Dock - Curly CD
Nightshade - Black BNS
Jimsonweeds JW
Canada Thistle CTH
Yellow Rocket YR
Perennials P
Pokeweed PW

Germination
Emergence
Nutrient Deficiency
Soil Compaction
Herbicide damage
Physiological Disorder in Corn
Buggywip
Doubles
Density
Growth
Plant spacing
Emergence
Soil Temperature

No: 1/4" Holes
Emerging: VC / V1
Spots
General
Spots
General
Spots
General
Spots
General
Spots
General

Root Damage
Insects
Diseases
Nematodes
Plants
Purplish
Yellowish
Stunting
BioEnt – Early Season Survey
gary manley 269-273-7070 or 269-816-1080

☑ Seed Corn ☐ Corn ☐ Soybeans ☐ Wheat ☐ Grower
☐ General Date 6/19/2014
Field Name/Number 73 R3
Growth Stage
General Appearance ☑ Size ☐ Variance ☑ Leaf Color ☑ Variance ☐
Plant Population ☐ Soil Moisture 0-12 ☑ 12+ ☐ 85% 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:
V6 10-12’
Population
30 000/acre
LVL/CRAG/VI general
1-3” range
density low but general

Cola growth harmed
No problems
Control weeds within
next 2 weeks

☐ 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”

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 715
- Date 6/19/2014

Field Name/Number: 423

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

Plant Population: 0
Soil Moisture 0-12: 85
12+: 85+
%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:
Population
26 22 27 18
14 28 18 25
22.75 acres
Population
03/14
4.5" Range
Week UE/2" Range

N

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
Buggiewip ☐ Stalk bending ☐ Twisted whorl
Doubles ______%
Density: OK ☐ Variance
Growth: OK ☐ Variance: OK
Plant spacing: Variance: Variance
Emergence: Variance: 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 ☐ Insects ☐ Plants
☐ Diseases ☐ Yellowish
☐ Nematodes ☐ Stunting
BioEnt – Early Season Survey

Grower: MSU
Date: 6/14/2014

Field Name/Number: 76 B3
Growth Stage: 

General Appearance: OK
Size: OK
Variance: OK
Leaf Color: OK
Variance: 0

Plant Population: Normal
Soil Moisture: 0-12
50
12+ 85% AWC

Vigor: Good
Stress: Heat
Nitrogen
General
Spotty
General
Spotty
Stress-Chlorophyll: None
Low
High
General
Spotty

Weed Control: Good
Hair
Poor
Spotty
Dense Spots
Grasses
Broadleaves
Perennials

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

Comments:

Regrowth 12-16" Range
Aphids
Mirid Bug
Low Level

Perennials Scattered
Grasses Emerging

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
Insects
Diseases
Purplish
Nematodes
Yellowish
Plants
Stunting
BioEnt – Early Season Survey
Gary Manley 269-273-7070 or 269-816-1080

Field Name/Number  E9K
Rate Irrigated  1/2
Grower MSL Date 6/14/2014
General Appearance OK Size 0k Variance 0k Leaf Color OK Variance 0k
Plant Population OK Soil Moisture 0-12 80 12+ 85/90 %AWC

Vigor: [X] Good [ ] OK [ ] Poor
Stress: [ ] General [ ] Spotty [ ] Spotty
Stress-Chlorophyll: [X] None [ ] Low [ ] High [ ] General [ ] Spotty
Weed Control: [X] Good [ ] OK [ ] Poor [ ] Spotty [ ] Dense Spots [ ] Grasses [ ] Broadleaves [ ] Perennials

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

Comments:
Cold/growth normal
No problem
Good weed control

N
W
S
E

[ ] 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 ________

[ ] Root Damage [ ] Plants
[ ] Insects [ ] Purplish
[ ] Diseases [ ] Yellowish
[ ] Nematodes [ ] Stunting

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

Grower: DMB 
Date: 6/19/2014

Field Name/Number: N 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
12+ 55-90 %AWC

Vigor: Good
Stress: Heat, Moisture, Nitrogen
Stress-Chlorophyll: None
Weed Control: Good

ACTION:
None Required
Watch
Yes, see comments

Comments:

VT/8 16-20" Range
Growth normal
No problems
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 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
Emergence
Nutrient Deficiency
Soil Compaction:
Spots
General
Standing Water
Small Spots
Large Spots
Herbicide damage
Physiological Disorder in Corn
Yellowish whorl
Buggywip
Stalk bending
Twisted whorl
Doubles
Density
Growth
Plant spacing
Emergence
Soil Temperature 2°

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

Root Damage
Insects
Diseases
Nematodes
Stunting

Plants
Purplish
Diseases
Yellowish