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

- Seed Corn [X] Corn [ ] Soybeans [ ] Wheat [ ] Green Beans
- Field Name/Number [ ] Grower [MSY]
- General Appearance: [ ] Dry [ ] Normal [ ] Wet [ ] Spotty
- Plant Population: [ ] 0-12 [ ] 12-24 [ ] 24+ [ ] OK [ ] Spotty
- Soil Moisture: [ ] 0-12 [ ] 12-24 [ ] 24+ [ ] %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:**
- Soil too dry to probe
- Plants wilting during dry time, bottom leaves starting to turn yellow & die back due to degree of pollination/early
- Spotty spots showing deep stress & wilting
- Tap Beetle - Could be

- Annual Grasses AG [ ]
- Foxtail F [ ]
- Panicum -Fall FP [ ]
- Quack grass QG [ ]
- Wirestem Muhly WM [ ]
- Marestail MT [ ]
- Crabgrass CG [ ]
- Johnsongrass JG [ ]
- Shatercane SCA [ ]
- Nutsedge NS [ ]
- Winter Annuals WA [ ]
- Chickweed CW [ ]
- Biennials WB [ ]
- Cover Crop CC [ ]
- Velveteen VL [ ]
- Cocklebur CBUR [ ]
- Milkweed CM [ ]

- Pigweed RRP [ ]
- Horsenettle HN [ ]
- Bindweed -Field FBW [ ]
- Bindweed -Hedge HBW [ ]
- Smartweed -Penn. PSM [ ]
- Smart -Swamp SSM [ ]
- Dogbane -Hemp HDB [ ]
- Lambquarter 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: [ ] Spots [ ] General [ ] Hard [ ] Crusted
- Standing Water: [ ] Small Spots [ ] Large Spots
- Herbicide damage: [ ] Emergency stress
- Physiological Disorder in Corn: [ ] Yellowish yellow
- Buggyyip [ ] Stalk bending [ ] Twisted whorl
- Doubles: [ ]
- Density: [ ] Variance
- Growth: [ ] Variance
- Plant spacing: [ ] Variance
- Emergence: [ ] Variance
- Soil Temperature: [ ] 2"
**BioEnt – Early Season Survey**

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

- **Seed Corn ✓**
- **Corn □**
- **Soybeans □**
- **Wheat □**
- **Green Beans □**

**Field Name/Number**

**Grower**

**GARY**

**Growth Stage**

**VI**

**Date**

**7/27/2017**

**General Appearance**

**Seeking**

**Size**

**12-24**

**Plant Population**

**Variance**

**Leaf Color**

**Variance**

**Stress-Chlorophyll**

**Spotty**

**Plant Vigor**

**Good**

**Poor**

**Spotty**

**Weed Control**

**Grasses**

**Broadleaves**

**Perennials**

**ACTION:**

- **None Required**

- **Watch**

- **Yes, see comments**

**Comments:**

- Early tassel & silk emergence. Soil to dry to probe. Corn showing leaf rolling during day. Bottom leaves starting to yellow due to moisture stress. Plot mostly uniform, but deeper starting to affect development.

- **Cutworms CW**
- **White Grubs WG**
- **Armyworms AW**
- **Flea Beetles FB**
- **Stalkborers SB**
- **Aphids A**
- **Wireworms WW**
- **Slugs S**
- **Spider Mites SM**
- **Leathoppers LH**
- **Seed Corn Maggots**
- **Foliar Disease-Rust**
- **Foliar Disease-Fungi**
- **Corn Borer-%**
- **Stunted plants**

<table>
<thead>
<tr>
<th>Grasses</th>
<th>Broadleaves</th>
<th>Perennials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual Grasses AG</td>
<td>Foxtail F</td>
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<td>Smart -Swamp SSM</td>
</tr>
<tr>
<td>Wheat</td>
<td>Velvetleaf VL &amp; Chickweed CW</td>
<td>Dogbane -Hemp HDB</td>
</tr>
<tr>
<td>Green Beans</td>
<td>Cocklebur CBUR</td>
<td>Lambsquarter LQU</td>
</tr>
<tr>
<td>Dateq</td>
<td>Milkweed CM</td>
<td>Ragweed CRAG</td>
</tr>
</tbody>
</table>

