

**Data Input**

Report name: **KIS Organics Soil Mix** Test Date: 12/4 Today: 12/4/13

**Logan Labs Soil Report Results**

**Alerts**

Sample Location	biochar	
Sample ID	1	
Lab Number	25	
* Sample Depth in Inches	6	
* Total Exchange Capacity (M.E.)	20.05	
* pH of Soil Sample	7.20	
Organic Matter (%)	48.18	
* Sulfur:	ppm	312
Mehlich III	as (P <sub>2</sub> O <sub>5</sub> )	
* Phosphorus	lb / acre	1563
Calcium:	Desired value	5453
* lbs/acre	Value found	4429
	Deficit	-1024
Magnesium:	Desired value	577
* lbs/acre	Value found	996
	Deficit	0
Potassium:	Desired value	625
* lbs/acre	Value found	2578
	Deficit	0
* Sodium:	lbs/acre	312
* Calcium (60 to 70%)	55.23	
* Magnesium (10 to 20%)	20.70	
* Potassium (2 to 5%)	16.49	
* Sodium (.5 to 3%)	3.39	
Other Bases (Variable)	4.20	
Exchangable Hydrogen (10 to 15%)	0	
* Boron (ppm)	0.63	
* Iron (ppm)	135	
* Manganese (ppm)	28	
* Copper (ppm)	0.92	
* Zinc (ppm)	18.57	
Aluminum (ppm)	188	

Check this box to override an 'Email erica@growabundant.com' message, if present.

**Enter Area To Be Amended and Select Units:**  
Enter the number of acres (hectares, sq. feet, or sq. metres) in this box and

PRESS ENTER -----> 4

Select units --> sq feet   
lbs/oz

(\* = required entry)

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Recommended Amendments for 4 sq feet			Notes
Fish Meal	1.47 oz		4
Azomite	0.64 oz		5
Gypsum	5 oz		7
Agricultural Lime	1.44 oz		6
Manganese (Mn) Sulfate	0.2 oz		
Biomin Copper (4% Cu)	0.15 oz		10
Borax	0.03 oz		
Zinc (Zn) Sulfate	0.03 oz		
Total weight of all amendments			1 lbs

- Notes:**
- 2 <> Amount per application limit was reached for these elements, compounds and/or amendments: Cu, B,
  - 3 <> Retest next year
  - 4 <> Amount of nitrogen fertilizer recommended is approximate. See 'General Mineralization Recommendations' sheet for details.
  - 5 <> Azomite or Kelp amounts can be reduced after the initial application.

- 6 <> It is preferable to apply the agricultural lime in the fall and the balance of the amendments the following spring
- 7 <> Split gypsum application in half: half in spring, half in fall. Or consult a soil analyst.
- 10 <> See 'General Mineralization Recommendations' sheet for copper application alternatives.
- 12 <> Sodium is greater than 3% of CEC. Water, re-sample and re-test to confirm results. If confirmed, consult a soil analyst.

Enter User Comments Here:

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**Analysis Details**

	Measured (lbs/ac)	Target %	Target (lbs/acre)	Deficit (lbs/ac)	Applica- tion limit (lbs/ac)	Amount needed (lbs/ac)	Worksheet result (lbs/ac)	Measured plus worksheet result (lbs/ac)	How'd we do? % of target
P205	1563		1003	0	400	0	0	1563	
P	683		438	0					156%
K	2578	3%	438	0					588%
K2O	3106		528	0	241	0	0	3106	
S	624		146	0	100000	0	561	1185	811%
Ca	4429	68%	5454	1025	100000	1025	1025	5454	100%
Mg	996	12%	577	0	58	0	0	996	172%
Fe	270		150	0	100000	0	0	270	180%
Mn	56		100	44	100000	44	44	100	100%
Cu	1.8		10	8	4	4.0	4	6	59%
Zn	37.1		44	7	14	6.7	7	44	100%
B	1.3		4	3	2	2.0	2	3	82%
Na	312	1%	92	0	100000	0	0	312	338%

Need a good PDF of this report?  
 Enter your email address and press  
 the "email results" button. We  
 will email you one and comment  
 on your results too, if possible.

tad@kisfarm.com

*We will never share your email address with anyone, even if they pay us.*

**Read and print** "General Recommendations" by clicking the button at the bottom of the screen.

**This file contains information critical to success.**

[General Recommendations](#)

<http://growabundant.com/recommendations>

Credits for the algorithms: William Albrecht, Michael Astera, Neal Kinsey, William McKibben, Gary Zimmer, Spectrum Analytics, Steve Solomon, Erica Reinheimer

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