NC Interagency Nutrient Management Committee   **September 19, 2013**

Attendees: David Hardy, Colleen Hudack-Wise, Keith Larick, Deanna Osmond, Joseph Hudyncia, Jot Smyth, Natalie Woolard
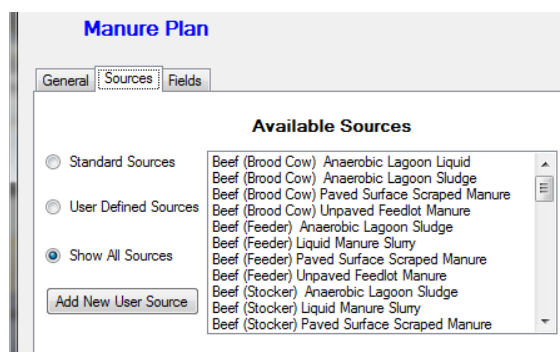
Nutrient Management Software

Committee reviewed the new version of the nutrient management software.   It was decided to move forward without trying to add old tables to the software. With documentation of grandfather rates those exceptions can still be used. Keith offered to run a comparison of a couple of farms that may be in the situation of grandfathered rates.

In addition to the attached report that was submitted to the programmer the following questions were to be followed up on:

- SMU Table for Leaching Index so that it is not user defined. Natalie will check Dana if we can get this information. Is the temperature cut off a standard for each county? Can this be done so that we can standardize?
- Slope defaults to midpoint of SMU – still can be user defined.
- Make sure all 1217/INMC crops are included in appropriate tables

Nutrient Management Software Punch List

- NRCS may still have issues with Administrative privileges. Federal computers (and now County computers) have stringent IT Security measures in place. Updates to installed software will present challenges.
    - Can we get around this issue through location of the files? C: Nutrient Management vs. C:Program Files/Nutrient Management? Where is the best location for files on a user's computer that will not require special folder permissions? How do we avoid the current case-by-case assignment of folder permissions that depends on the mood and workload of the local IT person?
- Need New table for Available Sources – based on changes through INMC. Changes in content not programming.

- Add column in SMU Table for Leaching Index so that it is not user defined. This would change data content and add auto-population of dialog box data field (LI).

View of Current MUSYM Table in NCANAT: (just add a field for LI?)

mukey	lkey	AreaName	musym	muname
111151	10974	Alamance	AaB	Alamance silt loam, 2 to 6 percent slopes (Callison)
111152	10974	Alamance	AbB	Appling coarse sandy loam, 2 to 6 percent slopes
111153	10974	Alamance	AbB2	Appling coarse sandy loam, 2 to 6 percent slopes, eroded
111154	10974	Alamance	AbC	Appling coarse sandy loam, 6 to 10 percent slopes

SMG	Percent_Clay	DrainageFlag	P_Threshold	Tp_minus_12	T30_over_Tp	WV_Factor	Surf_SolPEqNo	Subsoil_SolPEqNo	SubsoilSample	FePFactor	ETSoilGrp
106	12		500	0.405	0.287	1.2	5	4	N	0.25	C
111	12.5	0	500	0.867	0.374	1.2	5	4	N	0.65	B
111	12.5	0	500	0.867	0.374	1.2	5	4	N	0.65	B
111	12.5	0	500	0.867	0.374	1.2	5	4	N	0.65	B
111	12.5	0	500	0.867	0.374	1.2	5	4	N	0.65	B

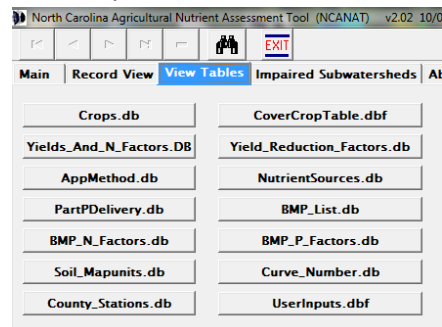- New Field - Waste Irrigation Properties are not being populated. They need to be connecting to SMU.

- Need a simple error message stating that there is missing information before proceeding…..(e.g. Manure Plan -add new field without irrigation data).
- Print and Print Preview Function
- Select a plan function
- Missing Recommendation and Reports on Manure Plan. Fertilizer only plan appears to have reports. Poultry Litter Plan has some reports, some incorrect (see below).
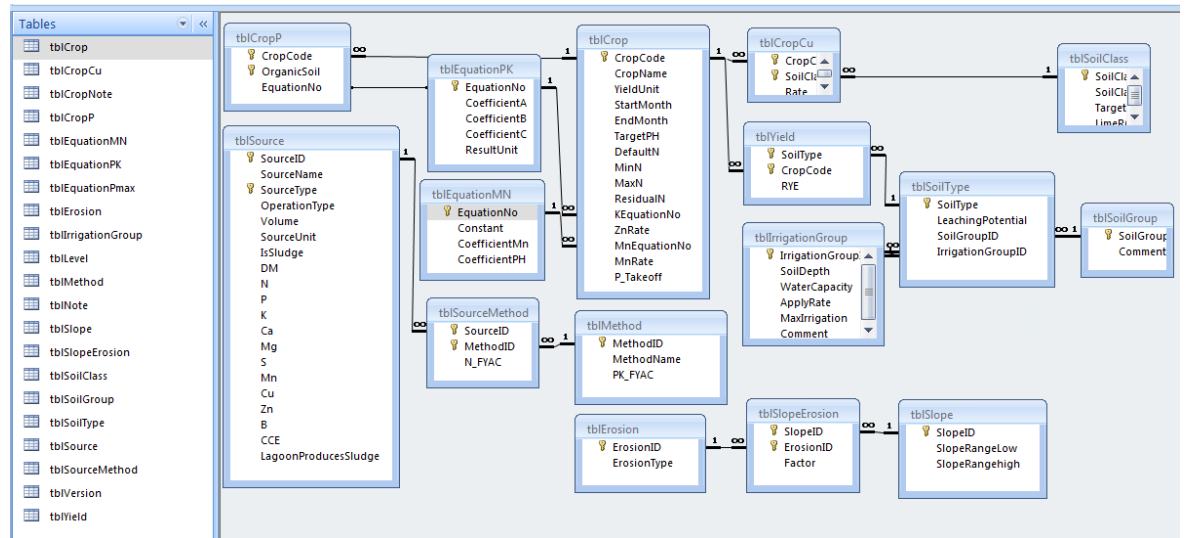
Data Tables

