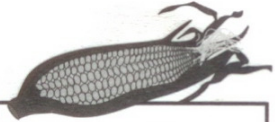


BioEnt Agricultural Consulting Gary Manley 269-273-7070 or 269-816-1080
CORN INSECT AND DISEASE REPORT

Grower MSA Date 8/28/2014

Field(s) T1R2 - Corn



ACTION

None Required
 Watch
 Yes, see below

Crop Stage Full Dent Plant Height

Soil Moisture 0-12" 70 12-24" 60 24+Soil hard %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

SAME AS LAST WK.

Uniformity
General Appearance
Leaf Color Normal for a dry summer
Nitrogen
Deficiency
Air Temperature °F Cold Normal Hot

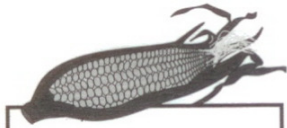
| INSECT SPECIES | LIFE STAGE | EVALUATION | COMMENTS |
|-----------------|------------|-------------------|-----------|
| Corn Borer | instar | % plants affected | |
| WBCW | | | |
| W.C.Rootworm | adults | Beetles/plant | |
| C. Ear Worm | larvae | % ears affected | <i>Oh</i> |
| Spider Mites | | % plants affected | |
| Japanese Beetle | | | |

| DISEASES | PLT/PART Affected (sampled) | AFFECTED (range) | LESIONS square inch ear leaf | EVALUATION % Plts. Aff. | THRESHOLD B/N/A | DIST. G/S/L |
|-----------------------|-----------------------------|--|------------------------------|-------------------------|-----------------|-------------|
| Anthracnose | | | | | | |
| NCLS - fungi | | | | | | |
| Leaf Blight - fungi | | | | | | |
| Rust | | | | | | |
| <i>Gray leaf Spot</i> | | <i>Common on lower leaves - most leaves affected - level moderate.</i> | | | | |
| <i>Gray</i> | | | | | | |

Comments:
Bottom leaf burn due to dryness Same AS last week.
Recent rain has removed moisture stress

BioEnt Agricultural Consulting Gary Manley 269-273-7070 or 269-816-1080
CORN INSECT AND DISEASE REPORT

Grower MSU Date 8/28 2014
 Field(s) T2R2 - Corn



ACTION
 None Required
 Watch
 Yes, see below

Crop Stage Full Dent Plant Height
 Soil Moisture 0-12" 70 12-24" 65 24+ hard ^{Soil to} %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

Uniformity
 General Appearance
 Leaf Color ok - normal
 Nitrogen
 Deficiency for by summer
 Air Temperature °F
 Cold Normal Hot

| INSECT SPECIES | LIFE STAGE | EVALUATION | COMMENTS |
|-----------------|------------|-------------------|-----------|
| Corn Borer | instar | % plants affected | |
| WBCW | | | |
| W.C.Rootworm | adults | Beetles/plant | |
| C. Ear Worm | larvae | % ears affected | <u>ok</u> |
| Spider Mites | | % plants affected | |
| Japanese Beetle | | | |

| DISEASES | PLT/PART Affected (sampled) | AFFECTED (range) | LESIONS square inch ear leaf | EVALUATION % Plts. Aff. | THRESHOLD B/N/A | DIST. G/S/L |
|-----------------------|-----------------------------|------------------|------------------------------|--------------------------------------|-----------------|-------------|
| Anthracnose | | | | | | |
| NCLS - fungi | | | | | | |
| Leaf Blight - fungi | | | | | | |
| Rust | | | | | | |
| <u>Gray leaf spot</u> | | | | <u>general low to moderate level</u> | | |
| <u>Rust</u> | | | | <u>low level</u> | | |

Comments:
 Recent rains have removed stresses currently.

BioEnt Agricultural Consulting

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

CORN INSECT AND DISEASE REPORT

Grower TB MSU Date 8/28 2014

Field(s) T3R2 - corn



ACTION

None Required

Watch

Yes, see below

Crop Stage early dent Plant Height _____

Soil Moisture 0-12" 65 12-24" 60 24+ ^{soil to} hard %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

Uniformity _____

General Appearance _____

Leaf Color no change from _____

Nitrogen _____

Deficiency last wk _____

Air Temperature _____ °F

Cold Normal Hot

due to dryness stress & et same as last wk

| INSECT SPECIES | LIFE STAGE | EVALUATION | COMMENTS |
|-----------------|------------|-------------------|-----------|
| Corn Borer | instar | % plants affected | |
| WBCW | | | |
| W.C. Rootworm | adults | Beetles/plant | <u>ok</u> |
| C. Ear Worm | larvae | % ears affected | |
| Spider Mites | | % plants affected | |
| Japanese Beetle | | | |

| DISEASES | PLT/PART Affected (sampled) | AFFECTED (range) | LESIONS square inch ear leaf | EVALUATION % Plts. Aff. | THRESHOLD B/N/A | DIST. G/S/L |
|-----------------------|-----------------------------|--------------------------------------|------------------------------|-------------------------|-----------------|-------------|
| Anthracnose | | | | | | |
| NCLS - fungi | | | | | | |
| Leaf Blight - fungi | | | | | | |
| Rust | | | | | | |
| <u>Gray leaf spot</u> | | <u>low level - most lower leaves</u> | <u>due to dryness</u> | | <u>Brown</u> | |

