

Committed to the future of rural communities

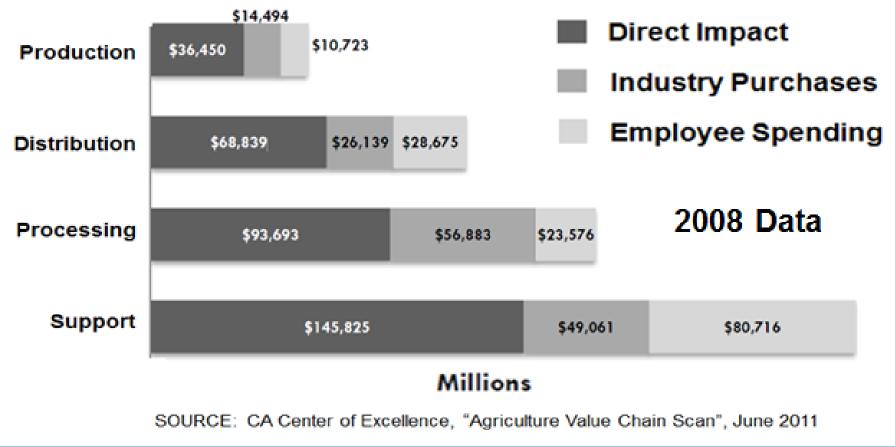
White House Business Roundtable

Jobs and Economic Development from the Farm/Food Value Chain

May 17, 2012

Dr. Glenda Humiston, State Director, California RD

California Agriculture Value Chain Direct Impact is over \$344 Billion Multiplier Effect Takes it to \$635 Billion per Year





Dr. Glenda Humiston May 17, 2012 Overview of California Initiatives



Projection: Agriculture Value Chain Occupation by Sector

SECTOR	2011 JOBS	5-YEAR NEW JOBS	AVG. HOURLY WAGE
Support	1,446,232	183,018	\$24.59
Production	206,303	-36,364	\$23.34
Processing	226,216	5,173	\$23.49
Distribution	585,014	29,913	\$24.04
TOTAL	2,463,765	181,740	\$23.87

