

BioEnt Agricultural Consulting

WHEAT INSECT AND DISEASE REPORT

Observation Date 7/12/2019 Crop Stage dry down Plant Height _____

Ave.(n=5) Stand Count T125 Grower msy Soil Moisture ok

Field Name _____ Time _____ Temp. _____

Weather — Sun PC Cloudy Wind Speed — H M L N

INSECT SPECIES	EVALUATION	DIST. (S-G)	LEVEL (LMH)	THRESHOLD	
				actual B/N/A	proj. <>
Armyworm	% plts affected				
Grain Aphids	% plts affected				
Cereal Leaf Beetle (Adults)	% plts affected				
Grasshoppers	% plts affected				
Spider Mites	% plts affected				
Other					
Other					

DISEASES	PLT/PART Affected (sampled)	GR. REGION Affected (range)	EVALUATION % Plts. Aff. 20X5	THRESHOLD B/N/A	DIST. G/S/L
Septoria Leaf Blotch					
Powdery Mildew					
Rust					
Root Infections					
Septoria Glume Blotch					
Scab (Fusarium)					
Barley Yellow Dwarf Virus					
Spindle Streak Virus					
Other					
Other					

Comments:
Close to harvest / mature

BioEnt Agricultural Consulting

WHEAT INSECT AND DISEASE REPORT

Observation Date 7 / 12 2019 Crop Stage dry down Plant Height _____
 Ave.(n=5) Stand Count T225 Grower MSU Soil Moisture good
 Field Name _____ Time _____ Temp. _____

Weather — Sun PC Cloudy Wind Speed — H M L N

INSECT SPECIES	EVALUATION	DIST. (S-G)	LEVEL (LMH)	THRESHOLD	
				actual B/N/A	proj. <>
Armyworm	% plts affected			/	
Grain Aphids	% plts affected				
Cereal Leaf Beetle (Adults)	% plts affected				
Grasshoppers	% plts affected				
Spider Mites	% plts affected				
Other					
Other					

DISEASES	PLT/PART Affected (sampled)	GR. REGION Affected (range)	EVALUATION % Plts. Aff. 20X5	THRESHOLD B/N/A	DIST. G/S/L
Septoria Leaf Blotch				/	
Powdery Mildew					
Rust					
Root Infections					
Septoria Glume Blotch					
Scab (Fusarium)					
Barley Yellow Dwarf Virus					
Spindle Streak Virus					
Other					
Other					

Comments:

Close to harvest / mature

BioEnt Agricultural Consulting

WHEAT INSECT AND DISEASE REPORT

Observation Date 7 / 12 / 2019 Crop Stage maturing ^{dry down} Plant Height _____

Ave.(n=5) Stand Count T3R5 Grower msy Soil Moisture _____

Field Name _____ Time _____ Temp. _____

Weather - Sun PC Cloudy Wind Speed - H M L N

INSECT SPECIES	EVALUATION	DIST. (S-G)	LEVEL (LMH)	THRESHOLD	
				actual B/N/A	proj. <>
Armyworm	% plts affected				
Grain Aphids	% plts affected				
Cereal Leaf Beetle (Adults)	% plts affected				
Grasshoppers	% plts affected				
Spider Mites	% plts affected				
Other					
Other					

DISEASES	PLT/PART Affected (sampled)	GR. REGION Affected (range)	EVALUATION % Plts. Aff. 20X5	THRESHOLD B/N/A	DIST. G/S/L
Septoria Leaf Blotch					
Powdery Mildew					
Rust					
Root Infections					
Septoria Glume Blotch					
Scab (Fusarium)					
Barley Yellow Dwarf Virus					
Spindle Streak Virus					
Other					
Other					

Comments:
close to harvest / mature

BioEnt Agricultural Consulting

WHEAT INSECT AND DISEASE REPORT

Observation Date 7/12/2019 Crop Stage dry down Plant Height

Ave.(n=5) Stand Count T4R5 Grower M54 Soil Moisture

Field Name Time Temp.

Weather — Sun PC Cloudy Wind Speed — H M L N

INSECT SPECIES	EVALUATION	DIST. (S-G)	LEVEL (LMH)	THRESHOLD	
				actual B/N/A	proj. <>
Armyworm	% plts affected				
Grain Aphids	% plts affected				
Cereal Leaf Beetle (Adults)	% plts affected				
Grasshoppers	% plts affected				
Spider Mites	% plts affected				
Other					
Other					

DISEASES	PLT/PART Affected (sampled)	GR. REGION Affected (range)	EVALUATION % Plts. Aff. 20X5	THRESHOLD B/N/A	DIST. G/S/L
Septoria Leaf Blotch					
Powdery Mildew					
Rust					
Root Infections					
Septoria Glume Blotch					
Scab (Fusarium)					
Barley Yellow Dwarf Virus					
Spindle Streak Virus					
Other					
Other					

Comments:
Close to harvest / mature
Ragweed Common - Close to wheat height
Dogbane Scattered

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

Seed Corn Corn Soybeans Wheat Green Beans *Switch* Date 7/12/2019
 Field Name/Number TGRs Grower _____ Growth Stage VE
 General Appearance OK Size VE Variance _____ Leaf Color VE Variance _____
 Plant Population VE Soil Moisture 0-12 70 12-24 70/75 24+ _____ %AWC

