START HERE

OrganiCalc for Gardens - Logan Labs

Enter Your Report Details

Date printed to pdf: Nov-5-2025

Enter a Name For This Report

Usually the same name as your soil sample.

***Report name:** Test report

Enter Your Email Address

This is the address where your report will be sent

***Email address:** alice@growabundant.com

Select Your Next Crop

OrganiCalc sets pH and mineral targets based on the crop. Optionally, let us know your previous crop and how it did.

***Next crop:** Mixed vegetables

Last crop: Veggies

Comments:

Are You Growing Inside or Outside?

For poly tunnels or hoop houses, choose Inside.

***Where are you growing?** Outside

Select Your Soil Type

***Soil type:** Sand

This soil is calcareous. FALSE

Calcareous soils have a limestone base. See: this link

Enter the Area to Amend

This is usually the area of all your beds. Include path area if you will be amending the paths as well.

***Area to amend:** 2400 sq feet

Depth to Mix Amendments

Select all that apply. If all the choices are FALSE we assume you will mix in the amendments to a depth of 6 inches (15 cm).

***This soil is in a raised bed.** FALSE

We assume you will dig the amendments in to the full depth of the bed, up to 12 in. (30 cm) unless you select TRUE for no-till, below.

***This is no-till. The amendments cannot be dug in.** TRUE

I want to enter the depth manually.

Scroll up to go to the next tab, Logan Labs Soil Test Report.

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Logan Labs Soil Test Report

Date printed to pdf: Nov-5-2025

Enter your soil test report. Entries with a * are required. Tab to step forward through the cells; shift-tab to step backwards.

Test Date: 3/27/25

Report name: **Test report**

***Soil test type:** Logan Labs Std M3 w/ extras

Logan Labs Std M3 w/ extras Test Report			Alerts
Sample Location		Main	
Sample ID		Garden	
Lab Number			
*** Sample Depth in Inches**		6	
*** Total Exchange Capacity (M.E.)**		9.48	
*** pH of Soil Sample**		7.10	
*** Organic Matter (%)**		3.24	
*** Sulfur:**	**ppm**	25	
Mehlich III as (P2O5)			
*** Phosphorus lbs/acre**		541	
Calcium:	Desired value		
*** lbs/acre**	**Value found**	2713	
	Deficit		
Magnesium:	Desired value		
*** lbs/acre**	**Value found**	411	
	Deficit		
Potassium:	Desired value		
*** lbs/acre**	**Value found**	313	
	Deficit		
*** Sodium: lbs/acre**		80	
*** Calcium (60 to 70%)**		71.55	
*** Magnesium (10 to 20%)**		18.06	
*** Potassium (2 to 5%)**		4.23	
*** Sodium (.5 to 3%)**		1.84	
Other Bases (Variable)		4.30	
Exchangable Hydrogen (10 to 15%)		0	
*** Boron (ppm)**		2.25	
*** Iron (ppm)**		106	
*** Manganese (ppm)**		35	
*** Copper (ppm)**		3.60	
*** Zinc (ppm)**		11.90	
Aluminum (ppm)		166	
Cobalt (ppm)		0.39	
Molybdenum (ppm)		0.14	
Selenium (ppm)		0.28	
Silicon (ppm)		13	
Estimated Nitrogen Release #N/Ac.		82	
EC mmhos/cm		0.18	

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Nitrogen Target and Amendments

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Adjust the nitrogen target as needed and select your nitrogen or compost sources.

Report name: Test report

Select Nitrogen Target

Read the link below to adjust the nitrogen target for your circumstances and experience.

Adjust amount according to experience: See this link for *"How Much Nitrogen Shall I Apply?"*

Default target: 200

Enter new target: lbs/acre

Independent of depth to apply.

Choose Compost / Nitrogen Amendments

Choose two amendments from the pull-down lists or enter your own amendment.

The best compost / nitrogen source for this soil will have an (N - P - K) ratio close to (2 - 0 - 1.7)

1	Composted Chicken Manure (3 - 2 - 2)
2	Feather Meal (12 - 0 - 0)

Or Enter Your Own Amendment to replace item 1

Name: **N** **P** **K** P as P2O5, K as K2O

Do these amendments supply the recommended N, P and K?