SOURCE: CA Center of Excellence, "Agriculture Value Chain Scan", June 2011

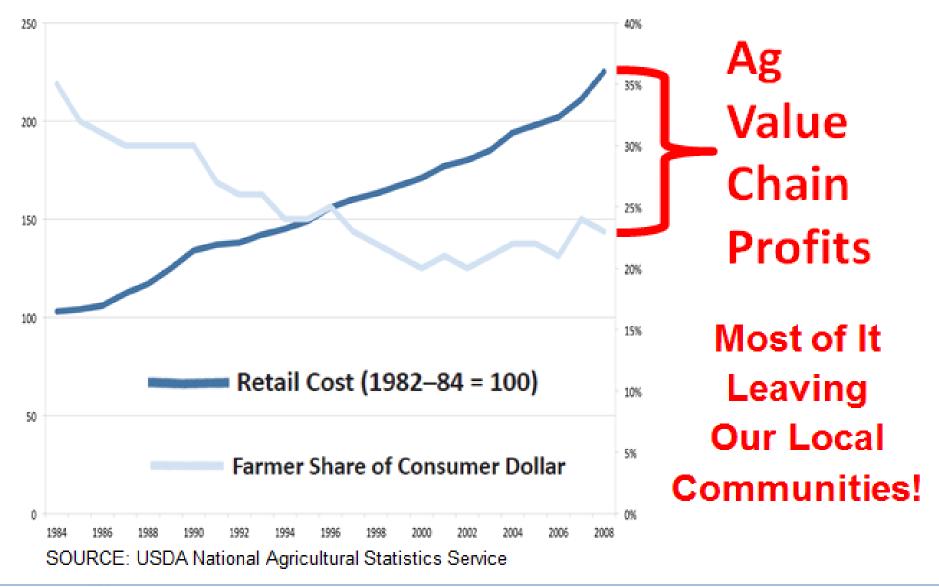
Dr. Glenda Humiston

USD

Rural

May 17, 2012 Overview of California Initiatives

Retail Cost vs. Farmer Share of Food Sales



USDA Rural Development

Dr. Glenda Humiston May 17, 2012 Or





Dr. Glenda Humiston

May 17, 2012

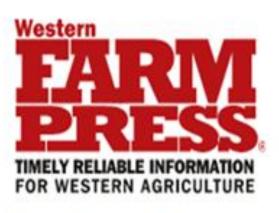


JOBS! HUSBANDRY HARVEST **PROCESS** COOLING **CUT & WRAP** PACKAGE **STORAGE** TRANSPORT MANAGE DISTRIBUTE MARKET **WHOLESALE** RETAIL TOURISM **SERVICE SUPPORT** RESEARCH

USDA Dr. Glenda Humiston

May 17, 2012

California Ag–Based Biofuels Expanding



Aug. 15, 2011: Wanted: California farmers to grow 25,000 acres of Camelina



4/27/11 – NASA has given jets their first taste of animal flesh and apparently they like it. In March and April, researchers at NASA Dryden Flight Research Center in California conducted tests of biofuel made of chicken and beef tallow (waste fat) in the engine of a DC-8 airplane; results were very positive.



Community Fuels exceeds ASTM standards and the more rigorous criteria established by major oil companies. Their state-of-the-art facility at the Port of Stockton has superb logistics and is ideally situated to serve Western and Pacific fuel markets. Community Fuels produces 30,000 gallons of biodiesel a day; it is sold to major oil producers, refinery operators and bulk fuel distributors.



Many California Firms Already Producing Bio-Based Products







Bio-based products for your foodservice operation

We're your #1 source for products made from the earth that can be returned to the earth – like sturdy, compostable Bridge-Gate products made from wheatstraw.

READ MORE





Dr. Glenda Humiston

May 17, 2012



About 65% of Value Chain Jobs & Economic Activity will be off the Farm – in our cities and rural communities.

Build Urban–Rural Partnerships



Reducing Conflict Between Rural and Urban Areas is Crucial





Dr. Glenda Humiston

May 17, 2012

Leverage Existing Infrastructure to Support Entrepreneurs

Aggregation Hubs

OPPORTUNITY: Partner with Food Banks

- Similar Facilities & Equipment
- Improve Access to Food Overall
- Complementary Hauling of Product





Commercial Kitchens

OPPORTUNITY: Partner with Schools, NGOs

- Use facilities & equipment 24/7
- Potential Revenue Stream for NGO
- Chance to Educate on Food Prep



Dr. Glenda Humiston

California Financial Opportunities Roundtable (CalFOR)

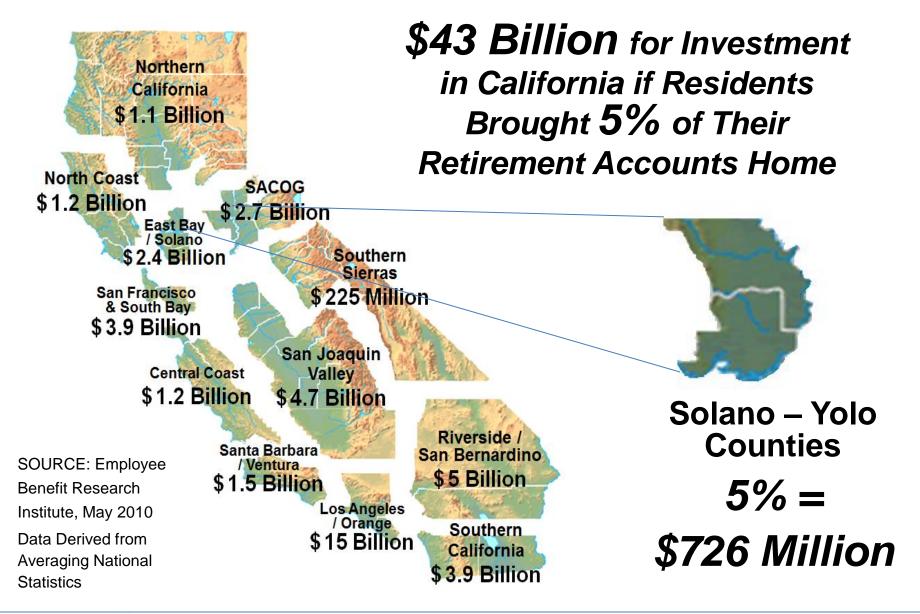
Community Development Financial Institutions Business Development Corporation Individual Development Accounts Employee Stock Ownership Direct Public Offerings Institutional Investors Local stock exchanges **Benefit Corporations Crowd-Funding**

