

Module 4

Create a Poultry Litter Plan



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1) Introduction: Nutrient Management Software version 4.0.0

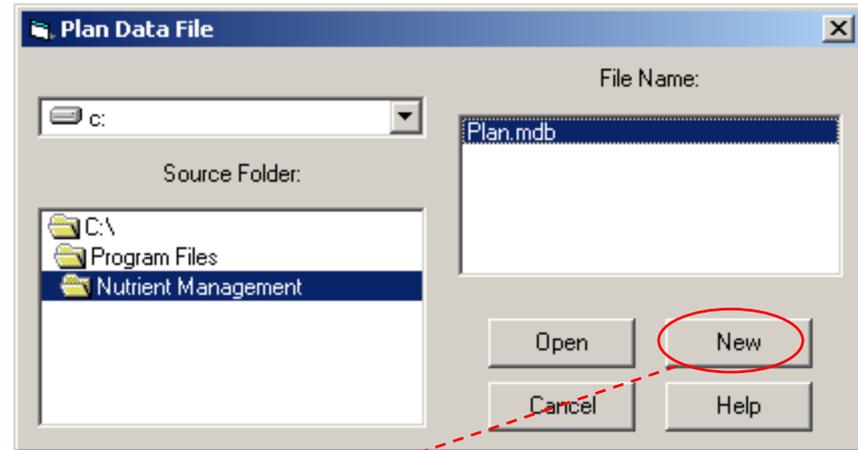
- Poultry Litter Plan is a separate plan type.
- Poultry Litter and Fertilizer-only plans are similar.
- Information needed includes: litter type, number of birds, fields, soil samples & crops list.
- High PLAT fields will require specific crop/rotation information and waste application planning based on P-removal rates.
- Tools are included for managing manure applications on High PLAT fields.
- Year 1 crops are specified under Recommendations to estimate a Year 1 nutrient budget summarized on the Sources in Plan page.
- Forms for generating Annual Application Plans can be printed from the program and completed by hand, used within the program, or used as a stand-alone Excel worksheet by the developer or producer.
- Use farm waste analysis and information from the Plan to generate an Annual Application Plan.

2) Create A New Plan

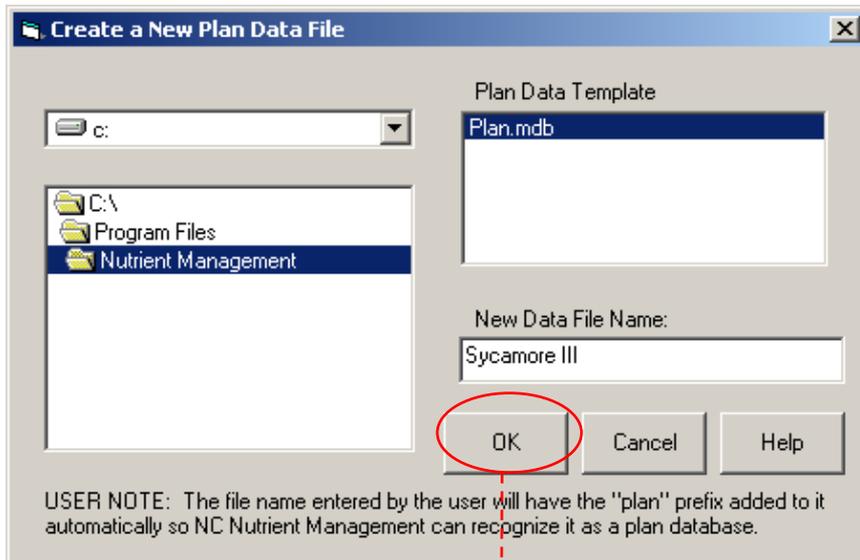


Double-click the **Nutrient Management icon**.

New Plan Data File



Verify the file path C:ProgramFiles/Nutrient Management and click the **'New'** button.



Select the appropriate **Plan Data Template**, and then name the file under **'New Data File Name'**.

