REPORT NUMBER

22-143-0096

May 26, 2022 RECEIVED DATE ACCOUNT **2595**

May 23, 2022



PAGE 1/18

May 26, 2022

13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 www.midwestlabs.com

NORTHEAST COMM COLLEGE 801 E BENJAMIN AVE PO BOX 469 NORFOLK NE 68701TRENTEE BUSH
URBAN FARM
URBAN FARM GRID SAMPLES

SOIL ANALYSIS REPORT

						NEUTRAL AMMONIUM ACETATE (EXCHANGEABLE)						INI	O SHEET:	1468687			
LAB	SAMPLE	ORGANIC	Р	HOSPHORUS	<u> </u>	POTASSIUM	MAGNESIUM	CALCIUM	SODIUM	р	Н	CATION	PERCENT	BASE SAT	TURATION	(COMPUTE	D)
NUMBER	IDENTIFICATION	MATTER	P ₁	P ₂	OLSEN	K	Mg	Ca	Na	SOIL	BUFFER	EXCHANGE CAPACITY	%	%	%	%	%
397		L.O. I. percent RATE	(WEAK BRAY) 1:7 ppm RATE	(STRONG BRAY) 1:7 ppm RATE	BICARBONATE P ppm RATE	ppm RATE	ppm RATE	ppm RATE	ppm RATE	pH 1:1	INDEX	C.E.C. meq/100g	K	Mg	Ca	Н	Na
34353	NECC 1	2.2 L	44 vh	102 vн		150 н	110 м	1762 vн		7.2		10.1	3.8	9.1	87.1	0.0	
34354	NECC 2	2.7 м	25 н	95 vH	20 н	216 vн	154 м	2636 vн		7.6		15.0	3.7	8.6	87.7	0.0	
34355	NECC 3	2.1 L	18 м	56 н	16 н	218 vн	212 н	3089 vн		7.6		17.8	3.1	9.9	87.0	0.0	
34356	NECC 4	1.6 L	8 L	46 н	10 L	159 м	222 н	3061 vн		7.8		17.6	2.3	10.5	87.2	0.0	
34357	NECC 5	3.0 м	25 н	67 vH		150 н	107 м	1684 vн		7.0		9.7	4.0	9.2	86.8	0.0	
34358	NECC 6	3.0 м	55 vH	118 vн		176 vH	137 м	2020 vH		7.7		11.7	3.9	9.8	86.3	0.0	
34360	NECC 7	1.4 VL	34 vh	66 vн		120 м	107 м	1512 vн		7.8		8.8	3.5	10.1	86.4	0.0	
34361	NECC 8	2.3 L	25 н	96 vн	43 vH	365 vH	249 н	3186 vн		7.7		18.9	5.0	11.0	84.0	0.0	
34362	NECC 9	1.2 VL	21 м	87 vH	19 н	146 м	198 м	2761 vH		8.0		15.8	2.4	10.4	87.2	0.0	
34363	NECC 10	1.5 VL	19 м	58 н	19 н	145 н	112 L	2590 vн		7.9		14.3	2.6	6.5	90.9	0.0	

LAB				NI	TRATE-N	(FIA)					SULFU	R	ZINC	-	MANGANESE	IRO	N	COPPE	ER	BORC	N	EXCESS LIME	SOLUBL	E
NUMBER		SURFACE			SUBSOIL 1			SUBSOIL 2			S		Zn dtpa		Mn DTPA	Fe DTI		Cu DTP#	,	B SORB. I		RATE	SALTS 1:1	
397	ppm	lbs/A	depth (in)	ppm	lbs/A	depth (in)	ppm	lbs/A	depth (in)	Total lbs/A		RATE	ppm	RATE	ppm RATE		RATE	ppm	RATE	ppm	RATE		mmhos/	ATE
34353	2	5	0-8							5														
34354	2	5	0-8							5														
34355	2	5	0-8							5														
34356	1	2	0-8							2														
34357	3	7	0-8							7														
34358	2	5	0-8							5														
34360	2	5	0-8							5														
34361	4	10	0-8							10														
34362	1	2	0-8							2														
34363	1	2	0-8							2														

REV.10/17

May 26, 2022 RECEIVED DATE May 23, 2022 ACCOUNT **2595**



PAGE 2/18

May 26, 2022

13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 www.midwestlabs.com

NORTHEAST COMM COLLEGE 801 E BENJAMIN AVE PO BOX 469 NORFOLK NE 68701IDENTIFICATION
TRENTEE BUSH
URBAN FARM
URBAN FARM GRID SAMPLES

SOIL ANALYSIS REPORT

✓ Midwest

		_							NEUTR	AL AMMONII	JM ACI	ETATE (EXCHA	NGEAB	ILE)				IN	FO SHEET:	1468687			
LAB	SAMPLE	ORGANIC			Р	HOSPH	ORUS	5	POTASSIUM	MAGNES	IUM	CALCIUI	М	SODIU	M	р	Н	CATION	PERCENT	BASE SA	TURATION	(COMPUTE	ED)
NUMBER	IDENTIFICATION	MATTER		P,		P ₂	!	OLSEN	К	Mg		Ca		Na		SOIL	BUFFER	EXCHANGE CAPACITY	%	%	%	%	%
007		L.O. I.		(WEAK E	BRAY) 7	(STRONG		BICARBONATE P								pH	INDEX	C.E.C.	K	Mg	Ca	Н	Na
397		percent RA	TE	ppm	RATE	ppm	RATE	ppm RATE	ppm RATE	ppm	RATE	ppm	RATE	ppm	RATE	1:1		meq/100g					
34364	NECC 11	2.4 ι	_	25	Н	55	Н	29 vн	199 vн	281	VH	2264	Н			7.5		14.2	3.6	16.5	79.9	0.0	
34365	NECC 12	2.1 L		41	VH	104	VH.		321 vH	446	VH	3080	н			7.8		19.9	4.1	18 7	77.2	0.0	
	11200 12			• • •	V	' ' '	• • •		02 i viii		٧.,		••			7.0		' ' ' '		10.7		0.0	

LAB				NI	TRATE-N	(FIA)					SULFU	IR	ZINO		MANGANES	SE	IRON	l	COPPE	R	BORC	N	EXCESS LIME	SOLUBI	
NUMBER		SURFACE			SUBSOIL 1			SUBSOIL 2		T . I	S		Zn DTP/		Mn dtpa		Fe DTP/	, I	Cu DTPA		B SORB. I		RATE	SALTS 1:1	
397	ppm	lbs/A	depth (in)	ppm	lbs/A	depth (in)	ppm	lbs/A	depth (in)	Total lbs/A		RATE	ppm	RATE		RATE		RATE	ppm	RATE	ppm	RATE		mmhos/	ATE
34364	4	10	0-8							10															
34365	2	5	0-8							5															

