

A&L Canada Laboratories Inc.

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Sample ID: OTB-1W, OTB-2M, OTB-3E, STP-1N, STP-2M, STP-3S
 REPORT DATE: 13-Jan-23

Compost Agri-Value Calculator

Nutrients Available ("Total" as is basis)

Parameter	Units	A&L "MC" Compost Analysis Result	lbs. Per ton	lbs. Per tonne	Present Value Fertilizer nutrient \$/lb.	Compost Agri-Value per \$/Ton	Compost Agri-Value per \$/tonne
Dry Matter	%	46.38	928	1,023			
Organic Matter	%	22.55	451	497			
Nitrogen	%	1.98	40	44	\$1.11	\$43.68	\$48.15
NH ₄ -N	ppm	4882.17	10	11	\$1.11	\$10.79	\$11.90
P as P ₂ O ₅	%	2.39	48	53	\$1.19	\$56.65	\$62.46
K as K ₂ O	%	1.21	24	27	\$0.86	\$20.75	\$22.87
Calcium	%	3.23	65	71	\$1.28	\$83.03	\$91.54
Magnesium	%	0.50	10	11	\$4.70	\$47.51	\$52.38
Sulfur	%	0.44	9	10	\$2.35	\$20.63	\$22.75

Micronutrients

			lbs./Ton	lbs./tonne	\$/lb.	\$/Ton	\$/tonne
Zinc	ppm	291.68	0.58	0.64	\$5.08	\$2.96	\$3.27
Manganese	ppm	375.63	0.75	0.83	\$3.83	\$2.88	\$3.17
Copper	ppm	270.57	0.54	0.60	\$9.61	\$5.20	\$5.73
Boron	ppm	18.25	0.04	0.04	\$5.62	\$0.21	\$0.23

Compost Agri-Value (total)

	Nitrogen	P ₂ O ₅	K ₂ O	Mag.	Sulfur	Calcium
Compost Agri-Value	\$	\$	\$	\$	\$	\$
Agri-Value per ton	\$43.68	\$56.65	\$20.75	\$47.51	\$20.63	\$83.03
Agri-Value per tonne	\$48.15	\$62.46	\$22.87	\$52.38	\$22.75	\$91.54

Total Commercial Fertilizer Equivalent value

(Including all Macro and Micro nutrients as above)

(including N, P₂O₅, K₂O, S, Zn, Mn, Cu, B, excluding Mg and Ca)

per ton	\$283.49
per tonne	\$312.54
per tonne	\$168.63

* Present Value Fertilizer - January 24, 2023 - retail pricing provided by Sylvite Agri-Services

* Compost Fertilizer value based on total content.

* Only a portion will be available in the season of application.

*Additional compost value includes Organic matter content and the beneficial probiotic biological activity

Current Retail Fertilizer Prices provided by Sylvite Agri-Services - January 24, 2023

Fertilizer Product Evaluator

Fertilizer Product	Fert. Cost / tonne Jan 2023	Fertilizer. Guarantee	Nitrogen Actual lbs./ tonne	P ₂ O ₅ Actual lbs./ tonne	K ₂ O Actual lbs./ tonne	Sulfur lbs./ tonne	Mag. lbs./ tonne	Calcium lbs./ tonne
Urea	\$1,121	46-0-0	1014					
MAP	\$1,361	11-52-0		1147				
KCL	\$1,136	0-0-60			1323			
Sul-Po-Mag	\$1,141	0-0-22-22-11			485	485	243	
Calcium Sulfate	\$765	0-0-0-16-27				353		595

Fertilizer Product Evaluator

			Lbs. actual per tonne	Present Value Fertilizer nutrient \$/lb.
Boron	\$1,239	10%	221	\$5.62
Copper Oxy- Sul	\$5,295	25%	551	\$9.61
Magnes.- Sul.	\$895	16%	353	\$2.54
Manganese-Sul.	\$2,279	27%	595	\$3.83
Sulphur	\$998	90%	1985	\$0.50
Zinc	\$2,240	20%	441	\$5.08

Schlegel Poultry Turkey Litter Compost

Analytical Results & Nutrient Value

Report #:	C23011-80000	C23011-80000	C23011-80000	C23011-80000	C23011-80000	C23011-80000		
Lab #:	118001	118002	118003	118005	118006	118007		
DATE --->	13-Jan-23	13-Jan-23	13-Jan-23	13-Jan-23	13-Jan-23	13-Jan-23	Average of	
Sample I.D. #	OTB-1W	OTB-2M	OTB-3E	STP-1N	STP-2M	STP-3S	Results	Units
Dry Matter:	51.00	47.90	45.70	41.00	44.40	48.30	46.38	%
Nitrogen - Total (N):	1.484	1.534	1.940	1.782	2.481	2.635	1.98	% (as is basis)
Ammonium-N (NH ₄ -N):	1876.000	2620.000	6295.000	3917.000	6974.000	7611.000	4882.17	% (as is basis)
Phosphorus (Total):	1.070	1.050	1.021	1.034	0.971	1.080	1.04	% (as is basis)
Phosphate (P as P ₂ O ₅):	2.461	2.414	2.347	2.377	2.234	2.485	2.39	% (as is basis)
Potassium (Total):	0.603	0.811	1.090	0.816	1.395	1.325	1.01	% (as is basis)
Potash (K as K ₂ O):	0.724	0.973	1.308	0.980	1.675	1.590	1.21	% (as is basis)
Organic Matter:	17.90	22.40	20.30	23.20	23.90	27.60	22.55	% (as is basis)
pH:	7.90	8.51	8.58	8.39	8.54	8.53	8.41	(no units)
Carbon:Nitrogen Ratio (C:N):	7:1	8:1	6:1	7:1	5:1	6:1	6:1	(no units)
Bulk Density:	537.00	524.00	522.00	507.00	522.00	455.00	511.17	kg/m ³
Sulfur (S):	3107.2	3223.5	4113.4	4170.3	5782.7	5920.9	4386.33	ppm (as is basis)
Conductivity (@25 deg C):	7.81	6.83	13.72	9.32	14.66	12.56	10.82	ms/cm
Sodium (Na):	0.18	0.17	0.23	0.20	0.32	0.32	0.24	% (as is basis)
Aluminum (Al):	1245.90	1079.00	771.20	525.10	464.40	687.80	795.57	ppm (as is basis)
Boron (B):	13.70	16.50	17.50	18.50	21.80	21.50	18.25	ppm (as is basis)
Calcium (Ca):	4.13	3.00	3.32	3.08	3.05	2.79	3.23	%
Copper (Cu):	194.20	227.60	249.50	261.70	330.80	359.60	270.57	ppm (as is basis)
Iron (Fe):	2704.40	2324.20	1921.40	1235.70	1211.60	1730.30	1854.60	ppm (as is basis)
Magnesium (Mg):	0.625	0.556	0.474	0.473	0.393	0.508	0.50	%
Manganese (Mn):	443.50	398.20	369.00	330.10	368.90	344.10	375.63	ppm (as is basis)
Zinc (Zn):	288.00	317.10	283.50	265.40	284.10	312.00	291.68	ppm (as is basis)