

Over-Arching Themes

- ▶ Logic of Nature vs. Logic of Human Industry
 - ▶ Lack of a 'steadying food culture' in the US
 - ► Evolving science and 'science'
 - ▶ Exaggerated focus on appearance and health
 - Susceptibility to marketing
- ▶ Eating as an Agricultural Act
 - Our most profound engagement with the natural world
 - Industrial eating blocks the relationship
 - 'Nature never grows a monoculture ...'
 - ► Agricultural, AND Ecological, AND Political Act

So, what shall we have for dinner?

The food chains that sustain us

- ▶ The industrial
 - ▶ One word: CORN
 - ▶ Monoculture to support the entire meal, everywhere
- ▶ The pastoral
 - ▶ Industrial organic
 - ▶ Monocultures transported/collected at points of sale anything, anytime, anywhere
 - ▶ Organic
 - ▶ Grass-fed animals, varied vegetables supporting seasonal locovores
- ▶ The personal
 - ► Hunting & gathering doing it all for yourself

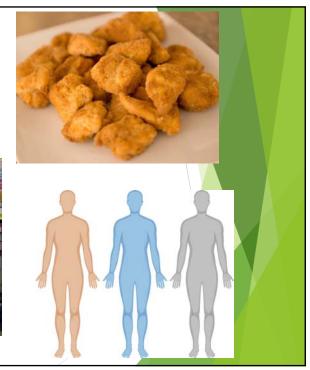
So, what shall we have for dinner?

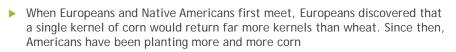


Corn: The Plant Conquest

► Corn (Zea Mays) is nearly in everything!





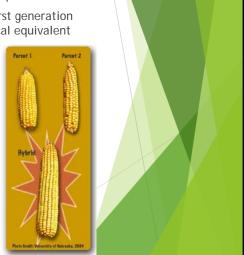


▶ Zea mays is especially easy to cross pollinate to create hybrid crops.

A hybrid was discovered that produced a superior yield in the first generation (or F-1) and an inferior yield in the second, creating the biological equivalent

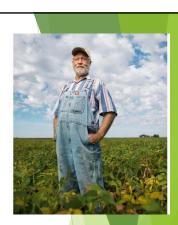
of a patent. Corn was now ready for corporate attention.





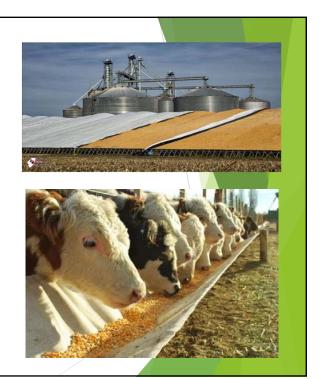
The Farm

- ▶ It costs a dollar more to produce corn than it does to sell it.
 - ▶ Farmers are able to produce twice as much corn as past generations but are struggling to make ends meet.
- ▶ Crops that once relied on solar energy now rely on fossil fuels.
 - ▶ Fossil fuels are needed to create synthetic nitrogen used in the soil
- George Naylor's "Naylor Curve
 - increase in the production of corn drives down the price of corn. This benefits corporations like Cargill and Coca-Cola as well as consumers who need corn to feed their livestock or their families. The only way farmers can pay their bills is to produce more corn, which in turn drives down the price.
- ► The industrial food chain has led to a perversion of the nitrogen cycle, agriculture, and perhaps the diet of America.



The Elevator

- Once one of Naylor bushels of corn reached the elevator it could no longer be followed. It was indistinguishable from all the other bushels from other farmers before it was shipped out.
- ▶ Up until the 1850 corn was stored in and shipped in bags that contained the farmer's address.
- The Chicago Board of Trade instituted a grading system in 1856, which allows buyers to ignore who produces the corn and which also invites farmers to ignore any objective in growing corn except yield.
 - Pollen notes that factory farming, obesity in America, and the prevalence of food poisoning are all indirect consequences of this system.
- Three fifths of America's corn ends up on the factory farm, where cattle are fattened for slaughter.



The Feed Lot

- ► Garden City, Kansas, an industrial feedlot.
 - ▶ The feedlot has produced more problems than solutions.
- ▶ Cattle has evolved to eat grass-Benefits grass and grassland habitats
- ► Feedlot largely eliminates grass to a preference of corn-Fattens cattle faster but creates problems
 - ▶ Manure too high in phosphorus and nitrogen to use as fertilizer
 - Concentrated animal feeding operation has produced medical problems which is solved by antibiotics but creates drug resistant bacteria.
- ► "Corn-fed feedlot steer represents the ultimate triumph of industrial thinking over the logic of evolution."