Cooperatives

Dr. Glenda Humiston



California Citizens Hold \$859 Billion in Retirement Accounts





May 17, 2012

Dr. Glenda Humiston

THE FOOD CHAIN CLUSTER

Integrating the Food Chain in Solano & Yolo Counties to Create Economic Opportunity and Jobs



Why a Food Chain Cluster Study?

- Agriculture Futures Study pointed out the existing relationship among the ag regions in Solano and Yolo counties
- Index of Economic and Community Progress showed specialty manufacturing & logistics as growing clusters in Solano County
- General Plan updates reaffirmed policy of limiting/targeting development to ag-related business in the unincorporated area

What do we mean by "Food Chain?"



What did we learn?

• Food Chain represents \$2.5 billion in total economic activity, 10% of total GDP

ECONOMIC OUTPUT OF FOOD CHAIN

Gross Domestic Product by Segment Solano and Yolo Counties

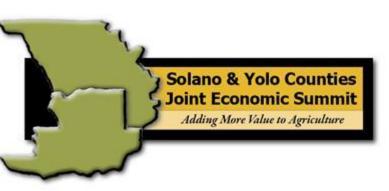


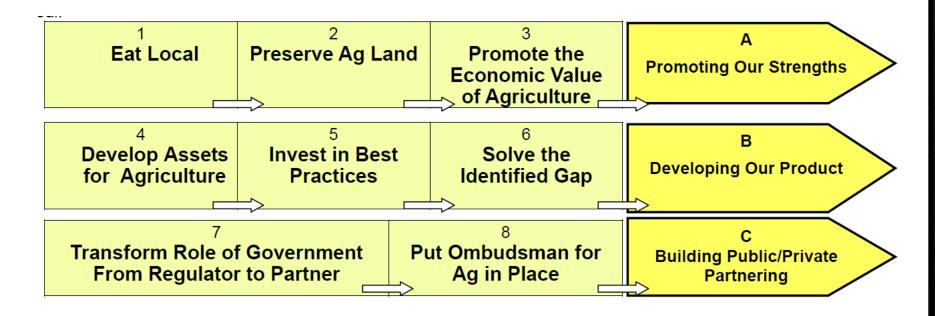
What did we learn?

- We have capacity to grow food chain even more
 - Infrastructure for transport interstate highways, railways, seaports, airports (distribution, opportunity)
 - Infrastructure for education high school through university (innovation, lifelong training, opportunity)
 - Available water and wastewater services (processing, production, opportunity)
 - Growing, capable of growing high-value crops with local and global demand (production, processing, opportunity)
 - Preservation of valuable farmland (production, capital commitment, opportunity)
 - Benefit from other clusters in seed production, seed research, biotechnology, energy (innovation, opportunity)

What did we do?

Held Solano and Yolo
 Counties Joint Economic
 Summit in November 2011







For an in-depth review of studies and information presented at the Joint Economic Summit, including the Food Chain Cluster study: www.solanocounty.com/jointsummit

California Food System Alliance Network

- Networked community-based multi-stakeholder leadership roundtables
- Producers, economic development, business, environmentalists, health and food access, distribution and processing, labor, civic
- Yolo, Sonoma, San Mateo, Santa Clara, Fresno, Ventura, Santa Barbara and San Diego





Challenges to Scaling-Up

Distribution Infrastructure Storage and Processing Liability and Food Safety Institutional Price-point Demand and Supply Issues