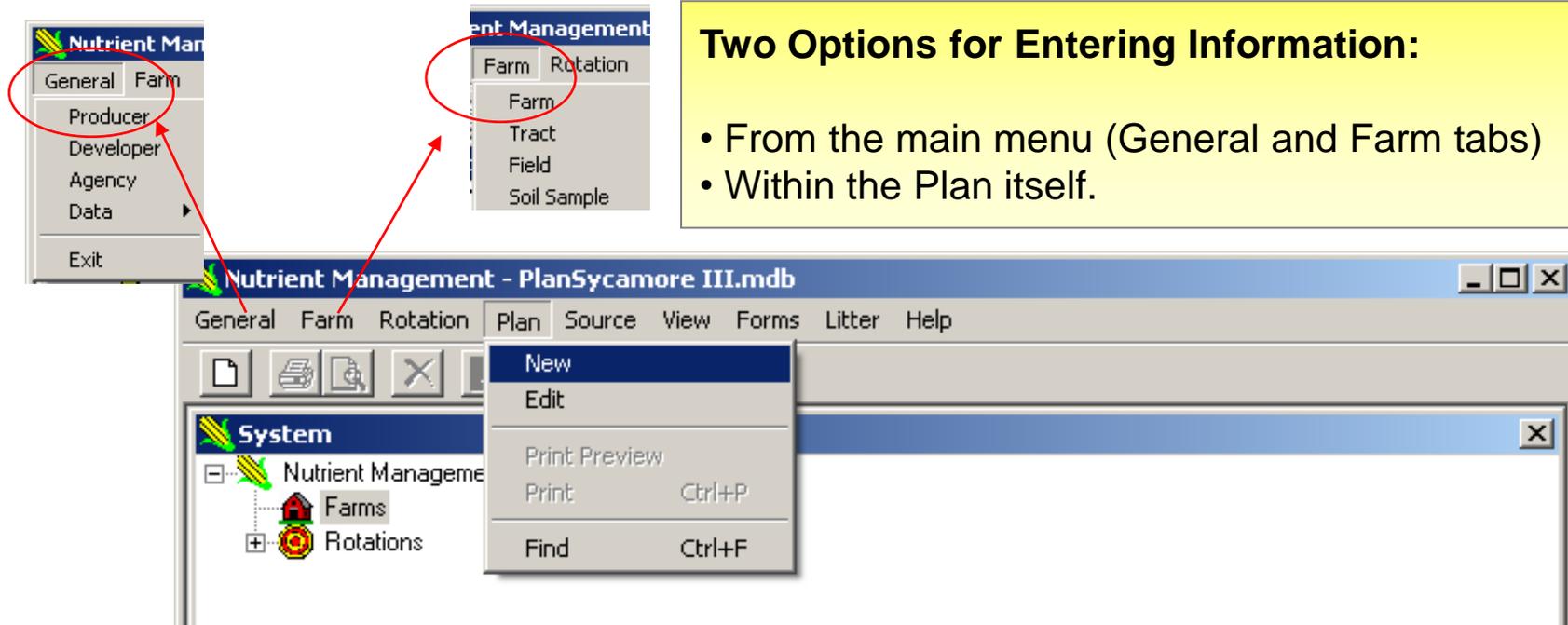
Click **'OK'** and the **Main Program Screen** will appear.

3) Create A New Plan

Main Program Screen

Two Options for Entering Information:

- From the main menu (General and Farm tabs)
- Within the Plan itself.



Option 1: In the Plan Data File (e.g. Sycamore III) main screen enter the **Producer, Developer, Agency, Farm, Tract, Field** and **Soil Sample** information. (Your **Agency** and **Developer** information will have copied from your prepared Template, otherwise add that information as well.) Then select **Plan>New** to create a new plan.

Option 2: Select **Plan>New** to create a new plan, then enter the **Producer, Developer, Agency, Farm, Tract, Field** and **Soil Sample** information directly within the new plan using the appropriate tabs.

4) Create A New Plan

Nutrient Management Plan Option

Plan Name: Sycamore III

Plan Type

N Only

Nutrient Management

Poultry Litter

Plan Option

Manure Only

Fertilizer Only

Both Manure and Fertilizer

OK

Cancel

Help

Choose Plan Type

Select the **Plan Type Poultry Litter** and click **'OK'**.

*This is a Poultry Litter Nutrient Management Plan type and you do not need to select a Plan Option.

A poultry litter plan is now its own plan type. The format for the poultry litter plan is based on the poultry litter plan format developed by the 1217 Interagency Guidance committee for NPDES facilities.

However, it is **intended to be appropriate for any Poultry Litter Nutrient Management plan.**

The format is similar to the fertilizer-only plan format. It is now more general and is designed to provide more flexibility to the producer.

4) Main Screen: Poultry Litter Nutrient Management Plan

Nutrient Management Plan - Poultry Litter Nutrient Management - Litter

General Sources Crops Fields Recommendations Narrative

Plan Name: Litter [New Plan]

Date
Created:
Modified:

Developer
Name: [Edit Developer]
Agency: [Edit Agency]
Address:
City:
State:
Zip Code:
Phone:

Farm
Name: [Edit Farm]
Producer: [Edit Producer]
Address:
City:
State:
Zip Code:
Phone:

Once the Plan is complete you can print preview and print here.

