



Soil Report
Berries

Test Data

pH - Soil	5.60			Optimum Range (See Below)
Calcium, Mehlich 3 (Ca)	345.30 (ppm)	L		800 - 1200
Magnesium, Mehlich 3 (Mg)	57.00 (ppm)	L		60 - 120
Potassium, Mehlich 3 (K)	27.00 (ppm)	L		170 - 280
Phosphorus, Mehlich 3 (P)	42.00 (ppm)	M		30 - 50
Lead, Mehlich 3 (Pb)	5.30 (ppm)	VL		
Org. Matter, LOI-360 (OM)	4.31 (%)			
Optimum Range Key				
VL - Very Low	L - Low	M - Medium	H - High	VH - Very High

Lead Screening Results

Generally, it is considered safe to use garden produce grown on soils with UNH soil test lead values of less than 180 ppm (This is equivalent to the US EPA total lead level of 400 ppm using their testing procedure). The lead level in your soil sample is 5, and is in the **Very Low** range. Based on your results:

- No special precautions are necessary

These lead comments pertain only to vegetable gardens. If any of this area is to be used for vegetable production in the future, these comments would apply.

Recommendations

Blueberries (pH range 4.5 - 4.8)

Conventional Fertilizer Recommendations

New Planting

Sulfur: Apply 1.9 lbs of Sulfur per 100 sq ft and mix thoroughly in the top 4-6 inches.

Nutrient:

Nutrient Recommendations			
Nutrient	Ammonium Sulfate	Superphosphate	Muriate of Potash
Apply the equivalent of (per 100 sq. ft.)	1 lbs.	1.25 lbs.	.5 lbs.

Existing Plantings

Sulfur: Apply 1.9 lbs of sulfur per 100 sq ft and mix lightly into the surface. Water in thoroughly.

Nitrogen:

Age of Planting	*oz/plant (21-0-0) Ammonium Sulfate
2 nd year	1
3 rd year	2
4 th year	3
5 th year +	5

*Split application; 1/2 - prebloom, 1/2 - 3 weeks later

Phosphorous: 3 oz. (0-20-0) Superphosphate per bush

Potassium: 3 oz. Potassium Sulfate (0-0-50) per bush

OR

Organic Fertilizer Recommendations

New Planting

Sulfur: Apply 1.9 lbs of Sulfur per 100 sq ft and mix thoroughly in the top 4-6 inches.

Nutrient:

Organic Nutrient Recommendations			
Nutrient	Nitrogen	Phosphorus	Potash
Apply the equivalent of (per 100 sq. ft.)	0.25 lbs.	0.25 lbs.	0.25 lbs.

An equivalent organic source for 0.25 lbs of Nitrogen include; 4 lbs of cottonseed meal OR 4 lbs of soybean meal, OR 2 lbs of dried blood.

An equivalent organic source for 0.25 lbs of Phosphorus include; 1 lbs of rock phosphate OR 1 lbs of steamed bonemeal.

An equivalent organic source for 0.25 lbs of Potash include; 1 lbs of sul-po-mag, OR 1 lbs of potassium sulfate.

Composted manure is an excellent source of all three nutrients, but should not be used as the sole source on a long term basis.

Existing Plantings

Sulfur: Apply 1.9 lbs of sulfur per 100 sq ft and mix lightly into the surface. Water in thoroughly.

Nitrogen:

Age of Planting	Cottonseed Meal (6-2-2) *oz per plant	Soybean Meal (7-2-2) *oz per plant	Dried Blood (12-1-1) *oz per plant
2 nd year	3.5	3	1.75
3 rd year	7	6	3.5
4 th year	10.5	9	5.25
5 th year +	14	12	7

*Split application; 1/2 - prebloom, 1/2 - 3 weeks later

Phosphorous: 9 oz. Rock Phosphate per bush

Potassium: 3 oz. Potassium Sulfate (0-0-50) per bush

Raspberries/Blackberries (pH range 6.0 - 6.5)

Conventional Fertilizer Recommendations

New Planting

Lime: Apply 9 lbs of Limestone per 100 sq ft and mix lightly into the surface.

Nutrient:

Nutrient Recommendations			
Nutrient	Calcium Nitrate	Superphosphate	Muriate of Potash
Apply the equivalent of (per 100 sq. ft.)	1.5	1.25	.5

Existing Plantings

Nutrient:

Nutrient Recommendations			
Nutrient	Calcium Nitrate	Superphosphate	Muriate of Potash
Apply the equivalent of (per 100 sq. ft.)	1.5	0	.5

OR

Organic Fertilizer Recommendations

New Planting

Lime: Apply 9 lbs of Limestone per 100 sq ft and mix lightly into the surface.

Nutrient:

Organic Nutrient Recommendations			
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Nutrient	Nitrogen	Phosphorus	Potash
Apply the equivalent of (per 100 sq. ft.)	0.25	0.25	0.25

An equivalent organic source for 0.25 lbs of Nitrogen include; 4 lbs of cottonseed meal OR 4 lbs of soybean meal, OR 2 lbs of dried blood.

An equivalent organic source for 0.25 lbs of Phosphorus include; 1 lbs of rock phosphate OR 1 lbs of steamed bonemeal.

An equivalent organic source for 0.25 lbs of Potash include; 1 lbs of sul-po-mag, OR 1 lbs of potassium sulfate.

Composted manure is an excellent source of all three nutrients, but should not be used as the sole source on a long term basis.

Existing Plantings

Nutrient:

Organic Nutrient Recommendations			
Nutrient	Nitrogen	Phosphorus	Potash
Apply the equivalent of (per 100 sq. ft.)	0.15	0	0.2

An equivalent organic source for 0.15 lbs of Nitrogen include; 3 lbs of cottonseed meal OR 3 lbs of soybean meal, OR 1 lbs of dried blood.

An equivalent organic source for 0.2 lbs of Potash include; 1 lbs of sul-po-mag, OR .5 lbs of potassium sulfate.

Composted manure is an excellent source of all three nutrients, but should not be used as the sole source on a long term basis.

General Comments

UNHCE recommends that soil tests be performed every two years to ensure that proper recommendations are made.

The recommendations made in this report are based on the current conditions of your soil. The addition of amendments or fertilizers may alter your soil conditions.

Specific fertilizer analyses are recommended for the purpose of simplicity. No endorsement of products is intended nor discrimination against similar products not mentioned.

For help in determining the suitability of other fertilizers and calculating application rates for them, please call the Education Center & Info Line at 877-EXT-GROW, Mon-Fri 9 a.m. - 2 p.m. answers@unh.edu

References

For more information, please refer to the following:

[*Lead Screening for NH Soils: Minimizing Health Risks*](#)

[*Understanding your soil test*](#)

[*Slow-Release Fertilizers for Home Gardens and Landscapes*](#)

[*Fertilizing the Organic Garden*](#)

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