RESEARCH PRESENTATION

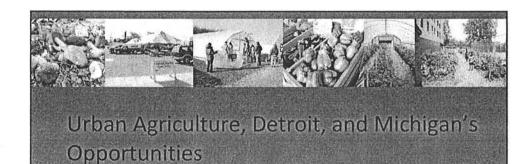
TO THE MSU BOARD OF TRUSTEES

JUNE 18, 2010

MICHAEL HAMM

COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

Facilitated by the Office of the Vice President for Research and Graduate Studies



Michael W. Hamm
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Top 20 Trends



Locally sourced meats and seafood
Sustainability

4 Bite-size/mini desserts

Locally-produced wine and beer

- 6 Nutritionally balanced children's dishes
- 7 Half-portions/smaller portion for a smaller price

Farm/estate-branded Ingredients

9 Gluten-free/food allergy conscious

10 Sustainable seafood

11 Superfruits (e.g. acai, goji berry, mangosteen, purslane)

Organic produce

- 13 Culinary cocktails (e.g. savory, fresh ingredients)
- 14 Micro-distilled/artisan liquor
- 15 Nutrition/health
- 16 Simplicity/back to basics
- 17 Regional ethnic cuisine
- 18 Non-traditional fish (e.g. branzino, Arctic char, barramundi)
- 19 Newly fabricated cuts of meat (e.g. Denver steak, pork flat iron, Petite Tender)
- 20 Fruit/vegetable children's side items



Maximum crop acreage adjustments

implied by full adoption of select recommendations from the 2005 Dietary Guidelines for Americans

Стор	Average harvested area, 1999-2003	Adjustments in acreage	Acreage needed to meet Guidelines
		Million acres	7
Fruit	3.5	4.1	7.6
Vegetables:	6.5	8.9	15.3
Dark green	0.3	0.5	0.8
Orange	0.2	0.4	0.6
Legumes	2.0	8.8	10.8
Starchy	2.3	-0.8	1.5
Other	1.7	pe.	1.7
Wheat (examp	le for		
whole grains)	22.6	-5.6 ²	17.04
Dairy ³	NA	NA	NA
Total ⁴	32.6	7.4	39.9

Opportunity: Jobs

WHAT IF... Michigan's residents bridged the "Public Health Gap"?

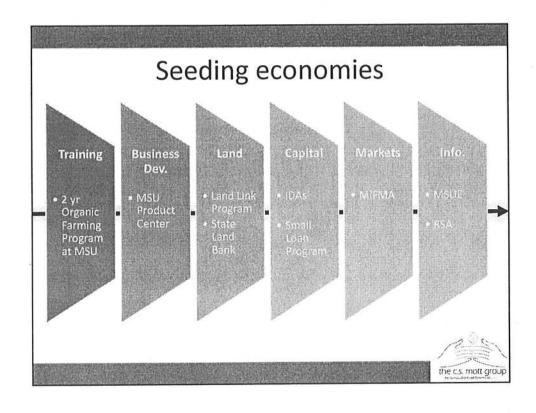
- Shift from current consumption to public health recommendations
- · Eating more of what people currently eat

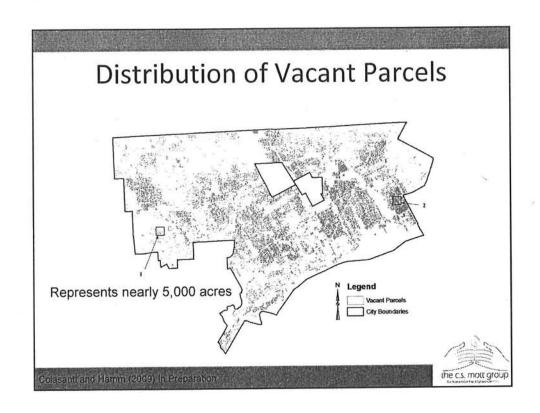
J. C. Buzby, H. Farah Wells, and G. V. Possible Implications for U.S of Select Dietary Guidelines (ERS Report #31, 2005)

- Get it from MI when available fresh with typical technology
- Need approximately 37,000 more acres of production

\$211 Million increased net income; 1,800 off-farm jobs







Example of a High-Vacancy Neighborhood



Zip Code 48215 2005 Aerial Image

Colasanti and Hamm (2009) In Preparation

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Acreage Needed to Meet Current and Recommended Consumption

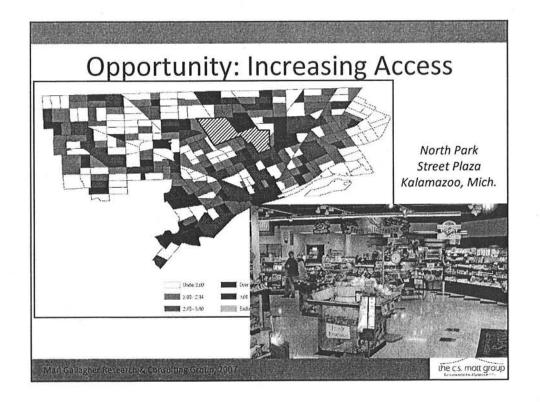
Production Scenario		Acreage Needed to Meet Current Consumption	Acreage Needed to Meet Recommended Consumption	% Consumption Supplied	
Field Only	High Productivity	263	916		
	Low Productivity	894	3,001	31% Veg 17% Fruit	
	Commercial Yields	1,660	5,549		
Field + Storage	High Productivity	511	1,831	manes para	
	Low Productivity	1,839	6,174	65% Veg 39% Fruit	
	Commercial Yields	3,063	10,210		
Field + Storage + Extension	High Productivity	568	2,014		
	Low Productivity	2,086	6,976	76% Veg	
	Commercial Yields	3,602	12,067	42% Fruit	



Urban Agriculture at Various Scales

- Individual Scale
 - Backyard and community gardens
- · Small, family Scale
 - D-Town Farm
 - Detroit Ag Network and Garden Resource Collaborative
- Larger Scale
 - Hantz Farms
 - SHAR, Inc.





Programs to help increase the demand for healthy food

Marketing, outreach, and educational efforts to encourage better food choices:



Bridge Card

Eastern Market is the largest farmer's market in the country with regard to SNAP benefits having passed \$250,000 in benefits from recipients to farmers since July 2007.

Food Voucher Programs (Mo' Bucks)

Voucher program to create an incentive for SNAP benefit recipients to eat fresh fruit and veggies while supporting local farmers.

Market Programming

Eastern Market has begun to integrate cooking demonstrations into retail market days and is adding kitchens to improve education and outreach efforts.

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Slide from Dan Carmody, President, Eastern Market Corporation