Regional Food Systems Promotion

Farm to School/Institution **Regulatory and Governance Food Safety** Land use – ag land preservation Infrastructure Development **Brokering Regional collaboration activities Branding/Marketing** Public Assistance Programs





Local Efforts and Solutions **Regional Aggregation and Distribution** Farm to School Farmsbudsmen Food Safety/GAP preparedness Brokering **Local Policies** Collaboration





Values-based Supply Chains and Food Hubs in California

Gail Feenstra

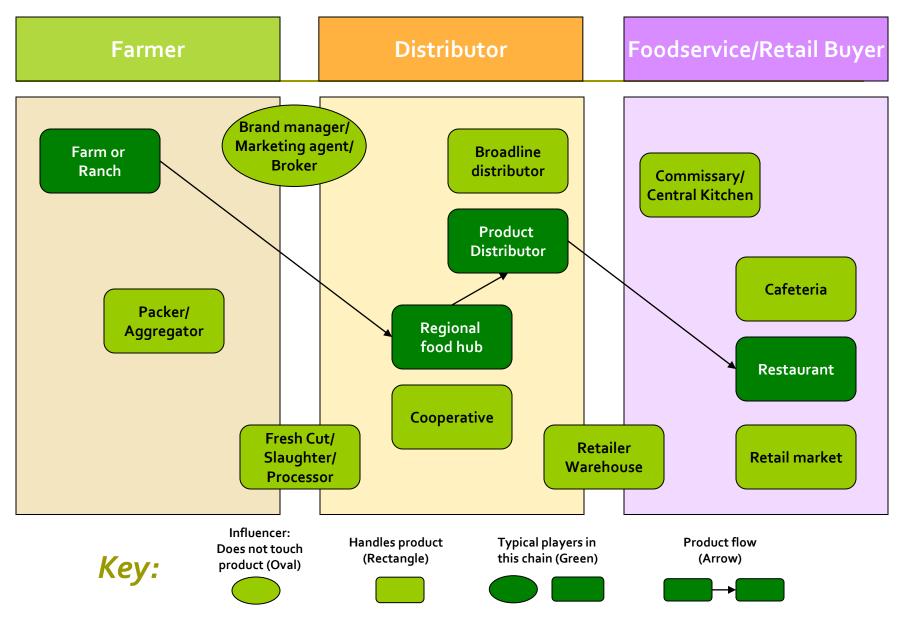
Ag Sustainability Institute, UC Davis

Shermain Hardesty, Ag & Resource Economics, UC Davis David Visher, ASI, UC Davis Tracy Lerman, UC Davis



United States Department of Agriculture National Institute of Food and Agriculture This presentation was partially supported by the National Research Initiative of the National Institute of Food and Agriculture, USDA, grant number 2009-55618-05093

Entities Involved in Supply Chain Decision-making



Values-Based Supply Chains (VBSCs)

Wholesale marketing channels that preserve the farmer/rancher identities who grew/raised the product, as well as any environmental, social and community values incorporated into its production.

What constraints do these enterprises face and how to overcome them?

How can these enterprises be strengthened and supported?

Project Goals [NIFA funded research]

- Identify how the success of "values-based" distribution networks involving small- and medium-scale producers are affected by:
 - Access to financial capital
 - Government, industry regulations and policies
 - Business/entrepreneurial savvy



Methodology

Perspectives from "inside the chain":

11 case studies of western US food distribution networks (values-based supply chains: CA, OR, CO)

CALIFORNIA

- 4 cases with institutional buyers
- 1 case with retail buyer

Perspectives from "outside the chain":

- \square ~90 interviews with:
 - Financiers, lenders
 - Industry associations and government agencies
 - Economic and community development professionals

Findings across Case Studies:

- Distribution expertise and prior investment in infrastructure is important for distributors.
- The "right balance" of small, mid-scale and large producers in distribution networks is important for financial viability of distributors.
- For non-profits, separating distribution and branding/ marketing reduces their financial capital requirements and allows them to focus on their strengths.
- Producers need to take responsibility for their own story. Ability to communicate producers' authentic stories is critical. May trump "local."

