

# SoilBiotics Digester Shows How To Profit from Residue!

This is a report from a SoilBiotics customer in 2022. It shows soil test results for side-by-side rows in six sections of three different field areas provided by a central Illinois grower. In early November 2021 an application of **DgradeR+** was applied to corn stalk residue on 200' passes. The SoilBiotics treated row is the last one on each soil test report, with Control being either Row 1 or Rows 1& 2 (for tests with three samples.) The fields were tilled with a high-speed disc. Soil samples were taken on 8/3/2022 for analysis. **The six soil tests are shown and then a Summary of results is provided.** 

Test 1



Soil Testing for Precision Agriculture Soil Test Report

Order 45461

Report Date	08/09/2022
File	215.1
No. of Samples	2
Collected	08/03/2022
Received	08/03/2022
Analyzed	08/05/2022

23877 E 00 N Rd, Cropsey, IL 61731, USA 309-377-2851 (O)

#	Lab ID	pH units	pH * Buffer	LOI %	P Ib/ac	K Ib/ac	Ca Ib/ac	Mg Ib/ac		K * % sat.	5 C T T T T T T T	Mg * % sat.	H * % sat.		Zn ppm	Mn ppm	Fe ppm	Cu ppm	B ppm	1000
1	2096885	6.6	7.0	4.4	25	234	6,232	1,396	21.7	1.4	71.8	26.8	0.0	8	1.1	27	116	1.9	1.0	50
2	2096886	7.0	7.0	5.3	119	420	6,926	1,408	23.7	2.3	73.0	24.7	0.0	17	2.0	43	133	1.9	1.6	50
1	Average	6.8	7.0	4.9	72	327	6,579	1,402	22.7	1.8	72.4	25.8	0.0	12	1.5	35	124	1.9	1.3	50

 indicates calculated parameter; % sat.: % base saturation Tests performed by GMS Lab.



Soil Testing for Precision Agriculture

## Soil Test Report

#### Order 45462

23877 E 00 N Rd, Cropsey, IL 61731, USA 309-377-2851 (O)

08/09/2022
215.1
2
08/03/2022
08/03/2022
08/05/2022

#	Lab ID	pН	pH *	LOI	1000000	ĸ	Ca	Mg	CEC *	К*	Ca *	Mg *	н•	5	Zn	Mn	Fe	Cu	B	Na
		units	Buffer	%	lb/ac	lb/ac	lb/ac	lb/ac	meq/100g	% sat.	% sat.	% sat.	% sat.	ppm						
1	2096887	7.8	7.0	4.9	98	481	9,885	699	28.2	2.2	87.5	10.3	0.0	12	4.0	28	147	2.2	1.2	48
2	2096888	6.6	7.0	5.0	177	996	6,433	1,186	22.3	5.7	72.1	22.2	0.0	10	5.8	19	223	2.2	1.6	44
1	verage	7.2	7.0	4.9	138	738	8,159	942	25.3	4.0	79.8	16.2	0.0	11	4.9	23	185	2.2	1.4	46

\* indicates calculated parameter; % sat.: % base saturation Tests performed by GMS Lab.

#### Test 3

Soil Test Report



Soil Testing for Precision Agriculture

23877 E 00 N Rd, Cropsey, IL 61731, USA 309-377-2851 (O)

 Order
 45463

 Report Date
 08/09/2022

 File
 215.1

 No. of Samples
 3

 Collected
 08/03/2022

Received	08/03/2022
Analyzed	08/05/2022

#	Lab ID	pH units	pH * Buffer	LOI %	P Ib/ac	K Ib/ac	Ca Ib/ac	Mg Ib/ac	CEC * meq/100g	K * % sat.	Ca * % sat.	Mg * % sat.	H * % sat.	S ppm	Zn ppm	Mn ppm	Fe ppm	Cu	B	Na ppm
1	2096889	7.0	7.0	4.5	60	434	5,262	849	17.2	3.2	76.3	20.5	0.0	9	2.6	54	122	1.7	1.1	49
2	2096890	6.1	6.7	4.4	87	410	4,556	675	14.7	3.6	77.3	19.1	0.1	8	1.5	22	159	1.4	0.8	48
3	2096891	6.5	7.0	5.6	68	447	7,009	1,046	22.5	2.6	78.0	19.4	0.0	8	2.0	23	174	2.3	1.4	50
1	Average	6.5	6.9	4.9	72	430	5,609	857	18.1	3.1	77.2	19.7	0.0	9	2.0	33	152	1.8	1.1	49

 indicates calculated parameter; % sat.: % base saturation Tests performed by GMS Lab.

