

## Soil Analysis Report



Soils Laboratory 730 Warren Road Ithaca NY 14850 Ph: 800,496,3344

Fax: 607.257.1350 www.dairvone.com

Sample #: 70857710 Date Sampled: 4/18/2011

Date 6/2/2011

Date Mailed: 6/16/2011

Crop, 3 Years Ago:

Crop, 2 Years Ago: Apples Crop, Last Year: Apples

> Plow Depth: Manure: No

Farm Name / Client:

Field / Location: 1322 BRAND NEW ROW

Soil Name: Windsor

Acres:

Statement ID: SARAH KINGSLEY-RICHARDS

**ERICA CUMMINGS UVM EXTENSION** 278 S MAIN ST SAINT ALBANS, VT 05478

		Soil Test Levels
Component	Mod. Morgan, ppm	Very Low Low Medium High Very High
Phosphorus (P)	20.5	Range data not found for soil name; no graph generated.
Potassium (K)	80.7	*****
Calcium (Ca)	1,153.2	*********
Magnesium (Mg)	113.5	*******

	Buffer	Organic	CEC	Excha. Acidity	Nitrate-N	Total N	Sol. Salts		Base :	Saturat	ion Valu	es, %	
pН	pН		meq/100g		ppm		mmhos/cm	K	Ca	Mg	Na	Н	Total
6.4	6.4	4.7		0.92									

			(	Other Nutrients	, ppm			
Na	Al	s	Zn	Mn	Fe	Cu	В	Мо
	8.8		3.4	3.2	0.4			

## Comments

These are general comments. Always consult with your crop adviser for recommendations specific to your farm. Yr0 N rate does not consider N contribution from manure. See Nutrient Recommendations for Field Crops in Vermont for guidelines to credit nutrients from manure

appropriately.http://www.uvm.edu/%7Euvmext/publications/br1390/br1390.pdf http://pss.uvm.

Yr0 Lime rate based on 100% Calcium Carbonate Equivalent (CCE).

Please note: if requested yield goals exceed the stated minimum or maximum, the minimum or maximum value, respectively, will be used to generate recommendations.

Agro-One Soils Laboratory 730 Warren Road Ithaca, NY 14850 Soil Analysis Report

Cornell University College of Agriculture and Life Sciences



Ph: 800.344.2697 ext. 2179 Fax: 607.257.1350

dairyone.com

Sample #: 70853550

Crop, 3 Years Ago:

**Date Sampled:** 

Crop, 2 Years Ago: Crop, Last Year:

Date Received: 5/23/2011

Date Mailed: 6/16/2011

Tillage Depth: Not specified

Manure: No

County:

Field / Location: 1318 BRAND NEW ALLEYS

Soil Name:

Acres:

Statement ID: SARAH KINGSLEY RICHARDS

ERICA CUMMINGS **UVM EXTENSION** 278 S MAIN ST

SAINT ALBANS, VT 05478

	Mod Morgan	Mod Morgan	Morgan Equiv. Ibs/acre	Soil Test Levels					
Component	ppm	lbs/acre		Very Low	Low	Medium	High	Very High	
Phosphorus (P)	16	33	38						
Potassium (K)	76	153							
Calcium (Ca)	955	1,910							
Magnesium (Mg)	88	175							

١	Vater	Calcium Chloride		No Till		Organic Matter	Nitrate-N	HWS Boron	Soluble Salts	Total N
рН	Buffer pH	рН	Buffer pH	рН	Buffer pH	(%)	(ppm)	(lbs/acre)	(mmhos/cm)	(%)
6.4	6.3					3.7				

			Other N	utrients, Mod. Morga	an, Ibs/acre			
ำım (Na)	Aluminum (Al)	Sulfur (S)	Zinc (Zn)	Manganese (Mn)	Iron (Fe)	Copper (Cu)	Boron (B)	Molybdenum (Mo)
	16.1		4.8	6.5	1.0			

## Comments

Nutrient recommendations provided by Cornell University.

These are general comments. Always consult with your crop adviser for recommendations specific to your farm.

For assistance interpreting your report, contact your local Cooperative Extension office.

04/15/2011	1956	ORCH4TOP		1 Acres
PRINT DATE	Account of the	SAMPLE IDENTIFICATION	COUNTY	ACRES OR SQ. FT.

