



OrganiCalc for Vegetables - Logan Labs

Report name: **Main Garden** Test Date: 7/23/2020 Today: 01/18/22
 *Email address: alice@growabundant.com
 Next crop: Veggies Last crop: Veggies
 *Soil test report: Logan Labs Std M3 w/ extras
 Target cations: Default (Ca:Mg = 68%:12%)

Logan Labs Std M3 w/ extras Test Report

Sample Location	Main
Sample ID	Garden
Lab Number	
* Sample Depth in Inches	6
* Total Exchange Capacity (M.E.)	10.98
* pH of Soil Sample	7.70
* Organic Matter (%)	3.19
* Sulfur: ppm	61
Mehlich III as (P2O5)	
* Phosphorus lbs/acre	915
Calcium: Desired value	
* lbs/acre Value found	3357
Deficit	
Magnesium: Desired value	
* lbs/acre Value found	441
Deficit	
Potassium: Desired value	
* lbs/acre Value found	181
Deficit	
* Sodium: lbs/acre	53
* Calcium (60 to 70%)	76.42
* Magnesium (10 to 20%)	16.73
* Potassium (2 to 5%)	2.11
* Sodium (.5 to 3%)	1.05
Other Bases (Variable)	3.70
Exchangable Hydrogen (10 to 15%)	0.00
* Boron (ppm)	0.77
* Iron (ppm)	123
* Manganese (ppm)	47
* Copper (ppm)	4.95
* Zinc (ppm)	12.94
Aluminum (ppm)	166
Cobalt (ppm)	0.74
Molybdenum (ppm)	2.32
Ammonium (ppm)	
Nitrate (ppm)	
Selenium (ppm)	0.29
Silicon (ppm)	10
EC mmhos/cm	0.26

(* = required entry)

Alerts

<> Your soil may contain free calcium. Conduct a 'fizz' test.

<> Check box override is active

Click switch to override an error message, if present. Use with caution!

[Nitrogen has moved to the next tab]

Enter Area To Be Amended and Select Units:

-----> 800 sq feet
 lbs/oz

Enter Depth To Mix Amendments

-----> 6 inches

Choose N amount and sources

Choose Target Nitrogen Amount

150

lbs/acre

or enter here -->

Best fit source will have this N-P-K: 1.5 - 0 - 1.9

<https://growabundant.com/how-much-nitrogen-shall-i-add/>

Choose up to 2 Compost/Nitrogen Sources

1) Composted Chicken Manure (3-2-2)

or enter your own

Name:

N

P

K

P as P2O5, K as K2O

2) Feather Meal (12-0-0)

Do these amendments supply the target NPK?

		% of target supplied	
Nitrogen?	yes	100%	
Phosphorus?	no	0%	If P and K are not 100%, OrganiCalc
Potassium?	no	0%	may recommend more in mineral form

Amendment Recommendations

Report name: Main Garden

Test Date: 7/23/2020

Recommended Amendments for 800 sq feet

	Amt	Units	Notes
Kelp and/or Azomite, combined (for trace minerals)	8	lbs	5
Feather Meal (12-0-0)	23	lbs	
Potassium Sulfate	7	lbs	
Tiger-90 Elemental Sulfur	5.5	lbs	11
Borax	7.3	oz	
Cobalt (Co) Sulfate Heptahydrate	2.3	oz	
Total weight of all amendments	44		

Notes:

<> A handful or two of vermicompost dug in under transplants can increase yields substantially. Inoculate with mycorrhizae and other beneficial microbes. Apply compost as it is available. Try to get organic matter to 5%; 10% is better, 30% is more than enough. The compost I can make or purchase is best used as mulch. I cover it with a bit of straw to keep it moist and alive, and decaying in place. A one-time or cumulative application of 0.6" of biochar will improve yields and quality in about 3 years.

2 <> Amount per application limit was reached for these elements, compounds and/or amendments: Tiger-90 Elemental Sulfur. Retest next year

5 <> Alternatively, foliar feed Kelp every 2 weeks or as needed to supply trace minerals. Soil applied trace mineral amounts may be reduced after the initial application.

11 <> This soil has a pH greater than 7.2 and is not fizzy and is therefore a candidate for pH adjustment. A total of 401 lbs/acre of elemental sulfur will lower the soil pH to 6.8. Sulfur is likely to diminish potassium reserves; retest every 6 months. In addition to the 6 lbs of Tiger-90 elemental sulfur in this application it is estimated that 18 oz more will be required. Tiger-90 applications are limited to a maximum of 300 lbs/acre once or (rarely) twice a year.

20 <> Available silicon has been found to be beneficial to plants. Foliar feed potassium silicate as a mildew preventative (check with your certifier). Soil-applied basalt rock dust has also been shown to supply silicon in low pH, weathered soils.

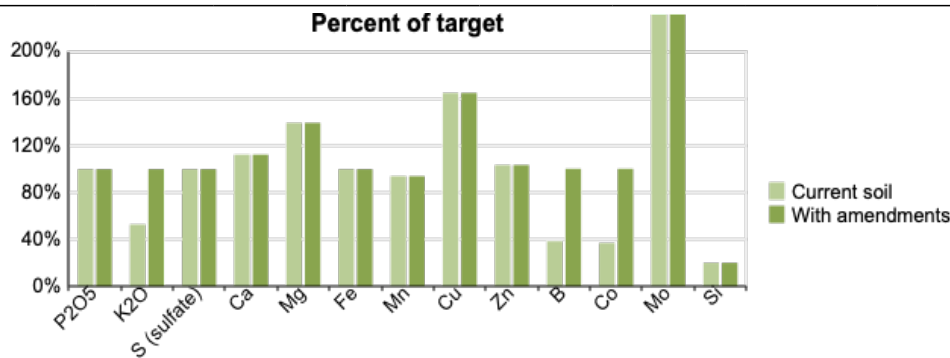
Additional Comments:

End of Amendment Report

Test Date: 7/23/2020

Analysis Details (6" furrow depth)

	Measured (lbs/ac)	Target %	Target (lbs/acre)	Measurement percent of target	Application limit (lbs/ac)	Amount needed (lbs/ac)	Amount to be applied (lbs/ac)	Measured plus amount to be applied (lbs/ac)	How'd we do? % of target this application
N	--		150			150	150		100%
P2O5	915		572	160%	400	0	0	915	160%
P	400		250	160%	175	0	0	400	160%
K	181	4.0%	343	53%	100000	162	162	343	100%
K2O	218		413	53%	100000	195	195	413	100%
S (as sulfate)	122		80	153%	100000	0	68	190	238%
S (as elemental)	-		270	-	270	270	270	-	100%
Ca	3357	68%	2987	112%	100000	0	0	3357	112%
Mg	441	12%	316	139%	285	0	0	441	139%
Fe	246		120	205%	100000	0	0	246	205%
Mn	94		100	94%	100000	0	0	94	94%
Cu	9.9		6	165%	100000	0.0	0.0	9.9	165%
Zn	25.9		25	104%	100000	0.0	0.0	25.9	104%
B	1.5		4.0	39%	100000	2.5	2.5	4.0	100%
Na	53	1.0%	51	105%	100000	0	0	53	
Co	1.48		4	37%	100000	2.5	2.5	4.0	100%
Mo	4.64		2	232%	100000	0.0	0.0	4.6	232%
Si	20		100	20%	100000	80	0	20	20%



Main Garden

Note: P ranging between 250 and 500 lbs/ac. has been set to 100% and has been divided in half above 500 lbs/ac. Fe above 100% has been set to 100%. Sulfur between 100% and 400% target has been set to 100% and has been divided by 4 above 400%.

