MEETING MINUTES

CNH Lakes – Monthly Video Conference

December 21st, 2018, 2:00 – 3:00 pm EST (1:00 - 2:00 pm CST)

Attendance: all project team members

1. Welcome & items from the team (Kelly & Reilly)
   1. Recording this call for Jen
2. Brief comments on GLEON, AGU, & other conferences (everyone)
   1. Kait, Nicole, Paul, Kak, and Cayelan were at GLEON (in Australia).
      1. Discussions about GLM, lake metabolism, limnology; not as much discussion about broader CNH impacts.
3. Annual report to NSF (Reilly)
   1. Ready to be submitted.
4. Results from linked models (Kelly)
   1. Results presented at AGU
   2. Started with scenarios based loosely based on the CLA State of the Lakes report – reducing nutrient inflows to Lake Mendota by varying percentages
   3. Cycles provides information about yield and leaching
   4. Economic land management model describes changes in land and fertilizer use, and change in profit, according to different scenarios
   5. Have found that the majority of action required is in changing land use; changing fertilizer use does not have a strong impact on leaching here
   6. Cycles appears to overestimate loads during flashy events, but Paul suggests that it may be possible that the USGS model/estimate is actually underestimating
   7. Lakefront property values can account for up to 66% of the costs of fertilizer reduction to agriculture (need to present & interpret this result carefully)
5. Quarterly in-depth objectives check-ins, with slides (everyone)
   1. Cycles – Upcoming objectives include completing the cover crop simulation, and incorporating data on manure applications.
   2. Economic optimization model – Next quarter, will be focusing on SDP-Cycles paper for Mendota (understand how people make decisions in different BMP scenarios); Weizhe’s dissertation chapter based on results of BMP scenarios.
   3. GLM – Optimizing final calibrations for Mendota-Sunapee comparison; Nicole’s baseline Sunapee simulation will also be finishing up soon. Paul is working to get GLM to simulate phosphorus in sediment dynamically.
   4. Hedonic – GLM-hedonic coupling paper for Mendota is in the editing process; now working on the variable selection paper (have preliminary results). Planning to revisit Sunapee model with non-significant results; will get Oneida water quality data. Note – Kristen is joining the team as a master’s student, taking over Sreeya’s work scaling up the hedonic model.
   5. Civic engagement – Have been working to code LSPA & CLA documents, found some preliminary results; analysis will continue to interpret these findings.
   6. Scaling up – Received second round of reviews for connectivity manuscript; recently held first meeting for regional scales manuscript.
   7. Broader impacts – Sunapee Cyano Summit will be held in March 2019 to share information about what is known about blooms, what is the state-of-the-art in controlling blooms, and what research is necessary.
6. Next video conference & upcoming areas to focus on (Kelly & Reilly)
   1. Next call will be in February 2019