The Processing Plant

- ▶ Corn that is not sent to the feedlot ends up in the processing plant
- Mills: Traditional mill-grinds corn into flour to produce tortillas Wet Mills-breaks corn down into its molecular parts
- Processed Food: Benefits-Less food spoils, better access to food
 - > Big company's process food for profit rather than nutrition









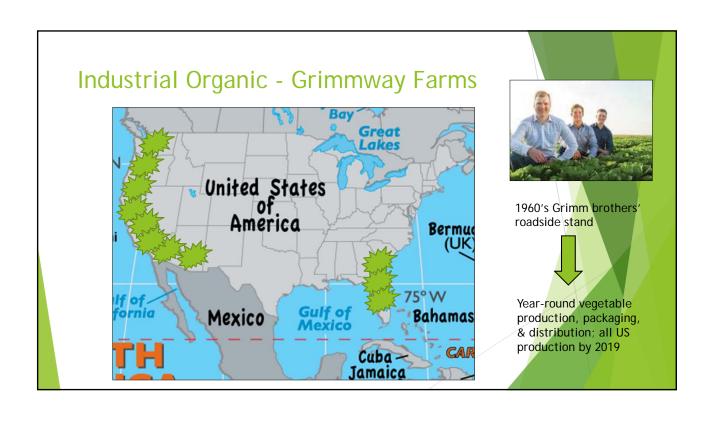
The Consumer

- Early nineteenth century farmers responded to surplus of corn by making cheap whiskey.
 - Created an epidemic of alcoholism
- Now three of every five Americans are overweight and one in three have a chance of developing diabetes
- With the drop in the price of corn processed food becomes cheap and plentiful.
 - ▶ Invention of high fructose corn syrup creates a cheaper sugar alternative
- With cheaper alternatives company's such as McDonalds began the Super Size movement to gain more profit.
 - Obesity and diabetes have become more prevalent because energy-dense foods like a Big Mac are now the cheapest on the market
- Government is still subsidizing the cheap corn that guarantees that "the cheapest calories in the supermarket will continue to be the unhealthiest."



