BioEnt Agricultural Consulting

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

BEAN INSECT AND DISEASE REPORT

Date 8/30/2018

Grower MSU

Field(s) T1 R3

Crop Stage R6 Plant Height 2-3'

Soil Moisture 0-6" 70 6-12"+ 70 %AWC

ACTION

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

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

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

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

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

[ ] Grasses [ ] Broadleaves [ ] Perennials

Uniformity good

General Appearance good

Leaf Color good

Deficiency ok

Total Leaf Damage low %

Round-up Seed [ ] Yes [ ] No

INSECT SPECIES	LIFE STAGE (ELPA)	EVALUATION	DIST. (S-G)	THRESHOLD	COMMENTS
Worms - misc	larvae	% plts affected			
[x] Japanese Beetle	adults	% leaf damage			
Potato Leafhopper	nymphs	# per leaf			
Spider Mites	nymphs	% plants affected			
[x] Aphids	adults/nymphs	low # per plant levels.			
Aphids	Alatoid nymphs	% population			
Aphids	Winged adults	% population			
Other Stink Bugs	larvae adult	low -			
Other	larvae adult				
[x] Natural Enemies	Ladybird Beetles L M H				

DISEASES	PLT/PART Affected (sampled)	Region AFFECTED (range)	EVALUATION % Plts. Aff.	THRESHOLD	DIST. G/S	COMMENTS
[x] Downy Mildew						
White Mold						ok.
[x] Common Blight						
SDS						
Charcoal Rot						
Other						
Other						

Comments: dryer parts of field starting to yellow - mature

Rev 02-01-12

BioEnt Agricultural Consulting

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

BEAN INSECT AND DISEASE REPORT

Date 8/30/2018

Grower MSU

Field(s) T2R3

Crop Stage R4 Plant Height 2-3'

Soil Moisture 0-6" 70 6-12"+ 70 %AWC

ACTION

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

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

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

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

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

[ ] Grasses [ ] Broadleaves [ ] Perennials

Uniformity good

General Appearance good

Leaf Color good

Deficiency none

Total Leaf Damage low %

Round-up Seed [x] Yes [ ] No

INSECT SPECIES	LIFE STAGE (ELPA)	EVALUATION	DIST. (S-G)	THRESHOLD	COMMENTS
Worms - misc	larvae	% plts affected			
Japanese Beetle	adults	% leaf damage			
Potato Leafhopper	nymphs	# per leaf			
Spider Mites	nymphs	% plants affected			
Aphids	adults/nymphs	low # per plant			
Aphids	Alatoid nymphs	% population			
Aphids	Winged adults	% population			
Other	larvae adult				
Other	larvae adult				
Natural Enemies	Ladybird Beetles	M H			

DISEASES	PLT/PART Affected (sampled)	Region AFFECTED (range)	EVALUATION % Plts. Aff.	THRESHOLD	DIST. G/S	COMMENTS
Downy Mildew						
White Mold						Ok
Common Blight						
SDS						
Charcoal Rot						
Other						
Other						

Comments:

Rev 02-01-12

BioEnt Agricultural Consulting

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

BEAN INSECT AND DISEASE REPORT

Date 8/30/2018

Grower MSU

Field(s) 4 3 R 3

Crop Stage _____ Plant Height 2-3'

Soil Moisture 0-6" 70 6-12"+ 70 %AWC

ACTION

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

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

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

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

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

[ ] Grasses [ ] Broadleaves [ ] Perennials

Uniformity good

General Appearance good

Leaf Color good

Deficiency none

Total Leaf Damage _____ %

Round-up Seed [ ] Yes [ ] No

INSECT SPECIES	LIFE STAGE (ELPA)	EVALUATION	DIST. (S-G)	THRESHOLD	COMMENTS
Worms - misc	larvae	% plts affected			
[x] Japanese Beetle	adults	% leaf damage			
Potato Leafhopper	nymphs	# per leaf			
Spider Mites	nymphs	% plants affected			
[x] Aphids	~~adults/nymphs~~	low # per plant			
Aphids	Alatoid nymphs	% population			
Aphids	Winged adults	% population			
Other Stink Bug	larvae adult				
Other	larvae adult				
Natural Enemies	lady Beetles	L M H			

DISEASES	PLT/PART Affected (sampled)	Region AFFECTED (range)	EVALUATION % Plts. Aff.	THRESHOLD	DIST. G/S	COMMENTS
[x] Downy Mildew						
White Mold						
[x] Common Blight						ok.
SDS						
Charcoal Rot						
Other						
Other						

Comments: Stand has filled in & canopy looks good. Early season plant stand ~~dd~~ was not so good.

