Modeling Meeting

Feb 5, 2015

Larry Chase was instrumental to the progress to date.

Al Rotz and Pete Vadas have been running IFSM. DNDC large emissions compared to IFSM in the lagoon, after the digester. IFSM is modeling a slurry of manure rather than a lagoon, so not complete de-nitrification.

Ying asked which model is the one that should be used. What is the purpose of comparing the models. Olivier said we need to identify where there are differences and why. Ying asked if Olivier has been checking in with the measurement team? Matt says Becky has been collecting the data for the digesters. We will do integration with the measurement team at the March meeting.

We need to take account for the fact that lagoons leak.

NO3 nitrate leaching rates are very different from IFSM. Depends on soil conditions.

Curtis will resubmit the soil characteristics, different rotations and weather; Changsheng will redo based on different rotations. Daycent needs to finish the N2O. N fixation is a rate; too variable to use one number.

Need to do another re-run of four different cases, not all the fields, with the different crop rotations. Aim for Feb. 20th. Recalculate the graph and start the outline.