•SOIL TEST REPORT FOR:

TERENCE BRADSHAW
63 CARRIGAN DR, UNIVERSITY OF VT
BURLINGTON VT 05405

MAINE SOIL TESTING SERVICE UNIVERSITY OF MAINE 1865 5722 DEERING HALL ORONO,MAINE 04469-5722

APPLE - Crop Code # 401

Low   MeDium   OPTIMUM   OPTIMUM   Soil pH   6.3   XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	SOIL TEST (see Numerical	SUMM Result	ARY s secti	on for more information)			ABOVE
Soil pH				LOW	MEDIUM	OPTIMUM	<b>OPTIMUM</b>
Organic Matter(%)         3.2         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Soil pH					XXXXX	
Potassium (% Sat) 2.8  Calcium (% Sat) 86.4  Magnesium (% Sat) 10.8  Sulfur (ppm) 5  Boron (ppm) 0.3  Copper (ppm) 0.08  Iron (ppm) 2.8  Manganese (ppm) 2.8  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Organic Mat	tter(%)	3.2	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	CXX		
Potassium (% Sat) 2.8  Calcium (% Sat) 86.4  Magnesium (% Sat) 10.8  Sulfur (ppm) 5  Boron (ppm) 0.3  Copper (ppm) 0.08  Iron (ppm) 2.8  Manganese (ppm) 2.8  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Phoenhorus	3 /15 /71	18 1	***************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		CVVVV
Calcium         (% Sat) 86.4         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	The second secon			XXXXXXXXXXXXXXXXX	CXXXXXXXXXXXXXXX	AAAAAAAAAAAAA	MANA
Magnesium (% Sat) 10.8       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Potassium	(% Sat)	2.8		000000000000000000000000000000000000000	XX	
Sulfur         (ppm)         5         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Calcium	(% Sat)	86.4	XXXXXXXXXXXXXXXXX	OXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXX
Boron (ppm) 0.3 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Magnesium	(% Sat)	10.8	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		XX	
Copper (ppm) 0.08 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Sulfur	(ppm)	5	XXXXXXXXXXXX			1 1
Iron (ppm) 2.8 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Boron	(ppm)	0.3		COOK		1 1
Manganese (ppm) 2.8 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Copper	(ppm)	0.08	XXXXXXXXXXX			1 1
	Iron	(ppm)	2.8	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			1
T. A VVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV	Manganese	(ppm)	2.8		CCCCCCC		
Zinc (ppm) 3.1	Zinc	(ppm)	3.1	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXX	

No lime recommended. Soil pH is at or above the optimum level for this crop.

To meet crop magnesium requirement, use a fertilizer containing magnesium if possible.

Recommended major nutrient application rates as follows:

Nitrogen - see management statements below.

0 pounds phosphate per acre

80 pounds potash per acre

• RECOMMENDED ADDITIONS FOR

Be sure lime and phosphate fertilizers are thoroughly tilled in before planting. After planting, apply 1 oz. actual nitrogen per tree when growth begins (apply 1/4 lb N/tree on established trees). Nitrogen applied later may cause winter kill. Applying fertilizer in 6-8 ft. band on row reduces grass between rows. For established orchards, use foliar analysis in combination with soil analysis to determine nutrient requirements.

For information on micronutrient management and recommendations, see enclosed form.

\*\*NUMERICAL RESULTS\*\*

(Test methodology: pH in water and Mehlich buffer, available nutrients by modified Morgan extract) (Organic matter measured by LOI, P determined colorimetrically, all others measured by ICP-OES)

CEC and nutrient balance calculations are based on present pH of 6.3

Soluble Salts Nitrate-N Ammonium-N

(ppm)

	Level Found	6.3	6.21	48.1	143	168	2218	6.4	2.8	10.8	86.4	0.0
		Soil pH	Lime Index 2	Phosphorus (1b/A)	Potassium (lb/A)	Magnesium (lb/A)	Calcium (lb/A)	CEC (me/100 g	K	Mg (% Satu	Ca ration)	Acidity
-	Optimum Range	6.0-7.0	N/A	9-13	see % Sa	aturation	levels	> 5	2.8-4.0	10-20	60-80	< 10

