



Report Date: 5/1/2025

Customer Information			
Name:		Grower Name:	
Address:		Field ID:	
Phone:		Crop Type:	
Bill To:		Crop Variety:	N/A

Sample ID	Field 1	
Microbe Populations		
Number of Genera	2,565	
Diversity	100%	Very High
Evenness	15%	Very Low
Mycorrhizae Abundance	76%	High
Fungi to Bacteria Ratio	1 to 2.14	
Ectomycorrhizal to Arbuscular Ratio	3.41 to 1	

Crop Functions of Interest		
Anoxic Environment	61%	High
High Oxygen Environment	31%	Low
Low Oxygen Environment	33%	Low
Carbon Fixation	54%	Medium
Organic Carbon Breakdown	40%	Medium
Methanogenesis	44%	Medium
Denitrification	88%	Very High
Nitrification	51%	Medium
Nitrogen Fixation	29%	Low
Organic Nitrogen Breakdown	46%	Medium
Phosphorus Mobilization	58%	Medium
Potassium Solubilization	46%	Medium
Nodulating Bacteria	45%	Medium
Sulfur Oxidation	58%	Medium
Sulfur Reduction	75%	High
Calcium Transport	72%	High
Iron Acquisition	44%	Medium
Plant Stress Adaptation	50%	Medium

Community structure and function ratings were calculated by comparing the relative abundance of species or genes in the rhizosphere to a large data set of other agricultural samples to generate a percentile, which represents the value in a normal distribution that has a specific percentage of observations below it. For research purposes only, the information in this report is not advice, and should not be treated as such. No part of this report may be reproduced without permission in writing from RhizeBio.

Contact RhizeBio:

Phone: 919-351-2038



Report Date: 5/1/2025

Customer Information					
Name:		Grower Name:			
Address:		Field ID:			
Phone:		Crop Type:			
Bill To:		Crop Variety:	N/A		
Sample ID		Field 1			
Taxonomic Profile					
Top 20 Bacterial Genera		Top 20 Fungal Genera			
Pseudomonas	9.50%	AE	Fusarium	4.1%	F
Streptomyces	8.04%	AE	Penicillium	0.7%	AE
Pantoea	6.16%	F	Aspergillus	0.6%	AE
Enterobacter	5.05%	AE	Cladosporium	0.6%	
Nocardioides	4.85%	OA	Alternaria	0.5%	
Arthrobacter	3.98%	OA	Furcasterigmum	0.3%	
Bradyrhizobium	2.98%	AE	Solicoccozyma	0.3%	
Rhodococcus	2.52%	AE	Clonostachys	0.2%	
Salmonella	2.21%	F	Epicoccum	0.2%	
Microbacterium	1.57%	AE	Mucor	0.2%	
Mesorhizobium	1.21%	OA	Microdochium	0.1%	
Mycobacterium	1.11%	AE	Trichoderma	0.1%	AE
Pseudarthrobacter	1.01%	AE	Acremonium	0.1%	
Variovorax	0.99%	AE	Graphiopsis	0.1%	
Curtobacterium	0.98%	AE	Preussia	0.1%	
Terrabacter	0.96%	OA	Phyllachora	0.1%	
Phycicoccus	0.93%	OA	Pochonia	0.1%	AE
Kribbella	0.90%	OA	Bipolaris	0.1%	
Mycolicibacterium	0.79%		Pleurotus	0.1%	
Rhizobium	0.74%	AE	Purpleocillium	0.1%	F

AE = Aerobic AN = Anaerobic OA = Obligate Aerobic ON = Obligate Anaerobic F = Facultative
MA = Microaerophilic ECM = Ectomycorrhizal Fungi AMF = Arbuscular Mycorrhizal Fungi

Contact RhizeBio:

Phone: 919-351-2038



CUSTOMER INFORMATION

Name:		Grower Name:	
Email		Field ID:	
Phone		Crop Type:	
Bill To:		Crop Variety:	

Sample ID

Field #1

Report Date

4/30/2025

Detected Pathogens

Pathogen Disease and Species	Pathogen Presence Detected	Abundant Pathogen Presence	High Pathogen Pressure	Pathogen Pressure Score
Common Smut <i>Ustilago maydis</i>				125%
Souther Corn Rust <i>Puccinia polysora</i>				101%
Pythium Root Rot <i>Pythium inflatum</i>				91%
Pythium Root Rot <i>Pythium pyriliobum</i>				89%
Pythium Root Rot <i>Pythium torulosum</i>				51%
Graminicola Downy Mildew <i>Sclerospora graminicola</i>				Minimal