Top challenges faced by VBSCs

- S factors most likely to be identified by all 3 sectors as challenges to the viability of an *entire VBSC*:
 - Market demand
 - > Appropriately scaled infrastructure
 - > Economically efficient supply



Conclusions From Key Informant Interviews

- Market development, market access, and consumer education are significant challenges to viability of entire VBSCs
- Development of *local/regional food processing*, storage and distribution facilities could significantly enhance the viability of entire VBSCs, as well as the producers involved....
- HOWEVER, farmers need to ask questions before getting involved.

Conclusions From Key Informant Interviews

- Market development, market access, and consumer education are significant challenges to viability of entire VBSCs
- Development of *local/regional food processing*, storage and distribution facilities could significantly enhance the viability of entire VBSCs, as well as the producers involved....
- HOWEVER, farmers need to ask questions before getting involved.

How can we support development of VBSCs?

- Assist VBSCs in educating consumers regarding environmental and social benefits
- Provide training on regulatory compliance, business planning, recordkeeping and finance to producers involved with VBSCs
- Conduct assessments of local/regional food processing, storage and distribution facilities
- Facilitate collaboration among producers needing facilities
- Identify potential funding sources for such facilities
- Help plan for long-term sustainability



Rural-Urban Connections Strategy

Enhancing Rural Economic Viability and Environmental Sustainability



Land Use-Transportation Plan For every 1,000 new residents:

2008-2035

42

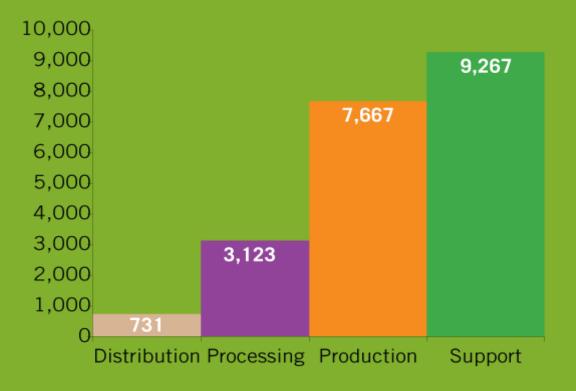
acres

1988-2005 333 acres

Ag Industry in SACOG Region



Source EDD CREE Data





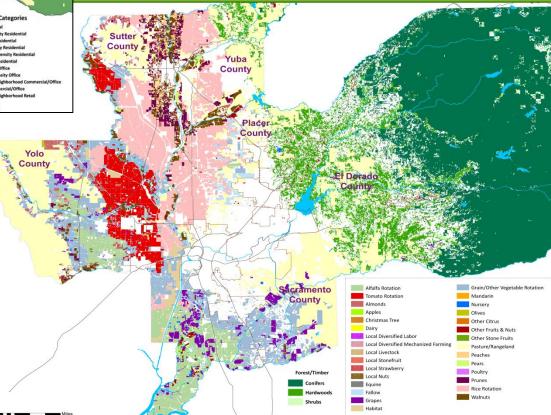
Production and Consumption

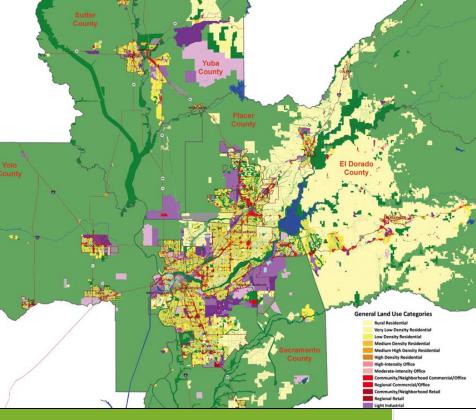
Consumption 2.2 million tons

 2% Locally Produced

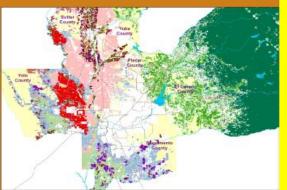
Production 3.4 million tons

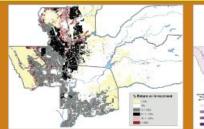
Perspective Shift: Urban \rightarrow Rural





