



OrganiCalc for Vegetables - Logan Labs

Report name: **New Beds** Test Date: 11/20/20 Today: 3/29/2021

*Email address: megan@creativevegetablegardener.com

Next crop: Last crop:

*Soil test report: Logan Labs Std M3

Target cations: Default (Ca:Mg = 68%:12%)

Logan Labs Std M3 Test Report

Sample Location	
Sample ID	
Lab Number	
* Sample Depth in Inches	6
* Total Exchange Capacity (M.E.)	16.64
* pH of Soil Sample	8.00
* Organic Matter (%)	8.71
* Sulfur: ppm	26
Mehlich III as (P2O5)	
* Phosphorus lbs/acre	682
Calcium: Desired value	
* lbs/acre Value found	3747
Deficit	
Magnesium: Desired value	
* lbs/acre Value found	1309
Deficit	
Potassium: Desired value	
* lbs/acre Value found	875
Deficit	
* Sodium: lbs/acre	60
* Calcium (60 to 70%)	56.30
* Magnesium (10 to 20%)	32.78
* Potassium (2 to 5%)	6.74
* Sodium (.5 to 3%)	0.79
Other Bases (Variable)	3.40
Exchangable Hydrogen (10 to 15%)	0.00
* Boron (ppm)	1.01
* Iron (ppm)	206
* Manganese (ppm)	82
* Copper (ppm)	2.35
* Zinc (ppm)	7.35
Aluminum (ppm)	414

(* = required entry)

Alerts

Click switch to override an error message, if present.

Choose Target Nitrogen Amount

150 lbs/acre

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

Choose Compost/Nitrogen Sources

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

1: Alfalfa Meal (2.5-0.5-2.5)

2: Feather Meal (12-0-0)

Or enter your own:

	N	P	K
		(as P2O5)	(as K2O)

Enter Area To Be Amended and Select Units:

-----> 32 sq feet

lbs/oz

Enter Depth To Mix Amendments

-----> 6 inches

Amendment Recommendations

Amendment Recommendations

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Test Date: 11/20/20

Recommended Amendments for 32 sq feet

	Amt	Units	Notes
Azomite (for trace minerals)	5	oz	5
Gypsum	3	lbs	16
Feather Meal (12-0-0)	15	oz	4
Tiger-90 Elemental Sulfur	4	oz	11
Biomin Copper (4% Cu)	1.56	oz	10
Zinc (Zn) Sulfate (monohydrate)	0.35	oz	
Borax	0.23	oz	
<hr/>			
Total weight of all amendments	4	lbs	

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

4 <> See <https://growabundant.com/how-much-nitrogen-shall-i-add> for advice on Nitrogen.

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.

10 <> 1.56 oz of Biomin Copper has a liquid volume of 1.3 fl oz. Alternatively, 0.2 oz of (Blue) Copper Sulfate Pentahydrate, an organic fungicide, may be used.

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 707 lbs/acre of elemental sulfur will lower the soil pH to 6.8. In addition to the 4 oz of Tiger-90 elemental sulfur in this application it is estimated that 5 oz more will be required. Tiger-90 applications are limited to a maximum of 300 lbs/acre once or (rarely) twice a year.

16 <> Application of sulfur containing materials (Gypsum,) can be split over 2 years.

Additional Comments:

End of Amendment Report

Test Date: 11/20/20

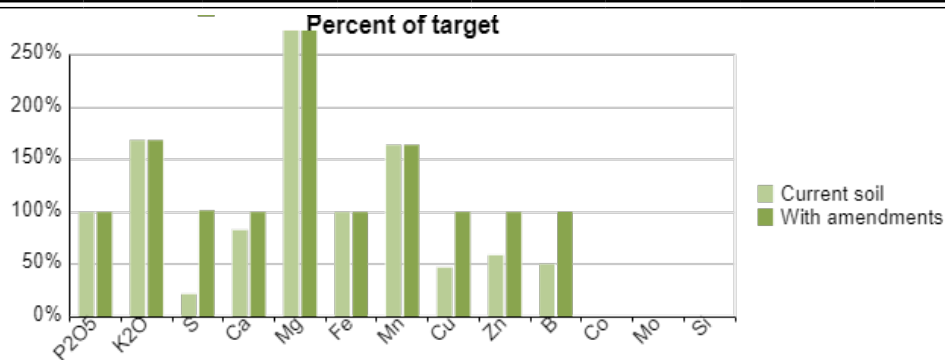
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OrganiCalc for Vegetables V6.6A

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	682		572	119%	400	0	0	682	119%
P	298		250	119%	175	0	0	298	119%
K	875	4.0%	519	169%	100000	0	0	875	169%
K2O	1054		626	169%	100000	0	0	1054	169%
S (total)	52		240	22%	100000	188	921	973	406%
S (as elemental)	-		270	19%	270	270	270	-	100%
Ca	3747	68%	4526	83%	100000	779	779	4526	100%
Mg	1309	12%	479	273%	431	0	0	1309	273%
Fe	412		189	218%	100000	0	0	412	218%
Mn	164		100	164%	100000	0	0	164	164%
Cu	4.7		10	47%	10000	5.3	5.3	10.0	100%
Zn	14.7		25	59%	10000	10.3	10.3	25.0	100%
B	2.0		4	51%	100000	2.0	2.0	4.0	100%
Na	60	1.0%	77	78%	100000	17	0	60	



New Beds

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%.

