

0/08/04	5280	BHH P3 01	AROOSTOOK	7 Acres
DATE	LAB NO.	SAMPLE IDENTIFICATION	COUNTY	ACRES OR SQ. FT.

• SOIL TEST REPORT FOR:

DAVID POTTER
150 CHURCH AVE
FRENCHVILLE ME 04745

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

• RELATIVE SOIL TEST LEVELS

	LOW	MEDIUM	OPTIMUM	ABOVE OPTIMUM
PHOSPHORUS (P)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
POTASSIUM (K)	XXXXXXXXXXXXXXXXXXXXXXXXXXXX			
CALCIUM (Ca)	XXXXXXXXXXXXXXXXXXXXXXXXXXXX			
MAGNESIUM (Mg)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
SULFUR (S)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
SOIL pH	XXXXXXXXXXXXXXXXXXXXXXXXXXXX			
ORGANIC MATTER	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
BORON (B)	XXXXXXXXXXXXXXXXXXXX			

• RECOMMENDATIONS FOR GRASS MIX HAY-TWO CROPS - Crop Code # 105

To raise soil pH to 6.0, apply 0 pounds of lime per acre.
To raise soil pH to 6.5, apply 3500 pounds of lime per acre.
Lime recommendation assumes a calcium carbonate equivalence (neutralizing value) of 100 %.
Magnesium level is sufficient. Use a calcitic (low magnesium) lime.
Recommended major nutrient application rates as follows:
120 pounds nitrogen per acre
60 pounds phosphate per acre
260 pounds potash per acre

Apply 80 lb nitrogen in early spring.
Apply 40 lb nitrogen before each additional cut or grazing.
P and K requirements can be split or applied all at once.

Notes on dairy forage potassium: Any potash fertilizer recommended is for forage grown for lactating cows. Ideally, 8 - 10 % of your hay ground should be kept at a low-medium K test level to maintain forage level at or below 2 % K. Hay grown on this ground should be stored separately and fed to dry cows starting at least one month prepartum.

• LABORATORY RESULTS

CEC and nutrient balance calculations assume the pH will be raised to 6.5

Level Found	6.1	5.81	25.4	164	527	2479	11.7(A)	1.8	17.4	49.7	31.1
	Soil pH	Lime Index 2	P (lb/A)	K (lb/A)	Mg (lb/A)	Ca (lb/A)	CEC (me/100gm)	K (% Saturation)	Mg (% Saturation)	Ca (% Saturation)	Acidity
Optimum Range	6.0-7.0	N/A	10-40	see % Saturation levels			> 5	2.8-4.0	10-25	60-80	< 10
Level Found	8.2	19	0.3	N/A	N/A	N/A	N/A	Additional Results			
	Organic Matter (%)	Sulfur (ppm)	Boron (ppm)	Zinc (ppm)	Sodium (ppm)	Sol. Salts (mmhos/cm)	Nitrate-N (ppm)				
Optimum Range	5 - 8	> 15	0.5-1.2								

0/08/04	5279	BHH P2 02	AROOSTOOK	7 Acres
DATE	LAB NO.	SAMPLE IDENTIFICATION	COUNTY	ACRES OR SQ. FT.

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FRENCHVILLE ME 04745

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• RELATIVE SOIL TEST LEVELS

	LOW	MEDIUM	OPTIMUM	ABOVE OPTIMUM
PHOSPHORUS (P)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
POTASSIUM (K)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			XXXX
CALCIUM (Ca)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
MAGNESIUM (Mg)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
SULFUR (S)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
SOIL pH	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
ORGANIC MATTER	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
BORON (B)	XXXXXXXXXXXXXXXXXXXXXXXXXXXX			

• RECOMMENDATIONS FOR GRASS MIX HAY-TWO CROPS - Crop Code # 105

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

Magnesium level is sufficient to meet crop requirement.

Recommended major nutrient application rates as follows:

120 pounds nitrogen per acre
60 pounds phosphate per acre
0 pounds potash per acre

Apply 80 lb nitrogen in early spring.

Apply 40 lb nitrogen before each additional cut or grazing.

P and K requirements can be split or applied all at once.

• LABORATORY RESULTS

CEC and nutrient balance calculations are based on present pH of 6.4

Level Found	6.4	6.02	30.4	328	474	10578	9.3(A)	4.5	20.8	74.8	0.0
	Soil pH	Lime Index 2	P (lb/A)	K (lb/A)	Mg (lb/A)	Ca (lb/A)	CEC (me/100gm)	K	Mg (% Saturation)	Ca	Acidity
Optimum Range	6.0-7.0	N/A	10-40	see % Saturation levels			> 5	2.8-4.0	10-25	60-80	< 10

Level Found	7.0	15	0.4	N/A	N/A	N/A	N/A	Additional Results			
	Organic Matter (%)	Sulfur (ppm)	Boron (ppm)	Zinc (ppm)	Sodium (ppm)	Sol. Salts (mmhos/cm)	Nitrate-N (ppm)				
Optimum Range	5 - 8	> 15	0.5-1.2								

10/08/04	5278	BHH P2 01	AROOSTOOK	7 Acres
DATE	LAB NO.	SAMPLE IDENTIFICATION	COUNTY	ACRES OR SQ. FT.

