**BioEnt – CORN REPORT**

**Grower**

**Date** 8/14/2017

**Field(s)**

Crop Stage: Sent (early)  
Soil Moisture 0-12" Below 12-24" 24+ %AWC

<table>
<thead>
<tr>
<th>VT</th>
<th>Leaves</th>
<th>Silk</th>
<th>% Pollination</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ACTION**

- None Required
- Watch
- Yes, see below

**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
- Grasses
- Broadleaves
- Perennials

Nitrogen Deficiency on lower leaves:
- Yes
- No

# of leaves showing yellowing:
- Yes
- No

**Comments:**

Surface moisture to 6" Profit ≤ 55/60 %

Ear size & vigor varies due to dry conditions.

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**Lesions, square inch ear leaf**

**Affected (range)**

**PLT/PART Affected (sampled)**

**DISEASES**

- Anthracnose
- NCLB - fungi
- Leaf Blight - fungi
- Gray Leaf Spot
- Rust

**Threshold, B/A**

**EVALUATION**

- % Pits. Affected

**DIST. G/S/L**

- OK

**INSECT SPECIES**

- Corn Borer
- WBCW
- W.C. Rootworm
- Japanese Beetle

**LIFE STAGE**

- instar

**EVALUATION**

- % plants affected
- % ears affected

**POPULATION**

- H
- M
- L
- VL

**COMMENTS**

- Adults
- Larvae
- Adults
### BioEnt – CORN REPORT

**Grower:** J2A2 M64  
**Date:** 8/24/2017

**Field(s):** Corn

<table>
<thead>
<tr>
<th>Crop Stage</th>
<th>Plant Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>early dent</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Soil Moisture</th>
<th>VT</th>
<th>Leaves</th>
<th>Silk</th>
<th>% Pollination</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-12&quot;</td>
<td>Be</td>
<td>100</td>
<td>100</td>
<td>good / fair / poor</td>
</tr>
</tbody>
</table>

#### 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  
- Grasses  
- Broadleaves  
- Perennials

#### Nitrogen Deficiency on lower leaves
- Yes  
- No  
- General  
- Spotty

#### Comments:
- Surface moisture to 6" Profil 255/60%
- Ear size & development mixed due to dry condition

### ACTION
- None Required
- Watch
- Yes, see below

### Appearance
- Uniformity (general)
- Development
- General (growth)
- Color
- Leaf Color
- Mixed
- Nitrogen
- Deficiency

### DISEASES
- Anthracnose
- NCLB - fungus
- Leaf Blight - fungus
- Gray Leaf Spot
- Rust

### INSECT SPECIES
- Corn Borer
- WBCW
- W. C. Rootworm
- J. Ear Worm
- Spider Mites
- Japanese Beetle

### Pest Control
- None Required
- Watch
- Yes, see below

### Rev 07-02-14
**Grower:** T3P2 M5Y  
**Date:** 8/24/2017

**Field(s):** Corn

**Crop Stage:** Late Dough

**Plant Height:**

**Soil Moisture 0-12"**

- **Below:**
  - 12-24"
  - 24+ %AWC

**VT:**

- 0 Leaves
- Silk 100
- % Pollination 100
good / fair / poor

**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
- ☑️ Grasses
- ☑️ Broadleaves
- ☑️ Perennials

**Nitrogen Deficiency on lower leaves:**

- ☑️ Yes
- ☑️ No
- ☑️ General
- ☑️ Spotty

**# of leaves showing yellowing:**

- ☑️ Yes
- ☑️ No

---

**Comments:**

- Surface moisture to 6" profile < 55/60%
- Corn size and development mixed to dry conditions

---

**DISEASES**

- Anthracnose
- NCLLS-fungi
- Leaf Blight - fungi
- Gray Leaf Spot
- Rust

**PLT/PART Affected (sampled)**

**AFFECTED (range)**

**EVALUATION **

**% Pits, Aff.**

**DIST. G/S/L**

**THRESHOLD**

**B/A/N/A**

**APPEARANCE**

**Uniformity (general)**

**Development**

**General (growth)**

**Color**

**Leaf Color**

**Nitrogen Deficiency**

---

**INSECT SPECIES**

- Corn Borer
- WBCW
- W.C. Rootworm
- C. Ear Worm
- Spider Mites
- Japanese Beetle

**LIFE STAGE**

- Instar
- Adults
- Larvae
- Spiders
- Adults

**EVALUATION**

- % plants affected
- % insects affected
- % plants affected

**POPULATION**

- H M L VL
- H M L VL
- H M L VL
- H M L VL
- H M L VL

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Rev 07-02-14
**BioEnt – CORN REPORT**

Grower: Tyr2 MSU  Date: 8/24/2017

Field(s): Corn

Crop Stage: Blister to Milk  Plant Height: Mixed

Soil Moisture: 0-12"  12-24"  24+  %AWC

VT % Leaves % Pollination % Good fair poor

**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

**Nitrogen Deficiency on lower leaves:**
- Yes
- No

No leaves showing yellowing.