REV.10/17

REPORT NUMBER

22-143-0096

May 26, 2022

ACCOUNT **2595**

May 23, 2022

/ Midwest
/ Laboratories®

PAGE 3/18

TODAY'S DATE

May 26, 2022

13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 www.midwestlabs.com

NORTHEAST COMM COLLEGE 801 E BENJAMIN AVE PO BOX 469 NORFOLK NE 68701IDENTIFICATION
TRENTEE BUSH
URBAN FARM
URBAN FARM GRID SAMPLES

SOIL FERTILITY RECOMMENDATIONS (POUNDS PER ACRE)

YOUR	INTENDED	YIELD	PREVIOUS		SOIL AM	ENDMEN	ΓS	N	P_2O_5	K,O	Mg	S	Zn	Mn	Fe	Cu	В
SAMPLE NUMBER (LAB NUMBER)	CROP	GOAL	CROP	LIME LBS/A OF	LIME TON	GYPSUM TONS/A	ELEMENTAL SULFUR LBS/A	NITROGEN	PHOSPHATE	POTASH	MAGNE- SIUM	SULFUR	ZINC	MANGA- NESE	IRON	COPPER	BORON
NECC 1 (39734353)	PEARS APPLES SQUASH	BEST	BROME PASTURE CI BROME PASTURE CI BROME PASTURE CI)				70 70 95	 	105 105 70	15 15 15						
NECC 2 (39734354)	GRAPES APRICOTS PUMPKIN	BEST	BROME PASTURE CI BROME PASTURE CI BROME PASTURE CI)				65 65 130	45 45 55	60 60 40							
NECC 3 (39734355)	RASPBERRIES RADISHES PLUMS	BEST	BROME PASTURE CI BROME PASTURE CI BROME PASTURE CI)				70 80 70	50 55 65	45 30 55	 						
NECC 4 (39734356)	ARONIA BERRIES LETTUCE TOMATOES- ton	BEST	BROME PASTURE CI BROME PASTURE CI BROME PASTURE CI)				70 145 120	125 155 185	90 65 170	15 						
NECC 5 (39734357)	ONIONS- lbs PECANS BROCCOLI	BEST	BROME PASTURE CI BROME PASTURE CI BROME PASTURE CI)				115 215 185	60 30 60	100 120 80	15 15 15						
NECC 6 (39734358)	ARONIA BERRIES GRAPES CHERRIES	BEST	BROME PASTURE CI BROME PASTURE CI BROME PASTURE CI)				45 65 65	 	45 90 90	15 						
NECC 7 (39734360)	BRUSSEL SPROUTS BLUEBERRIES BLACKBERRIES	BEST	BROME PASTURE CI BROME PASTURE CI BROME PASTURE CI					195 65 75	40 25 25	95 95 95	15 15 15						
NECC 8 (39734361)	CAULIFLOWER SPINACH CUCUMBER/MELON	BEST	BROME PASTURE CI BROME PASTURE CI BROME PASTURE CI)				185 130 115		1 1 1	1 1 1						
NECC 9 (39734362)	GARDEN FRUIT TREES HEMP- INDUSTRIAL	BEST	BROME PASTURE CI BROME PASTURE CI BROME PASTURE CI)				155 80 145	70 45 45	70 110 85	 						
	PUMPKIN MUSTARD - lbs HOPS - bales	1500.	BROME PASTURE CI BROME PASTURE CI BROME PASTURE CI)				145 70 160	55 10 25	70 45 90	15 15 15						

REV. 12/03

REPORT NUMBER 22-143-0096

May 26, 2022 May 23, 2022

2595

ACCOUNT



PAGE 4/18

TODAY'S DATE May 26, 2022

13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 www.midwestlabs.com

NORTHEAST COMM COLLEGE **801 E BENJAMIN AVE** PO BOX 469 NORFOLK NE 68701IDENTIFICATION TRENTEE BUSH **URBAN FARM URBAN FARM GRID SAMPLES**

SOIL FERTILITY RECOMMENDATIONS (POUNDS PER ACRE)

YOUR	INTENDED	YIELD	PREVIOUS		SOIL AM	IENDMEN	TS	N	P ₂ O ₅	K ₂ O	Mg	S	Zn	Mn	Fe	Cu	В
SAMPLE NUMBER (LAB NUMBER)	CROP	GOAL	CROP	LIME LBS/A OF	LIME TON	GYPSUM TONS/A	ELEMENTAL SULFUR LBS/A	NITROGEN	PHOSPHATE	POTASH	MAGNE- SIUM	SULFUR	ZINC	MANGA- NESE	IRON	COPPER	BORON
	WATERMELON TABLE BEETS ROSES	BEST	BROME PASTURE CI BROME PASTURE CI BROME PASTURE CI)				130 110 125	 	45 45 50	 						
	GRAPES PUMPKIN FRUIT TREES	BEST	BROME PASTURE CI BROME PASTURE CI BROME PASTURE CI)				70 135 70	 	 	 						

REV. 12/03

REPORT NUMBER 22-143-0096

May 26, 2022 May 23, 2022

ACCOUNT 2595



PAGE 5/18 TODAY'S DATE May 26, 2022

13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 www.midwestlabs.com

NORTHEAST COMM COLLEGE **801 E BENJAMIN AVE** PO BOX 469 NORFOLK NE 68701IDENTIFICATION TRENTEE BUSH **URBAN FARM URBAN FARM GRID SAMPLES**

LAWN AND GARDEN

AN	IAL	YTICAL	LABOR	ATORY FI	NDINGS	
SAMPLE IDENTIFICA	ATION	NECC 9				
LABORATORY NUM	BER	397343	62			
ANALYTE	UNITS	RESULTS	LOW	MEDIUM	OPTIMUM	V. HIGH
NITROGEN						
ORGANIC MATTER	%	1.2				
NITRATE-N	ppm	1				
PHOSPHORUS	ppm	27				
POTASSIUM	ppm	146				
MAGNESIUM	ppm	198				
MICRO-						
NUTRIENTS						
SULFUR	ppm					
ZINC	ppm					
MANGANESE	ppm					
IRON	ppm					
COPPER	ppm					
BORON	ppm					
CALCIUM	ppm	2761				
SODIUM	ppm					
SOLUBLE SALTS	mmhos/					
EXCESS LIME RATE	cm					
pH		8.0				
BUFFER INDEX			•			
C.E.C.	meq/ 100g	15.8				
	1009					

ANA WIAD OWN				
	MIDWE	ST SUGGI	<u>ESTIONS</u>	FOR GARDEN
POUNDS PER	100 sq. ft.	1000 sq. ft.	Acre	
SUGGES	TED FERTILIT	Y GUIDELINES	5	
NITROGEN (N)	0.36	3.56	155	
PHOSPHATE (P ₂ O ₅)	0.16	1.61	70	
POTASH (K ₂ O)	0.16	1.61	70	
MAGNESIUM (Mg)				
SULFUR (S) ZINC (Zn) MANGANESE (Mn) IRON (Fe) COPPER (Cu) BORON (B)				Surface Nitrate Depth: 0-8
SUGGESTE	D AMENDME	NT GUIDELIN	IES	
LIME				
ELEMENTAL SULFUR				
GYPSUM				

