

# 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"

*Local Community:*  
 On-Farm Fermentation  
 Workshop  
 WSU BIOAg Program  
 grant, 2008



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

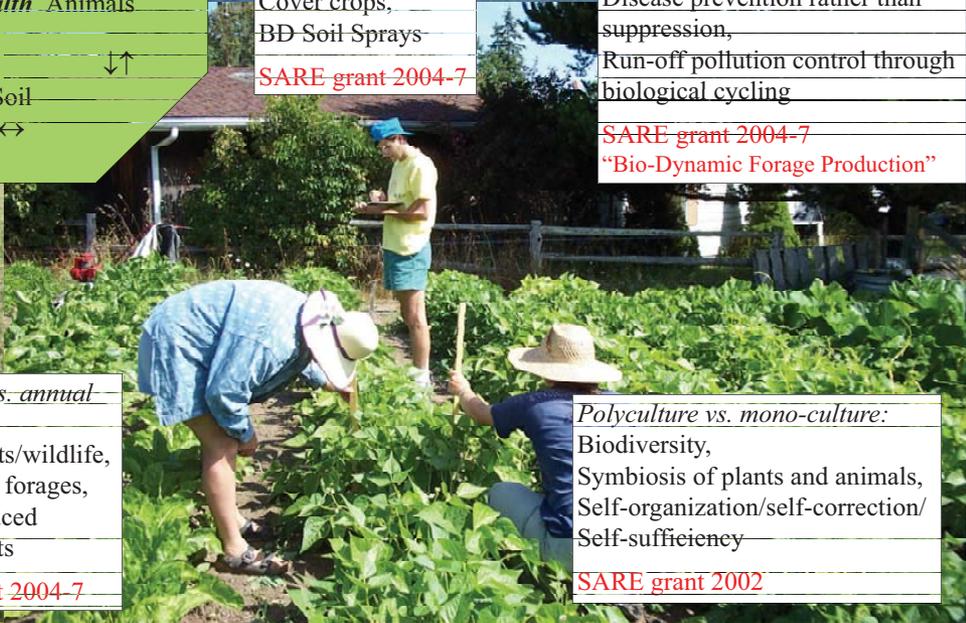
*Biological vs. mechanical  
 processes:*  
 Maximum soil organic life,  
 Place-specific immunities,  
 Disease prevention rather than  
 suppression,  
 Run-off pollution control through  
 biological cycling  
 SARE grant 2004-7  
 "Bio-Dynamic Forage Production"



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

*Local Community:*  
 Short course in  
 Biodynamics  
 WSU BIOAg Program  
 grant 2008-09

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



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