

Report name:

Test Report

Test Date:

8/2/2020

Today:

8/3/2020

*Email address:

alice@growabundant.com

Target cations and elements:

Ca 70%

Mg 10%

K 5%

Na 1.0%

P (lbs/a) 150

Logan Labs Mehlich 3 or AA8.2 Test Results

Sample Location	Test
Sample ID	
Lab Number	
* Sample Depth in Inches	6
* Total Exchange Capacity (M.E.)	13.00
* pH of Soil Sample	5.59
* Organic Matter (%)	6.50
* Sulfur: ppm	40
Mehlich III as (P2O5)	
* Phosphorus lbs/acre	120
Calcium: Desired value	
* lbs/acre Value found	2652
Deficit	
Magnesium: Desired value	
* lbs/acre Value found	375
Deficit	
Potassium: Desired value	
* lbs/acre Value found	264
Deficit	
* Sodium: lbs/acre	60
* Calcium (60 to 70%)	51.00
* Magnesium (10 to 20%)	12.00
* Potassium (2 to 5%)	2.60
* Sodium (.5 to 3%)	1.00
Other Bases (Variable)	6.22
Exchangable Hydrogen (10 to 15%)	27.30
* Boron (ppm)	2.00
* Iron (ppm)	75
* Manganese (ppm)	20
* Copper (ppm)	2
* Zinc (ppm)	8
Aluminum (ppm)	123
Cobalt (ppm)	0.50
Molybdenum (ppm)	0.50
Selenium (ppm)	0.70
Silicon (ppm)	12.00
EC mmhos/cm	
Media Density g/cm ³	

(* = required entry)

Alerts

-
-

Click switch to override an error message, if present.

Choose Target Nitrogen Amount (see Note 16)

125 lbs/acre

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

Choose Compost/Nitrogen Sources

Best fit source will have this N-P-K: 1.3-2.2-2.9

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

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:

-----> 350 sq feet
lbs/oz

Enter Depth To Mix Amendments

-----> 6 inches

Amendment Report

Report name: Test Report Test Date: 8/2/2020

Recommended Amendments for 350 sq feet	Amt	Units	Notes
Kelp	3	lbs	5
Special Mix #1	23	lbs	4
Agricultural Lime	18	lbs	6
Standard CalPhos, Soft Rock Phosphate	5	lbs	18
Potassium Sulfate	3	lbs	
Copper Sulfate	3	oz	
Cobalt (Co) Sulfate Heptahydrate	1.17	oz	

Total weight of all amendments 52 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.

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 Azomite or Kelp amounts may be reduced after the initial application.

6 <> We prefer to apply the lime as soon as possible and the balance of the amendments before planting. Conduct a fizz test on soil samples for the next 3 years.

15 <> Mn is low but none should be added to the soil until the pH comes up. Retest next year.

18 <> Alternatively, for large areas and to lower costs, the Standard CalPhos, Soft Rock Phosphate application may be reduced to 4 lbs (targeting 100 lbs/acres P). Maintaining high bioactivity and a pH below 7.0 are more important than quantity.

Additional Comments:

End of Amendment Report

Test Report

Test Date: 8/2/2020

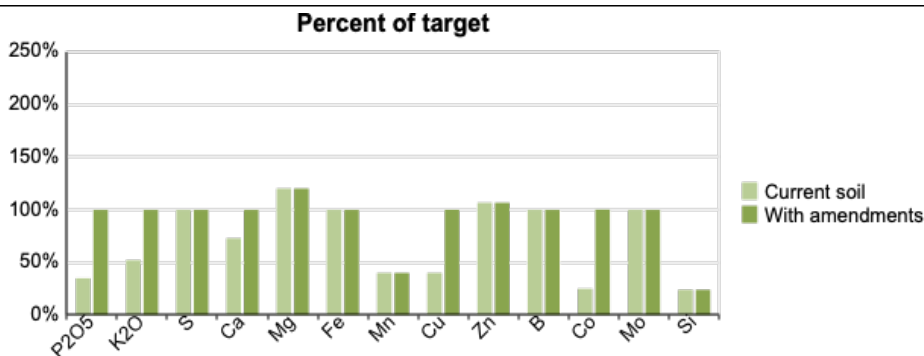
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OrganiCalc Pro V6.0A