May 26, 2022 RECEIVED DATE **2595**

May 23, 2022

/ Midwest
/ Laboratories®

PAGE 6/18
TODAY'S DATE

May 26, 2022

13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 www.midwestlabs.com

NORTHEAST COMM COLLEGE 801 E BENJAMIN AVE PO BOX 469 NORFOLK NE 68701IDENTIFICATION
TRENTEE BUSH
URBAN FARM
URBAN FARM GRID SAMPLES

LAWN AND GARDEN

AN	IAL	YTICAL	LABOR	ATORY FI	NDINGS	
SAMPLE IDENTIFICA	ATION	NECC 11	1			
LABORATORY NUM	BER	397343	64			
ANALYTE	UNITS	RESULTS	LOW	MEDIUM	OPTIMUM	V. HIGH
NITROGEN						
ORGANIC MATTER	%	2.4				
NITRATE-N	ppm	4				
PHOSPHORUS	ppm	41				
POTASSIUM	ppm	199				
MAGNESIUM	ppm	281				
MICRO-						
NUTRIENTS						
SULFUR	ppm					
ZINC	ppm					
MANGANESE	ppm					
IRON	ppm					
COPPER	ppm					
BORON	ppm					
CALCIUM	ppm	2264				
SODIUM	ppm					
SOLUBLE SALTS	mmhos/					
EXCESS LIME RATE	dii					
pH		7.5	ĺ			
BUFFER INDEX						
C.E.C.	meq/	14.2				
<u></u>	100g		ľ			

	MIDWE	ST SUGGI	ESTIONS	FOR ROSES
POUNDS PER	100 sq. ft.	1000 sq. ft.	Acre	
SUGGES	TED FERTILIT	Y GUIDELINES	5	
NITROGEN (N)	0.29	2.87	125	
PHOSPHATE (P,O,)				
POTASH (K ₂ O)	0.11	1.15	50	
MAGNESIUM (Mg)				
SULFUR (S) ZINC (Zn) MANGANESE (Mn) IRON (Fe) COPPER (Cu) BORON (B)				Surface Nitrate Depth: 0-8
SUGGESTE	D AMENDME	NT GUIDELIN	IES	
LIME				
ELEMENTAL SULFUR				
GYPSUM				

May 26, 2022 RECEIVED DATE May 23, 2022

ACCOUNT 2595



PAGE 7/18

May 26, 2022

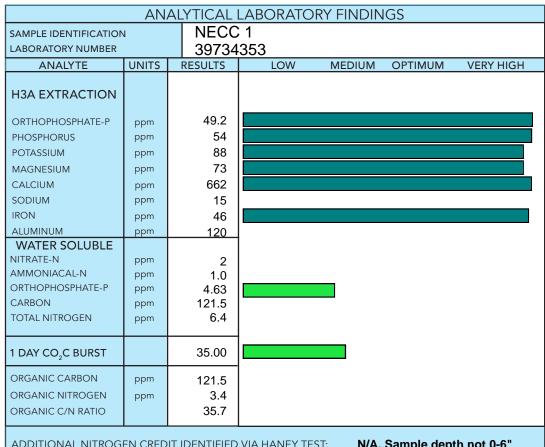
13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 www.midwestlabs.com

IDENTIFICATION

TRENTEE BUSH URBAN FARM URBAN FARM GRID SAMPLES

NORTHEAST COMM COLLEGE **801 E BENJAMIN AVE PO BOX 469** NORFOLK NE 68701-

SOIL HEALTH ASSESSMENT

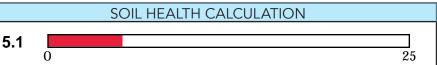


ADDITIONAL NITROGEN CREDIT IDENTIFIED VIA HANEY TEST:

N/A. Sample depth not 0-6"

NITROGEN RECOMMENDATIONS MAY INCLUDE ADDITIONAL NITROGEN CREDITS BASED ON PREVI-OUS CROPS AND NITROGEN MINERALIZATION RATES.

The above analytical results apply only to the sample(s) submitted. Samples are retained a maximum of 30 days.



The H3A Soil Extractant was developed by Haney*. This extract is designed to mimic organic acids produced by living plant root systems. These organic acids increase nutrient availability in the root zone.

The Water Soluble Extract provides a snapshot of nutrients that are immediately available to the plants.

The CO, Burst test is very good indicator of soil health. This test measures the amount of CO₂ naturally released from the soil due to the activity of the soil microbes through microbial respiration. This test is very dependent on the amount of carbon that is available to the soil microbes and the form that the carbon is in. As the available carbon increases in your soil the Microbial respiration will increase.

Organic Carbon is the available total water extractable organic carbon from your soil. This pool of carbon is roughly 80 times smaller than the Soil Organic Matter. The organic carbon pool reflects the energy/food source that is driving the soil microbes.

The Organic Nitrogen pool is replenished by fresh plant residues, manure, composts, and dying soil microbes.

The Organic C/N ratio is a critical component of the nutrient cycle. A soil C/N ratio above 20 generally indicates that Nitrogen will be tied up and not available to plants. The ideal range for the Organic C/N ratio will be from 8:1 to 15:1.

The Soil Health Calculation uses the CO₂ Burst, Organic Carbon, Organic Nitrogen, and the C/N ratio to generate the soil health number. This calculation looks at the balance of soil carbon and nitrogen and their relationship to microbial activity. This number represents the overall health of your system. Soil values will range from 0 to 25. A soil with a value below 7 would be considered low. You want to see this number increase as you make changes and adjustments. Keeping track of this number will allow you to gauge the effects of your management practices over time.

May 26, 2022 RECEIVED DATE May 23, 2022

ACCOUNT 2595



PAGE 8/18

May 26, 2022

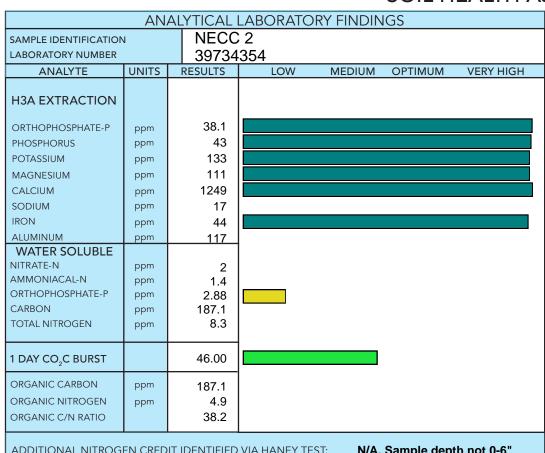
13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 www.midwestlabs.com

IDENTIFICATION

TRENTEE BUSH URBAN FARM URBAN FARM GRID SAMPLES

NORTHEAST COMM COLLEGE **801 E BENJAMIN AVE PO BOX 469** NORFOLK NE 68701-

SOIL HEALTH ASSESSMENT

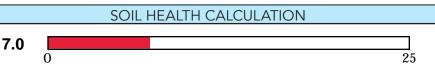


ADDITIONAL NITROGEN CREDIT IDENTIFIED VIA HANEY TEST:

N/A. Sample depth not 0-6"

NITROGEN RECOMMENDATIONS MAY INCLUDE ADDITIONAL NITROGEN CREDITS BASED ON PREVI-OUS CROPS AND NITROGEN MINERALIZATION RATES.

