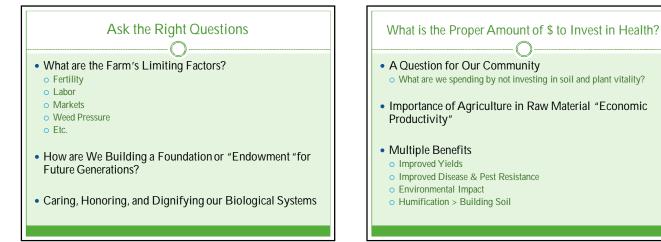


Receiving Earth's Energy

- Plants and Soils Capturing Energy
- Enhancing our Environment
- Carbon
- What % of optimal are we functioning at?







- Deep Nutrition Share at Brix Bounty Farm
- "Wintertime Vegetable CSA Share Price Our prices reflect our deep commitment to growing top quality produce using sustainable practices which emphasize care for the earth. We are striving to take the necessary actions to make accelerated steps toward improved nutritional quality in our production. To this end we are inviting our CSA members to make a voluntary investment in our Capital Fertility Plan, dubbed the Deep Nutrition Share (\$100 investment for wintertime shares, \$200 investment for summertime shares). See our Wintertime CSA Share Information for complete information about the new Deep Nutrition Share Investment Option."
- "Asking for Support" (with a story)

Results of Our Inaugural Offering

• What are we spending by not investing in soil and plant vitality?

Productivity"

o Improved Yields

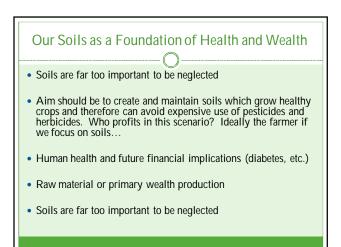
o Environmental Impact

• Humification > Building Soil

o Improved Disease & Pest Resistance

- 2011-2012 Wintertime CSA: o 6 Distributions \$250 – November – January
- Small Wintertime CSA currently ~35 Members
 - 34 Members @ \$250 = \$8,500.00
 - o 12 Deep Nutrition Shares @ \$100, 2 @ \$50 = \$1,300.00
 - o ~41% of Wintertime Members Contributed
 - o ~15% Additional Dollars from Deep Nutrition Share
 - o +20 yds of EarthCare Farm Compost for Hoophouse & Garlic Beds, additional soil testing and microbial inoculants.





Folks Who Provide Insight Into Fertility

- William Albrecht Soil Scientist at U. of Missouri, focused on the basic cation saturation ratio (BCSR) o Neal Kinsey - follows Albrecht methods
- Eliot Coleman "The New Organic Grower"
- Sir Albert Howard "An Agricultural Testament"
- Carey Reams Reams Biological Theory of Ionization • Arden Andersen, Dan Skow - building on Reams's work
- · Rudolf Steiner Lectures formed foundation of **Biodynamic Agriculture**
- And... a growing network of growers, labs, and scientists

Fertility Budget Primers

- Resources
 - o Laurie Drinkwater (Cornell) A Closer Look at Nutrient Budgeting * http://www.smallfarms.cornell.edu/tag/nutrients/
 - Organic Farming Research Foundation Project Report (Drinkwater) http://ofrf.org/funded/reports/drinkwater_03s16.pdf
 - o Nutrient Cycling and Maintaining Soil Fertility... (U of Minn.)
- <u>* http://www.extension.umn.edu/distribution/horticulture/m1193.html</u>
 Using Manure and Compost as Nutrient Sources... (U of Minn.) * http://www.extension.umn.edu/distribution/horticulture/M1192.html
- Nutrient Budget Basics for Organic Farming Systems (eXtension.org) http://www.extension.org/pages/18794/nutrient-budget-basics-for-organic-farming-systems