Comments:

Recent rain has removed moisture stress

BioEnt Agricultural Consulting Gary Manley 269-273-7070 or 269-816-1080
CORN INSECT AND DISEASE REPORT

Grower msy Date 8 28 2014
 Field(s) T4R2 - corn



ACTION
 None Required
 Watch
 Yes, see below

Crop Stage Dough Stage Plant Height _____
 Soil Moisture 0-12" 65 12-24" 60 24+ soil too hard %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
 Uniformity _____
 General Appearance _____
 Leaf Color _____
 Nitrogen Deficiency _____
 Air Temperature _____ °F Cold Normal Hot
*No additional stress from last week
 Regen forecast*
ok / normal for dry year

| INSECT SPECIES | LIFE STAGE | EVALUATION | COMMENTS |
|-----------------|------------|-------------------|-----------|
| Corn Borer | instar | % plants affected | |
| WBCW | | | |
| W.C. Rootworm | adults | Beetles/plant | |
| C. Ear Worm | larvae | % ears affected | <i>ok</i> |
| Spider Mites | | % plants affected | |
| Japanese Beetle | | | |

| DISEASES | PLT/PART Affected (sampled) | AFFECTED (range) | LESIONS square inch ear leaf | EVALUATION % Plts. Aff. | THRESHOLD B/N/A | DIST. G/S/L |
|-----------------------|-----------------------------|----------------------------|------------------------------|-------------------------|-----------------|-------------|
| Anthracnose | | | | | | |
| NCLS - fungi | | | | | | |
| Leaf Blight - fungi | | | | | | |
| Rust | | | | | | |
| <i>Gray leaf spot</i> | | <i>general / low level</i> | | | | |
| <i>Rust</i> | | <i>low level</i> | | | | |

Comments:
 Recent rain has removed moisture stresses

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

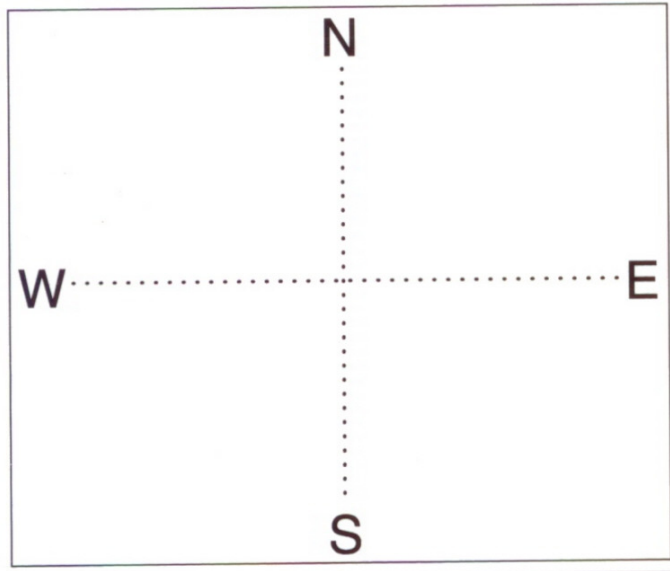
Seed Corn Corn Soybeans Wheat _____ Grower THSU Date 8/28/2014
 Field Name/Number T6R2 Alfalfa Growth Stage _____
 General Appearance ok Size ok Variance ok Leaf Color ok Variance ok
 Plant Population ok Soil Moisture 0-12 65/265 12+ 60/265 %AWC

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:
 No Leafhoppers
 Aphids general common
 14-16" Range.
 Mixed perennials
 Scattered

- | | |
|--|--|
| <input type="checkbox"/> Annual Grasses AG | <input type="checkbox"/> Pigweed RRP |
| <input type="checkbox"/> Foxtail F | <input type="checkbox"/> Horsenettle HN |
| <input type="checkbox"/> Panicum -Fall FP | <input type="checkbox"/> Bindweed -Field FBW |
| <input type="checkbox"/> Quack grass QG | <input type="checkbox"/> Bindweed -Hedge HBW |
| <input type="checkbox"/> Wirestem Muhly WM | <input type="checkbox"/> Smartweed -Penn. PSM |
| <input type="checkbox"/> Field Sandbur FS | <input type="checkbox"/> Smart -Swamp SSM |
| <input checked="" type="checkbox"/> Crabgrass CG | <input type="checkbox"/> Dogbane -Hemp HDB |
| <input type="checkbox"/> Johnsongrass JG | <input type="checkbox"/> Lambsquarter LQU |
| <input type="checkbox"/> Shatercane SCA | <input type="checkbox"/> Ragweed CRAG |
| <input type="checkbox"/> Nutsedge NS | <input type="checkbox"/> Ragweed -Giant GRAG |
| <input type="checkbox"/> Winter Annuals WA | <input type="checkbox"/> Dock -Curly CD |
| <input type="checkbox"/> Chickweed CW | <input type="checkbox"/> Nightshade -Black BNS |
| <input type="checkbox"/> Biannuals WB | <input type="checkbox"/> Jimsonweed JW |
| <input type="checkbox"/> Cover Crop CC | <input type="checkbox"/> Canada Thistle CTH |
| <input type="checkbox"/> Velvetleaf VL | <input type="checkbox"/> Yellow Rocket YR |
| <input type="checkbox"/> Cocklebur CBUR | <input checked="" type="checkbox"/> Perennials P |
| <input type="checkbox"/> Milkweed CM | <input type="checkbox"/> 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 ok Variance ok
 Plant spacing _____ Variance _____
 Emergence _____ Variance _____
 Soil Temperature _____ 2"

