

WESTERN LABORATORIES, INC.

• Parma, Idaho 83660 • 800-658-3858
 http://www.westernlaboratories.com

Lab Number
9340

Date:

Client:

Gardner:

Garden ID:

Garden, Berries, Fruit Trees & Lawn Soil Report

ELEMENT	ANSWER	INTERP	Should Be	ELEMENT	ANSWER	INTERP	Should Be
pH-Soil	5.0	Strongly Acidic		Potassium-ppm	254	Adequate	350 +
pH-SMP	5.9	Moderately Acidic		Sulfate-ppm	9	Very Low	20 +
Soluble Salts	3.00	Very High	< 1.5	Calcium-ppm	1152	Low	1,500 +
% Lime	0	Good		Magnesium-ppm	224	Adequate	350 +
% Organic Matter	2.3	Low		Sodium-ppm	300	Too High	< 150
Nitrates-ppm	3	Very Low	35 +	Zinc-ppm	0.9	Low	1.5 - 3.0
Ammonium-ppm				Copper-ppm	0.7	Low	1.2 - 2.5
Phosphorus-ppm	10	Very Low	40 +	Manganese-ppm	33	High	6 - 30
Phos-ppm-Bray				Iron-ppm	197	Adequate	25+
				Boron-ppm	0.1	Very Low	0.8 - 1.2

Texture	Loam	
Cation Exchange Capacity - CEC	40	
Percent Base Saturation	24	
BASES	IDEAL	YOURS
Calcium-% of CEC	65-80%	14
Magnesium-% of CEC	10-20%	5
Potassium-% of CEC	2-6%	2
Sodium-% of CEC	< 5%	3
Hydrogen-% of CEC	< 15%	76

**SEE
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FOR
CROPS**

CHARACTERISTICS

Tip burn and Chlorosis may occur. Strawberries and beans will suffer a 50% reduction in yield. Leafy crops will show marginal browning and spotting on leaves. Irrigate 1.25 times the crop's need.

Very high nutrient and very high water holding capacity. These soils tend to clod and are sticky. Do not over irrigate from midseason to harvest because these soils are nonforgiving.

Significant crusting and clodding problems expected after planting

Severe cropping limitations due to sodium. Follow the tutorial guidelines for what crops to plant.

"Always practice the laws of Agronomy."

John P. Taberna, Soil Scientist

Ratio	Ideal	Yours	Evaluation	Recommendations
N:S	10:1	0:1	Low	watch N
Ca:Mg	6-20:1	5:1	Low	watch Ca
Ca:K pH >7	15:1	:1		
Ca:K pH <7	10:1	5:1	Low	watch Ca
Ca:P pH >7	100:1	:1		
Ca:P pH <7	40:1	115:1	High	watch P
P:Zn	15:1	11:1	Low	watch P
P:Mn	4:1	0:1	Low	
P:Cu	25:1	14:1	Low	watch P
Zn:Cu	2:1	1:1	Low	watch Zn
Mn:Zn	3:1	37:1	High	watch Zn
Mn:Cu	5:1	47:1	High	watch Cu
K:B	200:1	2540:1	High	watch B
Mg:K	2:1	1:1	Low	watch Mg

RECOMMENDATIONS IN POUNDS PER 1,000 SQUARE FEET							
GROUP	GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
Nitrogen*	1.8	5.4	3.6	3.1	4.1	4.1	3.6
Phosphorus	1.6	5.7	3.2	2.5	3	4.4	3.4
Potassium		4.5		1.1	2.2	3.4	1.1
Sulfate Sulfur	.5	.9	.7	.7	1.3	.9	.5
Elemental Sulfur							
Reclamation Iron							
Gypsum	483	568	483	511	568	454	568
Lime	61	51	41	43	41	43	71
RECOMMENDATIONS IN OUNCES PER 1,000 SQUARE FEET							
Magnesium	3	4.1	3.7	3.3	2.6	2.8	3.1
Zinc	1.5	2.8	2.2	1.5	2.4	1.5	1.5
Plant Food Iron							
Manganese							
Copper	.5	.8	.5	.5	.5	.5	.5
Boron	.7	.7	.7	.7	.7	.7	.7

* Split apply nitrogen. Do not apply more than five pounds of fertilizer on established vegetation at one time. Always irrigate following fertilization on established crop. Over and under irrigation is a major cause of poor plant appearance.

**Western
Laboratories
Garden
Categories**

GROUP 1

- Alfalfa
- Beans (all edible)*
- Clover
- Faba Beans*
- Grapes
- Peas (all)*
- Vetch

GROUP 2

- Bell Peppers
- Celery
- Egg Plant
- Potatoes
- Sweet Corn
- Tomatoes
- Sweet Potatoes
- Lawn

GROUP 3

- GIANT PUMPKINS
- Blackberries
- Cantaloupe
- Cucumbers
- Loganberries
- Marionberries
- Muskmelons
- Small Pumpkins
- Raspberries
- Squash, Summer & Winter
- Watermelon
- Blueberries
- Strawberries
- Gooseberries
- Fruit Trees

GROUP 4

- Bok Choy
- Collards
- Greens
- Herbs (all)
- Lettuce
- Mustard
- Okra
- Spinach

GROUP 5

- Chives
- Garlic
- Leek
- Onions
- Shallots
- Asparagus

GROUP 6

- Beets
- Carrots
- Parsnips
- Radishes
- Rutabaga
- Turnips

GROUP 7

- Broccoli
- Brussels Sprouts
- Cabbage
- Caulifloweer
- Currants
- Kale
- Kohlrabi

**Do not apply Boron to these crops. Boron requirements are very low and some yield may be affected.*