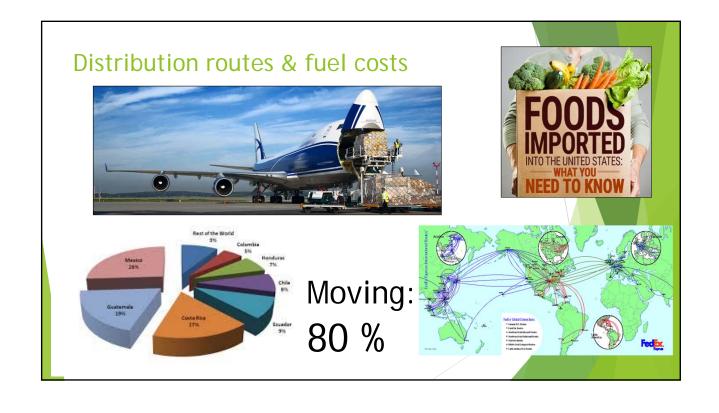




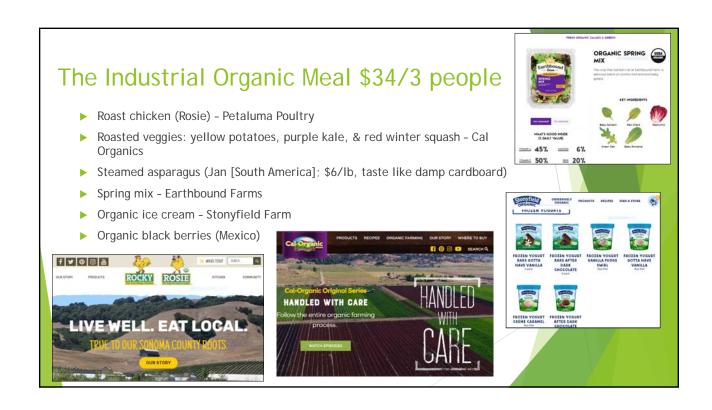




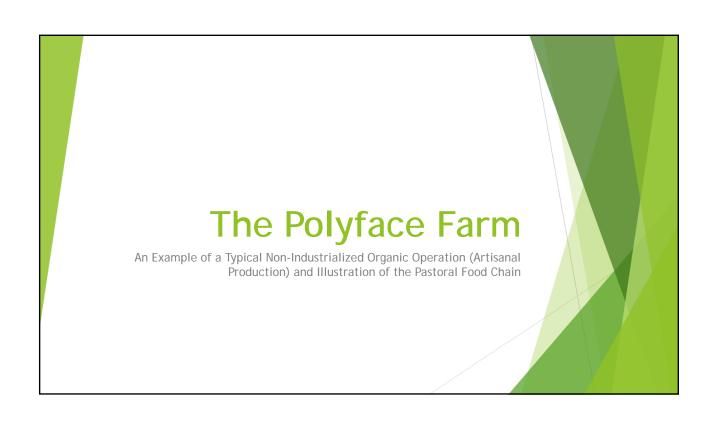












Polyface Farm - A Typical Pastoral Organic Operation



William and Lucille Salatin



Joel Salatin - A Grass Farmer

Christian libertarian environmentalist capitalistic lunatic farmer. Others call him High Priest of the Pasture, Bio-terrorist, Typhoid Mary, Charlatan, Starvation Advocate

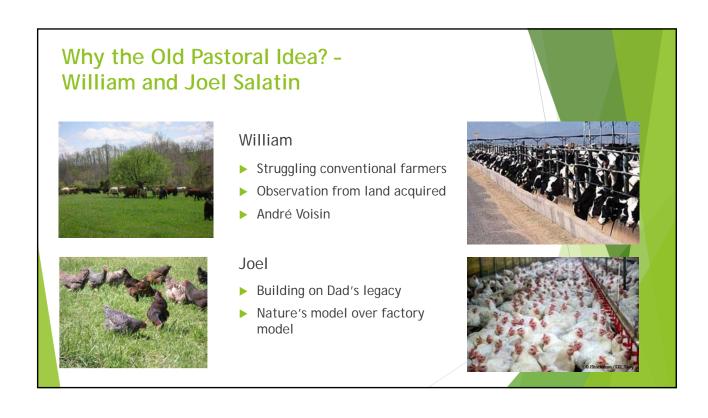
Polyface Farm Products

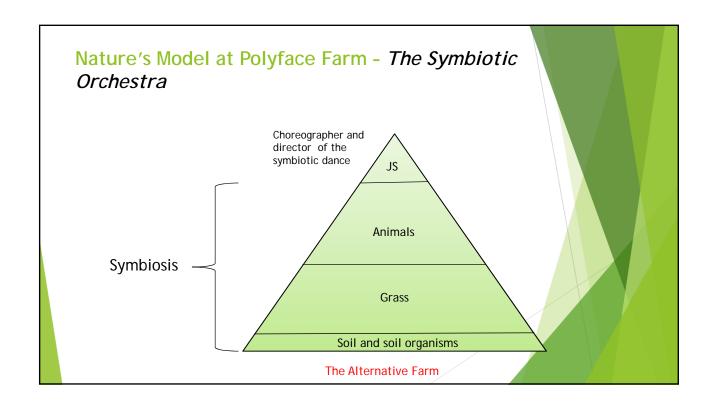
From 100 of 550 acres

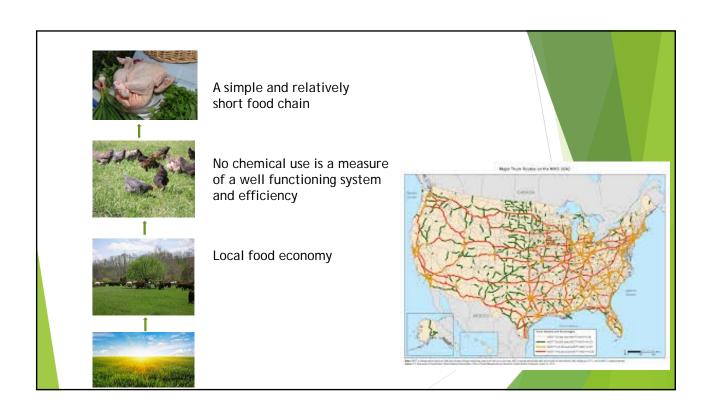
Product	Quantity
Beef (Salad Bar)	25, 000 lbs
Pork (Pigaerator)	50, 000 lbs
Broilers (Pastured)	12, 000 lbs
Eggs	30, 000 dozens
Turkeys (Pastured)	800
Rabbits (Forage based)	500

