COF Calculator

COF Calculator

Date printed: 4/19/2024

Project name: **My mix**

Email address: alice@growabundant.com

Notes:

Total weight: 26.7 lbs

N-P-K : 6.3 - 2.6 - 3.8

Total cost: $58.54

Cost: 2.20 $/lb

Show more	Macronutrient Amendments	lbs	N	N-P-K P (as P2O5)	N-P-K K (as K2O)	Ca, Mg and S Ca	Mg	S	Price per lb	Notes / source
☑	Neem meal	1	4	1	2				1.50	Grow store
☑	Feather meal	10	12	0	0				1.10	Farm store
☑	Seabird guano	5.4	6	12	0				3.63	Internet
☑	Potassium sulfate	1.8			51			17.5	1.05	Farm store
☑	Gypsum	6.3				20.5		17	0.33	Farm store
☑	Humates	0.5			0				2.50	Internet
☐	Bone meal									
	Total	**25**	lbs							

	N	P2O5	K2O	Ca	Mg	S			
Target amounts in lbs/acres:	200	85	133	183		183	**Area to amend:**	100	sq ft
Nutrient percentages of this mix:	N 6.3%	P2O5 2.6%	K2O 3.8%	Ca 5.2%	Mg 0.0%	S 5.5%	Amount to use per 100 sq ft:	7.7 lbs	
Lbs of COF mix to apply to meet nutrient targets for 100 sq ft:	N 7	P2O5 7	K2O 8	Ca 8	Mg 0	S 8	25 lbs of mix will cover 324 sq ft	Cost for 100sq ft: $17.70	

This mix is balanced.

Instructions: Increase or decrease the mix components until these numbers are all very close (ignore zeros).

Precision: 10% Nutrient amounts must be within this % to target to be considered balanced.

Amendment Summary	Lowest cost	Lbs of nutrient in 25 lbs of mix N	P2O5	K2O	Ca	Mg	S	Total cost	N Cost ($/lb N)	P Cost ($/lb P)	K Cost ($/lb K)
Neem meal		0.04	0.01	0.02				$1.50	$37.50	$150.00	$75.00
Feather meal	N	1.2						$11.00	$9.17		
Seabird guano	P	0.324	0.648					$19.60	$60.50	$30.25	
Potassium sulfate	K			0.918			0.315	$1.89			$2.06
Gypsum					1.2915		1.071	$2.08			
Humates								$1.25			
Bone meal								$0.00			
		1.6	**0.7**	**0.9**	**1.3**	**0.0**	**1.4**	**$37.32**			

Other Costs	Price	Notes / source
Shipping	20	Internet
Subtotal	**20**	

Amendment cost this page: $37.32

Other costs this page: $20.00

Cost this page: $57.32

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COF Micronutrient Calculator

☑ Use the area from the COF calculator: 324 sq ft

	Target (lbs/ac)	Micronutrient amendment	% of element in amendment		Liquid?	Price per lb or pint	lbs to use	Cost this mix	Notes / source
Fe		Ferrous Sulfate Heptahydrate	20	% Fe	☐		0.00	$0.00	
Mn	20	Manganese Sulfate	32	% Mn	☐	1.50	0.46	$0.70	
Cu	0	BioMin Copper	4	% Cu	☑	5.50	0.00	$0.00	
Zn	5	Zinc Sulfate Monohydrate	35	% Zn	☐	1.50	0.11	$0.16	
B	1	Borax	10	% B	☐	2.00	0.07	$0.15	
Mo	0.5	Sodium Molybdate Dihydrate	39.6	% Mo	☐	12.00	0.01	$0.11	

Mixing micronutrients with compost or other filler may enable even spreading.

Filler or compost		Dry Compost				0.10	1	$0.10	
					Total:	1.65	lbs	$1.22	

Amount to use per 100 sq ft: 0.5 lbs

1.65 lbs of mix will cover 324 sq ft

Cost of mix to cover 100 sq ft: $0.38

Cost of these amendments: $1.22

Recipe Summary

COF Recipe: **My mix** Date printed: 4/19/2024

Scale this recipe: 2 x Units: lbs/oz

This recipe covers 648 sq ft

Amendment	Amt	Notes / Source
Feather meal	20 lbs	Farm store
Gypsum	12 lbs 10 oz	Farm store
Seabird guano	10 lbs 13 oz	Internet
Potassium sulfate	3 lbs 10 oz	Farm store
Neem meal	2 lbs	Grow store
Humates	1 lbs	Internet
Total:	50 lbs	

Micronutrient Recipe

Scale this recipe: 2 x Units: lbs/oz

This recipe covers 648 sq ft

Amendment	Amt	Notes / Source
Dry Compost	2 lbs	
Manganese Sulfate	14.9 oz	
Zinc Sulfate Monohydrate	3.4 oz	
Borax	2.4 oz	
Sodium Molybdate Dihydrate		
Total:	3 lbs 5 oz	

Weight of both recipes together: 53.3 lbs