

SUSTAINABLE FOOD

THE 2014 EPB/UNF
ENVIRONMENTAL SYMPOSIUM

By Anna Rabhan

FRIDAY, AUGUST 15, 2014

AND YOU ARE?

THE ORGANIC ADVENTURER



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Green Living Consultation

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AND...

THE DIRECTOR OF VEGETABLE AFFAIRS



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Save the Date

The Full-Scale Jacksonville Food
Festival You've Been Waiting For!



IN HEMMING PARK
the weekend of
MARCH 21ST

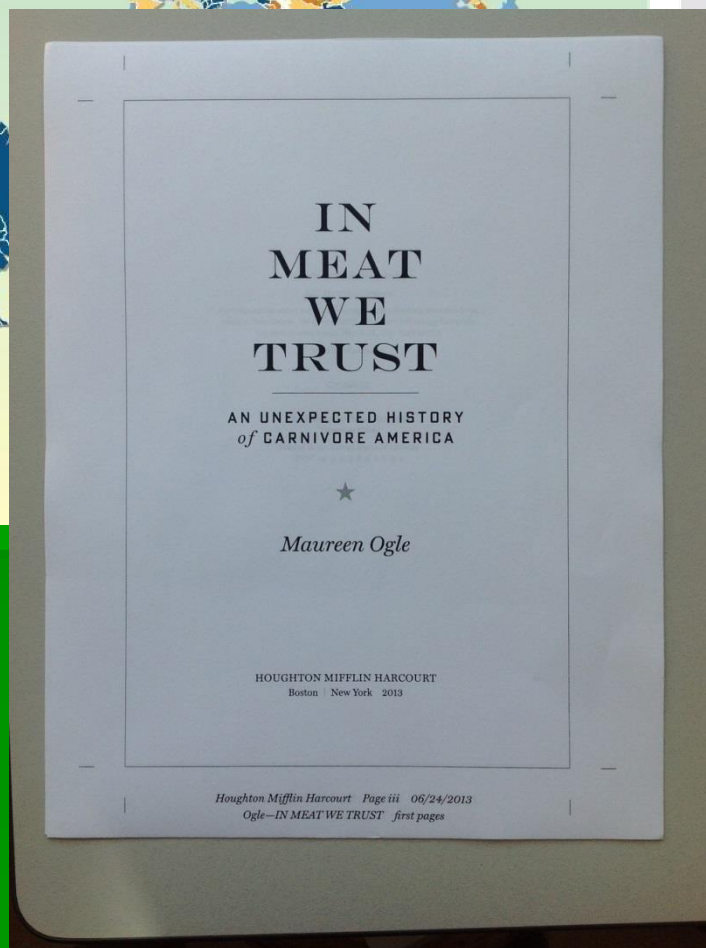
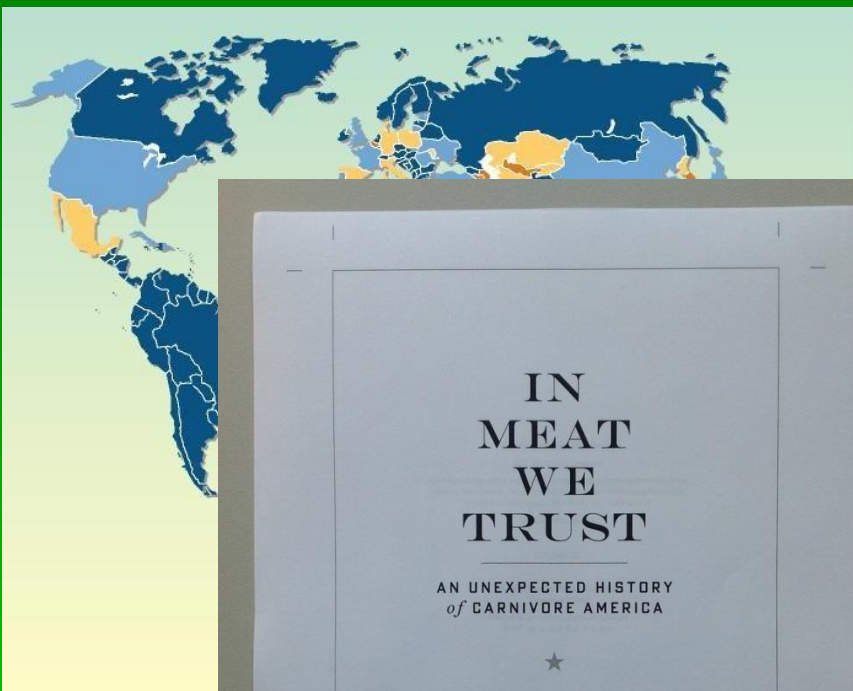
WHAT IS SUSTAINABLE FOOD?