Undetected Pathogens

Pathogens not found in the sample or found in such low abundance they can be considered insignificant

CUSTOMER INFORMATION		
Name:		
Email:		
Phone:		
Bill To:		
Field ID:		
Crop Type:		
Crop Variety		
	Sample ID	Field #1
	Report Date	5/1/2025
Top 100 Bacteria Species Identified		
AE = Aerobic AN = Anaerobic OA = Obligate Aerobic ON = Obligate Anaerobic F = Facultative MA = Microaerophilic		
1 Mycobacterium tuberculosis	3.34% AE	51 Afipia carboxidovorans 0.17% AE
2 Arthrobacter sp.	3.30% OA	52 Oerskovia sp. 0.17% AE
3 Parvibaculum sp.	2.91% AE	53 Brevundimonas sp. 0.16% AE
4 Mycobacterium paragordonae	2.35% AE	54 Rhodoplanes sp. 0.16% AE
5 Reyranella sp.	1.66% MA	55 Acidovorax facilis 0.16% AE
6 Bacillus sp.	1.18% AE	56 Pseudolabrys sp. 0.16%
7 Cellulosimicrobium cellulans	1.04% AE	57 Nitrosomonas sp. 0.15% AE
8 Parvibaculum lavamentivorans	1.01% AE	58 Simplicispira lacusdianii 0.15% AE
9 Salmonella enterica	0.94% F	59 Pseudolabrys sp. 0.15%
10 Leucobacter denitrificans	0.90% AE	60 Rhodopseudomonas palustris 0.15% F
11 Pseudomonas aeruginosa	0.80% AE	61 Enhydrobacter sp. 0.15% F
12 Reyranella aquatilis	0.68% MA	62 Devosia sp. 0.15% OA
13 Acinetobacter lwoffii	0.64% AE	63 Oerskovia rustica 0.15% AE
14 Mycolicibacter arupensis	0.62%	64 Hyphomicrobium sp. 0.14% AE
15 Escherichia coli	0.57% F	65 Hydrogenophaga sp. 0.14% AE
16 Hydrogenophaga pseudoflava	0.50% AE	66 Enhydrobacter aerosaccus 0.14% F
17 Neobacillus niaci	0.48%	67 Cellulosimicrobium sp. 0.14% AE
18 Bacillus thuringiensis	0.47% AE	68 Kaistia adipata 0.14% OA
19 Mesorhizobium sp.	0.45% OA	69 Enterobacter hormaechei 0.14% AE
20 Hydrogenophaga sp.	0.45% AE	70 Microbacterium sp. 0.13% AE
21 Klebsiella pneumoniae	0.44% AE	71 Methylibium petroleiphilum 0.13% F
22 Ensifer sp.	0.41% AE	72 Phenylbacterium sp. 0.13% AE
23 Limnobacter sp.	0.41% AE	73 Rhizobium leguminosarum 0.12% AE
24 Metabacillus sp.	0.40%	74 Pseudorhodoplanes sinuspersici 0.12%
25 Cellulosimicrobium sp.	0.38% AE	75 Pseudomonas sp. 0.12% AE
26 Pseudolabrys taiwanensis	0.38%	76 Arthrobacter sp. 0.11% OA
27 Staphylococcus aureus	0.37% AE	77 Erythrobacter sp. 0.10% AE
28 Bosea sp.	0.36% AE	78 Rhodococcus rhodochrous 0.10% AE
29 Mycobacterium gordoneae	0.36% AE	79 Metabacillus halosaccharovorans 0.10%
30 Mycobacterium sp.	0.36% AE	80 Bacillus sp. 0.10% AE
31 Reyranella massiliensis	0.35% MA	81 Phenylbacterium sp. 0.10% AE
32 Aquabacterium sp.	0.35% AE	82 Rhodoplanes serenus 0.10% AE
33 Bradyrhizobium sp.	0.33% AE	83 Achromobacter xylosoxidans 0.10% AE
34 Metabacillus sp.	0.32%	84 Stenotrophomonas maltophilia 0.09% AE
35 Metabacillus idriensis	0.31%	85 Acidovorax sp. 0.09% AE
36 Bradyrhizobium japonicum	0.30% AE	86 Acidovorax sp. 0.09% AE
37 Acinetobacter baumannii	0.29% AE	87 Pseudoseomonas aerophila 0.09%
38 Microbacterium sp.	0.26% AE	88 Mycobacterium paraintracellularare 0.09% AE
39 Limnobacter sp.	0.25% AE	89 Cellulosimicrobium sp. 0.09% AE
40 Aquabacterium sp.	0.25% AE	90 Niallia taxi 0.09%
41 Tabrizicola piscis	0.25%	91 Microbacterium gallinarum 0.09% AE
42 Mycobacterium intracellularare	0.25% AE	92 Luteitalea sp. 0.09%
43 Mycolicibacterium vanbaalenii	0.22%	93 Enterococcus faecium 0.09% MA
44 Pseudomonas kielensis	0.22% AE	94 Acidovorax sp. 0.09% AE
45 Bacillus tuaregi	0.20% AE	95 Agrobacterium tumefaciens 0.08% AE
46 Azohydromonas sp.	0.20% AE	96 Rhodoplanes roseus 0.08% AE
47 Pseudomonas putida	0.19% AE	97 Luteitalea sp. 0.08%
48 Bradyrhizobium diazoefficiens	0.19% AE	98 Ferrovibrio sp. 0.08%
49 Solimonas sp.	0.18% OA	99 Rhodoplanes elegans 0.08% AE
50 Ensifer adhaerens	0.18% AE	100 Ottowia sp. 0.08% F

