Regenerative Agriculture Systems
Why do you farm?
Northeast farmers have two tremendous opportunities:
1. Replacing West Coast production

2. Addressing plant health challenges at the source, rather than band-aiding them
West Coast production, the big picture:

California is a desert that has already happened

People will be relocating east

Food production will be moving
California is losing its historical competitive advantages:

- Readily available labor
- Plentiful irrigation water
2. Addressing plant health challenges at the source, rather than band-aiding them
1. Carbohydrates  - soil borne pathogens
2. Proteins - sucking and chewing insects
3. Lipids - air borne pathogens
4. PSM’s - beetles
Farming is a profession of generalists

Research is a profession of specialists
There is a large disconnect between research and practical application
Molecular Plant Immunity

Innate Immunity of Plants, Animals and Humans

Edited by Guido Sessa

Springer
MINERAL NUTRITION AND PLANT DISEASE

Edited by Lawrence E. Datnoff, Wade H. Elmer, and Don M. Huber
Bio-Technology
Epi-Genetics
Environment determines genetic expression
Environment is climate mediated by nutrition
Nutrition is the foundation of yield, quality, and plant immunity.
Results of regenerative farming systems
Regenerate soils while growing a crop
Food as Medicine
Nutrition
Balanced for Health
not ONLY Yield
Sustainability is not enough
We have the knowledge
The challenge?

Where we look for answers.....
Managing Priorities, the key to farming success
The information is there, what will you do with it?