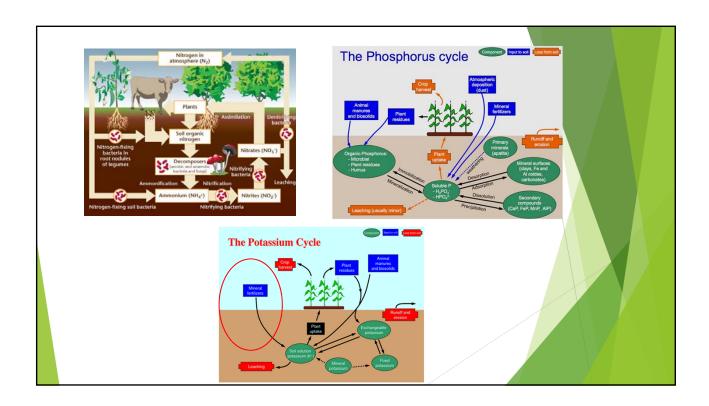


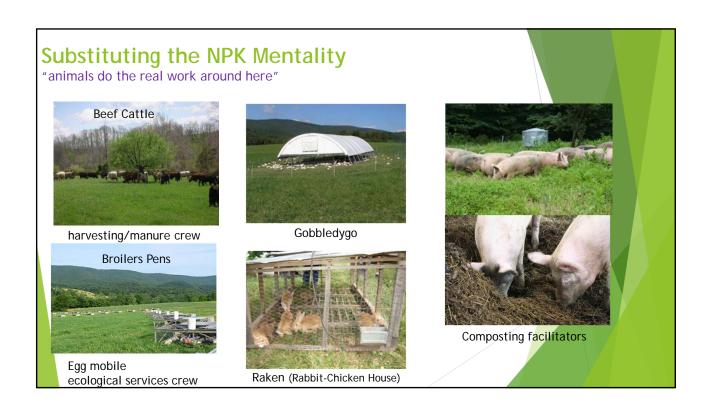
Relationship marketing













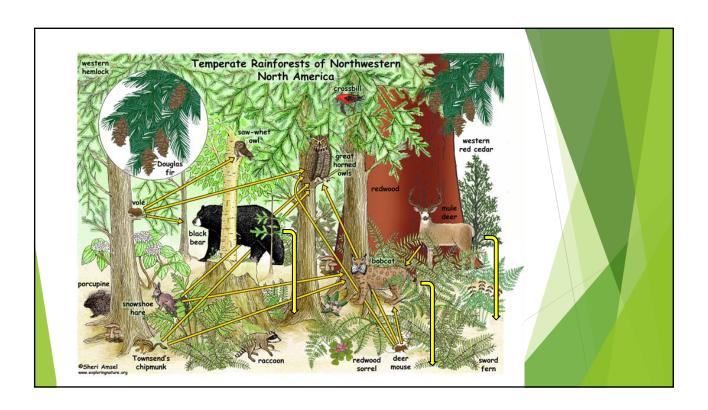




The Cohort Dilemma

- How many omnivores?
- ► How many vegetarians or vegans?
- ► How many foragers?
- ► How many hunters?







































Pride

Deconstructing Dinner* *NY Times Book Review, David Kamp, April 23, 2006 Can You Really Save the Planet at the Dinner Table?** ** An economist's critique of The Omnivore's Dilemma Tyler Cowan, Nov 01, 2006

Reviews agree ... and disagree

- Satisfying detail
- National eating disorder
- ▶ Crazy pervasiveness of corn in the typical American diet
- ► Economist argues the value of the time consumed in the Personal meal far outweighs the costs of any of the other options
- ▶ People are more likely to want to purchase a car with better fuel economy than to give up access to grapes flown in from Chile at great fuel expense
- 'Fuzzy nostalgia for the preindustrial past'

We Omnivores: When You Can Eat Anything

- How do YOU choose?
 - ▶ Time crunch
 - Multi-event juggling
 - ► Enjoying the meal!!??
- ▶ Did this reading assignment change the way you look at deciding?
- ▶ As Texans, where do we fall?
 - ▶ Big corn > big cows > big steaks
- As humans attempting to be healthy?
 - ▶ More veggies, but *all* local or seasonal?? Isn't HEB good enough?
- ▶ As educators, assisting others in making 'good' decisions?
 - ▶ Health? What diet does that mean *today*?
 - Science and responsibility messaging in Urban Agriculture

So, what shall we have for dinner?