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• RELATIVE SOIL TEST LEVELS

	LOW	MEDIUM	OPTIMUM	ABOVE OPTIMUM
PHOSPHORUS (P)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
POTASSIUM (K)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
CALCIUM (Ca)	XXXXXXXXXXXXXXXXXXXX			
MAGNESIUM (Mg)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
SULFUR (S)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
SOIL pH	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
ORGANIC MATTER	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
BORON (B)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			

• RECOMMENDATIONS FOR GRASS MIX HAY-TWO CROPS - Crop Code # 105

To raise soil pH to 6.0, apply 0 pounds of lime per acre.

To raise soil pH to 6.5, apply 4500 pounds of lime per acre.

Lime recommendation assumes a calcium carbonate equivalence (neutralizing value) of 100 %. Magnesium level is sufficient. Use a calcitic (low magnesium) lime.

Recommended major nutrient application rates as follows:

120 pounds nitrogen per acre

50 pounds phosphate per acre

80 pounds potash per acre

Apply 80 lb nitrogen in early spring.

Apply 40 lb nitrogen before each additional cut or grazing.

P and K requirements can be split or applied all at once.

Limit lime topdress rate to 4000 lb/A in any one year.

Notes on dairy forage potassium: Any potash fertilizer recommended is for forage grown for lactating cows. Ideally, 8 - 10 % of your hay ground should be kept at a low-medium K test level to maintain forage level at or below 2 % K. Hay grown on this ground should be stored separately and fed to dry cows starting at least one month prepartum.

• LABORATORY RESULTS

CEC and nutrient balance calculations assume the pH will be raised to 6.5

Level Found	5.9	5.71	36.2	357	545	1736	11.7	3.9	19.0	36.8	40.3
	Soil pH	Lime	P	K	Mg	Ca	CEC	K	Mg	Ca	Acidit
		Index 2	(lb/A)	(lb/A)	(lb/A)	(lb/A)	(me/100gm)		(% Saturation)		
Optimum Range	6.0-7.0	N/A	10-40	see % Saturation levels			> 5	2.8-4.0	10-25	60-80	< 10
Level Found	6.5	13	0.4	N/A	N/A	N/A	N/A	Additional Results			
	Organic Matter (%)	Sulfur (ppm)	Boron (ppm)	Zinc (ppm)	Sodium (ppm)	Sol. Salts (mmhos/cm)	Nitrate-N (ppm)				
Optimum Range	5 - 8	> 15	0.5-1.2								

0/08/04	5277	BHH P1 02	AROOSTOOK	7 Acres
DATE	LAB NO.	SAMPLE IDENTIFICATION	COUNTY	ACRES OR SQ. FT.

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• RELATIVE SOIL TEST LEVELS

	LOW	MEDIUM	OPTIMUM	ABOVE OPTIMUM
PHOSPHORUS (P)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX
POTASSIUM (K)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
CALCIUM (Ca)	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
MAGNESIUM (Mg)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
SULFUR (S)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
SOIL pH	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
ORGANIC MATTER	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
BORON (B)	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	

• RECOMMENDATIONS FOR GRASS MIX HAY-TWO CROPS - Crop Code # 105

To raise soil pH to 6.0, apply 0 pounds of lime per acre.
To raise soil pH to 6.5, apply 4000 pounds of lime per acre.
Lime recommendation assumes a calcium carbonate equivalence (neutralizing value) of 100 %.
Magnesium level is sufficient. Use a calcitic (low magnesium) lime.
Recommended major nutrient application rates as follows:
120 pounds nitrogen per acre
0 pounds phosphate per acre
170 pounds potash per acre

Apply 80 lb nitrogen in early spring.
Apply 40 lb nitrogen before each additional cut or grazing.
P and K requirements can be split or applied all at once.

Notes on dairy forage potassium: Any potash fertilizer recommended is for forage grown for lactating cows. Ideally, 8 - 10 % of your hay ground should be kept at a low-medium K test level to maintain forage level at or below 2 % K. Hay grown on this ground should be stored separately and fed to dry cows starting at least one month prepartum.

• LABORATORY RESULTS

CEC and nutrient balance calculations assume the pH will be raised to 6.5

Level Found	6.0	5.78	41.5	291	677	2073	12.4	3.0	22.5	41.7	32.9
	Soil pH	Lime Index 2	P (lb/A)	K (lb/A)	Mg (lb/A)	Ca (lb/A)	CEC (me/100gm)	K	Mg (% Saturation)	Ca	Acidity
Optimum Range	6.0-7.0	N/A	10-40	see % Saturation levels			> 5	2.8-4.0	10-25	60-80	< 10
Level Found	6.9	14	0.3	N/A	N/A	N/A	N/A	Additional Results			
	Organic Matter (%)	Sulfur (ppm)	Boron (ppm)	Zinc (ppm)	Sodium (ppm)	Sol. Salts (mmhos/cm)	Nitrate-N (ppm)				
Optimum Range	5 - 8	> 15	0.5-1.2								

0/08/04	5276	BHH P1 01	AROOSTOOK	7 Acres
DATE	LAB NO.	SAMPLE IDENTIFICATION	COUNTY	ACRES OR SQ. FT.

