C COA



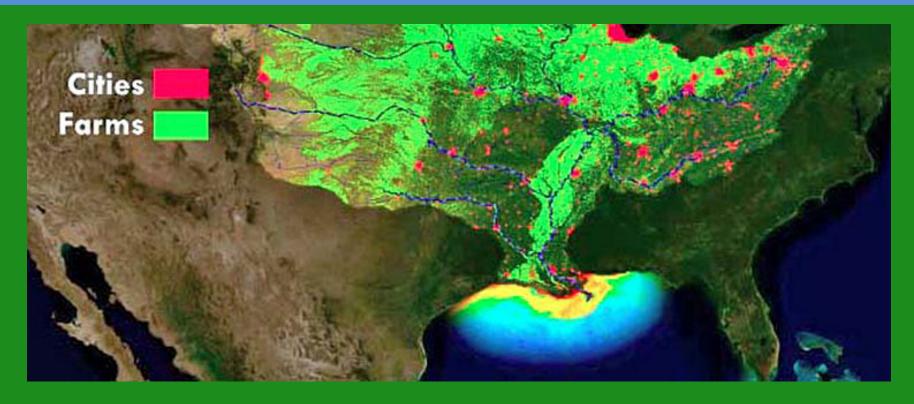
The Organic Waste Problem

- 40% of all food produced is thrown away
- Michigan landfills over 2 million tons of food/yr
- Michigan composts less than 20,000 tons of food waste/yr
- → Food waste GHG emissions =33 million cars
- Organic waste is an expensive and logistical problem for local businesses and waste haulers



Cherry Pomace

The Agriculture Problem



- Excess chemical fertilizer ends up in watersheds and wreaks havoc on ecosystems
- ♦ Nitrogen fertilizers convert to N₂O gas, a GHG w/310x CO₂

Compost Solution

- ♦ Reduces landfill waste
- ♦ Reduces GHG emissions
- ♦ Regenerates degraded soils
- ♦ Sequesters carbon in soil
- ♦ Increases food production
- ♦ Provides valuable jobs



Agriculture Compost Sales

Michigan Agriculture

- ♦ 51,000 farms/6 million acres
- ♦ \$19B/yr industry leads nation
 in 19 commodities

Compost

- ♦ Conventional farmers
- ♦ Optimizes soil fertility
- Lowers chemical fertilizer & water inputs
- ♦ Reduces soil diseases
- ♦ Measurable results



Spreading Compost



1 Ton/Acre Application



Healthy Soil Benefits



From Field to Fork & Back Again

- ♦ Major food companies adopting Zero Waste policies/sustainable food production
- ♦ Yard waste is banned from Illinois, Indiana & Michigan landfills