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**Appearance**

Uniformity (general):
- Mixed

Development:
- Mixed

Leaf Color:
- Mixed

Nitrogen Deficiency:
- Mixed

---

**Comments:**

- Surface moisture to 6" Profil: 2 55/40/34%
- In row weeds: Foxtail dense in row
- Ragweed and Common daisy in row
- Poor development & growth (size) Mixed
- Other

---

**Nitrogen Deficiency on lower leaves:**
- Yes
- No

---

**Soil Moisture 0-12"**

- Ok

**Population**

<table>
<thead>
<tr>
<th>PLT/EAR</th>
<th>POLLEN</th>
<th>DAMAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
<td>Yes</td>
<td>□</td>
</tr>
<tr>
<td>#2</td>
<td>Yes</td>
<td>□</td>
</tr>
<tr>
<td>#3</td>
<td>Yes</td>
<td>□</td>
</tr>
<tr>
<td>#4</td>
<td>Yes</td>
<td>□</td>
</tr>
</tbody>
</table>

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**INSECT SPECIES**

- Corn Borer
- W.C. Rootworm
- S.C. Ear Worm
- Japanese Beetle

---

**DISEASES**

- Anthracnose
- NCLLS - fung
- Leaf Blight
- Fungi
- Gray Leaf Spot
- Rust

---

**LIFE STAGE**

- instar
- adults
- larvae
- adults

---

**EVALUATION**

- % plants affected
- % ears affected
- % plants affected

---

**COMMENTS**

- scattered

---

**Actor:**

- None Required
- Watch
- Yes, see below
BioEnt – Early Season Survey  Gary Manley 269-273-7070 or 269-816-1080

Date 8/24/2017

Field Name/Number HARD Grower Alfalfa Growth Stage M34

General Appearance Hard Size 12-24% Leaf Color Variance %AWC

Plant Population Shade Soil Moisture 0-12

<table>
<thead>
<tr>
<th>ACTION:</th>
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<tbody>
<tr>
<td>None Required</td>
</tr>
<tr>
<td>Watch</td>
</tr>
<tr>
<td>Yes, see comments</td>
</tr>
</tbody>
</table>

Comments:

Alfalfa -
Tall 5-12" Regrowth
Flowering -
Time to harvest
No leafhoppers

Emergence:

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

Germination:

- No
- 1/4" Root
- Spike PE

Emergence:

- Breaking
- VC / V1

Nutrient Deficiency:

- Spots
- General

Soil Compaction:

- Spots
- General

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:

- Insects
- Diseases
- Nematodes

Plants:

- Purplish
- Yellowish
- Stunting
## BioEnt – CORN REPORT

**Grower:** MSU  
**Field(s):** N2 Study Irrigated Corn  
**Date:** 8/24/2017  

### ACTION
- **None Required**
- **Watch**
- **Yes, see below**

### Crop Stage

<table>
<thead>
<tr>
<th>Soil Moisture 0-12&quot;</th>
<th>12-24&quot;</th>
<th>24+</th>
<th>%AWC</th>
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<td>VT</td>
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### 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**
- **Grasses**
- **Broadleaves**
- **Perennials**

### Nitrogen Deficiency on lower leaves
- **Yes**
- **No**
- **General**
- **Spotty**

### Comments:

- Colored ear development  
  Good in higher N2 plots

---

### Comments:

- **OK**  
  - Dist. Q/S/L: OK
  - Threshold: B/N/A
  - Evaluation: % Pits. Aff: OK
  - Lesions: square inch ear leaf
  - Affected (range)
  - Plant/Apart Affected (sampled)
  - Diseases
    - Anthracnose
    - NCLS - fungi
    - Leaf Blight - fungi
    - Gray Leaf Spots
    - Rust

### Insect Species
- **Corn Borer**
- **W.C. Rootworm**
- **W.C. Ear Warm**
- **Japanese Beetle**

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**Comments:**

- Color/ear development  
  Good in higher N2 plots

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**Date:** 8/24/2017  

**Rev:** 07-02-14
BioEnt – CORN REPORT

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

Grower: MSU
Field(s): study - non-irrigated corn
Date: 8/24/2014

Crop Stage
Soil Moisture 0-12"  12-24"  24+  %AWC
VT  Leaves  Silk  % Pollination  good / fair / poor

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
Grasses  □ Broadleaves  □ Perennials

Nitrogen Deficiency on lower leaves □ Yes  □ No  □ General  □ Spotty
# of leaves showing yellowing □ Yes  □ No

Stress-Chlorophyll: □ None  □ Low  □ High  □ General  □ Spotty

Nitrogen Deficiency □ Ok

Comments:

Surface moisture 6" profile ≥ 55/60%
Ear size & vigor varies due to dry conditions