The above analytical results apply only to the sample(s) submitted. Samples are retained a maximum of 30 days.



The H3A Soil Extractant was developed by Haney*. This extract is designed to mimic organic acids produced by living plant root systems. These organic acids increase nutrient availability in the root zone.

The Water Soluble Extract provides a snapshot of nutrients that are immediately available to the plants.

The CO, Burst test is very good indicator of soil health. This test measures the amount of CO₂ naturally released from the soil due to the activity of the soil microbes through microbial respiration. This test is very dependent on the amount of carbon that is available to the soil microbes and the form that the carbon is in. As the available carbon increases in your soil the Microbial respiration will increase.

Organic Carbon is the available total water extractable organic carbon from your soil. This pool of carbon is roughly 80 times smaller than the Soil Organic Matter. The organic carbon pool reflects the energy/food source that is driving the soil microbes.

The Organic Nitrogen pool is replenished by fresh plant residues, manure, composts, and dying soil microbes.

The Organic C/N ratio is a critical component of the nutrient cycle. A soil C/N ratio above 20 generally indicates that Nitrogen will be tied up and not available to plants. The ideal range for the Organic C/N ratio will be from 8:1 to 15:1.

The Soil Health Calculation uses the CO₂ Burst, Organic Carbon, Organic Nitrogen, and the C/N ratio to generate the soil health number. This calculation looks at the balance of soil carbon and nitrogen and their relationship to microbial activity. This number represents the overall health of your system. Soil values will range from 0 to 25. A soil with a value below 7 would be considered low. You want to see this number increase as you make changes and adjustments. Keeping track of this number will allow you to gauge the effects of your management practices over time.

May 26, 2022 RECEIVED DATE May 23, 2022

ACCOUNT 2595



PAGE 9/18

May 26, 2022

13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 www.midwestlabs.com

IDENTIFICATION

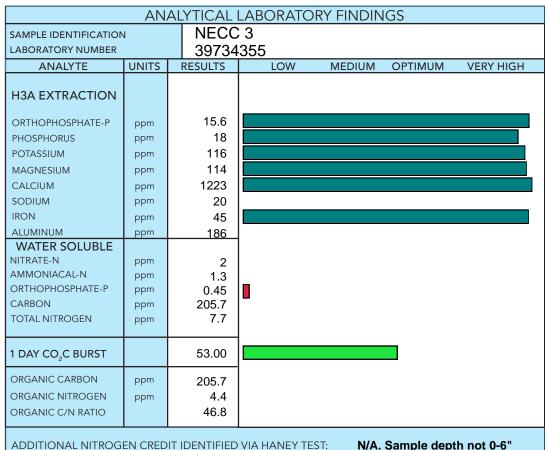
TRENTEE BUSH URBAN FARM URBAN FARM GRID SAMPLES

NORTHEAST COMM COLLEGE **801 E BENJAMIN AVE PO BOX 469** NORFOLK NE 68701-

SOIL HEALTH ASSESSMENT

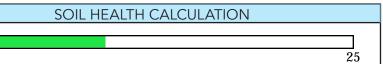
7.8

0



NITROGEN RECOMMENDATIONS MAY INCLUDE ADDITIONAL NITROGEN CREDITS BASED ON PREVI-OUS CROPS AND NITROGEN MINERALIZATION RATES.

The above analytical results apply only to the sample(s) submitted. Samples are retained a maximum of 30 days.



The H3A Soil Extractant was developed by Haney*. This extract is designed to mimic organic acids produced by living plant root systems. These organic acids increase nutrient availability in the root zone.

The Water Soluble Extract provides a snapshot of nutrients that are immediately available to the plants.

The CO, Burst test is very good indicator of soil health. This test measures the amount of CO₂ naturally released from the soil due to the activity of the soil microbes through microbial respiration. This test is very dependent on the amount of carbon that is available to the soil microbes and the form that the carbon is in. As the available carbon increases in your soil the Microbial respiration will increase.

Organic Carbon is the available total water extractable organic carbon from your soil. This pool of carbon is roughly 80 times smaller than the Soil Organic Matter. The organic carbon pool reflects the energy/food source that is driving the soil microbes.

The Organic Nitrogen pool is replenished by fresh plant residues, manure, composts, and dying soil microbes.

The Organic C/N ratio is a critical component of the nutrient cycle. A soil C/N ratio above 20 generally indicates that Nitrogen will be tied up and not available to plants. The ideal range for the Organic C/N ratio will be from 8:1 to 15:1.

The Soil Health Calculation uses the CO₂ Burst, Organic Carbon, Organic Nitrogen, and the C/N ratio to generate the soil health number. This calculation looks at the balance of soil carbon and nitrogen and their relationship to microbial activity. This number represents the overall health of your system. Soil values will range from 0 to 25. A soil with a value below 7 would be considered low. You want to see this number increase as you make changes and adjustments. Keeping track of this number will allow you to gauge the effects of your management practices over time.

May 26, 2022 RECEIVED DATE May 23, 2022 ACCOUNT **2595**



PAGE 10/18

TODAY'S DATE **May 26, 2022**

13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 www.midwestlabs.com

IDENTIFICATION

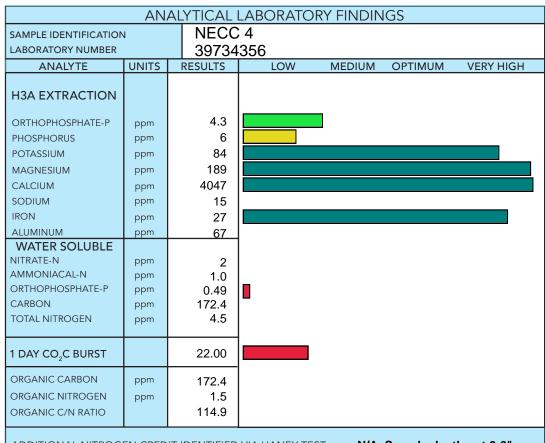
TRENTEE BUSH
URBAN FARM
URBAN FARM GRID SAMPLES

NORTHEAST COMM COLLEGE 801 E BENJAMIN AVE PO BOX 469 NORFOLK NE 68701-

SOIL HEALTH ASSESSMENT

4.1

0

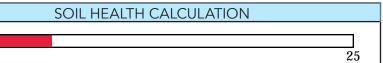


ADDITIONAL NITROGEN CREDIT IDENTIFIED VIA HANEY TEST:

N/A. Sample depth not 0-6"

NITROGEN RECOMMENDATIONS MAY INCLUDE ADDITIONAL NITROGEN CREDITS BASED ON PREVIOUS CROPS AND NITROGEN MINERALIZATION RATES.

The above analytical results apply only to the sample(s) submitted. Samples are retained a maximum of 30 days.