Make sure PLAT, NLEW and Nutrient Management are pulling from the same data tables. These are:

List of file/table names:

Currently in PLAT:

Currently in Nutrient Management:

Soil Sample Dialog Screen – see notes table below.

Currently is:	Change to:	Additional Notes
Sample #	Sample ID	Same nomenclature should be used from soils lab
Not included	Add Sample Report Number	
Cu-I	Needs to be added	Not always bringing in this factor from the soils report.
Soils Class	Needs to be added	Not always bringing in this factor from

		the soils report.
Acid	Change to Ac	
BS	Change to BS%	
Ca	Change to Ca%	
Mg	Change to Mg%	
Not included	Import name and contact information from soils report (Name, address)	This may be different than owner/manager or farm name already provided in the plan. Just used as reference to make sure planner has correct soils data.
Not included	Import weight/volume ratio from soils report. List it as W/V	This information will is also needed in the PLAT portion of the software.
Not Included	Import sodium rates from soils report. List as Na	
Not Included	Import sulfur rates from soils report. List as S-I	
Import function		Determine what this does and if needed. We believe it is a remnant from previous draft versions from software and can be deleted.
Save		Check save function. It isn't always saving the soils information after import.
Applied Lime	Delete entire box and import recommendation from soil test report – see notes first.	Double check and see how this is being used elsewhere in the software prior to changing.

PLAT Screen - Overall it seems to be working properly. Several suggestions to improve and streamline (below).

Currently is:	Change to:	Additional Notes
Soil Test (P-Index, Mehlich 3P)		This information should be importing the data from soils report
Weight/Volume	Remove the word "optional"	This information should be importing the data from soils report.
Save		Make sure the saved sessions can be brought back up in the "session box"
Results		Should automatically populate results (low, medium, and high) back to the Manure Plan (Field tab)

NLEW Screen
- Make sure that the correct factors are being used for the BMP calculations.

Buffer Width (feet)	% N Reduction Credit
20	20
30	25

50	30
100+	35

Crop Rotation Screen

Add the header "Application Windows" above Start Date and End Date.

Crops/Rotation Column – cannot see the crops selected; unless open new screen (view crops)

Is there are way to expand the width of the column and see at least a portion of each crop. Similar to the Manure Plan below. Current display of selected crops is confusing, not

The crop tab is not listed in a manure plan. User would choose the crops in a different method than in fertilizer and poultry plans. Need to make sure the same process and screens are being used for each plan type. See the Manure Plan below.

These have always been dealt with differently and the resulting Plans look very different. Can it be standardized or do they need to be different? (Fertilizer & Litter Plans are more of a reference list, whereas Manure Plans are a rotation & year-by-year Waste Utilization Plan).

Natalie and Joe will provide an updated table with all crops referenced by the INMC included.

Edit Sources

On fields tab change edit nutrients to Edit Sources. Have the program go to Edit Sources dialog box first, then Edit Nutrients; currently it is working the opposite.

Currently is:	Change to:
Application Period	Application Window
Application Percentage - enter on keyboard works; tab to next box total calculates	Process is not intuitive total these information. Add an Apply button.
Can total more than 100%	Establish an error message for any totals over 100%
Remove Apply Even Spread button and formula	Change to the apply button as mentioned above.
Currently from Field tab it goes to Edit Nutrients screen then Edit Sources screen	Change order to Edit Sources screen then Edit Nutrients screen. Make sure applicable buttons are moved.
Amount of source	Change to nutrient/lb

Edit Sources

Make sure source name is listed in the Edit Nutrient table. Not just Source 1 and Source 2.

Source 1 auto-fills; two sources will not auto-fill but should. Default to equally partition Nitrogen among number of sources input?

Reports (Poultry Litter)

Report preview appears skewed. Should look more 'normal'. Printout needs to be 'dressed-up' to look more modern. Sources in Plan section is incorrect, appears to be Crop Nutrient section. Crop Nutrient section is blank.

Is there a new Job Sheet with the New 590 Standard?

Crop Notes should be fixed to address redundancy, i.e. notes are repeated for each crop field combination.

Selecting an existing Plan should be more straightforward. 'Load Plan' vs. 'Select a Plan'?