Community Benefits



Place-based jobs



Retail Sales Tax



Property Tax Revenue



Zero Waste



Environmental Protection



Sustainable Crop Production

Thank You

Adam Brent, CEO

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www.cocoa-corp.com

Compost Analysis

Report Number F16201-6009 Account Number 17014



For: COCOA

3505 Conestoga Dr. Fort Wayne, IN 46808 260.483.4759 algreatlakes.com

to: COCOA CORPORATION 3911 N PAULINA STREET CHICAGO, IL 60613

Attn: ADAM BRENT

Sample ID: COCOA Lab Number: 86338

COMPOST ANALYSIS

Date Received: 7/19/2016

Date Reported: 8/4/2016 Page: 2 of 2

nalysis	Unit	Analysis Result	Dry Basis Result	Analysis Method
oreign Material	%		0.00	TMECC 03.08-A
ermination - Emergence	%	100		TMECC 05.05-A
ermination - Vigor	%	100		TMECC 05.05-A
ve Ht of Seedlings in Control	centimeters	7.9	50% Increase	TMECC 05.05-A
ve Ht of Seedlings in Compost	centimeters	11.9		TMECC 05.05-A
espiration - CO2-C/g TS	mg CO2-C / g TS/Day		1	TMECC 05.08-B
espiration - CO2-C/g OM	mg CO2-C / g OM/Day		1	TMECC 05.08-B
ompost Stability Index	-		Very Stable	TMECC 05.08
etained on U.S. 2-inch Sieve	%		0.00	TMECC 02.02-B
etained on U.S. 1-inch Sieve	%		0.00	TMECC 02.02-B
etained on U.S. 5/8-inch Sieve	%		1.52	TMECC 02.02-B
etained on U.S. 3/8-inch Sieve	%		16.35	TMECC 02.02-B
etained on U.S. 1/4-inch Sieve	%		15.17	TMECC 02.02-B
etained on U.S. 5/32-inch	%		11.93	TMECC 02.02-B
ompost Stability Index etained on U.S. 2-inch Sieve etained on U.S. 1-inch Sieve etained on U.S. 5/8-inch Sieve etained on U.S. 3/8-inch Sieve etained on U.S. 1/4-inch Sieve	- % % % % %		Very Stable 0.00 0.00 1.52 16.35 15.17	TMECC 05.08 TMECC 02.02-E TMECC 02.02-E TMECC 02.02-E TMECC 02.02-E

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Analysis Dry Basis Unit Analysis Analysis Method Result Result Moisture @ 70 C 96 38.40 TMECC 03.09-A 96 Solids: 61.60 TMECC 03.09-A Total Nitrogen (N) 96 0.65 1.06 TMECC 04.02-D Phosphorus (P) 96 0.13 0.21 TMECC 04.03-A TMECC 04.03-A Phosphate (P₂O₅) 0.300.48Potassium (K) 96 0.190.31 TMECC 04.04-A Potash (K₂O) 0.230.37TMECC 04-04-A Magnesium (Mg) 96 0.701.13 TMECC 04.05-MG % 4.08 Calcium (Ca) 6.63 TMECC 04.05-CA 7.8 TMECC 04.11-A Soluble Salts dS/m 1.43 TMECC 04.10-A 96 38.98 Ash @ 550 C 63.28 TMECC 03.02-B Organic Matter (LOI @ 550 C) 96 22.62 36.72 TMECC 05.07-A Total Organic Carbon (C) 96 11.31 18.36 TMECC 04.01-A Carbon:Nitrogen Ratio (C:N) 17.3:1 17.3:1 TMECC 05.02-A

TMECC - Test Methods for the Examination of Composting and Compost (TMECC), The U.S. Composting Council.

Compost Facilities

- ♦ Higher average wages
- ♦ Maintenance Workers
- ♦ Office Staff
- ♦ Corporate Account Managers
- ♦ Logistics Personnel
- ♦ Retail Staff
- ♦ Research and Development
- ♦ Agricultural Services Staff

- Compost facilities will employ more people, pay higher wages and offer more career opportunities than a distribution center
- Composting is a place-based industry that cannot be outsourced abroad
- → For every 1 million tons of organic material composted, almost 1,400 new full-time jobs can be supported, paying wages of \$23M to \$57M per year

FAQ's

- ♦ Does composting generate foul odors?
- ♦ Is composting noisy?
- ♦ Will compost harm pets?
- ♦ How do compost facilities handle nuisances?
- ♦ Does composting break down pesticides and antibiotics?
- ♦ How much truck traffic is generated?
- ♦ Who would be our main customers?

Operations Management

Organic materials are those capable of decaying into humus. Some common examples include:

- Yard waste
- Fruit & vegetable scraps
- Eggshells, nutshells, paper & recycled paper residuals
- Wood wastes including sawdust & wood chips
- Coffee grounds, hair clippings, feathers, bone meal & blood meal
- Waste generated in the production of livestock and poultry including manure and used bedding materials

- All food waste materials must be pre-approved before being accepted on site
- All organic waste material must be incorporated within 24 hours of receipt
- Contaminants must be removed and disposed of properly
- Windrows must be turned
- Windrows must be monitored for O₂, temperature & moisture
- Finished compost must be screened and tested for maturity, nutrients and pathogens

Cocoa Compost

Founded in 2011, Cocoa's Holland Michigan facility recycles 10,000 tons/year of food and yard waste into high quality humus compost.

Cocoa provides cost effective, environmentally sustainable waste-management solutions for Chef Container and Fortune 100 food manufacturers and municipalities

Cocoa provides some of Michigan's largest grain farms with compost for conventional corn and soybean production.

Cocoa's mission is to responsibly produce compost products that generate superior financial, social and environmental solutions for businesses, farmers and the communities we serve.