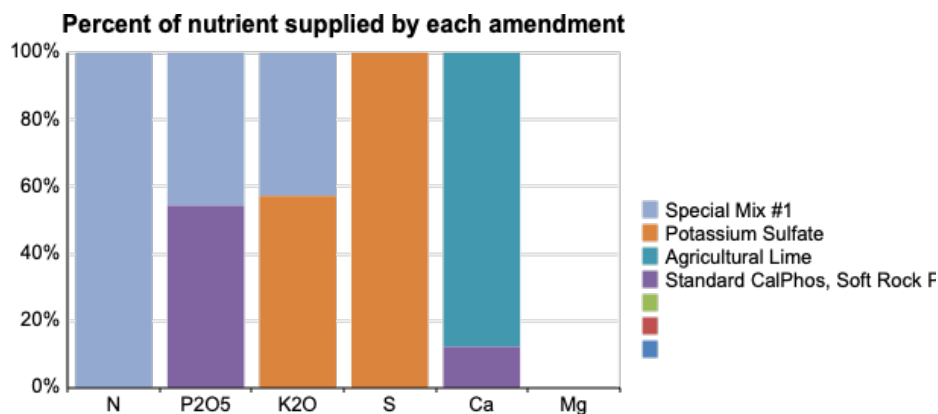
Analysis Details (6" furrow depth)

	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	--		125			125	125		100%
P2O5	120		343	35%	400	223	223	343	100%
P	52		150	35%	175	98	98	150	100%
K	264	5.0%	507	52%	100000	243	243	507	100%
K2O	318		611	52%	100000	293	293	611	100%
S	80		80	100%	100000	0	61	141	176%
Ca	2652	70%	3640	73%	100000	988	988	3640	100%
Mg	375	10%	312	120%	281	0	0	375	120%
Fe	150		150	100%	100000	0	0	150	100%
Mn	40		100	40%	100000	60	0	40	40%
Cu	4.0		10	40%	10000	6.0	6	10	100%
Zn	16.0		15	107%	10000	0.0	0	16	107%
B	4.0		4	100%	100000	0.0	0	4	100%
Na	60	1%	60	100%	100000	0	0	60	
Co	1.00		4	25%	100000	3.0	3.0	4.0	100%
Mo	1.00		1	100%	100000	0.0	0.0	1.0	100%
Si	24		100	24%	100000	76	0	24	24%



Test Report

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%.



Soil Amendment Constants

Soil Amendment Values (% by weight) used for calculations

Use?		All values are in percent.							Applica- tion limit (lbs/ac)
		P2O5	K2O	S	Ca	Mg	Fe	Na	Si
<input checked="" type="checkbox"/>	Bone Meal	29.9			12.0			5.7	
<input type="checkbox"/>	Wollastonite (see note)				34.0				24.0
<input checked="" type="checkbox"/>	Standard CalPhos, Soft Rock Phosphate	20.0			20.0				
<input checked="" type="checkbox"/>	Gypsum			17.0	20.5				
<input checked="" type="checkbox"/>	Potassium Sulfate		51.0	17.5					
<input checked="" type="checkbox"/>	Greensand		7.0				9.0		
<input checked="" type="checkbox"/>	Agricultural Lime				39.0				8000
<input checked="" type="checkbox"/>	Dolomitic Lime				22.0	13.0			8000
<input checked="" type="checkbox"/>	K Mag, Langbeinite, Sul-Po-Mag		22.0	22.0		11.0			
<input checked="" type="checkbox"/>	Epsom Salts (see note)			13.0		10.0			

Use?		All values are in percent.							Applica- tion limit (lbs/ac)
		S	Fe	Mn	Cu	Zn	B	Co	Mo
<input checked="" type="checkbox"/>	Agricultural Sulfur	90.0							100
<input checked="" type="checkbox"/>	Solubor						20.5		
<input checked="" type="checkbox"/>	Iron (Fe) Sulfate	18.0	30.0						
<input checked="" type="checkbox"/>	Manganese (Mn) Sulfate	19.0		32.0					
<input checked="" type="checkbox"/>	Copper Sulfate	12.8			25.5				
<input checked="" type="checkbox"/>	Zinc (Zn) Sulfate (monohydrate)	17.0				35.0			
<input checked="" type="checkbox"/>	Cobalt (Co) Sulfate Heptahydrate	17.0						33.0	
<input checked="" type="checkbox"/>	Sodium Molybdate Dihydrate								39.6

Use? Choose only 2 of these. The first 2 may be edited on the Soil Report page just below Alerts. All values are in percent.

		N	P2O5	K2O	Na	Ca
<input type="checkbox"/>	Composted Chicken Manure (3-2-2)	3.0	2.0	2.0		
<input type="checkbox"/>	Feather Meal (12-0-0)	12.0	0.0	0.0		
<input checked="" type="checkbox"/>	Special Mix #1	4.3	3.5	4.3		
<input type="checkbox"/>						