“The production of food, fiber or other plant or animal products using farming techniques that protect the

- environment
- public health
- human communities
- animal welfare”

- sustainabletable.org

WHY DOES IT MATTER?



**Winner of the Pulitzer Prize**
for National Reporting

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Warning: max(): When only one parameter is given, it must be an array in /home/insideclimatenews/domains/www.insideclimatenews.org/prod/sites/all/modules/custom/...

Agriculture Industry's Oil Addiction Threatens Food Security

ester R. Brown, InsideClimate News Jul 16, 2009



We are an oil-based civilization, one that is heavily dependent on a resource whose production will soon be falling.

Since 1981, the quantity of oil extracted has exceeded new discoveries by an ever-widening margin. In 2008, the world pumped 31 billion barrels of oil but discovered fewer than 9 billion barrels of new oil.

Tweets

Elizabeth Douglass @eadouglass
via White House office- "sometimes that involves changing what the regulation means" @ProPublica
<http://t.co/FvUaQkTPlg> - 1 hour 21 min

InsideClimate News @insideclimate
"They get their permits and they're basically...above the law that everybody else has to follow." #fracking #Texas
<http://t.co/CiEC8hgUFh> - 1 hour 41 min

InsideClimate News @insideclimate
RT @Jim_Efstathiou: US will be world's largest solar market by 2016, says Jigar Shah - PV-Tech

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- Articles & Investigations
- Today's Climate
- Clean Economy Wire

CAN WE FEED THE WORLD WITHOUT DESTROYING THE ENVIRONMENT?

<http://discover.umn.edu/news/environment/international-team-crafts-plan-feed-world-and-protect-planet>

- STOP FARMLAND EXPANSION
- OPTIMIIZE FOOD PRODUCTION WHERE IT ISN'T ALREADY
- STRATEGIC REALLOCATION AND USE OF NATURAL RESOURCES
- EAT LESS MEAT
- REDUCE WASTE

WHY ISN'T OUR CURRENT FOOD SYSTEM SUSTAINABLE?

REMEMBER:

- ENVIRONMENT
- PUBLIC HEALTH
- HUMAN COMMUNITIES
- ANIMAL WELFARE

ANIMAL AGRICULTURE IN A GLOBAL, INDUSTRIAL FOOD SYSTEM



Graphic: thecostofdiet.wordpress.com

CAFOs LEAD TO...

Raw animal waste can be seen moving off site with the floodwaters before these "lagoons" were totally submerged.

Graphic: N.C. Riverkeepers & Waterkeeper Alliance

Graphic: care2.com

SUSTAINABLE?

ENVIRONMENT
PUBLIC HEALTH
COMMUNITIES
ANIMAL WELFARE

BACTERIA LEVELS
WATER CONTAMINATION



FOR MORE INFORMATION CALL: 630-CITY OR
VISIT DUVAL TRIBUTARY WATCH WEBSITE AT:
www.floridadep.org/northeast

ANTIBIOTIC OVERUSE

Estimated US antibiotic use (annual kgs, approx)

150,000
150,000
70,000

SUSTAINABLE?

ENVIRONMENT

POSSIBLE HUMAN

HUMAN COMMUNITIES

ANIMAL WELFARE

2010 USDA Food Safety and Inspection Program report:
“Based on our review, we found that the national residue monitoring

Abstract: Antibiotic residues and antibiotic resistant bacteria from untreated animal wastes can lead to the proliferation of antibiotic resistance in the environment. Preliminary studies detected antibiotic (AB) residues and antibiotic resistance (ABR) genes in the soil and water environments that were under the influence of livestock operations, suggesting that these contaminants can be potential threats to drinking water sources. However, little is known about what environmental factors determine the fate and transport of these contaminants in soil or water, which impedes the development of practical solutions to mitigate the contaminants in the environment and treat them in drinking water. Therefore, in the proposed project, the following objectives will be achieved: 1) measure various AB residues and ABR genes in various agricultural wastewater environments and determine the environmental factors that govern the fate and transport of these contaminants; 2) quantify the effects of ultraviolet (UV) radiation and oxygen levels on the fate of AB residues and ABR genes in animal waste lagoons; and 3) investigate the fate of AB residues and ABR genes during disinfection using chlorine, and quantify the potential of the disinfected water in proliferating antibiotic resistance. A successful completion of the research objectives will contribute to the development of new management practices to minimize the impacts of AB residues and ABR bacteria on water sources during animal waste handling and lead to the design of drinking water treatment processes to eliminate the potential impacts of these contaminants to human health.