The **H3A Soil Extractant** was developed by Haney*. This extract is designed to mimic organic acids produced by living plant root systems. These organic acids increase nutrient availability in the root zone.

The **Water Soluble Extract** provides a snapshot of nutrients that are immediately available to the plants.

The **CO₂ Burst** test is very good indicator of soil health. This test measures the amount of CO₂ naturally released from the soil due to the activity of the soil microbes through microbial respiration. This test is very dependent on the amount of carbon that is available to the soil microbes and the form that the carbon is in. As the available carbon increases in your soil the Microbial respiration will increase.

Organic Carbon is the available total water extractable organic carbon from your soil. This pool of carbon is roughly 80 times smaller than the Soil Organic Matter. The organic carbon pool reflects the energy/food source that is driving the soil microbes.

The **Organic Nitrogen** pool is replenished by fresh plant residues, manure, composts, and dying soil microbes.

The **Organic C/N ratio** is a critical component of the nutrient cycle. A soil C/N ratio above 20 generally indicates that Nitrogen will be tied up and not available to plants. The ideal range for the Organic C/N ratio will be from 8:1 to 15:1.

The **Soil Health Calculation** uses the CO₂ Burst, Organic Carbon, Organic Nitrogen, and the C/N ratio to generate the soil health number. This calculation looks at the balance of soil carbon and nitrogen and their relationship to microbial activity. This number represents the overall health of your system. Soil values will range from 0 to 25. A soil with a value below 7 would be considered low. You want to see this number increase as you make changes and adjustments. Keeping track of this number will allow you to gauge the effects of your management practices over time.

May 26, 2022 RECEIVED DATE May 23, 2022

ACCOUNT 2595



PAGE 11/18

May 26, 2022

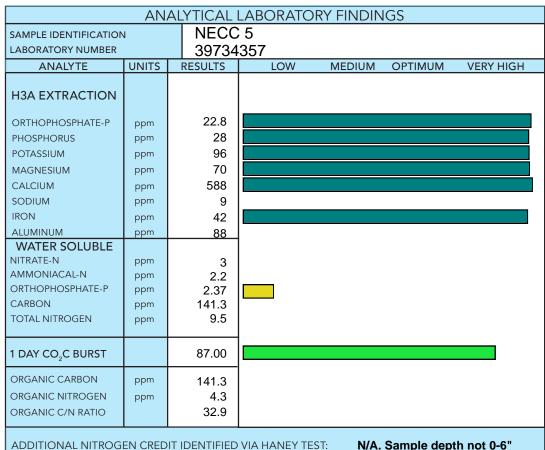
13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 www.midwestlabs.com

IDENTIFICATION

TRENTEE BUSH URBAN FARM URBAN FARM GRID SAMPLES

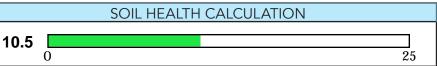
NORTHEAST COMM COLLEGE **801 E BENJAMIN AVE PO BOX 469** NORFOLK NE 68701-

SOIL HEALTH ASSESSMENT



NITROGEN RECOMMENDATIONS MAY INCLUDE ADDITIONAL NITROGEN CREDITS BASED ON PREVI-OUS CROPS AND NITROGEN MINERALIZATION RATES.

The above analytical results apply only to the sample(s) submitted. Samples are retained a maximum of 30 days.



The H3A Soil Extractant was developed by Haney*. This extract is designed to mimic organic acids produced by living plant root systems. These organic acids increase nutrient availability in the root zone.

The Water Soluble Extract provides a snapshot of nutrients that are immediately available to the plants.

The CO, Burst test is very good indicator of soil health. This test measures the amount of CO₂ naturally released from the soil due to the activity of the soil microbes through microbial respiration. This test is very dependent on the amount of carbon that is available to the soil microbes and the form that the carbon is in. As the available carbon increases in your soil the Microbial respiration will increase.

Organic Carbon is the available total water extractable organic carbon from your soil. This pool of carbon is roughly 80 times smaller than the Soil Organic Matter. The organic carbon pool reflects the energy/food source that is driving the soil microbes.

The Organic Nitrogen pool is replenished by fresh plant residues, manure, composts, and dying soil microbes.

The Organic C/N ratio is a critical component of the nutrient cycle. A soil C/N ratio above 20 generally indicates that Nitrogen will be tied up and not available to plants. The ideal range for the Organic C/N ratio will be from 8:1 to 15:1.

The Soil Health Calculation uses the CO₂ Burst, Organic Carbon, Organic Nitrogen, and the C/N ratio to generate the soil health number. This calculation looks at the balance of soil carbon and nitrogen and their relationship to microbial activity. This number represents the overall health of your system. Soil values will range from 0 to 25. A soil with a value below 7 would be considered low. You want to see this number increase as you make changes and adjustments. Keeping track of this number will allow you to gauge the effects of your management practices over time.

May 26, 2022 RECEIVED DATE May 23, 2022

ACCOUNT 2595



PAGE 12/18

May 26, 2022

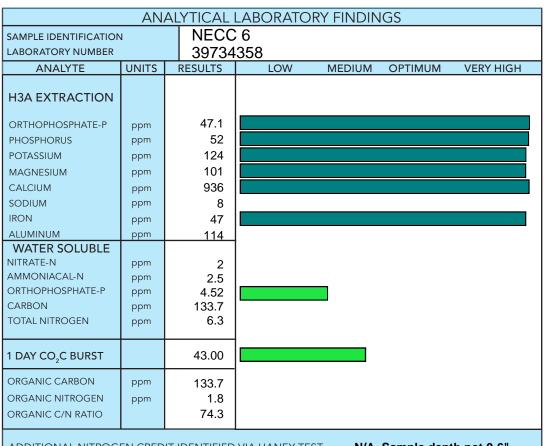
13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 www.midwestlabs.com

IDENTIFICATION

TRENTEE BUSH URBAN FARM URBAN FARM GRID SAMPLES

NORTHEAST COMM COLLEGE **801 E BENJAMIN AVE PO BOX 469** NORFOLK NE 68701-

SOIL HEALTH ASSESSMENT

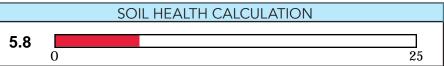


ADDITIONAL NITROGEN CREDIT IDENTIFIED VIA HANEY TEST:

N/A. Sample depth not 0-6"

NITROGEN RECOMMENDATIONS MAY INCLUDE ADDITIONAL NITROGEN CREDITS BASED ON PREVI-OUS CROPS AND NITROGEN MINERALIZATION RATES.

The above analytical results apply only to the sample(s) submitted. Samples are retained a maximum of 30 days.



The H3A Soil Extractant was developed by Haney*. This extract is designed to mimic organic acids produced by living plant root systems. These organic acids increase nutrient availability in the root zone.

The Water Soluble Extract provides a snapshot of nutrients that are immediately available to the plants.