Print Print Preview OK Cancel Apply Help

5) Options within the 'General Tab'

Nutrient Management Plan - Poultry Litter Nutrient Management - Sycamore III

General Sources Crops Fields Recommendations Narrative

Plan Name: Sycamore III [New Plan]

Date
Created: 4/21/2005 11:41:26 AM
Modified: 3/13/2009 2:46:40 PM

Developer: Paul Planner [Edit Developer] 1 2
Agency: NRCS [Edit Agency] 3
Address: 208 West Chestnut Street
City: Goldsboro
State: NC (North Carolina)
Zip Code: 27530
Phone: (919) 734-5281

Farm: Sycamore Farm [Edit Farm] 4 5
Producer: Farmer, Mary K. [Edit Producer] 6
Address: 345 Sycamore Lane
City: Goldsboro
State: NC (North Carolina)
Zip Code: 23456
Phone: (919) 555-1212

To view a different plan for the current farm, select the **Plan Name** here. To view plans for a different farm, first select the **Farm Name** from the list and then select the desired **Plan Name**.

Developer Properties

Developer List: New
Developer:
Agency: SWCD
[New] [Update] [OK] [Help]

1) Select a **Developer Name** from the drop down box. Use the 2) **Edit Developer** and 3) **Edit Agency** buttons to make changes to an existing entry or add an entry.

Similarly, 4) Select a **Farm Name** from the drop down box. Use 5) **Edit Farm** to edit or add a farm and use 6) **Edit Producer** to edit or add producer information associated with a farm.

Farm Properties

Farm Name:
Farm Type:
Producer Name:
[Add] [Edit] [OK] [Help]

Producer Properties

Producer: Farmer, Mary K.
Last Name: Farmer
Middle Name: K.
First Name: Mary
Address: 345 Sycamore Lane [Add]
City: Goldsboro [Edit]
State: NC (North Carolina) [OK]
Zip Code: 23456
Phone: (919) 555-1212 [Help]

Agency Properties

Agency: NCDENR
Address: 585 Waughtown St. [Add]
City: Winston-Salem [Edit]
State: NC (North Carolina) [OK]
Zip Code: 27107
Phone: (336)771-5053 [Help]

6) Nutrient Sources

Identify Available Waste Sources

Nutrient Management Plan - Poultry Litter Nutrient Management - Sycamore III

General Sources Crops Fields Recommendations Narrative

Standard Source List: [Dropdown Arrow]

User Defined Source List: [Dropdown Arrow]

New Remove Source

Source Name
Beef (Stocker) Paved Surface Scraped Manure
Beef (Stocker) Unpaved Feedlot Manure
Broiler Breeder House Whole Litter
Broiler House Manure Cake
Broiler House Stockpiled Litter
Broiler House Whole Litter
Broiler Roaster House Whole Litter
Dairy (Calf) Lagoon Liquid

Nutrient Management Plan - Poultry Litter Nutrient Management - Sycamore III

General Sources Crops Fields Recommendations Narrative

Standard Source List: [Dropdown Arrow]

User Defined Source List: [Dropdown Arrow]

New Remove Source

Source Name	Source Type	Animal Numbers	Application Method
Broiler House Whole Litter	Standard	100000	Broadcast

You may also select a default **Application Method** for each source. (You will have the option to change the method for each field later.)

To remove an identified source, click on the source name and then click the **Remove Source** button.

Select available nutrient sources from the **Standard Source List** by clicking the down-arrow to the right of the list. [If information on User Defined Sources has been entered for the farm, sources may also be selected from that list.]

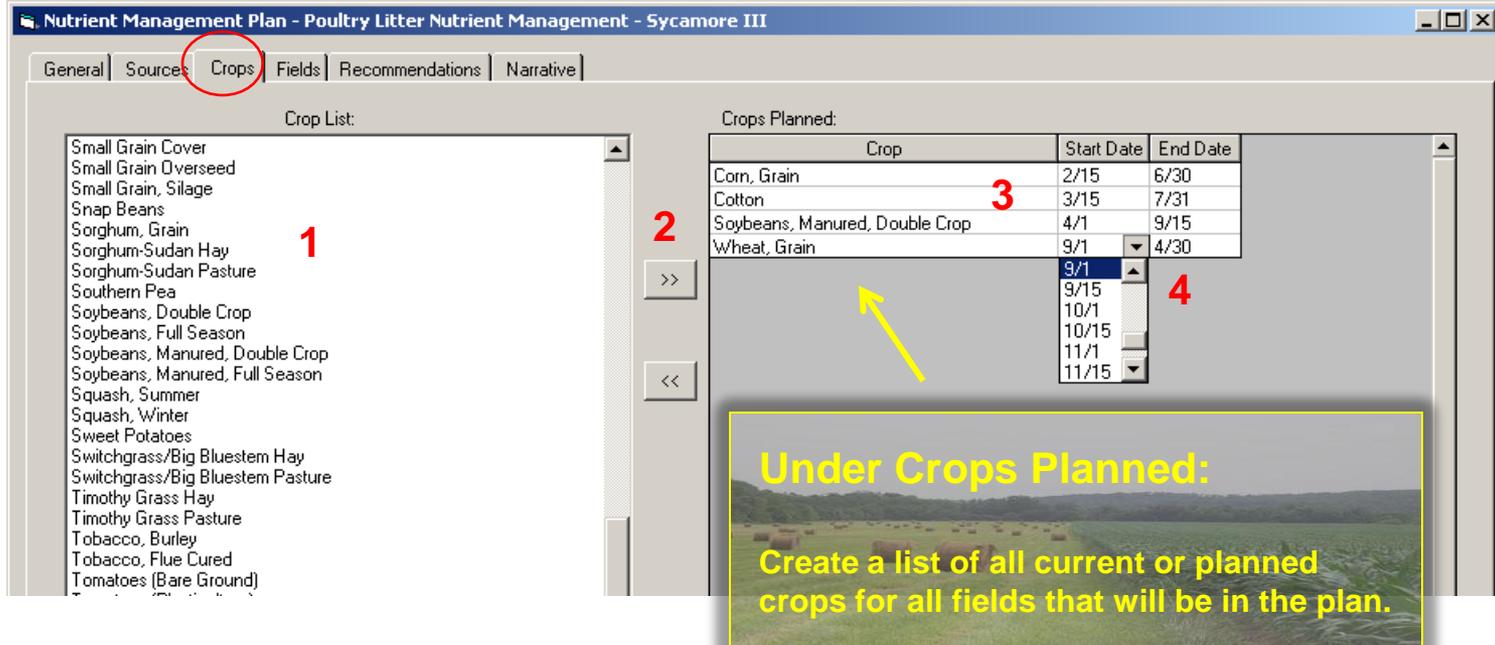
Once all sources have been identified, the design capacity of each facility must be entered in the column entitled **Animal Numbers**.