Contact RhizeBio:

Phone: 919-351-2038

Email: support@rhizebio.com

CUSTOMER INFORMATION		
Name:		
Email:		
Phone:		
Bill To:		
Field ID:		
Crop Type:		
Crop Variety		
	Sample ID	Field #1
	Report Date	5/1/2025
Top 100 Fungi Species Identified		
AE = Aerobic AN = Anaerobic F = Facultative AMF= Arbuscular Mycorrhizal ECM = Ectomycorrhizal		
1 <i>Saccharomyces pastorianus</i>	0.07% F	51 <i>Colletotrichum gloeosporioides</i> 0.007% AE
2 <i>Aspergillus sojae</i>	0.04% AE	52 <i>Ambrosiozyma kamigamensis</i> 0.007%
3 <i>Cutaneotrichosporon dermatis</i>	0.04%	53 <i>Trichoderma asperellum</i> 0.006% AE
4 <i>Rhizopus microsporus</i>	0.04%	54 <i>Saitozyma podzolica</i> 0.006%
5 <i>Geosiphon pyriformis</i>	0.03% AMF	55 <i>Pseudozyma flocculosa</i> 0.006%
6 <i>Alternaria alternata</i>	0.03%	56 <i>Neurospora sp.</i> 0.006% AE
7 <i>Candida albicans</i>	0.03% AE	57 <i>Mycena olivaceomarginata</i> 0.006%
8 <i>Saccharomyces cerevisiae</i>	0.02% F	58 <i>Hortaea werneckii</i> 0.006%
9 <i>Fusarium oxysporum</i>	0.02% F	59 <i>Hemileia vastatrix</i> 0.006%
10 <i>Schizophyllum commune</i>	0.02%	60 <i>Golovinomyces magnicellulatus</i> 0.006%
11 <i>Fusarium solani</i>	0.02% F	61 <i>Fusarium circinatum</i> 0.006% F
12 <i>Cantharellus lutescens</i>	0.02% ECM	62 <i>Exophiala xenobiotica</i> 0.006%
13 <i>Botryosphaeria dothidea</i>	0.02%	63 <i>Cyathus pygmaeus</i> 0.006%
14 <i>Puccinia striformis</i>	0.02% AE	64 <i>Cantharellus appalachiensis</i> 0.006% ECM
15 <i>Clavaria fumosa</i>	0.02%	65 <i>Sordaria brevicollis</i> 0.005%
16 <i>Aspergillus unguis</i>	0.02% AE	66 <i>Rhodotorula toruloides</i> 0.005%
17 <i>Podosphaera leucotricha</i>	0.01%	67 <i>Pseudogymnoascus destructans</i> 0.005%
18 <i>Fusarium subglutinans</i>	0.01% F	68 <i>Pestalotiopsis kenyana</i> 0.005%
19 <i>Melampsora piniptorqua</i>	0.01%	69 <i>Penicillium sumatrae</i> 0.005% AE
20 <i>Cetriceps pellucida</i>	0.01% AMF	70 <i>Ophiostoma populinum</i> 0.005%
21 <i>Lasiopodiplodia theobromae</i>	0.01%	71 <i>Mycena leptcephala</i> 0.005%
22 <i>Gigaspora margarita</i>	0.01% AMF	72 <i>Ganoderma lucidum</i> 0.005%
23 <i>Clarireedia jacksonii</i>	0.01%	73 <i>Gaeumannomyces tritici</i> 0.005%