The CO, Burst test is very good indicator of soil health. This test measures the amount of CO₂ naturally released from the soil due to the activity of the soil microbes through microbial respiration. This test is very dependent on the amount of carbon that is available to the soil microbes and the form that the carbon is in. As the available carbon increases in your soil the Microbial respiration will increase.

Organic Carbon is the available total water extractable organic carbon from your soil. This pool of carbon is roughly 80 times smaller than the Soil Organic Matter. The organic carbon pool reflects the energy/food source that is driving the soil microbes.

The Organic Nitrogen pool is replenished by fresh plant residues, manure, composts, and dying soil microbes.

The Organic C/N ratio is a critical component of the nutrient cycle. A soil C/N ratio above 20 generally indicates that Nitrogen will be tied up and not available to plants. The ideal range for the Organic C/N ratio will be from 8:1 to 15:1.

The Soil Health Calculation uses the CO₂ Burst, Organic Carbon, Organic Nitrogen, and the C/N ratio to generate the soil health number. This calculation looks at the balance of soil carbon and nitrogen and their relationship to microbial activity. This number represents the overall health of your system. Soil values will range from 0 to 25. A soil with a value below 7 would be considered low. You want to see this number increase as you make changes and adjustments. Keeping track of this number will allow you to gauge the effects of your management practices over time.

May 26, 2022 RECEIVED DATE May 23, 2022

ACCOUNT 2595



PAGE 13/18

May 26, 2022

13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 www.midwestlabs.com

IDENTIFICATION

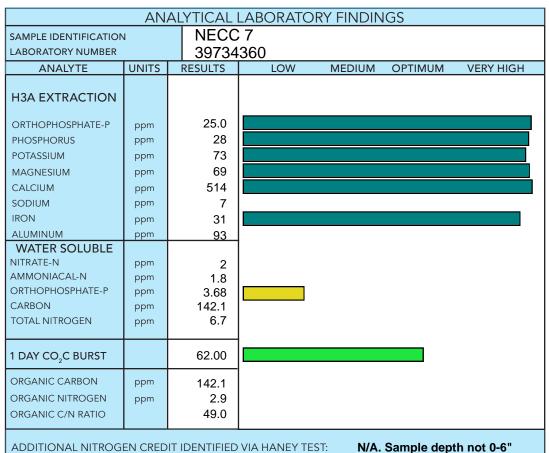
TRENTEE BUSH URBAN FARM URBAN FARM GRID SAMPLES

NORTHEAST COMM COLLEGE **801 E BENJAMIN AVE PO BOX 469** NORFOLK NE 68701-

SOIL HEALTH ASSESSMENT

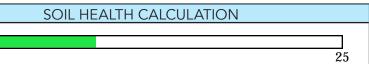
7.9

0



NITROGEN RECOMMENDATIONS MAY INCLUDE ADDITIONAL NITROGEN CREDITS BASED ON PREVI-OUS CROPS AND NITROGEN MINERALIZATION RATES.

The above analytical results apply only to the sample(s) submitted. Samples are retained a maximum of 30 days.



The H3A Soil Extractant was developed by Haney*. This extract is designed to mimic organic acids produced by living plant root systems. These organic acids increase nutrient availability in the root zone.

The Water Soluble Extract provides a snapshot of nutrients that are immediately available to the plants.

The CO, Burst test is very good indicator of soil health. This test measures the amount of CO₂ naturally released from the soil due to the activity of the soil microbes through microbial respiration. This test is very dependent on the amount of carbon that is available to the soil microbes and the form that the carbon is in. As the available carbon increases in your soil the Microbial respiration will increase.

Organic Carbon is the available total water extractable organic carbon from your soil. This pool of carbon is roughly 80 times smaller than the Soil Organic Matter. The organic carbon pool reflects the energy/food source that is driving the soil microbes.

The Organic Nitrogen pool is replenished by fresh plant residues, manure, composts, and dying soil microbes.

The Organic C/N ratio is a critical component of the nutrient cycle. A soil C/N ratio above 20 generally indicates that Nitrogen will be tied up and not available to plants. The ideal range for the Organic C/N ratio will be from 8:1 to 15:1.

The Soil Health Calculation uses the CO₂ Burst, Organic Carbon, Organic Nitrogen, and the C/N ratio to generate the soil health number. This calculation looks at the balance of soil carbon and nitrogen and their relationship to microbial activity. This number represents the overall health of your system. Soil values will range from 0 to 25. A soil with a value below 7 would be considered low. You want to see this number increase as you make changes and adjustments. Keeping track of this number will allow you to gauge the effects of your management practices over time.

May 26, 2022 RECEIVED DATE May 23, 2022

ACCOUNT 2595



PAGE 14/18

May 26, 2022

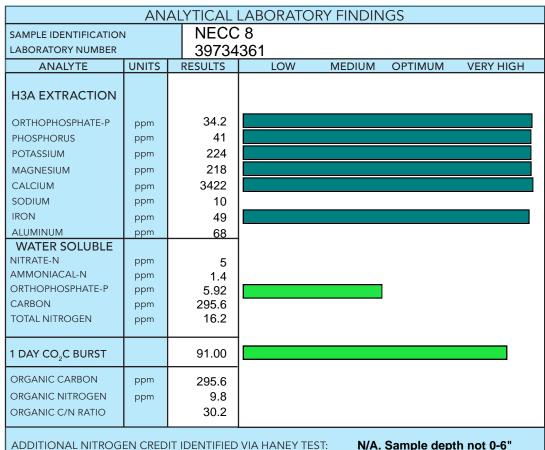
13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 www.midwestlabs.com

IDENTIFICATION

TRENTEE BUSH URBAN FARM URBAN FARM GRID SAMPLES

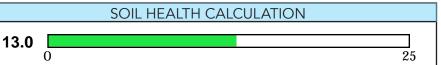
NORTHEAST COMM COLLEGE **801 E BENJAMIN AVE PO BOX 469** NORFOLK NE 68701-

SOIL HEALTH ASSESSMENT



NITROGEN RECOMMENDATIONS MAY INCLUDE ADDITIONAL NITROGEN CREDITS BASED ON PREVI-OUS CROPS AND NITROGEN MINERALIZATION RATES.

The above analytical results apply only to the sample(s) submitted. Samples are retained a maximum of 30 days.



The H3A Soil Extractant was developed by Haney*. This extract is designed to mimic organic acids produced by living plant root systems. These organic acids increase nutrient availability in the root zone.

The Water Soluble Extract provides a snapshot of nutrients that are immediately available to the plants.

The CO, Burst test is very good indicator of soil health. This test measures the amount of CO₂ naturally released from the soil due to the activity of the soil microbes through microbial respiration. This test is very dependent on the amount of carbon that is available to the soil microbes and the form that the carbon is in. As the available carbon increases in your soil the Microbial respiration will increase.

Organic Carbon is the available total water extractable organic carbon from your soil. This pool of carbon is roughly 80 times smaller than the Soil Organic Matter. The organic carbon pool reflects the energy/food source that is driving the soil microbes.

The Organic Nitrogen pool is replenished by fresh plant residues, manure, composts, and dying soil microbes.