#### Test 4



# Soil Test Report

#### Order 45464

No. of Samples

Collected

Received

Analyzed

oraci	40404
Report Date	08/09/2022
File	215.1

2

08/03/2022

08/03/2022

08/05/2022

23877 E 00 N Rd, Cropsey, IL 61731, USA	
309-377-2851 (O)	

#	Lab ID	pH units	pH * Buffer	LOI %	1	K Ib/ac	Ca Ib/ac	Mg Ib/ac	CEC * meq/100g	K * % sat.	Ca * % sat.						Fe ppm	Cu ppm		Na ppm
1	2096892	5.6	6.2	3.0	30	97	4,194	707	13.6	0.9	77.1	21.7	0.3	6	1.2	19	and the second second	1.5	0.9	53
2	2096893	7.4	7.0	3.1	107	249	5,823	789	18.2	1.8	80.1	18.1	0.0	7	1.7	62	131	1.7	0.9	25
1	Average	6.5	6.6	3.1	69	173	5,009	748	15.9	1.3	78.6	19.9	0.1	7	1.5	40	152	1.6	0.9	39

\* indicates calculated parameter; % sat.: % base saturation Tests performed by GMS Lab.

### Test 5

GN	IS LA	BS	Soil Te		or iculture			Soil	Test	Rep	ort				Orde	r	45	468	
	1		10015	on AB	culture										File			9/2022 .5.1	
23877 E 00 1 309-377-285		y, IL 617	31, USA						1						of San Collecte Receive Analyze	ed ed	08/03	2 8/2022 8/2022 6/2022	
# Lab I	D pH	pH *	LOI	Р	к	Ca	Mg	CEC *	к*	Ca *	Mg *	н*	S	Zn	Mn	Fe	Cu	в	Na

	Lab ib	units	Buffer	10.55	lb/ac		lb/ac	lb/ac	meq/100g			Mg - % sat.		ppm	Zn ppm	ppm	Fe	ppm		Na ppm
1	2096900	6.9	7.0	4.5	82	317		1,045	the second s	2.0	76.9	21.2					179	and the second second	1.6	47
2	2096901	6.1	6.7	5.1	110	509	5,802	783	18.4	3.5	78.7	17.7	0.1	10	2.6	26	207	3.0	1.3	42
	verage	6.5	6.8	4.8	96	413	6,063	914	19.5	2.8	77.8	19.4	0.0	9	2.6	30	193	3.0	1.4	45

\* indicates calculated parameter; % sat.: % base saturation Tests performed by GMS Lab.

										10000										
	GMS	LA	BS		esting f	or riculture	9		Soil	Test	Repo	ort				Orde	er	45	469	
	77 E 00 N Ro 377-2851 (0	l, Cropse	I			Culture	-				325 <sup>- 35</sup> A				No. C	File File of San Collecto Receive	nples ed ed	21 08/03 08/03	9/2022 15.1 2 3/2022 3/2022 5/2022	
#	Lab ID	pH units	pH * Buffer	LOI %	P Ib/ac	K Ib/ac	Ca Ib/ac	Mg lb/ac	CEC * meq/100g	K * % sat.	Ca * % sat.	Mg * % sat.	H * % sat.	S ppm	Zn ppm	Mn ppm	Fe	Cu ppm	B	Na ppm
1	2096902	7.0	7.0	4.7	33	252	6,757	1,437	23.2	1.4	72.8	25.8	0.0	7	1.9	30	170	2.5	1.7	44

Test 6

 Average
 6.9
 7.0
 4.7
 67
 319
 7,226
 1,419

 \* indicates calculated parameter; % sat.: % base saturation

7.0

100

385

7,695

1,402

25.6

24.4

4.7

Tests performed by GMS Lab.

6.8

2096903

**Summary:** The soil test results show that application of **DgradeR+** resulted in a greater breakdown of residue than the untreated Control, and therefore a greater increase in soil fertility.

1.9

1.7

75.2

74.0

22.8

24.3

0.0

0.0

1.7

1.8

8

8

31

30

2.5

2.5

1.7

1.7

148

159

43

44

Estimated Organic Material **(OM)** content in the soil (**shown as LOI on charts**) averaged 4.8% for treated rows vs. 4.325% for the Control rows, **an 11% increase!** 

#### **Comparision of Primary Nutrient Results:**

The **DgradeR+** P levels averaged 113.5 pounds per acre vs. 57 lbs. per acre for Control. The **DgradeR+** K levels averaged 500.5 pounds per acre vs. 300.5 lbs. per acre for Control. The **DgradeR+** Ca levels averaged 6615 pounds per acre vs. 6383 lbs. per acre for Control. The **DgradeR+** Mg levels averaged 1102 pounds per acre vs. 1008 lbs. per acre for Control.

These tests show that growers utilizing an effective residue digestion product can see significant, low-cost increases in soil fertility from existing organic matter!

12/20/2023