24 <i>Acaulospora colombiana</i>	0.01% AMF	74 <i>Exophiala oligosperma</i> 0.005%
25 <i>Rhizopus arrhizus</i>	0.01%	75 <i>Entomophthora muscae</i> 0.005%
26 <i>Fusarium proliferatum</i>	0.01% F	76 <i>Corynespora cassiicola</i> 0.005%
27 <i>Pleurotus eryngii</i>	0.01%	77 <i>Colletotrichum siamense</i> 0.005% AE
28 <i>Phenoliferia glacialis</i>	0.01%	78 <i>Clarireedia paspali</i> 0.005%
29 <i>Niveomyces insectorum</i>	0.01%	79 <i>Ceratocystis fimbriata</i> 0.005%
30 <i>Morchella eximia</i>	0.01%	80 <i>Blastocladiella emersonii</i> 0.005%
31 <i>Cantharellus cibarius</i>	0.01% ECM	81 <i>Anncallia algerae</i> 0.005%
32 <i>Beauveria bassiana</i>	0.01%	82 <i>Ambispora leptoticha</i> 0.005% AMF
33 <i>Austropuccinia psidii</i>	0.01%	83 <i>Verticillium zaregamianum</i> 0.004%
34 <i>Rhodotorula graminis</i>	0.01%	84 <i>Vanrija albida</i> 0.004%
35 <i>Rhizophagus irregularis</i>	0.01% AMF	85 <i>Trichothecium roseum</i> 0.004%
36 <i>Rhizoctonia solani</i>	0.01% AE	86 <i>Trichoglossum hirsutum</i> 0.004%
37 <i>Puccinia triticina</i>	0.01% AE	87 <i>Tremella fuciformis</i> 0.004%
38 <i>Metschnikowia pulcherrima</i>	0.01%	88 <i>Trametes sp.</i> 0.004%
39 <i>Gyromitra ancilis</i>	0.01%	89 <i>Tolypocladium nubicola</i> 0.004%
40 <i>Diaporthe helianthi</i>	0.01%	90 <i>Tolypocladium album</i> 0.004%
41 <i>Coemansia sp.</i>	0.01%	91 <i>Tilletiopsis washingtonensis</i> 0.004%
42 <i>Auricularia cornea</i>	0.01%	92 <i>Termitomyces sp.</i> 0.004%
43 <i>Rhodotorula babjevae</i>	0.01%	93 <i>Termitomyces sp.</i> 0.004%
44 <i>Pyricularia oryzae</i>	0.01%	94 <i>Sporothrix cf.</i> 0.004%
45 <i>Penicillium cataractarum</i>	0.01% AE	95 <i>Rhodotorula kratochvilovae</i> 0.004%
46 <i>Neurospora sp.</i>	0.01% AE	96 <i>Rhizophagus clarus</i> 0.004% AMF
47 <i>Massospora cicadina</i>	0.01%	97 <i>Racocetra fulgida</i> 0.004% AMF
48 <i>Lentinus polychrous</i>	0.01%	98 <i>Puccinia polyspora</i> 0.004% AE
49 <i>Friedmanniomyces endolithicus</i>	0.01%	99 <i>Puccinia arachidis</i> 0.004% AE
50 <i>Escovopsis sp.</i>	0.01%	100 <i>Parastagonospora avenae</i> 0.004%

Contact RhizeBio:

Phone: 919-351-2038

Email: support@rhizebio.com