**Nutrient Deficiency**

**Variance**

**Soil Moisture**

**0-12**

**12-24**

**24+**

**%AWC**

**Vigor:**

- **Good**
- **Ok**
- **Poor**
- **Spotty**

**Stress:**

- **Heat**
- **Moisture**
- **Nitrogen**
- **General**
- **Spotty**

**Weed Control:**

- **Grasses**
- **Broadleaves**
- **Perennials**

**Weeds:**

- **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:**

- **Spots**
- **General**
- **Hard**
- **Crusted**

**Standing Water:**

- **Small Spots**
- **Large Spots**

**Herbicide Damage:**

- **Emergence stress**

**Physiological Disorder in Corn:**

- **Yellowish whorl**
- **Twisted whorl**

**Doubles:**

- **%**

**Density:**

- **Variance**

**Growth:**

- **Variance**

**Plant spacing:**

- **Variance**

**Emergence:**

- **Variance**

**Soil Temperature:**

- **2"**

**Root Damage:**

- **Insects**
- **Plants**
- **Purplish**
- **Diseases**
- **Yellowish**
- **Nematodes**
- **Stunting**
BEAN INSECT AND DISEASE REPORT

Date 7/27/2012
Grower MSR
Field(s) 6SR
Crop Stage R1
Plant Height 12-18" Ave. 15-16"

Soil Moisture 0-6" dry 6-12"+ dry %AWC

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 ok
General Appearance ok
Leaf Color normal
Deficiency ok
Total Leaf Damage low %
Round-up Seed ❑ Yes ❑ No

INSECT SPECIES | LIFE STAGE (ELPA) | EVALUATION | DIST. (S-G) | THRESHOLD | COMMENTS
---|---|---|---|---|---
Worms - misc | larvae | % pts affected | | | Sprayed - good control
Japanese Beetle | adults | % leaf damage | | | few scattered mites
Potato Leafhopper | nymphs | # per leaf | | | (ev ( ev
Spider Mites | nymphs | % plants affected | | | (ev ( ev
Aphids | adults/nymphs | # per plant | | | (ev ( ev
Aphids Alatoid nymphs | % population | | | | (ev ( ev
Aphids Winged adults | % population | | | | (ev ( ev
Other | | | | | (ev ( ev
Other Grasshopper | larvae | | | | (ev ( ev
Natural Enemies | | | | | (ev ( ev

DISEASES | PLT/PART Affected (sampled) | Region Affected (range) | EVALUATION % Plts. Aff. | THRESHOLD | DIST. G/S | COMMENTS
---|---|---|---|---|---|---
Downy Mildew | | | | | | (ev ( ev
White Mold | | | | | | (ev ( ev
Common Blight | | | | | | (ev ( ev
SDS | | | | | | (ev ( ev
Charcoal Rot | | | | | | (ev ( ev
Other | | | | | | (ev ( ev
Other | | | | | | (ev ( ev

Comments: To dry to probe soil.

Rev 02-01-12
BioEnt – Early Season Survey  Gary Manley 269-273-7070 or 269-816-1080

Seed Corn ☑  Corn ☐  Soybeans ☐  Wheat ☐  Green Beans ☐

Field Name/Number  G4R1  Grover  MSU  Growth Stage  VT

Date: 7-27-2017

Date: 7-27-2017

Plant Population  Normal Variance  Leaf Color  OK Variance

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

Comments:

Early tassel & silk emergence
Soil & dry to probe
Corn showing wilting during day time
Spotty yellowing corn
Leaves due to stresses

Germination
Emergence
Nutrient Deficiency
Soil Compaction:
Stunting
Herbicide damage
Physiological Disorder in Corn
Physiological Disorder in Corn

Stunted plants

Spot damage
General

Phytophthora

Foliar Disease-Rust
Foliar Disease-Fungi
Corn Borer-%

Insects
Diseases
Nematodes
Stunting

Seed Corn Maggots

Root Damage

Plants

White Grubs WG
Flea Beetles FB
Aphids A
Slugs S

Leafhoppers LH

Disease

Yellowish

Purplish

Bumps

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°