The Organic C/N ratio is a critical component of the nutrient cycle. A soil C/N ratio above 20 generally indicates that Nitrogen will be tied up and not available to plants. The ideal range for the Organic C/N ratio will be from 8:1 to 15:1.

The Soil Health Calculation uses the CO₂ Burst, Organic Carbon, Organic Nitrogen, and the C/N ratio to generate the soil health number. This calculation looks at the balance of soil carbon and nitrogen and their relationship to microbial activity. This number represents the overall health of your system. Soil values will range from 0 to 25. A soil with a value below 7 would be considered low. You want to see this number increase as you make changes and adjustments. Keeping track of this number will allow you to gauge the effects of your management practices over time.

May 26, 2022 RECEIVED DATE May 23, 2022

ACCOUNT 2595



PAGE 15/18

May 26, 2022

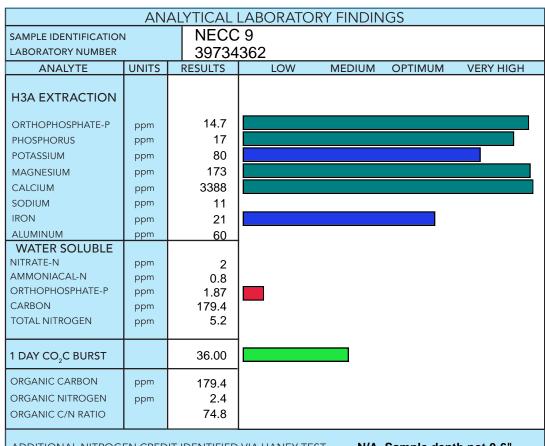
13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 www.midwestlabs.com

IDENTIFICATION

TRENTEE BUSH URBAN FARM URBAN FARM GRID SAMPLES

NORTHEAST COMM COLLEGE **801 E BENJAMIN AVE PO BOX 469** NORFOLK NE 68701-

SOIL HEALTH ASSESSMENT

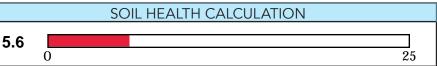


ADDITIONAL NITROGEN CREDIT IDENTIFIED VIA HANEY TEST:

N/A. Sample depth not 0-6"

NITROGEN RECOMMENDATIONS MAY INCLUDE ADDITIONAL NITROGEN CREDITS BASED ON PREVI-OUS CROPS AND NITROGEN MINERALIZATION RATES.

The above analytical results apply only to the sample(s) submitted. Samples are retained a maximum of 30 days.



The H3A Soil Extractant was developed by Haney*. This extract is designed to mimic organic acids produced by living plant root systems. These organic acids increase nutrient availability in the root zone.

The Water Soluble Extract provides a snapshot of nutrients that are immediately available to the plants.

The CO, Burst test is very good indicator of soil health. This test measures the amount of CO₂ naturally released from the soil due to the activity of the soil microbes through microbial respiration. This test is very dependent on the amount of carbon that is available to the soil microbes and the form that the carbon is in. As the available carbon increases in your soil the Microbial respiration will increase.

Organic Carbon is the available total water extractable organic carbon from your soil. This pool of carbon is roughly 80 times smaller than the Soil Organic Matter. The organic carbon pool reflects the energy/food source that is driving the soil microbes.

The Organic Nitrogen pool is replenished by fresh plant residues, manure, composts, and dying soil microbes.

The Organic C/N ratio is a critical component of the nutrient cycle. A soil C/N ratio above 20 generally indicates that Nitrogen will be tied up and not available to plants. The ideal range for the Organic C/N ratio will be from 8:1 to 15:1.

The Soil Health Calculation uses the CO₂ Burst, Organic Carbon, Organic Nitrogen, and the C/N ratio to generate the soil health number. This calculation looks at the balance of soil carbon and nitrogen and their relationship to microbial activity. This number represents the overall health of your system. Soil values will range from 0 to 25. A soil with a value below 7 would be considered low. You want to see this number increase as you make changes and adjustments. Keeping track of this number will allow you to gauge the effects of your management practices over time.

May 26, 2022 RECEIVED DATE May 23, 2022

ACCOUNT 2595



PAGE 16/18

May 26, 2022

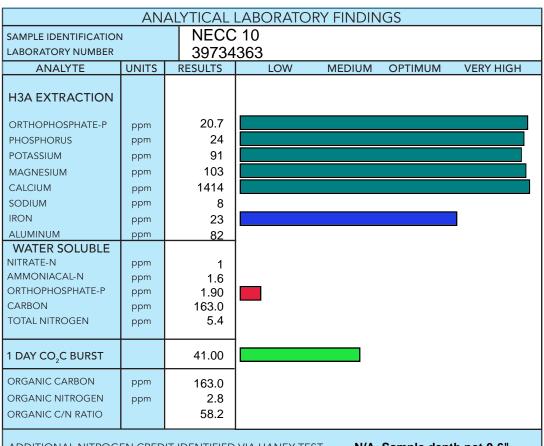
13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 www.midwestlabs.com

IDENTIFICATION

TRENTEE BUSH URBAN FARM URBAN FARM GRID SAMPLES

NORTHEAST COMM COLLEGE **801 E BENJAMIN AVE PO BOX 469** NORFOLK NE 68701-

SOIL HEALTH ASSESSMENT

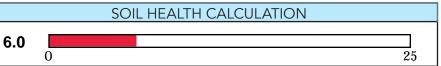


ADDITIONAL NITROGEN CREDIT IDENTIFIED VIA HANEY TEST:

N/A. Sample depth not 0-6"

NITROGEN RECOMMENDATIONS MAY INCLUDE ADDITIONAL NITROGEN CREDITS BASED ON PREVI-OUS CROPS AND NITROGEN MINERALIZATION RATES.

The above analytical results apply only to the sample(s) submitted. Samples are retained a maximum of 30 days.



The H3A Soil Extractant was developed by Haney*. This extract is designed to mimic organic acids produced by living plant root systems. These organic acids increase nutrient availability in the root zone.

The Water Soluble Extract provides a snapshot of nutrients that are immediately available to the plants.

The CO, Burst test is very good indicator of soil health. This test measures the amount of CO₂ naturally released from the soil due to the activity of the soil microbes through microbial respiration. This test is very dependent on the amount of carbon that is available to the soil microbes and the form that the carbon is in. As the available carbon increases in your soil the Microbial respiration will increase.

Organic Carbon is the available total water extractable organic carbon from your soil. This pool of carbon is roughly 80 times smaller than the Soil Organic Matter. The organic carbon pool reflects the energy/food source that is driving the soil microbes.

The Organic Nitrogen pool is replenished by fresh plant residues, manure, composts, and dying soil microbes.

The Organic C/N ratio is a critical component of the nutrient cycle. A soil C/N ratio above 20 generally indicates that Nitrogen will be tied up and not available to plants. The ideal range for the Organic C/N ratio will be from 8:1 to 15:1.