Rev 02-01-12

BioEnt Agricultural Consulting

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

BEAN INSECT AND DISEASE REPORT

Date 8/30/2018

Grower MSU

Field(s) T4R3

Crop Stage R5 Plant Height 3/3'+ T04'

Soil Moisture 0-6" 70 6-12"+ 70 %AWC

ACTION

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

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

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

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

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

[x] Grasses [x] Broadleaves [ ] Perennials

Uniformity good

General Appearance good

Leaf Color good

Deficiency none

Total Leaf Damage low %

Round-up Seed [ ] Yes [ ] No

INSECT SPECIES	LIFE STAGE (ELPA)	EVALUATION	DIST. (S-G)	THRESHOLD	COMMENTS
Worms - misc	larvae	% plts affected			
Japanese Beetle	adults	% leaf damage			
Potato Leafhopper	nymphs	# per leaf			
Spider Mites	nymphs	% plants affected			
Aphids	adults/nymphs	low # per plant			
Aphids	Alatoid nymphs	% population			
Aphids	Winged adults	% population			
Other Stink bugs	larvae adult		Scattered.		
Other	larvae adult				
Natural Enemies Ladybird beetles	L M H				

DISEASES	PLT/PART Affected (sampled)	Region AFFECTED (range)	EVALUATION % Plts. Aff.	THRESHOLD	DIST. G/S	COMMENTS
Downy Mildew						
White Mold						
Common Blight						
SDS						
Charcoal Rot						
Other						
Other						

Comments: Weed Control good, Scattered Foxtail/Velvetleaf/Ragweed

Rev 02-01-12

BioEnt – Early Season Survey

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

☐Seed Corn ☐Corn ☐Soybeans ☐Wheat ☐Green Beans Alfalfa Plot Date 8/30/2018

Field Name/Number T6R3 Grower MSU (Switchgrass) Growth Stage _____

General Appearance _____ Size _____ Variance _____ Leaf Color _____ Variance _____

Plant Population _____ Soil Moisture 0-12 _____ 12-24 _____ 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:

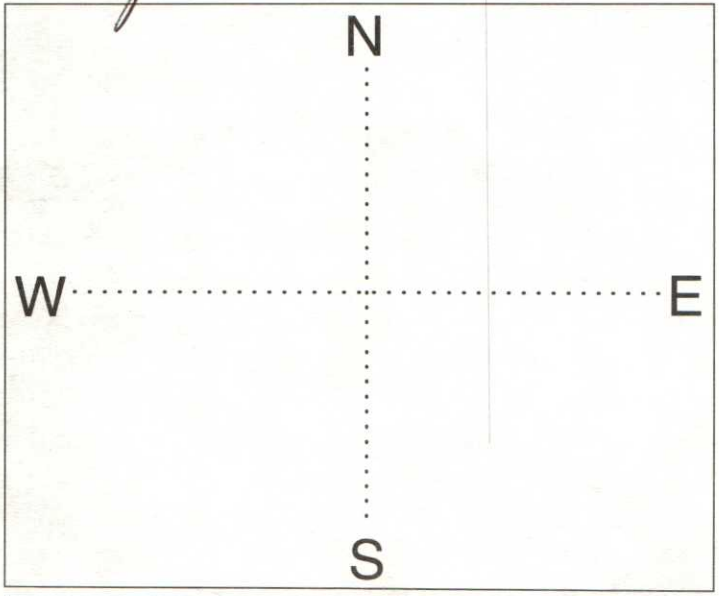
☐ None Required
☐ Watch
☐ Yes, see comments

ok

Comments:

grasses general
Scattered misc weeds
bare spots common.
Control annual weeds
Prior planting switchgrass