Reference Information:
NRCS CPS Code 633 –
Waste Utilization. See
associated livestock
data tables.

7) Crops: Identify Crops to be Included in Plan

Identify all crops to be included in the plan:

- 1) Select the name of the crop in the **Crop List** and
- 2) Click the >> button.
- 3) It will then appear on the **Crops Planned** list. To remove a crop from the list, click on the name of the crop and click the << button.
- 4) To change the **Start/End Date** for manure applications, click on a cell in the **Crops Planned** list and select the desired date from the drop down list.



Nutrient Management Plan - Poultry Litter Nutrient Management - Sycamore III

General Sources **Crops** Fields Recommendations Narrative

Crop List:

- Small Grain Cover
- Small Grain Overseed
- Small Grain, Silage
- Snap Beans
- Sorghum, Grain **1**
- Sorghum-Sudan Hay
- Sorghum-Sudan Pasture
- Southern Pea
- Soybeans, Double Crop
- Soybeans, Full Season
- Soybeans, Manured, Double Crop
- Soybeans, Manured, Full Season
- Squash, Summer
- Squash, Winter
- Sweet Potatoes
- Switchgrass/Big Bluestem Hay
- Switchgrass/Big Bluestem Pasture
- Timothy Grass Hay
- Timothy Grass Pasture
- Tobacco, Burley
- Tobacco, Flue Cured
- Tomatoes (Bare Ground)

Crops Planned:

Crop	Start Date	End Date
Corn, Grain	2/15	6/30
Cotton	3/15	7/31
Soybeans, Manured, Double Crop 3	4/1	9/15
Wheat, Grain	9/1	4/30

9/1
9/15
10/1
10/15
11/1
11/15

Under Crops Planned:
Create a list of all current or planned crops for all fields that will be in the plan.

8) Identify Fields to be Included in the Plan

Nutrient Management Plan - Poultry Litter Nutrient Management - Sycamore III

General Sources Crops **Fields** Recommendations Narrative

Copy Field Delete Field Soil Sample

Single Crop

Rotation New

Tract ID	Field ID	County	Total Acres	Useable Acres	Soil Type	Slope	Soil Sample	LI	PLAT Rating	Crop/Rotation
9876	1	Wayne	12.3	12.3	Goldsboro	0 - 2	10574 BC1	2.3	High	Wheat/Soybeans/Corn
9876	2	Wayne	9.7	9.7	Norfolk	0 - 2	10574 LAG01	3.2	Unknown	
9876	3	Wayne	3.1	3.1	Altavista-CP	0 - 2	10574 JWAE	2.7	Unknown	

An empty row will be added to the end of the list when the necessary information has been provided for the current field row.

Tract and field information previously entered from the main screen will appear in a list on this page. You may also enter the information into the plan directly in this screen.

Some cells accept information directly (tract, field, acres and LI), while the others contain drop-down selection boxes.