Nitrogen?	yes	100%
Phosphorus?	yes	100%
Potassium?	no	0%

If P and K are not 100%, OrganiCalc may recommend P and/or K mineral amendments

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Amendment Recommendations

Amendment Recommendations with Notes

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Report name: Test report

Recommendations are for Mixed vegetables

Test Date: 3/27/25

Recommended Amendments for 2400 sq feet, 6 inches deep

Select weight units: **lbs/oz**

		Notes
Kelp and/or Azomite, combined (for trace minerals)	24 lbs	Alternatively, foliar feed Kelp every 2 weeks or as needed to supply trace minerals. Soil applied trace mineral amounts may be eliminated or reduced after the initial application.
Feather Meal (12 - 0 - 0)	91 lbs	Apply close to transplanting or seeding. Usually it is also sidedressed a couple times during the season, or a liquid N is applied. Microbial activity breaks down feather meal into plant available nitrogen. For this to happen it needs to be in contact with the soil and kept moist. Scratch it in and preferably cover with a light mulch.
Potassium Sulfate	17 lbs	
Tiger-90 Elemental Sulfur	7 lbs 5 oz	The pH adjustment and the Tiger-90 elemental sulfur amendment is optional for this soil. It takes time, warm weather and microbial activity for elemental sulfur to break down into sulfate, lower the soil pH and become plant available. In cold climates spring application is preferred. In warm climates a summer or fall application may not be available before next year. Sulfur is likely to diminish potassium reserves; retest in 6-12 months.
Borax	13.0 oz	Boron is extremely mobile in the soil, yet essential for plant health. Apply or re-apply before every crop.
Sodium Molybdate Dihydrate	4.0 oz	Elemental molybdenum is very mobile in the soil. Small amounts may be dissolved in water and sprayed separately on the soil. Apply or re-apply before every crop.
Total weight of all amendments:	142	lbs

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Amendment Notes

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General

A handful or two of vermicompost dug in under transplants can increase yields substantially. Inoculate with mycorrhizae and other beneficial microbes. Try to get organic matter to 5%; 10% is better, 30% is more than enough. Apply compost as it is available. 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 inches of charged biochar will improve yields and quality in about 3 years.

No-Till

Elemental Sulfur to Lower pH

If this soil is calcareous, ignore the sulfur recommendation. To determine whether the soil is calcareous or is simply over-limed see https://growabundant.com/how-to-do-a-fizz-test/#calcareous

Nitrogen for Vegetables

Modify the amount and timing according to your experience: https://growabundant.com/how-much-nitrogen-shall-i-add/

Cabbage, broccoli, and potatoes require 300 lbs/ac nitrogen. Celery even more. Lettuce, spinach, and turnips (especially) appreciate less. If your organic matter is of good quality, that will be enough N for carrots. Apply nitrogen close to transplanting or seeding. Usually a portion is sidedressed a couple times during the season, or a liquid N is applied.

Silicon

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.

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Amendment Recipes

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Soil Test Date: 3/27/25

Amendment recipe & recipes for alternative areas (for example, per bed)

Select weight units in lbs/oz or kg/g on the Amendment Recommendations tab. Read the notes there too.

		Enter up to 4 areas in sq feet			
	2400	100	50	25	10
Recommended Amendments for 6 inches deep	**sq feet**	sq feet	sq feet	sq feet	sq feet
Kelp and/or Azomite, combined (for trace minerals)	24 lbs	1 lb	8 oz	4.0 oz	1.6 oz
Feather Meal (12 - 0 - 0)	91 lbs	3 lbs 13 oz	1 lb 15 oz	15 oz	6 oz
Potassium Sulfate	17 lbs	12 oz	5.9 oz	3.0 oz	1.2 oz
Tiger-90 Elemental Sulfur	7 lbs 5 oz	4.9 oz	2.4 oz	1.2 oz	0.5 oz
Borax	13.0 oz	0.6 oz	0.3 oz	0.1 oz	0.1 oz
Sodium Molybdate Dihydrate	4.0 oz	0.2 oz	0.1 oz		