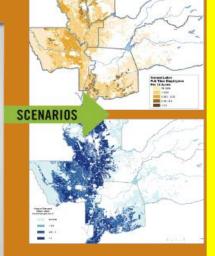
1 CROP MAP







④ I-PLACE³S



CONOMETRIC MODEL
 RANGELAND
 ALFALFA RICE GRAIN
 TOMATO FALLOW
 FUEL PRICES
 DUBLE
 O% 25% 50% 75% 100%

AND USE PLAN

③ DIET/LAND NEEDS

NUMBER OF LOCAL TYPE OF HOW MUCH

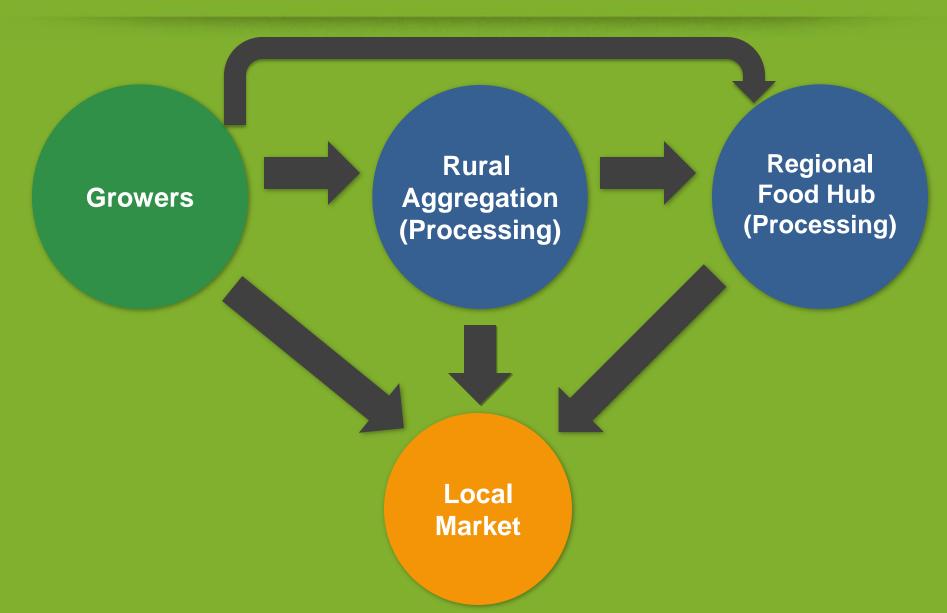


INFRASTRUCTURE/FISCAL MODEL (IMPACS)

TYPE & AMOUNT OF INFRASTRUCTURE & SERVICES NEEDED BUILD, MAINTAIN & PROVIDE SERVICES



Regional Food Systems



Policy Considerations

- Land Use and Conservation
- Transportation
- Water and Flood
- Economic Development

Pacific Coast Producers

Company Profile

✤ Agricultural Cooperative founded in 1972

✤ 165 Member-Owners representing

- Tomatoes
- Peaches
- Pears
- Grapes
- ✤ Apricots
- Apples
- Cherries
- Plums

Production Profile

- Tomato Production
 - PCP Owned Facility Woodland
 - Alliance Facility (Morningstar) Los Banos
- Fruit Production
 - PCP Owner Facility Lodi
 - PCP Owned Facility Oroville
 - ✤ Alliance Facility (Del Monte) Yakima, Washington

Distribution Profile

West Coast Distribution Center

- ✤ 955,000 Square Feet Consolidation Warehouse
- Multiple Case and Label Lines
- ✤ 70 100 trucks shipped per day
- ✤ 10 14 rail cars shipped per day
- National Distribution Network
 - Third-Party Warehouses
 - ✤ Goal Two-Day lead-time to any customer
 - Complete integration of import program

PCP's Extensive Distribution Network:



Logistic Challenges

- Equipment Concerns Have Been Resolved
 - For Now
- Concerns for Drivers
 - Age of Drivers Need to Bring Renew Workforce
 - Work Rule Issues Need for Review 500 mile rule
- Different Rules by States
 - Weight Differences
 - Axle Differences
 - Environmental Compliance

Logistic Challenges

✤ AB 32 – Cost of Compliance and Conversion

✤ Port Rules

Continued Fuel Concerns

Possible Long-Term Natural Gas Solutions

Usual Customer Issues

- ✤ Late-Pickup
- Equipment Doesn't Match Weight Requirement

How Can The Government Help?