| | | |
|---------------------------------------|---------------------------------------|--|
| <input type="checkbox"/> Cutworms | <input type="checkbox"/> White Grubs | <input type="checkbox"/> Seed Corn Maggots |
| <input type="checkbox"/> Armyworms | <input type="checkbox"/> Flea Beetles | <input checked="" type="checkbox"/> Foliar Disease-Rust |
| <input type="checkbox"/> Stalkborers | <input type="checkbox"/> Aphids | <input checked="" type="checkbox"/> Foliar Disease-Fungi |
| <input type="checkbox"/> Wireworms | <input type="checkbox"/> Slugs | <input type="checkbox"/> Corn Borer-% _____ |
| <input type="checkbox"/> Spider mites | <input type="checkbox"/> Leafhoppers | <input type="checkbox"/> Stunted plants |

| | |
|--------------------------------------|------------------------------------|
| <input type="checkbox"/> Root Damage | <input type="checkbox"/> Plants |
| <input type="checkbox"/> Insects | <input type="checkbox"/> Purplish |
| <input type="checkbox"/> Diseases | <input type="checkbox"/> Yellowish |
| <input type="checkbox"/> Nematodes | <input type="checkbox"/> Stunting |

BioEnt Agricultural Consulting Gary Manley 269-273-7070 or 269-816-1080
CORN INSECT AND DISEASE REPORT

Grower MSU Date 8/28 2014

Field(s) Irrigated N₂ Study - Corn

Crop Stage early dent Plant Height _____

Soil Moisture 0-12" 70 12-24" 80 24+ 80 %AWC

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



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

Uniformity ok
 General Appearance good
 Leaf Color _____
 Nitrogen low level stress on
 Deficiency lower 1-2 leaves
 Air Temperature _____ °F
 Cold _____
 Normal ○
 Hot _____

| INSECT SPECIES | LIFE STAGE | EVALUATION | COMMENTS |
|-----------------|------------|-------------------|-----------|
| Corn Borer | instar | % plants affected | |
| WBCW | | | |
| W.C. Rootworm | adults | Beetles/plant | <u>ok</u> |
| C. Ear Worm | larvae | % ears affected | |
| Spider Mites | | % plants affected | |
| Japanese Beetle | | | |

| DISEASES | PLT/PART Affected (sampled) | AFFECTED (range) | LESIONS square inch ear leaf | EVALUATION % Plts. Aff. | THRESHOLD B/N/A | DIST. G/S/L |
|-----------------------|-----------------------------|------------------|------------------------------|-------------------------|-----------------|-------------|
| Anthracnose | | | | | | |
| NCLS - fungi | | | | | | |
| Leaf Blight - fungi | | | | | | |
| Rust | | | | | | |
| <u>Gray Leaf Spot</u> | | <u>general</u> | | | | |

Comments:

BioEnt Agricultural Consulting Gary Manley 269-273-7070 or 269-816-1080
CORN INSECT AND DISEASE REPORT

Grower MSU Date 8/28 2014

Field(s) non-irrigated N₂ study-corn

Crop Stage early dent Plant Height _____

Soil Moisture 0-12" 65 12-24" 60 24+ Soil hard to %AWC

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



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

Uniformity _____
 General Appearance _____
 Leaf Color ok normal
 Nitrogen due to dry condition
 Deficiency this summer
 Air Temperature _____ °F Cold Normal Hot

| INSECT SPECIES | LIFE STAGE | EVALUATION | COMMENTS |
|-----------------|------------|-------------------|-----------|
| Corn Borer | instar | % plants affected | |
| WBCW | | | |
| W.C. Rootworm | adults | Beetles/plant | |
| C. Ear Worm | larvae | % ears affected | <u>ok</u> |
| Spider Mites | | % plants affected | |
| Japanese Beetle | | | |

| DISEASES | PLT/PART Affected (sampled) | AFFECTED (range) | LESIONS square inch ear leaf | EVALUATION % Plts. Aff. | THRESHOLD B/N/A | DIST. G/S/L |
|---------------------|-----------------------------|------------------------------|------------------------------|-------------------------|-----------------|-------------|
| Anthracnose | | | | | | |
| NCLS - fungi | | | | | | |
| Leaf Blight - fungi | | | | | | |
| Rust | | | | | | |
| <u>Common rust</u> | <u>general</u> | <u>low to moderate level</u> | | | | |

Comments:
 due to recent rain stresses due to moisture are removed