RE: APSIM simulation template

1 message

Archontoulis, Sotirios [AGRON] <sarchont@iastate.edu>   Mon, Nov 20, 2017 at 10:07 AM
To: "Dokoohaki, Hamze [AGRON]" <hamzed@iastate.edu>, "Miguez, Fernando E [AGRON]" <femiguez@iastate.edu>

Hamze

You template is fine.

For the management I will go for a 110 maturity instead of 105, row spacing of 76 cm is okay. For the N rate just follow the MRTN recommendation.

I do not understand the reset nitrogen and SOM, it should be a continuous sim, no reset.

On the biochar, a MRT2 of 2 years is very low, this is the recalcitrant pool, usually this values is >15 yr, check the GCB-B publication for the range.

The dul_qual and bd_qual are okay, but go to the script and change the intercept from 1.3 to 2.3 on both equations. This is a calibrated average value from Debbie's study. I added this change to the model recently and I am currently working on more calibration stuff.

NH4_des: add one extra zero there, just keep these values (ads and desorption) the same, no data to validate this and this is also soil specific.

Sotirios

From: Hamze Dokoohaki [mailto:hamzed@iastate.edu]
Sent: Friday, November 17, 2017 11:51 AM
To: Archontoulis, Sotirios [AGRON] <sarchont@iastate.edu>; Miguez, Fernando E [AGRON] <femiguez@iastate.edu>
Subject: APSIM simulation template

Hi Sotirios,

I'm sharing with you one the APSIM templates I have made for my simulations. Would you please take a look at it and let me know if you have any comment or edits. I would actually care more about the crop management (cultivar and

planting situation like row_spacing stuff for the east Iowa) and biochar module related stuff like tillage properties and so on.

Thank you so much

Hamze,

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