**BioEnt Agricultural Consulting  Gary Manley 269-273-7070**

**CORN INSECT AND DISEASE REPORT**

<table>
<thead>
<tr>
<th>Grower</th>
<th>MSY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field(s)</td>
<td>G1R3</td>
</tr>
</tbody>
</table>

- **Date**: 6/13 2019  
- **CROP STAGE**: V5  
- **PLANT HEIGHT**: 6'-8"  
- **SOIL MOISTURE**: S0.4, 0-12" S0.2, 12" S0.2  
- **%AWC**:  
- **VT**: Leaves, Silk, % Pollination  
- **Vigor**: Good  
- **Stress**: Heat, Moisture, Nitrogen  
- **Stress-Chlorophyll**: None, Low, High  
- **Weed Control**: Good, Ok, Poor, Spotty, Grasses, Broadleaves, Perennials  
- **Uniformity**: OK  
- **General Appearance**: Good  
- **Leaf Color**: Green  
- **Nitrogen**: Good  
- **Deficiency**: None  
- **Air Temperature**: Cool  
- **Plant Temperature**: Normal  

### INSECT SPECIES

<table>
<thead>
<tr>
<th>INSECT SPECIES</th>
<th>LIFE STAGE (ELPA)</th>
<th>EVALUATION</th>
<th>DIST.</th>
<th>THRESHOLD</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corn Borer</td>
<td>larvae</td>
<td>% plants affected</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Armyworm</td>
<td>larvae</td>
<td>% plants affected</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>W.C. Rootworm</td>
<td>adults</td>
<td>Beetles/plant</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. Ear Worm</td>
<td>larvae</td>
<td>% plants affected</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spider Mites</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

### DISEASES

<table>
<thead>
<tr>
<th>DISEASES</th>
<th>PLT/PART Affected (sampled)</th>
<th>AFFECTED (range)</th>
<th>LESIONS square inch ear leaf</th>
<th>EVALUATION % Plts. Aff.</th>
<th>THRESHOLD B/N/A</th>
<th>DIST. G/S/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthracnose</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>NCLS</td>
<td></td>
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<tr>
<td>LB  Leaf Blight</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Rust</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Comments:**

- growth development Normal
- very wet / splotchy standing water
<table>
<thead>
<tr>
<th>Action:</th>
<th>Emergence Good</th>
</tr>
</thead>
<tbody>
<tr>
<td>None Required</td>
<td>Watch Condition</td>
</tr>
</tbody>
</table>

**Comments:**

Conditions for emergence good. Bearden looks good.

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**Field Name/Number:**

- Seed Corn
- Corn
- Soybeans
- Wheat
- Green Beans

**Grower:**

MSY

**Growth Stage:**

G2R3

**Date:**

6/13/2019

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**General Appearance:**

- Size: $\frac{\text{UE}}{\text{Var}}$

**Plant Population:**

- Soil Moisture: 0-12 $\text{WET}$

- 12-24 $\text{WET}$$\frac{\text{Spots}}{\text{General}}$

- 24+ $\text{WET}$$\frac{\text{Spots}}{\text{General}}$

**Vigor:**

- Good
- Spotty
- Poor
- General

**Stress:**

- Heat
- Moisture
- Nitrogen
- General
- Spotty

**Stress-Chlorophyll:**

- None
- Low
- High
- General
- Spotty

**Weed Control:**

- Grasses
- Broadleaves
- Perennials

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**Soil Compaction:**

- Spots
- General

**Nutrient Deficiency:**

- Spots

**Soil Temperature:**

- Variance

**Plant Spacing:**

- Variance

**Soil Temperature:**

- 2"$

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**Insects:**

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

**Plants:**

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

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**Seed Corn Maggots**

**Foliar Disease-Rust**

**Foliar Disease-Fungi**

**Corn Borer-%**

**Stunted plants**

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**Comments:**

- Annual Grasses AG
- Foxtail F
- Panicum -Fall FP
- Quack grass QG
- Wirestem Muhly WM
- Marestail MT
- Crabgrass CG
- Johnsongrass JG
- Shattercane 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
- 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

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**Germination:**

- No

**Emergence:**

- 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

**Emergence Stress:**

- 2"
<table>
<thead>
<tr>
<th>Condition</th>
<th>Emergence good / weed control good</th>
</tr>
</thead>
</table>

**BioEnt – Early Season Survey**

- **Field Name/Number:**
- **Grower:**
- **Growth Stage:**
- **Date:** 6/13/2019
- **Comments:**

<table>
<thead>
<tr>
<th>Vigor:</th>
<th>Good</th>
<th>OK</th>
<th>Poor</th>
<th>General</th>
<th>Spotty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stress:</td>
<td>Heat</td>
<td>Moisture</td>
<td>Nitrogen</td>
<td>General</td>
<td>Spotty</td>
</tr>
<tr>
<td>Stress-Chlorophyll:</td>
<td>None</td>
<td>Low</td>
<td>High</td>
<td>General</td>
<td>Spotty</td>
</tr>
<tr>
<td>Weed Control:</td>
<td>Good</td>
<td>OK</td>
<td>Poor</td>
<td>Spotty</td>
<td>Dense Spots</td>
</tr>
<tr>
<td>Grasses</td>
<td>Broadleaves</td>
<td>Perennials</td>
<td></td>
<td></td>
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<thead>
<tr>
<th>Action:</th>
<th>None Required</th>
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<tbody>
<tr>
<td>Watch</td>
<td>Conditions for emergence good</td>
</tr>
<tr>
<td>Yes, see comments</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General Appearance</th>
<th>Size</th>
<th>Variance</th>
<th>Leaf Color</th>
<th>Variance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant Population</td>
<td>UE</td>
<td>Soil Moisture 0-12</td>
<td>12-24</td>
<td>24+</td>
</tr>
<tr>
<td>Soil Compaction:</td>
<td>Soil Surface:</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
- Spots | General |
- Hard | Crusted |
- Standing Water |
- Small Spots | Large Spots |
- Herbicide damage | Emergence stress |
- Physiological Disorder in Corn |
- Buggywip | Stalk bending | Twisted whorl |
- Doubles | % |
| Density | UE | Variance |
| Growth | UE | Variance |
| Plant spacing | UE | Variance |
| Emergence | Variance |
| Soil Temperature | 2" |

<table>
<thead>
<tr>
<th>Action:</th>
<th>Root Damage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insects</td>
<td>Plants</td>
</tr>
<tr>
<td>Diseases</td>
<td>Yellowish</td>
</tr>
<tr>
<td>Nematodes</td>
<td>Stunting</td>
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