

# Year 2 of BioEarth Economics

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# Year 1

- Last year we decided on a two track economic modeling approach.
  - Track 1: more traditional economic equilibrium model that would be amenable to sequential integration with other models. Downside is that this approach aggregates across space.
  - Track 2: spatially disaggregated model that starts with a more minimal economic basis but can more easily be fully coupled to other modeling components.
- In the last 9 months Jadrian Wooten (RA) worked on developing a static deterministic economic model following Track 1.

# Year 2

- The primary goal for year 2 is to have a fully developed Track 1 economic model fully operational. This will require the following tasks:
  1. Parameterize production function by crop and region in a way that matches “CropSyst”.
  2. Incorporate probabilistic measures of changes in future climate variability to develop a dynamic stochastic model.
  3. Settle on irrigated extent and assumptions that capture the nature of water rights law.
  4. Consider Yong Chen’s current modeling as a basis for Track 2 (seminar in Pullman Spring 2013 possibly).

# My goals for this meeting

- Develop a better understanding of how the climate modeling is capturing changes in variance.
  - Is downscaling approach relevant?
  - Right now I don't know what I don't know.
- Start to have talks about how to parameterize the economic crop production function.
- Possibly settle on the irrigated extent data.