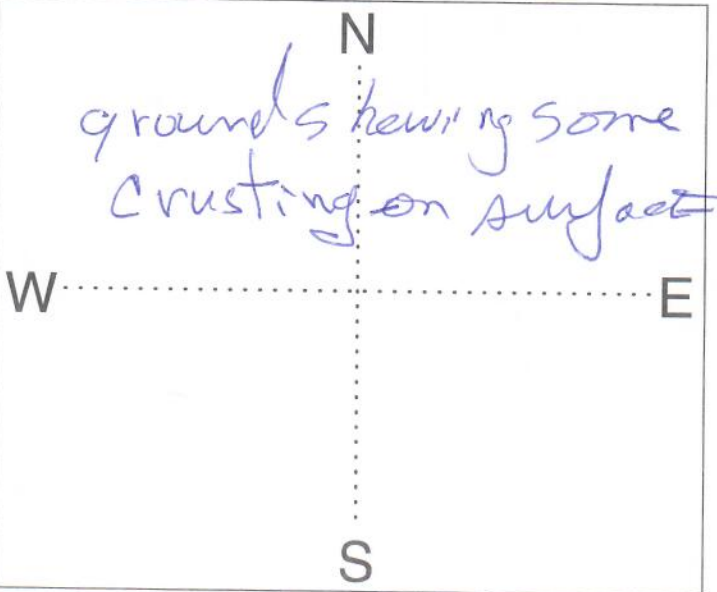
Vigor: Good OK Poor General Spotty
Stress: Heat Moisture Nitrogen General Spotty
Stress-Chlorophyll: None Low High General Spotty
Weed Control: Good OK Poor Spotty Dense Spots
 Grasses Broadleaves Perennials

ACTION:
 None Required *OK*
 Watch
 Yes, see comments

Comments:
emerged V1/V1+

Weed control good - scattered annual grasses - Perennials common.

- | | |
|--|--|
| <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"/> Marestail MT | <input type="checkbox"/> Smart -Swamp SSM |
| <input type="checkbox"/> Crabgrass CG | <input type="checkbox"/> Dogbane -Hemp HDB |
| <input type="checkbox"/> Johnsongrass JG | <input type="checkbox"/> Lambsquarter LQU |
| <input type="checkbox"/> Shattercane 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 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 Active Variance OK
 Soil Temperature _____ 2"

- | | | |
|--|--|---|
| <input type="checkbox"/> Cutworms CW | <input type="checkbox"/> White Grubs WG | <input type="checkbox"/> Seed Corn Maggots |
| <input type="checkbox"/> Armyworms AW | <input type="checkbox"/> Flea Beetles FB | <input type="checkbox"/> Foliar Disease-Rust |
| <input type="checkbox"/> Stalkborers SB | <input type="checkbox"/> Aphids A | <input type="checkbox"/> Foliar Disease-Fungi |
| <input type="checkbox"/> Wireworms WW | <input type="checkbox"/> Slugs S | <input type="checkbox"/> Corn Borer-% _____ |
| <input type="checkbox"/> Spider Mites SM | <input type="checkbox"/> Leafhoppers LH | <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 |

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WHEAT INSECT AND DISEASE REPORT

Irrigated

N₂ study

Observation Date 7 / 12 2019 Crop Stage _____ Plant Height _____

Ave.(n=5) Stand Count _____ Grower MSU Soil Moisture _____

Field Name %AWC 0-12 75/80 12' 80' Time _____ Temp. _____

Weather — Sun PC Cloudy Wind Speed — H M L N

INSECT SPECIES	EVALUATION	DIST. (S-G)	LEVEL (LMH)	THRESHOLD	
				actual B/N/A	proj. <>
Armyworm	% plts affected				
Grain Aphids	% plts affected				
Cereal Leaf Beetle (Adults)	% plts affected				
Grasshoppers	% plts affected				
Spider Mites	% plts affected				
Other					
Other					

DISEASES	PLT/PART Affected (sampled)	GR. REGION Affected (range)	EVALUATION % Plts. Aff. 20X5	THRESHOLD B/N/A	DIST. G/S/L
Septoria Leaf Blotch					
Powdery Mildew					
Rust					
Root Infections					
Septoria Glume Blotch					
Scab (Fusarium)					
Barley Yellow Dwarf Virus					
Spindle Streak Virus					
Other					
Other					

Comments:

Close to harvest

No NEED for any irrigation.

good moisture to finish

BioEnt Agricultural Consulting

WHEAT INSECT AND DISEASE REPORT

non-irrigated study

Observation Date 7 / 12 / 2019 Crop Stage _____ Plant Height _____

Ave. (n=5) Stand Count _____ Grower MSU Soil Moisture _____

Field Name 1/2 AWC 0-12" 70% - 12" + 70-75% Time _____ Temp. _____

Weather - Sun PC Cloudy Wind Speed - H M L N

INSECT SPECIES	EVALUATION	DIST. (S-G)	LEVEL (LMH)	THRESHOLD	
				actual B/N/A	proj. <>
Armyworm	% plts affected				
Grain Aphids	% plts affected				
Cereal Leaf Beetle (Adults)	% plts affected				
Grasshoppers	% plts affected				
Spider Mites	% plts affected				
Other					
Other					

DISEASES	PLT/PART Affected (sampled)	GR. REGION Affected (range)	EVALUATION % Plts. Aff. 20X5	THRESHOLD B/N/A	DIST. G/S/L
Powdery Mildew					
Rust					
Root Infections					
Septoria Glume Blotch					
Scab (Fusarium)					
Barley Yellow Dwarf Virus					
Spindle Streak Virus					
Other					
Other					

Comments:
*@lose to harvest.
 good moisture to finish.*