BioEnt Agricultural Consulting

Gary Manley 269-273-7070

CORN INSECT AND DISEASE REPORT

Grower MSU Blacklayer

Field(s) T1R6

Date 9/24/2020 Crop Stage Blacklayer Plant Height

Soil Moisture 60 0-12" 65 12+" %AWC

VT Leaves Silk % Pollination good / fair / poor

ACTION

- [x] 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

Uniformity

General Appearance

Leaf Color

Nitrogen

Deficiency

Air Temperature

Plant Temperature Normal

INSECT SPECIES	LIFE STAGE (ELPA)	EVALUATION	DIST.	THRESHOLD	COMMENTS
Corn Borer	larvae	% plants affected			
Armyworm	larvae	% plants affected			
W.C.Rootworm	adults	Beetles/plant			
C. Ear Worm	larvae	% ears affected			
Spider Mites		% plants affected			

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						
LB Leaf Blight						
Rust						

Comments: good Weed Control

Expect ears dryed down prematural due to dry Conditions en spots-

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CORN INSECT AND DISEASE REPORT

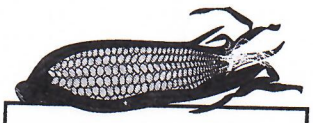
Grower MSU

Field(s) T2R6

Date 9 04 2020 Crop Stage Black-layer Plant Height _____

Soil Moisture 65 0-12" 65 12+" _____ %AWC

VT _____ Leaves Silk _____ % Pollination _____ good / fair / poor



ACTION

- [x] None Required
- [ ] Watch
- [ ] Yes, see below

Vigor: [x] Good [ ] Ok [ ] Poor —— [ ] General [ ] Spotty

Stress: [ ] Heat [ ] Moisture [ ] Nitrogen — [ ] General [ ] Spotty

Stress-Chlorophyll: [x] None [ ] Low [ ] High — [ ] General [ ] Spotty

Weed Control: [x] Good [ ] Ok [ ] Poor [ ] Spotty

[ ] Grasses [ ] Broadleaves [ ] Perennials

Uniformity /

General Appearance /

Leaf Color ok

Nitrogen

Deficiency /

Air Temperature

Plant Temperature Normal

INSECT SPECIES	LIFE STAGE (ELPA)	EVALUATION	DIST.	THRESHOLD	COMMENTS
Corn Borer	larvae	% plants affected			
Armyworm	larvae	% plants affected			
W.C.Rootworm	adults	Beetles/plant			/
C. Ear Worm	larvae	% ears affected			
Spider Mites		% plants affected			

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						
LB Leaf Blight						
Rust						

Comments: early black layer

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CORN INSECT AND DISEASE REPORT

Grower MSU

Field(s) 73 R6 close to Black-layer 34-38% moisture

Date 9 24 2020 Crop Stage Pre black Plant Height _____

Soil Moisture 60 0-12" Pre layer 12+" 65 %AWC

VT _____ Leaves Silk _____ % Pollination _____ 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

Uniformity _____

General Appearance _____

Leaf Color _____

Nitrogen OK

Deficiency _____

Air Temperature _____

Plant Temperature Normal

INSECT SPECIES	LIFE STAGE (ELPA)	EVALUATION	DIST.	THRESHOLD	COMMENTS
Corn Borer	larvae	% plants affected			
Armyworm	larvae	% plants affected			
W.C.Rootworm	adults	Beetles/plant			
C. Ear Worm	larvae	% ears affected			
Spider Mites		% plants affected			

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						
LB Leaf Blight						
Rust						

Comments:

Field looks good - good weed control

Black layer within a week.

appears to have some late N2 deficiency

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CORN INSECT AND DISEASE REPORT

Grower MSU

Field(s) T4R6

Pre-black layer / late dent / 35-40%

Date 9/24/2020 Crop Stage +/- Plant Height

Soil Moisture 60 0-12" 65 12+" %AWC

VT Leaves Silk % Pollination 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

Uniformity

General Appearance

Leaf Color ok

Nitrogen

Deficiency

Air Temperature

Plant Temperature Normal

INSECT SPECIES	LIFE STAGE (ELPA)	EVALUATION	DIST.	THRESHOLD	COMMENTS
Corn Borer	larvae	% plants affected			
Armyworm	larvae	% plants affected			
W.C.Rootworm	adults	Beetles/plant			
C. Ear Worm	larvae	% ears affected			
Spider Mites		% plants affected			

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						
LB Leaf Blight						
Rust						

Comments: overall good weed control - Scattered mostly in row.

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CORN INSECT AND DISEASE REPORT

Grower MSU -

Field(s) Irrigation study - Irrigated

Black-layer

Date 9/24/2020 Crop Stage _____ Plant Height _____

Soil Moisture 65 0-12" 70/75 12+" _____ %AWC

VT _____ Leaves Silk _____ % Pollination _____ 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

Uniformity _____

General Appearance _____

Leaf Color _____

Nitrogen ok

Deficiency _____

Air Temperature

Plant Temperature Normal

INSECT SPECIES	LIFE STAGE (ELPA)	EVALUATION	DIST.	THRESHOLD	COMMENTS
Corn Borer	larvae	% plants affected			
Armyworm	larvae	% plants affected			
W.C.Rootworm	adults	Beetles/plant			
C. Ear Worm	larvae	% ears affected			
Spider Mites		% plants affected			

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						
LB Leaf Blight						
Rust						

Comments:

Good looking Corn — dry down —

Better than non-irrigated both in

plant size and ear size.

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CORN INSECT AND DISEASE REPORT

Grower _____

Field(s) Irrigation study – Non-Irrigated

Date 7/24/2020 Crop Stage Black layer Plant Height _____

Soil Moisture 60/65 0-12" 65 12+" _____ %AWC

VT _____ Leaves Silk _____ % Pollination _____ 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

Uniformity _____

General Appearance _____

Leaf Color ok

Nitrogen _____

Deficiency _____

Air Temperature

Plant Temperature Normal

INSECT SPECIES	LIFE STAGE (ELPA)	EVALUATION	DIST.	THRESHOLD	COMMENTS
Corn Borer	larvae	% plants affected			
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W.C.Rootworm	adults	Beetles/plant			
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Spider Mites		% plants affected			

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						
LB Leaf Blight						
Rust						

Comments: