BioEnt – Early Season Survey	Gary Manley 269-273-7070 or 269-816-1080
Seed Corn Corn Soybeans Wheat Field Name/Number	Grower MSU Date 6 / 5 20124 Growth Stage
General Appearance 9000 Size 0 Variance	Leaf Color Of Variance Of
Plant Population 7 9 7 7 7 Soil Moisture 0-12	12+ 75 %AWC
Vigor: Good OK Poor General Stress: Heat Moisture Nitrogen General Stress-Chlorophyll: None Low High General Weed Control: Good OK Poor Spotty Degrasses Broadleaves Perennia	Spotty Spotty Spotty ense Spots als None Required Watch Yes, see comments Pigweed RRP
1,2 27 29 29 3/23 ACME V4/5 5-7' Pango	Foxtail F Panicum -Fall FP Quack grass QG Wirestem Muhly WM Field Sandbur FS Crabgrass CG Horsenettle HN Bindweed -Field FBW Smartweed -Penn. PSM Smart -Swamp SSM Dogbane -Hemp HDB
good was control	Johnsongrass JG □ Lambsquarter LQU Shatercane SCA □ Ragweed CRAG Nutsedge NS □ Ragweed -Giant GRAG Winter Annuals WA □ Dock -Curly CD Chickweed CW □ Nightshade -Black BNS Biannuals WB □ Jimsonweed JW Cover Crop CC □ Canada Thistle CTH
	J Velvetleaf VL ☐ Yellow Rocket YR Cocklebur CBUR ☐ Perennials P Milkweed CM ☐ Pokeweed PW
NE	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 Variance Growth Variance Plant spacing Variance Soil Temperature Spots General Variance Variance Variance Variance Soil Temperature 2"
☐ Armyworms ☐ Flea Beetles ☐ Foliar Dis ☐ Stalkborers ☐ Aphids ☐ Foliar Dis ☐ Wireworms ☐ Slugs ☐ Corn Born	Nometodee
Spider mites Leafhoppers Stunted	Dlants Nematodes Stunting

BIOEnt - Early Season Surve	y Gary Manley 269-273-7070 or 269-816-1080
Seed Corn Corn Soybeans Wheat Field Name/Number 72 P 2 General Appearance Size Varian	Growth Stage VS/C Leaf Color O Variance O Variance
Plant Population Soil Moisture 0-1	2 75 12+ 80 %AWC
Stress: Heat Moisture Nitrogen General Stress-Chlorophyll: None Low High General Weed Control: Good OK Poor Spotty Grasses Broadleaves Perer Comments:	ral □Spotty □ Watch □ Yes, see comments
Planted Weny 10-2014 Plant populations 30 32 30 29 30 32 30,500 ACPG U5/6 10-121 Range	Foxtail F Panicum -Fall FP Quack grass QG Bindweed -Field FBW Wirestem Muhly WM Smartweed -Penn. PSM Field Sandbur FS Smart -Swamp SSM Crabgrass CG Dogbane -Hemp HDB Johnsongrass JG Lambsquarter LQU Shatercane SCA Ragweed CRAG Nutsedge NS Ragweed -Giant GRAG Winter Annuals WA Chickweed CW Nightshade -Black BNS Biannuals WB
Slugdomage on o Huleary 21% Experhepper Jeeding 21%	Cover Crop CC
Good wered Control	□ 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
WE	Physiological Disorder in Corn Buggywip Stalk bending Twisted whorl Doubles
Armyworms Flea Beetles Foliar Stalkborers Aphids Foliar Wireworms Slugs Corn	Corn Maggots Disease-Rust Disease-Fungi Borer-% ed plants Root Damage Plants Purplish Diseases Yellowish Nematodes Stunting

BIOEIII - Early Season Surve	y Gary Manley 269-273-7070 or 269-816-1080
Seed Corn Corn Soybeans Wheat General Appearance Size Variant Plant Population Soil Moisture 0-1	Growth Stage UZ
Vigor: Good OK Poor General Ragward - VE - Scattled.	Pral Spotty Watch Dense Spots Yes, see comments
NE	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 Wariance Growth Variance Plant spacing Variance Soil Temperature 2"
Armyworms Flea Beetles Foliar Stalkborers Aphids Foliar Wireworms Slugs Corn	Corn Maggots Disease-Rust Disease-Fungi Borer-%ed plants Root Damage Plants Purplish Diseases Yellowish Nematodes Stunting

BIOEnt - Early Season Surve	- (
☐ Seed Corn ☐ Corn ☐ Soybeans ☐ Wheat ☐ _	Grower MSU Date 0/5 2014
Field Name/Number 74 2 2	Growth Stage
General Appearance Size Varian	ice Lear Color variance
Plant Population Soil Moisture 0-1	2 70 12+ 75 %AWC
Stress:	Pral Spotty Watch Dense Spots Innials
	 ☐ Annual Grasses AG ☐ Foxtail F ☐ Panicum -Fall FP ☐ Bindweed -Field FBW
may 31 planting	Quack grass QG Bindweed -Hedge HBW
may 31 planted (early SpikE) 5-10%	☐ Wirestem Muhly WM ☐ Smartweed -Penn. PSM ☐ Field Sandbur FS ☐ Smart -Swamp SSM
	☐ Crabgrass CG ☐ Dogbane -Hemp HDB ☐ Johnsongrass JG ☐ Lambsquarter LQU
5-100	Shatercane SCA Ragweed CRAG
	☐ Nutsedge NS ☐ Ragweed -Giant GRAG
Conditions good of emigenes	☐ Winter Annuals WA ☐ Dock -Curly CD
WEED free	☐ Chickweed CW ☐ Nightshade -Black BNS ☐ Biannuals WB ☐ Jimsonweed JW
1 /	☐ Biannuals WB ☐ Jimsonweed JW ☐ Cover Crop CC ☐ Canada Thistle CTH
Pringletions Stred or	☐ Velvetleaf VL ☐ Yellow Rocket YR
(oncontrolled)	Cocklebur CBUR Perennials P
emigenes	☐ Milkweed CM ☐ Pokeweed PW
N	Germination No 1/4" Root Spike PE
IN:	☐ Emergence ☐ Breaking ☐ VC / V1
	Nutrient Deficiency Spots General
:	Soil Compaction: Soil Surface:
	Ospots Ogeneral OHard Ocrusted ☐ Standing Water ☐ Small Spots ☐ Large Spots
	Herbicide damage Emergence stress
\\/	Physiological Disorder in Corn Yellowish whorl
VV : -	Buggywip Stalk bending Twisted whorl
i i	Doubles%
	Density Variance
i :	Growth Variance
i :	Plant spacing Variance
S	Emergence Variance
0	Soil Temperature2"
	Corn Maggots Root Damage Plants
	Disease-Rust Insects Purplish
	Disease-Fungi Diseases Yellowish
	Borer-% Nematodes Stunting
	Rev 02-01-12

BioEnt – Early Season Survey Gary Manley 269-273-7070 or 269-816-1080	
Seed Corn Corn Sovbeans Wheat Field Name/Number	Grower mod Date 0/5 201 4 Ala Sq Growth Stage
General Appearance Size Varia	ance Leaf Color Variance
Plant Population Soil Moisture 0-	-12
	☐ Dense Spots ☐ Yes, see comments
Cut last 6 day ago Looks ob may 30 moisture levels ob	Annual Grasses AG Pigweed RRP Foxtail F Horsenettle HN Panicum -Fall FP Bindweed -Field FBW Quack grass QG Bindweed -Hedge HBW Wirestem Muhly WM Smartweed -Penn. PSM Field Sandbur FS Smart -Swamp SSM Crabgrass CG Dogbane -Hemp HDB Johnsongrass JG Lambsquarter LQU Shatercane SCA Ragweed CRAG Nutsedge NS Ragweed -Giant GRAG Winter Annuals WA Dock -Curly CD Chickweed CW Nightshade -Black BNS Biannuals WB Jimsonweed JW Cover Crop CC Canada Thistle CTH Velvetleaf VL Yellow Rocket YR Cocklebur CBUR Perennials P Milkweed CM Pokeweed PW
NE	Germination No ☐ 1/4" Root ☐ Spike PE Emergence Breaking ☐ VC / V1 Nutrient Deficiency ☐ Spots ☐ General ☐ General ☐ 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"
Armyworms	d Corn Maggots Ir Disease-Rust Ir Disease-Fungi In Borer-% Ited plants ☐ Root Damage ☐ Plants ☐ Purplish ☐ Diseases ☐ Yellowish ☐ Nematodes ☐ Stunting

BIOEnt - Early Season Surve	y Gary Manley	269-273-7070 or 269-816-1080
Seed Corn Corn Soybeans Wheat	Grower_	MSU Date 6 / 5 2014
Field Name/Number 1 Rate - Irr		Growth Stage
General Appearance 6 Size Varia		
	~	$-\alpha$
Plant Population Soil Moisture 0-	12 75	12+%AWC
Vigor: Good OK Poor General Ge	eral Spotty eral Spotty Dense Spots	CTION: None Required Watch Yes, see comments
Comments:		AC Discussed BBB
Ivrigated Plant popular	addon grado at	Horsenettle HN Bindweed -Field FBW Bindweed -Hedge HBW
37 33 37 38 43	☐ Wirestem Muhly Field Sandbur F ☐ Crabgrass CG	
37 35 38 27 750 DE N3/4 4-5" Range	Johnsongrass Johnstercane SC	G Lambsquarter LQU A Ragweed CRAG
13/4 4-5 Raye	Nutsedge NS Winter Annuals Chickweed CW	☐ Ragweed -Giant GRAG WA ☐ Dock -Curly CD ☐ Nightshade -Black BNS
good weed control	Biannuals WB Cover Crop CC	
7000 WEED (0 11 (10)	☐ Velvetleaf VL☐ Cocklebur CBU☐ Milkweed CM☐	Yellow Rocket YR Perennials P Pokeweed PW
N	Germination	
IN .	Emergence	☐ Breaking ☐ VC / V1
	☐ Nutrient Defi	
i :	Spots C	
:	Standing Wa	
	Herbicide da	
WE	Physiologica	Il Disorder in Corn Yellowish whorl
_	Buggywip	Stalk bending Twisted whorl
	Doubles	%
	Density D	
:		Variance K
:		g Variance
S	Soil Tempera	Variance ature 2"
Cutworms White Grubs Seed	Corn Maggots	Root Damage Plants
	Disease-Rust	☐ Insects ☐ Purplish
	Disease-Fungi	☐ Diseases ☐ Yellowish
	Borer-%	
☐ Spider mites ☐ Leafhoppers ☐ Stunt	ed plants	☐ Nematodes ☐ Stunting

BioEnt - Early Season Surve	ey Gary Manley 269-273-7070 or 269-816-1080
☐ Seed Corn ☐ Corn ☐ Soybeans ☐, Wheat ☐	. , /
	n Fry Sated Growth Stage
General Appearance OK Size OK Varia	ance Ok Leaf Color Ok Variance Ok
Plant Population Soil Moisture 0-	-12 73 12+ 78 %AWC
Stress: Heat Moisture Nitrogen Gerstress-Chlorophyll: None Low High Gerweed Control: Good OK Poor Spotty Grasses Broadleaves Percentage	meral Spotty Watch Dense Spots Yes, see comments
Comments: July Plant Population 30,823ACDG 30,823ACDG	Annual Grasses AG Foxtail F Panicum -Fall FP Quack grass QG Wirestem Muhly WM Field Sandbur FS Crabgrass CG Johnsongrass JG Pigweed RRP Horsenettle HN Bindweed -Field FBW Bindweed -Hedge HBW Smartweed -Penn. PSM Smart -Swamp SSM Dogbane -Hemp HDB Lambsquarter LQU
17/4 4-5' Range 7000/ WEED Control	Shatercane SCA Ragweed CRAG Nutsedge NS Ragweed -Giant GRAG Winter Annuals WA Dock -Curly CD Chickweed CW Nightshade -Black BNS Biannuals WB Jimsonweed JW Cover Crop CC Canada Thistle CTH Velvetleaf VL Yellow Rocket YR Cocklebur CBUR Perennials P Milkweed CM Pokeweed PW
910 32 30 29 31 35 31 W 31,322 E	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
S	Buggywip Stalk bending Twisted whorl Doubles Variance Growth Variance Variance Plant spacing Variance Emergence Variance Soil Temperature 2"
Armyworms Flea Beetles Folia Stalkborers Aphids Folia Wireworms Slugs Corr	d Corn Maggots ar Disease-Rust ar Disease-Fungi n Borer-% oted plants ☐ Root Damage ☐ Plants ☐ Insects ☐ Purplish ☐ Diseases ☐ Yellowish ☐ Nematodes ☐ Stunting