8) Identify Fields to be Included in the Plan

Nutrient Management Plan - Poultry Litter Nutrient Management - Sycamore III

General Sources Crops Fields Recommendations Narrative

Copy Field Delete Field Soil Sample

Single Crop [Dropdown]

Rotation [Dropdown] New

Tract ID	Field ID	County	Total Acres	Useable Acres	Soil Type	Slope	Soil Sample	LI	PLAT Rating	Crop/Rotation
9876	1	Wayne	12.3	12.3	Goldsboro	0 - 2	10574 BC1	2.3	High	Wheat/Soybeans/Corn
9876	2	Wayne	9.7	9.7	Norfolk	0 - 2	10574 LAG01	3.2	Unknown	
9876	3	Wayne	3.1	3.1	Altavista-CP	0 - 2	10574 JWAE	2.7	Unknown	

- Click the **Copy Field** button to copy information from the current field to the bottom of the list.
- Click the **Delete Field** button to delete the current field row from the list.
- Select a field and click **Soil Sample** to add a sample for that field.

You must specify the crop or rotation that will be grown on fields with a **High PLAT** rating.

The **Crop/Rotation** selection box will appear when you click the row of the High PLAT field. Highlight the Crop/Rotation box for the field and then choose the appropriate crop or rotation from the drop-down menus next to **Single Crop** or **Rotation** above.

NOTE: Data for a field may not be saved if the information provided for that field is not complete.

9) View/Modify Nutrient Recommendations for Crops in the Plan

This screen shows the nutrient recommendations for each crop on each field in the plan.

- Select the **Source Name** that will be applied to each field and crop
- Select the appropriate **Application Method**, and
- Specify the desired quantity of nutrients (**Source N lbs/acre**) to apply

Nutrient Management Plan - Poultry Litter Nutrient Management - Sycamore III

General Sources Crops Fields **Recommendations** Narrative

Delete Crop Restore Crops

To designate crops to be grown in the first plan year, check the box under the "Year 1 Crop" column.

Tract ID	Field ID	Soil Type	Crop	RYE	Units	N Factor	N Per Acre	Source Name	Applic. Method	Source N lbs/acre	Source tons/acre	Year 1 Crop
9876	1	Goldsboro	Corn, Grain	130	Bu.	1.14	148	Broiler House Whole Broad.	Whole Broad.	148	4.47	<input checked="" type="checkbox"/>
9876	1	Goldsboro	Cotton	925	lbs.	0.089	82	Broiler House Whole Litte	Broad.	82	2.48	<input type="checkbox"/>
9876	1	Goldsboro	Soybeans, Manured, Double Crop	38	Bu.	3.91	149	Broiler House Whole Litte	Broad.	149	4.5	<input type="checkbox"/>
9876	1	Goldsboro	Wheat, Grain	65	Bu.	2.09	136	Broiler House Whole Litte	Broad.	136	4.11	<input checked="" type="checkbox"/>
9876	2	Norfolk	Corn, Grain	115	Bu.	1.14	131	Broiler House Whole Broad.	Whole Broad.	131	3.96	<input type="checkbox"/>
9876	2	Norfolk	Cotton	875	lbs.	0.089	78	Broiler House Whole Litte	Broad.	78	2.36	<input checked="" type="checkbox"/>
9876	2	Norfolk	Soybeans, Manured, Double Crop	35	Bu.	3.91	137	Broiler House Whole Litte	Broad.	137	4.14	<input type="checkbox"/>
9876	2	Norfolk	Wheat, Grain	60	Bu.	2.09	125	Broiler House Whole Litte	Broad.	125	3.77	<input type="checkbox"/>
9876	3	Altavista-CP	Corn, Grain	130	Bu.	1.14	148	Broiler House Whole Broad.	Whole Broad.	148	4.47	<input type="checkbox"/>
9876	3	Altavista-CP	Cotton	850	lbs.	0.089	76	Broiler House Whole Litte	Broad.	76	2.29	<input type="checkbox"/>
9876	3	Altavista-CP	Soybeans, Manured, Double Crop	38	Bu.	3.91	149	Broiler House Whole Litte	Broad.	149	4.5	<input checked="" type="checkbox"/>
9876	3	Altavista-CP	Wheat, Grain	60	Bu.	2.09	125	Broiler House Whole Litte	Broad.	125	3.77	<input type="checkbox"/>

To change the RYE, N Factor, Nitrogen or *P₂O₅ recommendations, click on the appropriate cell and type in the desired information.