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• RELATIVE SOIL TEST LEVELS

	LOW	MEDIUM	OPTIMUM	ABOVE OPTIMUM
PHOSPHORUS (P)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
POTASSIUM (K)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
CALCIUM (Ca)	XXXXXXXXXXXXXXXXXXXXXXXXXXXX			
MAGNESIUM (Mg)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
SULFUR (S)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
SOIL pH	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
ORGANIC MATTER	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
BORON (B)	XXXXXXXXXXXXXXXXXXXXXXXXXXXX			

• RECOMMENDATIONS FOR GRASS MIX HAY-TWO CROPS - Crop Code # 105

To raise soil pH to 6.0, apply 0 pounds of lime per acre.
To raise soil pH to 6.5, apply 3000 pounds of lime per acre.
Lime recommendation assumes a calcium carbonate equivalence (neutralizing value) of 100 %.
Magnesium level is sufficient. Use a calcitic (low magnesium) lime.

Recommended major nutrient application rates as follows:

120 pounds nitrogen per acre
50 pounds phosphate per acre
140 pounds potash per acre

Apply 80 lb nitrogen in early spring.

Apply 40 lb nitrogen before each additional cut or grazing.

P and K requirements can be split or applied all at once.

Notes on dairy forage potassium: Any potash fertilizer recommended is for forage grown for lactating cows. Ideally, 8 - 10 % of your hay ground should be kept at a low-medium K test level to maintain forage level at or below 2 % K. Hay grown on this ground should be stored separately and fed to dry cows starting at least one month prepartum.

• LABORATORY RESULTS

CEC and nutrient balance calculations assume the pH will be raised to 6.5

Level Found	6.2	5.92	33.8	291	745	2167	11.3(A)	3.3	26.2	46.1	24.5
	Soil pH	Lime Index 2	P (lb/A)	K (lb/A)	Mg (lb/A)	Ca (lb/A)	CEC (me/100gm)	K	Mg (% Saturation)	Ca	Acidit
Optimum Range	6.0-7.0	N/A	10-40	see % Saturation levels			> 5	2.8-4.0	10-25	60-80	< 10

Level Found	7.0	12	0.3	N/A	N/A	N/A	N/A	Additional Results			
	Organic Matter (%)	Sulfur (ppm)	Boron (ppm)	Zinc (ppm)	Sodium (ppm)	Sol. Salts (mmhos/cm)	Nitrate-N (ppm)				
Optimum Range	5 - 8	> 15	0.5-1.2								



Dairy One

FORAGE LABORATORY

730 Warren Road, Ithaca, NY 14850
Ph: 800.496.3344 • Fax: 607.257.1350
<http://www.dairyone.com>

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DATE SAMPLED	LAB RECEIVED	DATE PRINTED	STATE	CO	FARM
	10/08/04	10/08/04			

DAVID POTTER
150 CHURCH AVE
FRENCHVILLE, ME 04745

ENERGY TABLE - NRC 2001

Body Wt = 1350 Fat % = 3.7 Tprot % = 3.1

Milk, Lb	NEL Mcal/Lb	NEL Mcal/Kg	Milk, Kg
Dry	0.55	1.22	Dry
40	0.53	1.17	18
60	0.51	1.12	27
80	0.48	1.06	36
100	0.45	0.99	45
120+	0.41	0.91	54+

NEM3X	0.52	1.15
NEG3X	0.27	0.59
ME1X	0.91	2.01
DE1X	1.11	2.44
TDN1X,%	55	

COMMENTS:

- 1.NRC ENERGIES - SMALL BREEDS - DO NOT USE ENERGIES BEYOND 80 LBS. MILK. LARGE BREEDS - USE 120 LB. ENERGY WITH EXTREME CAUTION.
- 2.HORSE ENERGIES CONFORM TO THE 1989 NRC NUTRIENT REQUIREMENTS OF HORSES.

SAMPLE DESCRIPTION	FARM	CODE	LAB SAMPLE
MMG HAY		102	794255
S A R E HAY			
ANALYSIS RESULTS			
COMPONENTS	AS SAMPLED BASIS	DRY MATTER BASIS	
% Moisture	7.8		
% Dry Matter	92.3		
% Crude Protein	9.2	10.0	
% Adjusted Crude Protein	9.2	10.0	
Soluble Protein % CP		25	
% Acid Detergent Fiber	38.5	41.7	
% Neutral Detergent Fiber	62.0	67.2	
% NFC	15.7	17.0	
% TDN	51	55	
NEL, (Mcal/Lb)	.42	.45	
NEM, (Mcal/Lb)	.43	.47	
NEG, (Mcal/Lb)	.20	.22	
Relative Feed Value		78	
% Calcium	.51	.55	
% Phosphorus	.24	.26	
% Magnesium	.18	.20	
% Potassium	1.83	1.98	
Horse TDN, %	40	43	
Horse DE, Mcal/lb	.80	.86	