Progress/Completion Report, 2010, [PDF](#)

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U.S. Department of the Interior | U.S. Geological Survey

URL: <http://water.usgs.gov/wri/10grants/2010NE2079.html>

Page Contact Information: [Earl Greene](#)

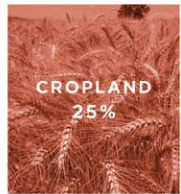
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Against Antibiotic
Resistance

[Contact CDC-INFO](#)

DEPLETION OF NATURAL RESOURCES

Agricultural Land
(% of area)



Energy
(% of biomass)

NONFOOD CROPS 3%

PLANT FOODS 8%

PIGS/CHICKENS 3%



Some of the other products we consume take quite a bit of water, some surprised me in their water-conservancy, but none surprised me more than chocolate. On gallons to make a pound, here's how the other foods fare:

Goat – 127

Sheep – 731

Pork – 576

SUSTAINABLE?

ENVIRONMENT

PUBLIC HEALTH

HUMAN COMMUNITIES

ANIMAL WELFARE



Graphic: trust.org

Graphic: care2.com

PLANT AGRICULTURE IN A GLOBAL, INDUSTRIAL FOOD SYSTEM

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...you eat today has very little nutrition in it—especially compared to some of the other less healthy foods you likely also eat—but it is true that fruits and vegetables grown decades ago were much richer in vitamins and minerals than the varieties most of us get today. The main culprit in this disturbing nutritional trend is soil depletion: Modern intensive agricultural methods have stripped increasing amounts of nutrients from the soil in which the food we eat grows. Sadly, each successive generation of fast-growing, pest-resistant carrot is truly less good for you than the one before.



Martin Poole, Digital Vision/Thinkstock



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10 days

NASA / AP, FILE

FOOD DISTRIBUTION IN A GLOBAL, INDUSTRIAL FOOD SYSTEM



WE'VE BEEN HERE BEFORE

Graphic: withrealtoads.blogspot.com



WHAT WILL WE DO?



WHO CAN REGULATORY AGENCIES AND LOCAL GOVERNMENT PARTNER WITH TO HELP CREATE A LOCAL, SUSTAINABLE FOOD SYSTEM?

- SUSTAINABLY MINDED LOCAL FARMERS
- CSAs & CO-OPS
- LOCAL MARKETS
- FARMERS MARKETS
- PERMACULTURE COMMUNITY
- COMMUNITY GARDENS
- LOCAL, SUSTAINABLY ORIENTED FOOD BUSINESSES
- FLORIDA-FRIENDLY HOMEOWNERS/EXTENSION
- HOME GARDENERS

WHO?



IF ASKED...

“IF YOU COULD TELL THE ENVIRONMENTAL PROTECTION BOARD, OTHER REGULATORY BODIES, AND LOCAL AND STATE GOVERNMENT WHAT YOU NEED FROM THEM IN ORDER THAT OUR LOCAL FOOD SYSTEM BECOME AND BE TRULY SUSTAINABLE AND *THRIVE*, WHAT WOULD YOU SAY?”

THEY WILL SAY...

“Make the Florida Friendly Landscaping mean something in this area and educate [the EPB, other regulatory agencies and local government] on what it is and what we’re doing for...the health of the people, soil and planet. I’d like to teach that class!”

- A., Permaculture

AND

“Have graywater systems legal here [and/or not such a complicated and expensive prospect that it’s effectively impossible).”

- A., Permaculture

AND

“What I would tell the Environmental Protection Board is that the one size fits all approach does not work. The Industrial Food system creates its own need for regulation because of the management practices they use, i.e. CAFOs, runoff, chemical use, etc... But, contrast that to the management practices employed by sustainable farmers, farmers that actually care about the land and the environment, and you have a much different picture.”

- C, Farmer

AND

“The biggest obstacle I face in making my sustainable farm thrive is access to capital, so whatever local government could do, offer some of those business incentives the big corporations get for moving to town to us small, local businesses, facilitate partnerships between the utilities and farms, come out and learn what we’re all about and what we contribute, would help.”

- K., Farmer

AND

“Maybe if there were some sort of incentives or initiative for neighborhoods to have a neighborhood community garden, to keep a bee hive, to convert the whole neighborhood to Florida Friendly, rather than relying on the occasional hard-working volunteer, sustainable things might actually happen.”

- J., Resident

AND

“We worked so hard on our community garden. We tried so very hard to have an organic space where we conserved water, we composted so we wouldn’t have to use chemical fertilizers and we had a bee hive so they would pollinate our plants. We were supposed to be in an exclusion zone for the mosquito spraying, but we went out one day and all our bees were dead. Come to find out they’d just done the aerial spraying.”

- S., Community Garden

AND

“We SO need municipal compost in this city!”
- C., Resident

“We need this!”
- N., Resident
(fleetfarming.com)



WE WOULD ALL DO WELL TO REMEMBER



THANK YOU!

- I hope this day has been helpful to you and will prove helpful to our planet!
- Please visit www.theorganicadventurer.com and keep in touch. We're on Facebook and Twitter too!