9) View/Modify Nutrient Recommendations for Crops in the Plan

Nutrient Management Plan - Poultry Litter Nutrient Management - Sycamore III												
General		Sources		Crops		Fields		Recommendations		Narrative		
Delete Crop			Restore Crops									
Tract ID	Field ID	Soil Type	Crop	RYE	Units	N Factor	N Per Acre	Source Name	Applic. Method	Source N lbs/acre	Source tons/acre	Year 1 Crop
9876	1	Goldsboro	Corn, Grain	130	Bu.	1.14	148	Broiler House Whole Broad.		148	4.47	<input checked="" type="checkbox"/>
9876	1	Goldsboro	Cotton	925	lbs.	0.089	82	Broiler House Whole Litter Broad.		82	2.48	<input type="checkbox"/>
9876	1	Goldsboro	Soybeans, Manured, Double Crop	38	Bu.	3.91	149	Broiler House Whole Litter Broad.		149	4.5	<input type="checkbox"/>
9876	1	Goldsboro	Wheat, Grain	65	Bu.	2.09	136	Broiler House Whole Litter Broad.		136	4.11	<input checked="" type="checkbox"/>
9876	2	Norfolk	Corn, Grain	115	Bu.	1.14	131	Broiler House Whole Broad.		131	3.96	<input type="checkbox"/>
9876	2	Norfolk	Cotton	875	lbs.	0.089	78	Broiler House Whole Litter Broad.		78	2.36	<input checked="" type="checkbox"/>
9876	2	Norfolk	Soybeans, Manured, Double Crop	35	Bu.	3.91	137	Broiler House Whole Litter Broad.		137	4.14	<input type="checkbox"/>
9876	2	Norfolk	Wheat, Grain	60	Bu.	2.09	125	Broiler House Whole Litter Broad.		125	3.77	<input type="checkbox"/>
9876	3	Altavista-CP	Corn, Grain	130	Bu.	1.14	148	Broiler House Whole Broad.		148	4.47	<input type="checkbox"/>
9876	3	Altavista-CP	Cotton	850	lbs.	0.089	76	Broiler House Whole Litter Broad.		76	2.29	<input type="checkbox"/>
9876	3	Altavista-CP	Soybeans, Manured, Double Crop	38	Bu.	3.91	149	Broiler House Whole Litter Broad.		149	4.5	<input checked="" type="checkbox"/>
9876	3	Altavista-CP	Wheat, Grain	60	Bu.	2.09	125	Broiler House Whole Litter Broad.		125	3.77	<input type="checkbox"/>

If a crop is not going to be grown in a particular field, click on the row of the crop that is not needed and click the **Delete Crop** button. To restore all deleted crops back to the Recommendations table, click the **Restore Crops** button.

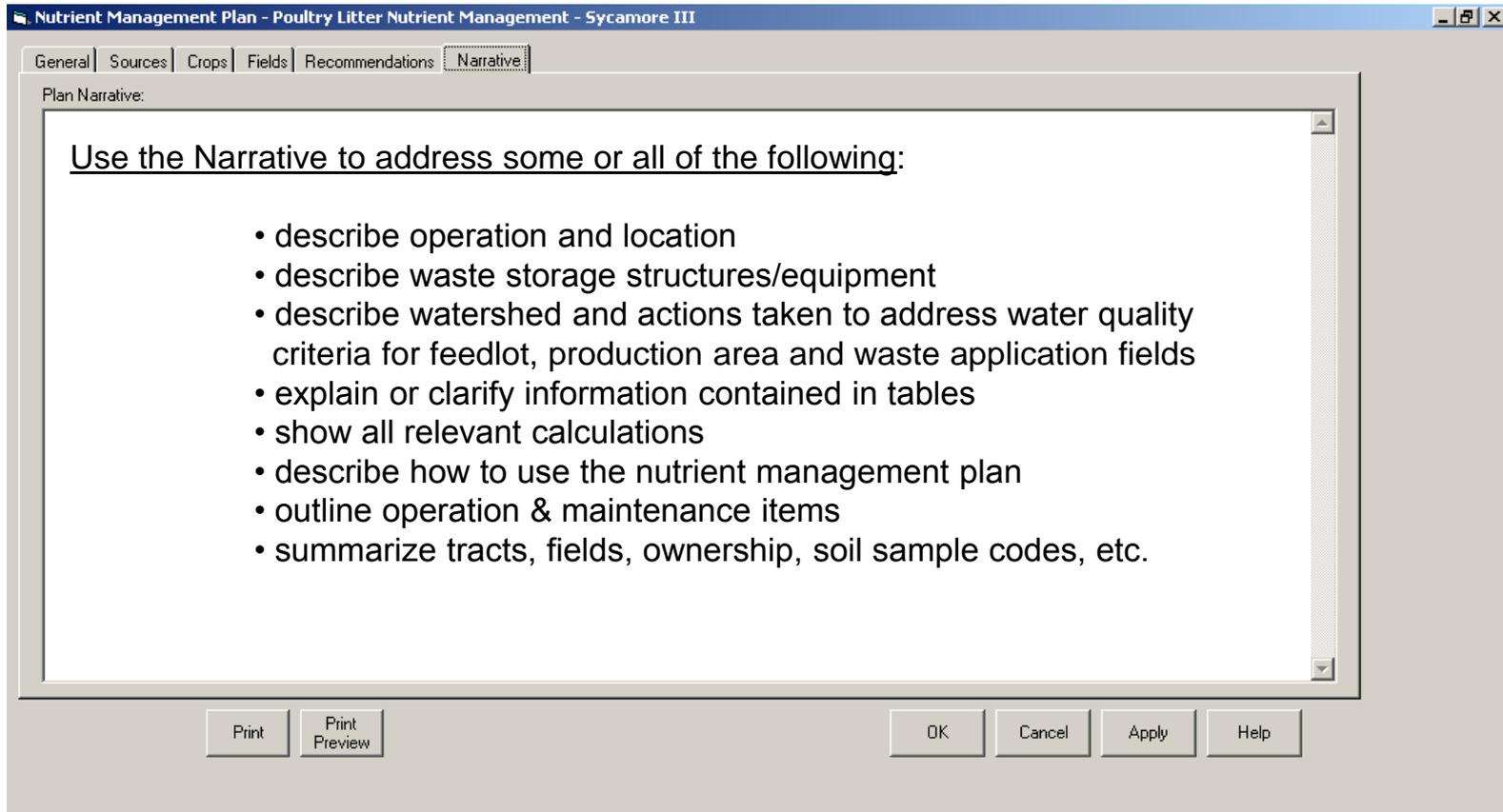
PLAT ASSESSMENT:

Fields with a medium or low PLAT rating use application rates determined on the basis of N requirements.

Application rates for fields with a High PLAT rating are determined on the basis of crop P-removal rates.

10) Narrative Tab

The **Narrative Tab** offers a screen to write or paste a narrative to be included with the plan.



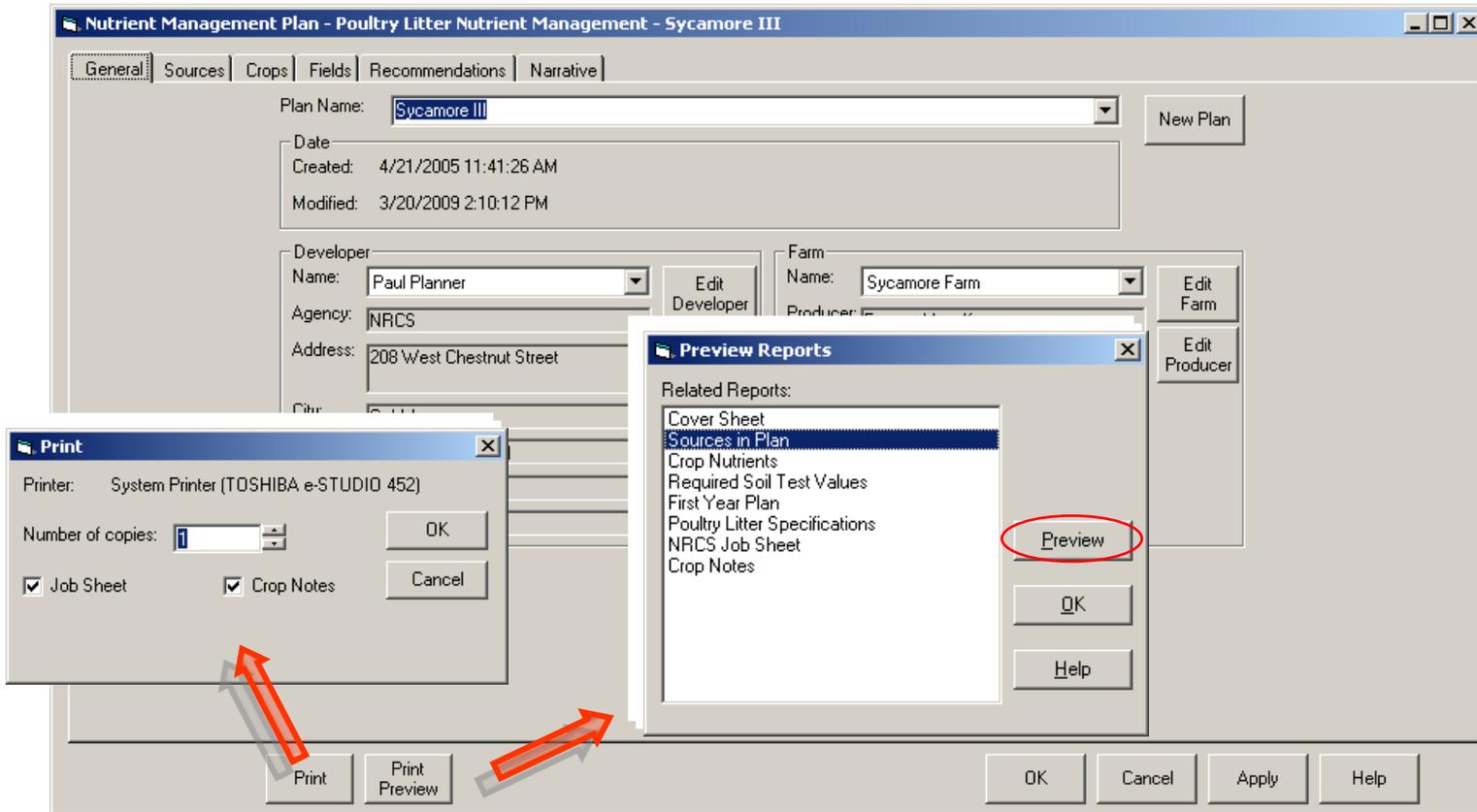
The screenshot shows a software window titled "Nutrient Management Plan - Poultry Litter Nutrient Management - Sycamore III". The window has a menu bar with "General", "Sources", "Crops", "Fields", "Recommendations", and "Narrative" (which is currently selected). Below the menu bar, there is a label "Plan Narrative:" followed by a large text area. The text area contains the following text:

Use the Narrative to address some or all of the following:

- describe operation and location
- describe waste storage structures/equipment
- describe watershed and actions taken to address water quality criteria for feedlot, production area and waste application fields
- explain or clarify information contained in tables
- show all relevant calculations
- describe how to use the nutrient management plan
- outline operation & maintenance items
- summarize tracts, fields, ownership, soil sample codes, etc.

At the bottom of the window, there are several buttons: "Print", "Print Preview", "OK", "Cancel", "Apply", and "Help".

11) Print Preview



The **Print Preview** button allows you to preview (and print) eight different sections of your Poultry Litter Plan. Highlight the desired section and click the **Preview** button.

You may also print the entire plan all at once by selecting the **Print** button and clicking **OK**. Notice the option to print with or without the Job Sheet and Crop Notes.

12) Print Plan Sections

Select a Plan in the System Window and click the printer icon on the toolbar to print a Plan Report

Under the Forms menu print the **Emergency Action Plan, Checklists, Record Keeping** and **Litter Application** forms.

Right-click on a Plan to Preview or Print from the System Window. Print using **Output Report**.

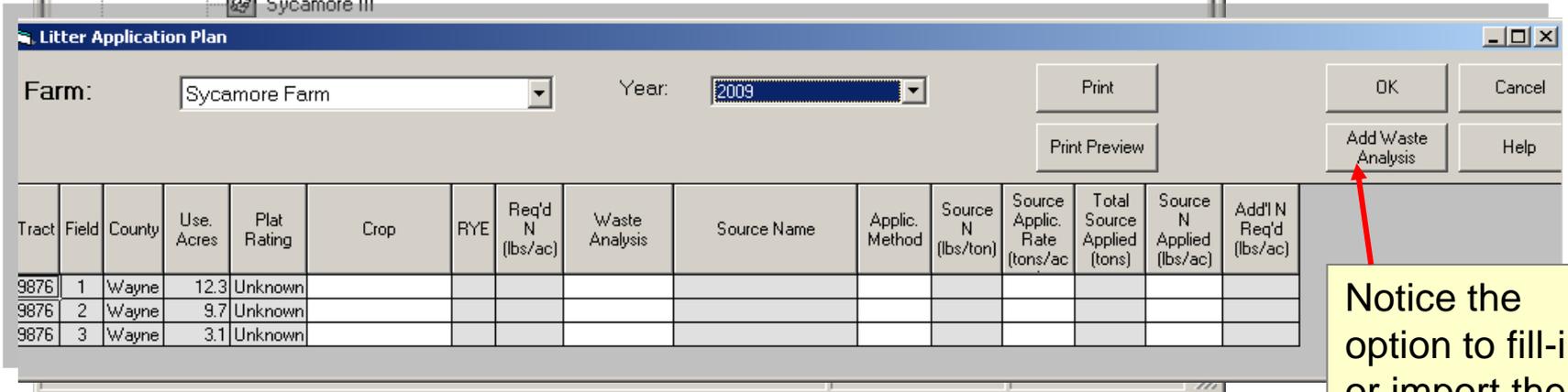
The screenshot displays the 'Nutrient Management - Plan.mdb' application window. The 'System' window is open, showing a tree view of the project structure. The 'Plans' folder is expanded, and 'Sycamore I' is selected. A right-click context menu is open over 'Sycamore I', with 'Output Report' highlighted. The 'Forms' menu is also open, showing options like 'Emergency Action Plan', 'Checklists', 'Record Keeping Forms', and 'Annual Litter Application'. A sub-menu for 'Checklists' is open, showing 'Dairy Odor', 'Poultry Layer Odor', 'Swine Odor', 'Insect', and 'Mortality'. The toolbar contains a printer icon circled in red. The status bar at the bottom shows the date '3/23/2009' and time '3:17:34 PM'.

Find blank Waste Utilization Agreements in NRCS Conservation Practice Standard Code 633 – Waste Utilization.

13) Litter Application Plans



Under the menu item **Litter**, select **Records** to develop a **Litter Application Plan**



Notice the option to fill-in or import the facility's own **waste analysis**.

Use farm waste analysis and information from the Plan to generate an Annual **Litter Application Plan**.