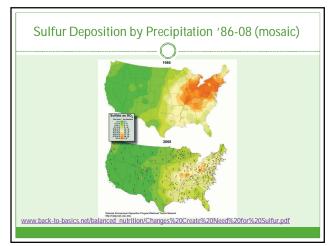


- Biology, Chemistry, and Physics
 But Don't Forget (Cultivation, Efficient Labor, Marketing, Water)
- Start With Proper Information
 Soil Testing
 Crop Value and Market Demand
- Assessing Existing Fertility
- Assessing Farm Generated Fertility
- Financial Budget Will Often Dictate Choices

Fertility Recommendations

- Climatic Impact on Soils (Albrecht)
 Mosaic Co. Back-to-Basics http://back-to-basics.net/
- Based on Soil Analysis
- Past Amendment Application
- Field History
- Organic Matter and Cover Crop Nutrient Credits
- Current and Future Crops







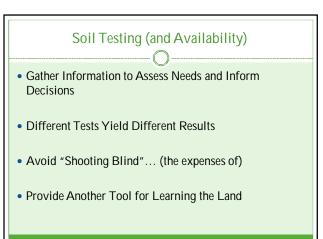


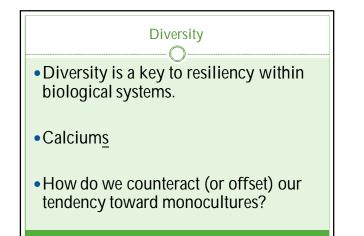


Biology, Chemistry, & Physics

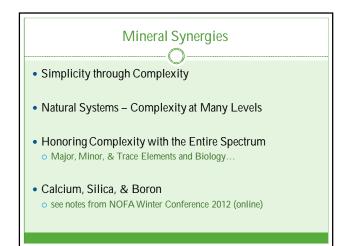
- Agriculture's Triple Bottom Line...
- Soil health is a function and result of interrelated processes including biological, chemical, and physical characteristics.
- Chemistry influences Biology and Physics
 Ca vs. Mg and soil flocculation
- Physics influences Chemistry and Biology
 Oxygen necessary for aerobic soil biology
- Biology influences Chemistry and Physics
 Mycorrhizal fungi producing Glomalin and improving P availability





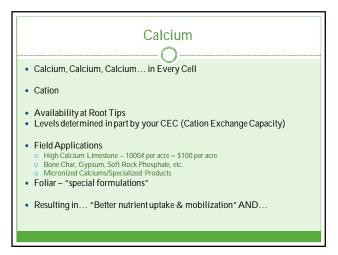


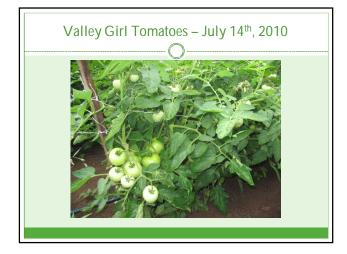


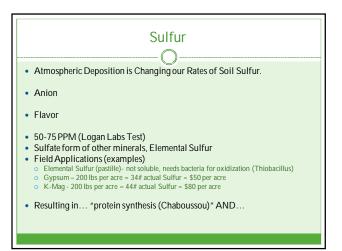








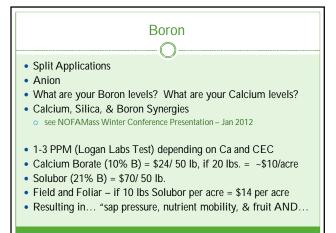




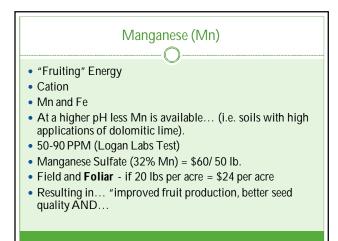




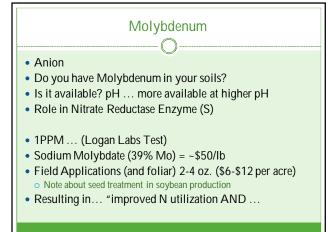












Building Fires

- Sharing Experience and Knowledge
- Taking Action to Improve Fertility in our Fields
- Hope & Excitement for Future Production
 Quality
- Our Continued Development