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Analysis Details

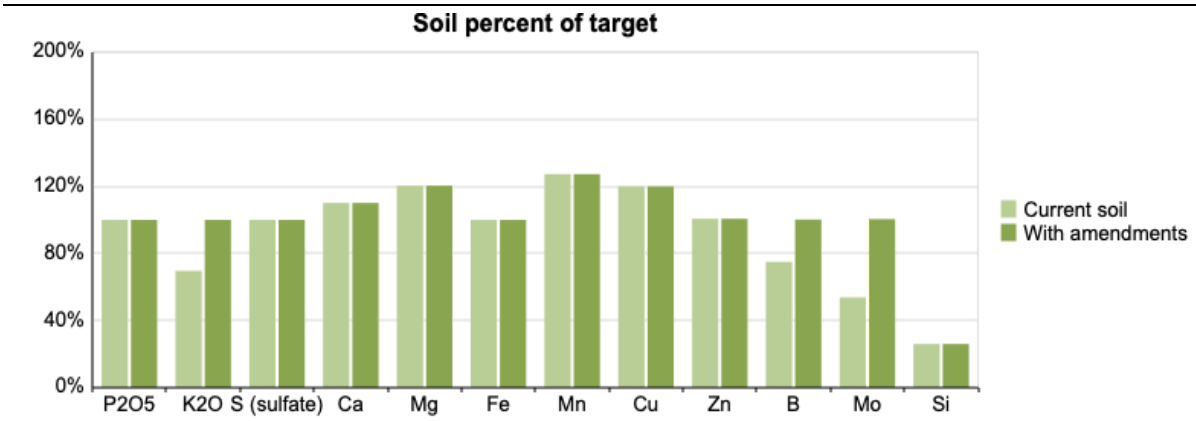
Soil Analysis Details (6" furrow depth)

This page provides information about the soil nutrient amounts needed and supplied by the amendments.

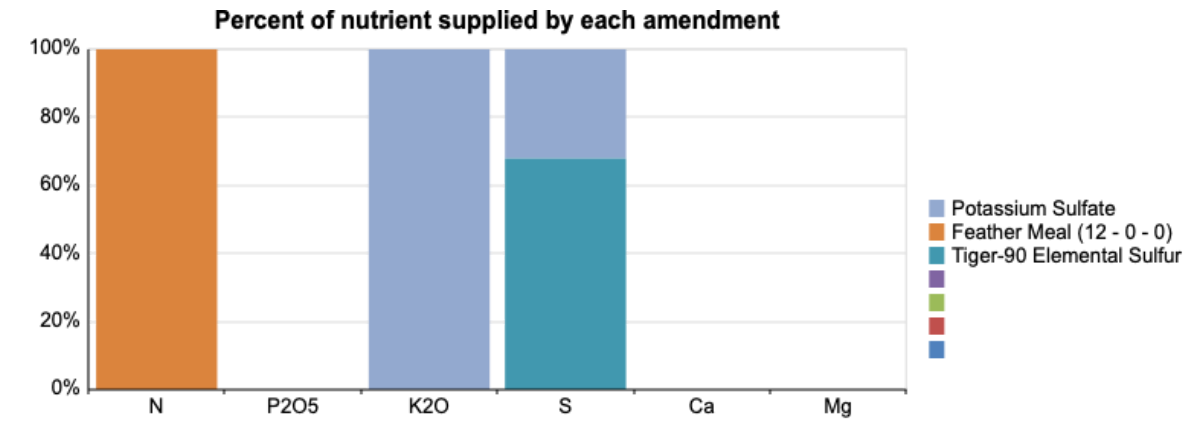
Report name: Test report

	Measured (lbs/ac)	Target % base sat.	Target (lbs/acre)	Measure-ment percent of target	Applica-tion 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	--		200			200	200		100%
P2O5	541		458	118%	100000	0	0	541	118%
P	236		200	118%	100000	0	0	236	118%
K	313	5.0%	450*	70%	100000	137	137	450	100%
K2O	377		542	70%	100000	165	165	542	100%
S (as sulfate)	50		50	100%	100000	0	57	107	213%
S (as elemental)	-		120	-	300	120	120	-	100%
Ca	2713	65%	2465	110%	100000	0	0	2713	110%
Mg	411	15%	341	120%	307	0	0	411	120%
Fe	212		100	212%	100000	0	0	212	212%
Mn	70		55	127%	100000	0	0	70	127%
Cu	7.2		6	120%	100000	0.0	0.0	7.2	120%
Zn	23.8		23.6	101%	100000	0.0	0.0	23.8	101%
B	4.5		6.0	75%	100000	1.5	1.5	6.0	100%
Na	80	1.0%	44	183%	100000	0	0	80	
Co	0.78		0.7 to 4.0	100%	100000	0.0	0	0.8	
Mo	0.28		0.5 to 2.1	54%	100000	1.8	1.8	2.1	100%
Si	26		100	26%	100000	74	0	26	26%

* This target is set by the minimum amount per acre rather than target %.



Note: P ranging between 100% and 200% target has been set to 100% and has been divided in half above 200% target. 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%. Most excesses of these elements are not harmful.



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OrganiCalc (A4209), Submit received using form at https://growabundant.com/ at 2025-11-05T23:41:19.