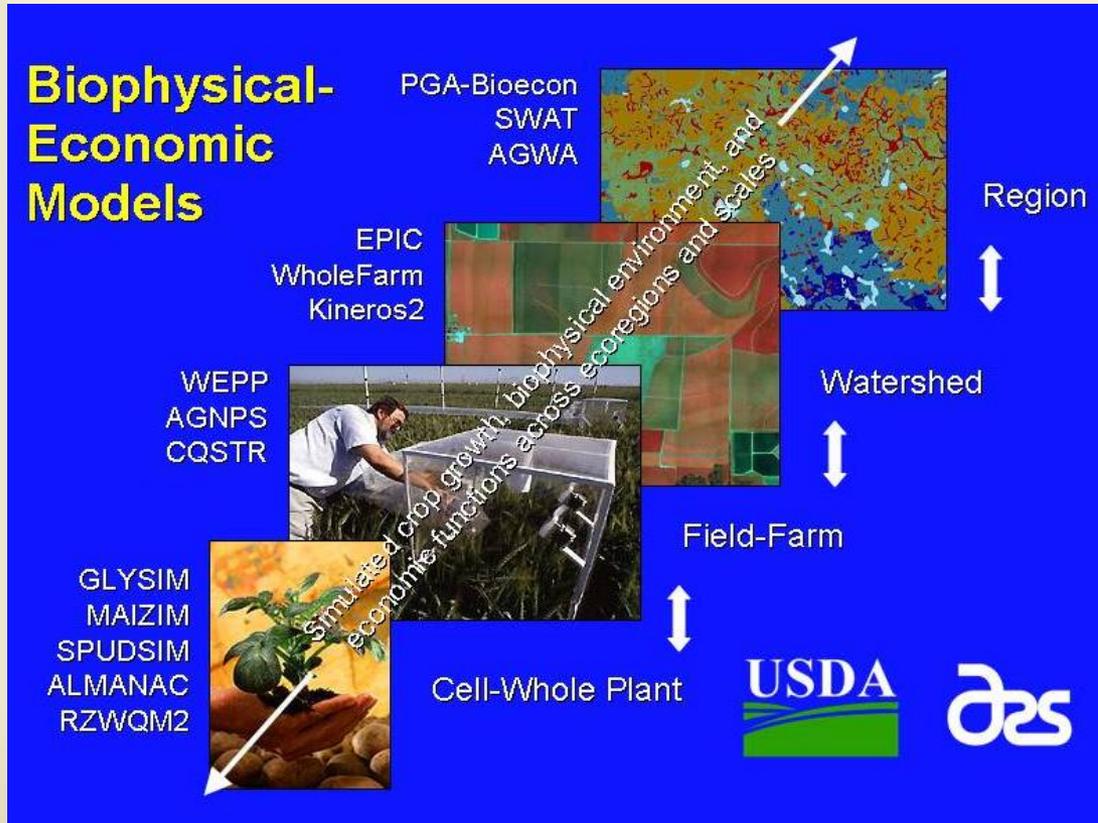


ARS Research Infrastructure



- **Pre-existing research sites**
 - Watersheds, ranges, and (FS) experimental forests
 - Cropping systems (LTARS) sites
 - GRACENet CO₂ flux sites
 - REAP sites
- **Temporal and spatial coverage**
 - Long-term (81 sites > 20 years in ARS and FS)
 - Range of physiographic and ecological contexts
- **Reference material on web**
 - Moran, et al. 2008. Ecohydrology. 1:377-393.
 - ARS Research Infrastructure & Modeling document

ARS Modeling



- **Models and model builders**
 - See USDA (ARS, ERS, and FS) models
 - See ARS Research Infrastructure & Models
- **Modelers**
 - One or more at most long-term sites
 - Knowledgeable about local context
- **Research using models**
 - Substantial published research

ARS Researchers



- **Expertise in**
 - Modeling, Agronomy, Management, Environmental effects, Sustainability indicators, Carbon flux, Climate change, Genetics
- **Knowledge of local and regional issues in national and global context**
- **Problem-oriented, mission-driven**
- **Collaborative agency for cooperative research**