(ppm)

Level Found	3.2	5	0.08	2.8	2.8	3.1
	Organic Matter(%)	Sulfur (ppm)	Copper (ppm)	Iron (ppm)	Manganese (ppm)	Zinc (ppm)
Normal Range	5 - 8	> 15	.2560	6 - 10	4 - 8	1 - 2
Level	l Laal	NI/A	I NI/A	! 1	n/a	N/A

(mmhos/cm)

Sodium

(ppm)

Found

Normal

Range

Extras

Boron

(ppm)

0.5 - 1.2

Additional Results or Comments:

04/15/2011	1957	ORCH4BOTTOM		1 Acres
PRINT DATE		SAMPLE IDENTIFICATION	COUNTY	ACRES OR SQ. FT.

• SOIL TEST REPORT FOR:

TERENCE BRADSHAW
63 CARRIGAN DR, UNIVERSITY OF VT
BURLINGTON VT 05405

MAINE SOIL TESTING SERVICE
UNIVERSITY OF MAINE 1865
5722 DEERING HALL
ORONO, MAINE 04469-5722

		Level	on for more information	MEDIUM	OPTIMUM	ABOVE OPTIMUI
Soil pH			XXXXXXXXXXXXXXXX	0000000000000000000	COCCOCC	7
Soil pH Organic Ma	tter(%)	1.2	XXXXXXX			
Phosphoru	S(lb/A)	29.5	XXXXXXXXXXXXXXX		000000000000000000000000000000000000000	XXXXXX
Potassium	(% Sat)	3.9	XXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXXXXX	11
Calcium	(% Sat)	86.8	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXX	XXXXXX
Magnesium	(% Sat)	9.4	XXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		
Sulfur	(ppm)		XXXXXXXXXXX			11
Boron	(ppm)	0.2	XXXXXXXXXXXXXX			11
Copper	(ppm)	0.12	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	<u> </u>		11
Iron	(ppm)	2.9	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	CX		11
Manganese	(ppm)	1.5	XXXXXXXXXXXXXXX			
Zinc	(ppm)	1.0	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		CX	

No lime recommended. Soil pH is at or above the optimum level for this crop.

To meet crop magnesium requirement, use a fertilizer containing magnesium if possible.

Recommended major nutrient application rates as follows:

Nitrogen - see management statements below.

0 pounds phosphate per acre

0 pounds potash per acre

Level

Found

Normal

Range

0.2

Boron

(ppm)

0.5 - 1.2

N/A

(ppm)

N/A

(mmhos/cm)

Be sure lime and phosphate fertilizers are thoroughly tilled in before planting. After planting, apply 1 oz. actual nitrogen per tree when growth begins (apply 1/4 lb N/tree on established trees). Nitrogen applied later may cause winter kill. Applying fertilizer in 6-8 ft. band on row reduces grass between rows. For established orchards, use foliar analysis in combination with soil analysis to determine nutrient requirements.

N/A

(ppm)

Sodium Soluble Salts Nitrate-N Ammonium-N

For information on micronutrient management and recommendations, see enclosed form.													
• NUMERICAL RESULTS (Test methodology: pH in water and Mehlich buffer, available nutrients by modified Morgan extract) (Organic matter measured by LOI, P determined colorimetrically, all others measured by ICP-OES)													
CEC and nutrient balance calculations are based on present pH of 6.4													
Level Found	6.4	6.31	29.5	10	7 82	2	1265	3.6	3.9	9.4	86.8	0.0	
	Soil pH	Lime Index 2			Potassium Magnes (1b/A) (1b/		Calcium (lb/A)	CEC (me/100 g	K	Mg (% Satu	Ca ration)	Acidity	
Optimum Range	6.0-7.0	N/A	9-13	see 5	& Saturat	ion	levels	> 5	2.8-4.0	10-20	60-80	< 10	
Level Found	1.2	5	0.12	2.9	1.5	1.		Add:	Additional Results or Comments:				
	Organic Matter(%)	Sulfur (ppm)	Copper (ppm)	Iron (ppm)	Manganese (ppm)	Zi (PF	om)	-					
Normal Range	5 - 8	> 15	.2560	6 - 10	4 - 8	1 -	2						

N/A

(ppm)