The Small-Scale, Integrated, Self-Sufficient and Sustainable Farm Organism:

- **Solar vs. fossil energy**: Photosynthesis, Photo-voltaic irrigation, Hydronic heating
  - EQIP grant 2005
  - “Solar Irrigation”

- **Self-Sufficiency**: Food, Feed, Nutrient cycling
  - SARE grant 2002
  - “Small-Scale Grain Raising”

- **Local Community**: Educational Programs, Farm-to-School, Community Supported Agriculture
  - SARE grant 2003-4
  - “Farm-to-School”

- **Pastoral vs. Industrial**: Grass-based, Plant-animal succession, Farm-produced inputs
  - SARE grant 2004-7

- **Perennial vs. annual species**: Native plants/wildlife, Naturalized forages, Farm-produced replacements
  - SARE grant 2004-7

- **Local vs. imported fertility**: Composts, Cover crops, BD Soil Sprays
  - SARE grant 2004-7

- **Biological vs. mechanical processes**: Maximum soil organic life, Place-specific immunities, Disease prevention rather than suppression, Run-off pollution control through biological cycling
  - SARE grant 2004-7
  - “Bio-Dynamic Forage Production”

- **Polyculture vs. mono-culture**: Biodiversity, Symbiosis of plants and animals, Self-organization/self-correction/Self-sufficiency
  - SARE grant 2002

- **S&S Center for Sustainable Agriculture and Homestead Farm, Lopez Island, WA**