- Insure Common Rules Across States
 - ✤ Labor / Driver Rules
 - Weight Standards
 - Axle Standards
 - Environmental Compliance
- Long-Term Solutions Regarding Fuel Cost
 - Natural Gas Conversion
 - Natural Gas Availability
 - Power Unit Research and Development





History

- Founded in 1976 by Kathleen Barsotti and Martin Barnes
- Second farm to be certified organic in Yolo County
- Farm Fresh To You CSA founded in 1992
- Today, brothers Freeman, Thaddeus and Noah co-own and run the business





Growth of the Firm

- In 2000, FFTY was delivering about 500 CSA boxes
- In 2012, with hubs in South San Francisco, San Leandro, Los Angeles and West Sacramento, we are delivering organic produce to **over 50,000** homes
- How did this happen? Market trends were with us. Utilizing technology, maintaining core competencies.
- Not only is this a sustainable model for us, opportunity for this to be expanded to other farms





Opportunities / Threats

- As a farm, we face challenges with weather, water and pests
- Unlike most farms as we expand our business, we are challenged by the increasing need for state-of-the art, customized IT solutions for the sophisticated internet user and for use in larger scale procurement
- Some wonder if the market trends for organic and local food will falter; we believe these trends have gone mainstream and are here to stay. They have become part of our food system.
- Food Safety Modernization Act

Continuing the mission – connecting people with the land that grows their food









Overview

- Goal of 100% Mission-Aligned Portfolio
- Dual Emphasis on Financial and Impact Outcomes
- Institutional Scale
- Global Mandate
 - Wide Range of Size and Stage
 - All Asset Classes
- Long-term Investment Horizon
- Team of 18 Investment Professionals
- San Francisco-based





Sustainable Agriculture Value Chain Investments

- Farmland access
 - Farmland leased to organic, young/beginning/small farmers, and farmers participating in regional value chains
 - Capacity for long-term leases and equity building options
 - Goal is to bring new acres and farmers into organic production and regional markets

• Credit Availability

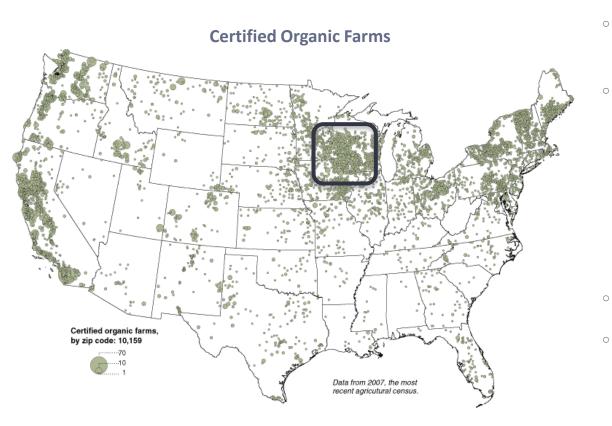
- Financing vehicles that create credit opportunities for target farmers and businesses operating in regional value chains
- Access to credit is currently constrained by a lack of capital targeting these borrowers and limited origination capacity

• Growth Equity and Private Loans

- Private investment in farms, NGOs, cooperatives, and businesses participating in regional value chains



Credit Availability: Upper Midwest Value Chain Financing



Overview

- Loan participation program
 created with local CDFI partner
 - Eligible borrowers:
 - YBS farmers
 - Cooperatives
 - Nonprofits
 - Land trusts
 - Small and mid-size businesses
- Small individual loans: \$25k-\$250k
- State and Federal loan guarantee programs play an important role reducing borrowing costs