The Soil Health Calculation uses the CO₂ Burst, Organic Carbon, Organic Nitrogen, and the C/N ratio to generate the soil health number. This calculation looks at the balance of soil carbon and nitrogen and their relationship to microbial activity. This number represents the overall health of your system. Soil values will range from 0 to 25. A soil with a value below 7 would be considered low. You want to see this number increase as you make changes and adjustments. Keeping track of this number will allow you to gauge the effects of your management practices over time.

May 26, 2022 RECEIVED DATE May 23, 2022

ACCOUNT 2595



PAGE 17/18

May 26, 2022

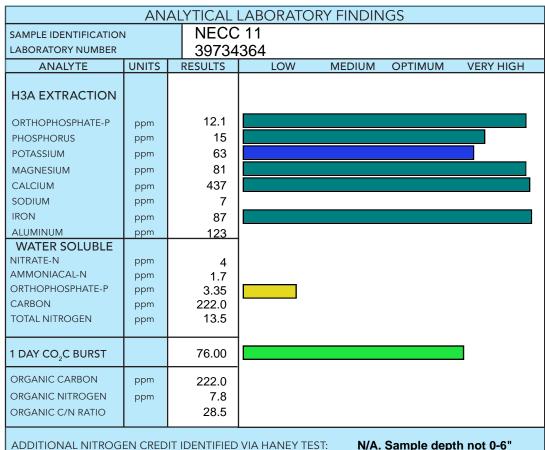
13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 www.midwestlabs.com

IDENTIFICATION

TRENTEE BUSH URBAN FARM **URBAN FARM GRID SAMPLES**

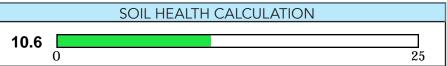
NORTHEAST COMM COLLEGE **801 E BENJAMIN AVE PO BOX 469** NORFOLK NE 68701-

SOIL HEALTH ASSESSMENT



NITROGEN RECOMMENDATIONS MAY INCLUDE ADDITIONAL NITROGEN CREDITS BASED ON PREVI-OUS CROPS AND NITROGEN MINERALIZATION RATES.

The above analytical results apply only to the sample(s) submitted. Samples are retained a maximum of 30 days.



The H3A Soil Extractant was developed by Haney*. This extract is designed to mimic organic acids produced by living plant root systems. These organic acids increase nutrient availability in the root zone.

The Water Soluble Extract provides a snapshot of nutrients that are immediately available to the plants.

The CO, Burst test is very good indicator of soil health. This test measures the amount of CO₂ naturally released from the soil due to the activity of the soil microbes through microbial respiration. This test is very dependent on the amount of carbon that is available to the soil microbes and the form that the carbon is in. As the available carbon increases in your soil the Microbial respiration will increase.

Organic Carbon is the available total water extractable organic carbon from your soil. This pool of carbon is roughly 80 times smaller than the Soil Organic Matter. The organic carbon pool reflects the energy/food source that is driving the soil microbes.

The Organic Nitrogen pool is replenished by fresh plant residues, manure, composts, and dying soil microbes.

The Organic C/N ratio is a critical component of the nutrient cycle. A soil C/N ratio above 20 generally indicates that Nitrogen will be tied up and not available to plants. The ideal range for the Organic C/N ratio will be from 8:1 to 15:1.

The Soil Health Calculation uses the CO₂ Burst, Organic Carbon, Organic Nitrogen, and the C/N ratio to generate the soil health number. This calculation looks at the balance of soil carbon and nitrogen and their relationship to microbial activity. This number represents the overall health of your system. Soil values will range from 0 to 25. A soil with a value below 7 would be considered low. You want to see this number increase as you make changes and adjustments. Keeping track of this number will allow you to gauge the effects of your management practices over time.

May 26, 2022 RECEIVED DATE May 23, 2022

ACCOUNT 2595



PAGE 18/18

May 26, 2022

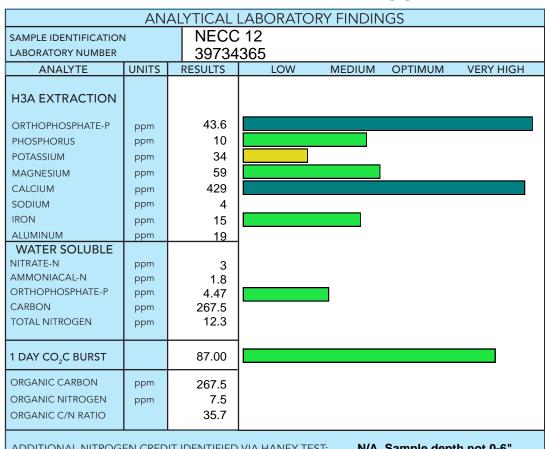
13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 www.midwestlabs.com

IDENTIFICATION

TRENTEE BUSH URBAN FARM URBAN FARM GRID SAMPLES

NORTHEAST COMM COLLEGE **801 E BENJAMIN AVE PO BOX 469** NORFOLK NE 68701-

SOIL HEALTH ASSESSMENT

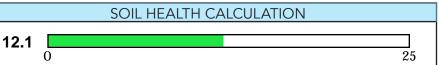


ADDITIONAL NITROGEN CREDIT IDENTIFIED VIA HANEY TEST:

N/A. Sample depth not 0-6"

NITROGEN RECOMMENDATIONS MAY INCLUDE ADDITIONAL NITROGEN CREDITS BASED ON PREVI-OUS CROPS AND NITROGEN MINERALIZATION RATES.

The above analytical results apply only to the sample(s) submitted. Samples are retained a maximum of 30 days.



The H3A Soil Extractant was developed by Haney*. This extract is designed to mimic organic acids produced by living plant root systems. These organic acids increase nutrient availability in the root zone.

The Water Soluble Extract provides a snapshot of nutrients that are immediately available to the plants.

The CO, Burst test is very good indicator of soil health. This test measures the amount of CO₂ naturally released from the soil due to the activity of the soil microbes through microbial respiration. This test is very dependent on the amount of carbon that is available to the soil microbes and the form that the carbon is in. As the available carbon increases in your soil the Microbial respiration will increase.

Organic Carbon is the available total water extractable organic carbon from your soil. This pool of carbon is roughly 80 times smaller than the Soil Organic Matter. The organic carbon pool reflects the energy/food source that is driving the soil microbes.

The Organic Nitrogen pool is replenished by fresh plant residues, manure, composts, and dying soil microbes.

The Organic C/N ratio is a critical component of the nutrient cycle. A soil C/N ratio above 20 generally indicates that Nitrogen will be tied up and not available to plants. The ideal range for the Organic C/N ratio will be from 8:1 to 15:1.

The Soil Health Calculation uses the CO₂ Burst, Organic Carbon, Organic Nitrogen, and the C/N ratio to generate the soil health number. This calculation looks at the balance of soil carbon and nitrogen and their relationship to microbial activity. This number represents the overall health of your system. Soil values will range from 0 to 25. A soil with a value below 7 would be considered low. You want to see this number increase as you make changes and adjustments. Keeping track of this number will allow you to gauge the effects of your management practices over time.