☐ Annual Grasses AG
☐ Foxtail F
☐ Panicum -Fall FP
☐ Quack grass QG
☐ Wirestem Muhly WM
☐ Marestail MT
☐ Crabgrass CG
☐ Johnsongrass JG
☐ Shatercane 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
☐ Lambsquarter LQU
☐ Ragweed CRAG
☐ Ragweed -Giant GRAG
☐ Dock -Curly CD
☐ Nightshade -Black BNS
☐ Jimsonweed JW
☐ Canada Thistle CTH
☐ Yellow Rocket YR
☐ Perennials P
☐ 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 _____ Variance _____
☐ Plant spacing _____ Variance _____
☐ Emergence _____ Variance _____
☐ Soil Temperature _____ 2"

☐ 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

☐ Root Damage ☐ Plants
☐ Insects ☐ Purplish
☐ Diseases ☐ Yellowish
☐ Nematodes ☐ Stunting

BioEnt Agricultural Consulting

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

BEAN INSECT AND DISEASE REPORT

Date 8/30/2018 Irrigated plots

Grower MSU

Field(s) _____

Crop Stage R6 Pod fill Plant Height 3-4'

Soil Moisture 0-6" 80 6-12"+ 80 %AWC

ACTION

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

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

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

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

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

[ ] Grasses [ ] Broadleaves [ ] Perennials

Uniformity good

General Appearance good

Leaf Color good

Deficiency none

Total Leaf Damage low %

Round-up Seed [x] Yes [ ] No

INSECT SPECIES	LIFE STAGE (ELPA)	EVALUATION	DIST. (S-G)	THRESHOLD	COMMENTS
Worms - misc	larvae	% plts affected			
Japanese Beetle	adults	% leaf damage		Ok	
Potato Leafhopper	nymphs	# per leaf			
Spider Mites	nymphs	% plants affected			
Aphids	adults/nymphs	low # per plant	few scattered only.		
Aphids	Alatoid nymphs	% population			
Aphids	Winged adults	% population			
Other Stink Bug	larvae adult	Scattered about -			
Other Grasshopper	larvae adult				
Natural Enemies	Ladybird Beetles	M H			

DISEASES	PLT/PART Affected (sampled)	Region AFFECTED (range)	EVALUATION % Plts. Aff.	THRESHOLD	DIST. G/S	COMMENTS
Downy Mildew	general					
White Mold						Ok.
Common Blight	general					
SDS						
Charcoal Rot						
Other						
Other						

Comments: Color/growth good.

BioEnt Agricultural Consulting

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

BEAN INSECT AND DISEASE REPORT

Date 8/30/2018 non-Irrigated plots

Grower MSU

Field(s) _____

Crop Stage R6 Pod fill Plant Height 3'

Soil Moisture 0-6" 70 6-12"+ 70 %AWC

ACTION

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

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

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

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

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

[ ] Grasses [ ] Broadleaves [ ] Perennials

Uniformity good

General Appearance good

Leaf Color good

Deficiency ok

Total Leaf Damage low %

Round-up Seed [x] Yes [ ] No

INSECT SPECIES	LIFE STAGE (ELPA)	EVALUATION	DIST. (S-G)	THRESHOLD	COMMENTS
Worms - misc	larvae	% plts affected			
X Japanese Beetle	adults	% leaf damage			
Potato Leafhopper	nymphs	# per leaf			
X Spider Mites	nymphs	% plants affected			
X Aphids	adults/nymphs	# per plant			
Aphids	Alatoid nymphs	% population			
Aphids	Winged adults	% population			
Other Tarnished Plant Bug	larvae (adult)	Scattered	about		
Other Grasshoppers	larvae (adult)	Scattered			
X Natural Enemies	Ladybird beetles - L M H				

DISEASES	PLT/PART Affected (sampled)	Region AFFECTED (range)	EVALUATION % Plts. Aff.	THRESHOLD	DIST. G/S	COMMENTS
X Downy Mildew	general					
White Mold						ok
X Common Blight	general					
SDS						
Charcoal Rot						
Other						
Other						

Comments: