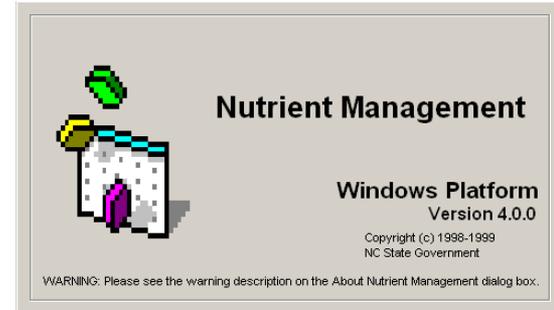


Module 3

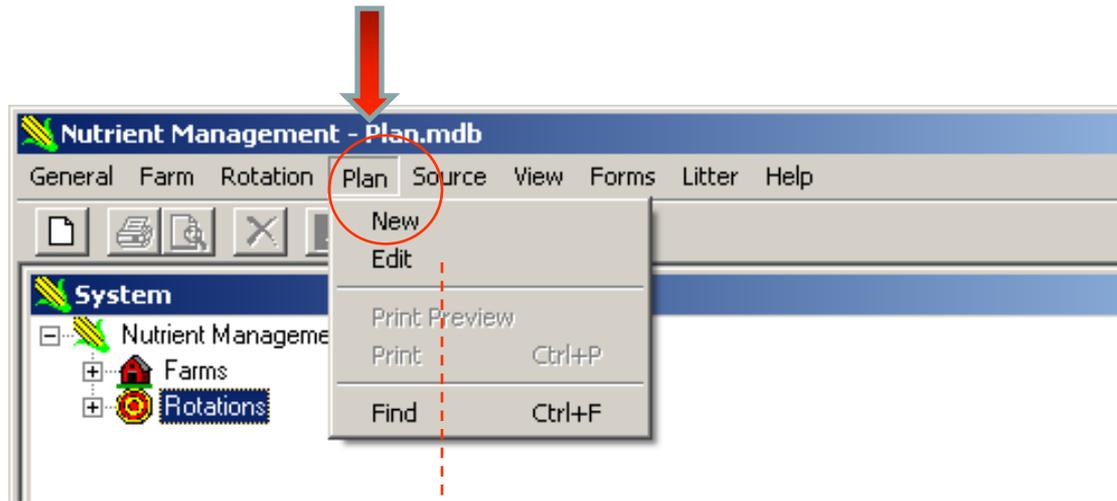
Create and Manage a New Plan



- Create a New Plan.....(2-3)
- Choose Plan Type & Option.....(4-5)
- Main Plan Screen w/ 4 Tabs.....(6)
- Choose Developer and Farm.....(7)
- Identify Source(s).....(8)
- Enter Field Information – Tracts & Fields.....(9-11)
- Select Rotation.....(12)
- Add New Rotation.....(13-14)
- Edit Nutrients.....(15-18)
- Edit Sources.....(19-20)
- Application Percentages.....(21-23)
- Edit Nutrients – Double Check.....(24)
- Edit Nutrients – Recap: 3-Step Process.....(25)
- Copy Crop Data.....(26-27)
- Narrative.....(28)
- Other Screen Tools.....(29-32)
- Print Plan Sections.....(33-34)

1) Create A New Plan

To create a new plan, **1)** click on **Plan** in the menu bar at the top of the **Main Nutrient Management Screen** and select **New**.

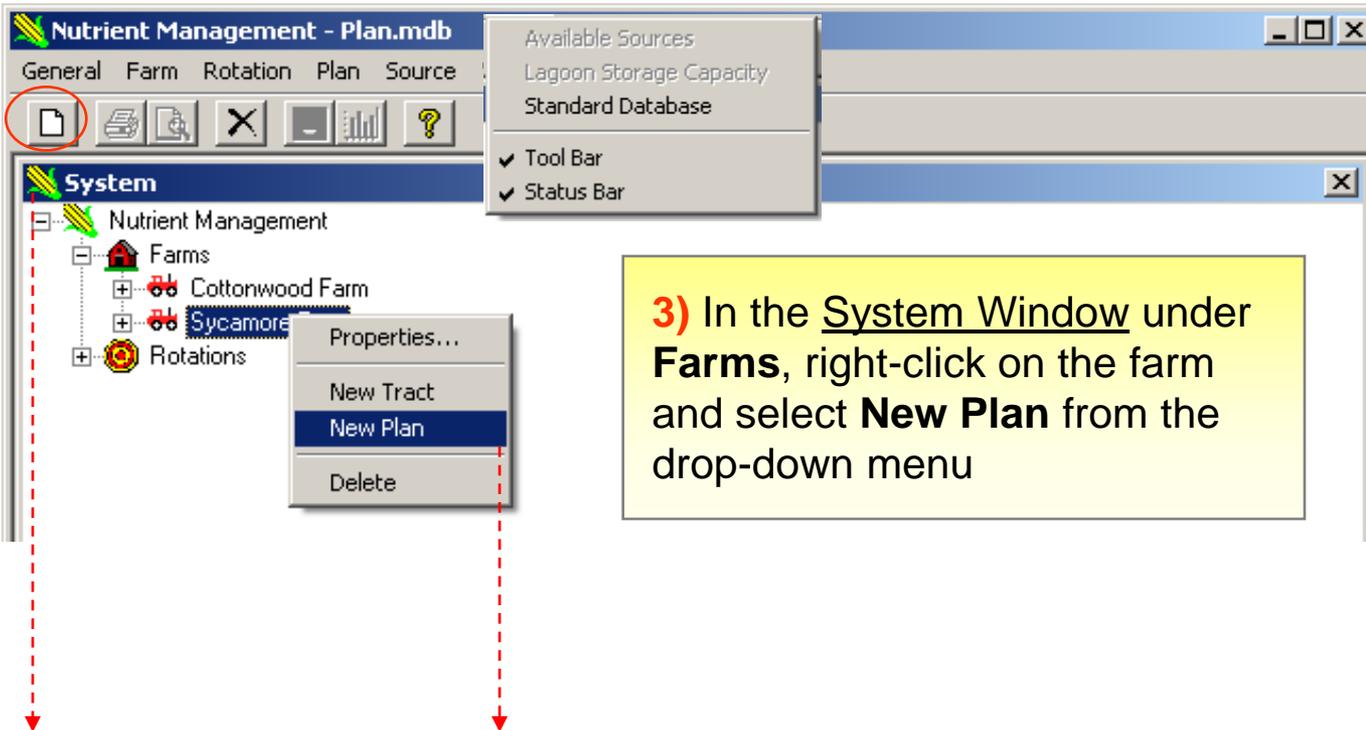


OR

1) Create A New Plan (cont'd)

2) Click the **Create New Plan** icon

OR



3) In the System Window under **Farms**, right-click on the farm and select **New Plan** from the drop-down menu

2) Choose Plan Type

A **Nutrient Management Plan Option** dialog box will appear.

Type in the **1) Plan Name** and specify the **2) Plan Type**

The screenshot shows a dialog box titled "Nutrient Management Plan Option". It has a "Plan Name" field with the text "Sycamore IV". Below that is a "Plan Type" section with three radio buttons: "N Only", "Nutrient Management" (which is selected), and "Poultry Litter". Below that is a "Plan Option" section with three radio buttons: "Manure Only" (which is selected), "Fertilizer Only", and "Both Manure and Fertilizer". On the right side of the dialog box, there are three buttons: "OK", "Cancel", and "Help".

There are **three** plan types:

A **Nitrogen (N) Only** plan considers no nutrients other than nitrogen when developing the nutrient balance.

A **Nutrient Management** plan, in addition to N, includes recommendations for the application of phosphorous, potassium, calcium, magnesium, manganese, zinc, copper and lime on each crop and field in the plan.

A **Poultry Litter** plan is intended to be appropriate for any Poultry Litter Nutrient Management plan. The format is similar to the fertilizer-only plan.

2) Choose Plan Option

As shown, Plan Options may consider '**Manure Only**', '**Fertilizer Only**' or may include '**Both Manure and Fertilizer**'.

The '**Both Manure and Fertilizer**' option assumes that any recommended nutrients not supplied by manure will be supplied by commercial fertilizer.

Note: When a Poultry Litter Plan Type is chosen there is no choice of a Plan Option.

Phosphorous Assessment (PLAT):

In general, **N** is the limiting nutrient in these plans. However, when developing a Plan where the **PLAT rating** is High or Very High, the amount of **P** that may be applied from any source may be limited.

Nutrient Management Plan Option

Plan Name: Sycamore IV

Plan Type

- N Only
- Nutrient Management
- Poultry Litter

Plan Option

- Manure Only
- Fertilizer Only
- Both Manure and Fertilizer

OK

Cancel

Help

- 3) Select the **Plan Option**
- 4) Click **OK** and the **Nutrient Management Plan** screen will appear.

3) The Main Nutrient Management Plan Screen

This screen is used to develop Plans. It allows access to information entered previously in the Main program screen, and it allows new information to be entered.

There are four main tabs used for plan development: **General**, **Sources**, **Fields** and **Narrative**.

Use the 4 main tabs to move within the Plan and add necessary information

Use **Apply** to save changes. Remember to only click **OK** when you are ready to save data and **EXIT** the plan.

4) General Tab: Choose Developer and Farm

In the **Nutrient Management Plan** screen under the **General** tab:

Use the down-arrow to select the **1) Plan Name** at the top, then select a **2) Developer Name** and **3) Farm Name** from the drop down boxes.

Nutrient Management Plan - Nutrient Management with Manure Only - Sycamore IV

General | Sources | Fields | Narrative

Plan Name: Sycamore IV

Date
Created: 2/10/2009 2:46:04 PM
Modified: 2/10/2009 2:48:28 PM

Developer
Name: Paul Planner
Agency: NRCS
Address: 208 West Chestnut Street
City: Goldsboro
State: NC (North Carolina)
Zip Code: 27530
Phone: (919) 734-5281

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

*Note: Notice the option to **Change Plan Type** and also **Edit Developer, Agency, Farm & Producer** information. Use these Edit buttons to edit or add information from within the Plan .

Storage Capacity | Available PAN | Print | Print Preview | OK | Cancel | Apply | Help

5) Sources Tab: Identify the Source(s)

1) Typically the appropriate animal waste type will be chosen from the **Standard Source List**. Click the down-arrow next to **Standard Source List** and select the source from the list. Some facilities will have more than one source (e.g. solids/liquids, or multiple lagoons).

Reference: NRCS Conservation Practice Standard - Waste Utilization (Code 633)

Nutrient Management Plan - Nutrient Management with Manure Only - Sycamore IV

General Sources Fields Narrative

Standard Source List: [Dropdown Arrow]

User Defined Source List:

- Sheep (Feeder Lamb) Scraped Manure
- Sheep (Ram) Scraped Manure
- Swine Farrow-Feeder Lagoon Liquid
- Swine Farrow-Feeder Lagoon Sludge
- Swine Farrow-Feeder Liquid Manure Slurry
- Swine Farrow-Finish Lagoon Liquid
- Swine Farrow-Finish Lagoon Sludge
- Swine Farrow-Finish Liquid Manure Slurry

New Remove Source

For inclusion of a User Defined Source refer to N.C. Cooperative Extension publication AG-439-42 "Use of On-Farm Records for Modifying a Certified Animal Waste Management Plan".

Nutrient Management Plan - Nutrient Management with Manure Only - Sycamore IV

General Sources Fields Narrative

Standard Source List: Swine Farrow-Feeder Lagoon Liquid

User Defined Source List:

New Remove Source

Source Name	Source Type	Animal Numbers	Storage Capacity (days)	Storage Empty Date (mm/dd)
Swine Farrow-Feeder Lagoon Liquid	Standard	0	0	9/1

Now enter, 2) the **Animal Numbers** and 3) days of **Storage Capacity**.

4) The default **Storage Empty Date** is 9/1, but it can be changed.

6) Fields Tab – select/add Tract & Field Information

Nutrient Management Plan - Nutrient Management with Manure Only - Sycamore IV

General Sources **Fields** Narrative

Tract: 9876 - Wayne New

Field: 9876 - Wayne New

P Assessment: []

Single Crop []

Rotation []

Copy Crop Data Paste Crop Data Remove Field

Field ID	Tract ID	Total Acres	Useable Acres	Soil Type	Crop or Rotation
----------	----------	-------------	---------------	-----------	------------------

1) Identify the appropriate **Tract** by clicking the down-arrow and selecting it from the list of Tracts in the combo box.

Nutrient Management Plan - Nutrient Management with Manure Only - Sycamore IV

General Sources Fields Narrative

Tract: 9876 - Wayne New

Field: [] New

P Asse 1
2
3

Single Crop []

Rotation []

Copy Crop Data Paste Crop Data Remove Field

Field ID	Tract ID	Total Acres	Useable Acres	Soil Type	Crop or Rotation
----------	----------	-------------	---------------	-----------	------------------

2) Next identify each **Field** within that Tract by clicking the down-arrow and selecting it from the list of fields in the combo box.

6) Fields Tab: Enter Field Information

Nutrient Management Plan - Nutrient Management with Manure Only - Sycamore IV

General Sources Fields Narrative

Tract: 9876 - Wayne

Field:

P Assessment:

Single Crop

Rotation

Field ID	Tract ID	Total Acres	Useable Acres	Soil Type	Crop or Rotation	P Assessment
Field 1	9876	12.3	12.3	Goldsboro		Low

3) Now the selected field and some field properties will appear in the fields list.

4) Continue adding Tracts and Fields until all waste application fields for the plan are included in the fields list.

*Note the 'New' buttons next to Tract and Field. Use them to add tracts and fields from within the plan.

Nutrient Management Plan - Nutrient Management with Manure Only - Sycamore IV

General Sources Fields Narrative

Tract: 9876 - Wayne

Field:

P Assessment:

Single Crop

Rotation

Field ID	Tract ID	Total Acres	Useable Acres	Soil Type	Crop or Rotation	P Assessment
Field 1	9876	12.3	12.3	Goldsboro		Low
Field 2	9876	9.7	9.7	Norfolk		Medium
Field 3	9876	3.1	3.1	Altavista-CP		Medium

6) Fields Tab: Enter Field Information

Tract: 9876 - Wayne

Field: []

P Assessment: []

Single Crop []

Rotation []

Field ID	Tr	Useable Acres	Soil Type	Crop or Rotation	P Assessment
Field 1	9876	12.3	Goldsboro		Low
Field 2	9876	9.7	Norfolk		Medium
Field 3	9876	3.1	Altavista-CP		Medium

If Plat ratings have not been entered previously, use the down-arrow next to P Assessment to select the PLAT rating for each field.

The rating will then appear in the Fields List under the column P Assessment.

7) Fields Tab: Select Crop or Rotation Information

The screenshot shows the 'Nutrient Management Plan - Nutrient Management with Manure Only - Sycamore IV' window. The 'Fields' tab is active. The interface includes a table of field data and a form for selecting crop or rotation information. Red arrows and numbers 1-4 indicate the steps for selecting a rotation:

- 1) Click on the appropriate field in the table (Field 1).
- 2) Click on the circle indicating (either a single crop or) a rotation.
- 3) Click the down-arrow on the Rotation line to open the available rotation combo box.
- 4) Select the appropriate rotation from the list (Hybrid B.G. - SG Overseed).

Below the table, a yellow box contains the following text:

Add field-specific **Crop or Rotation** Information: **1)** click once on the appropriate field to select it, **2)** click on the circle indicating (either a single crop or) a rotation, **3)** click the down-arrow on the Rotation line to open the available rotation combo box, and **4)** select the appropriate rotation from the list.

Field ID	Tract ID	Total Acres	Useable Acres	Soil Type	Rotation
Field 1	9876	12.3	12.3	Goldsboro	Unknown
Field 2	9876	9.7	9.7	Norfolk	Unknown
Field 3	9876	3.1	3.1	Altavista-CP	Unknown

8) Fields Tab: Add New Rotation Information

To add a new rotation: **1)** highlight the field of interest in the **Fields List**, **2)** click the circle next to **Rotation**, **3)** click the down-arrow next to **Rotation** and **4)** select 'New Rotation' from the drop-down list.

The screenshot shows the 'Nutrient Management Plan' software interface. The 'Fields' tab is active. A table lists fields with their IDs, tract IDs, and acreages. A 'Rotation' dropdown menu is open, showing options like 'New Rotation', 'Corn/SGCover/Soybean', etc. Red arrows and numbers 1-4 indicate the steps to add a new rotation.

Field ID	Tract ID	Total Acres	Useable Acres	Soil Type	Rotation	Comment
Field 1	9876	12.3	12.3	Goldsboro	Hybrid B.G. - SG Overseed	Unknown
Field 2	9876	9.7	9.7	Norfolk	Corn/SGCover/Soybean	Unknown
Field 3	9876	3.1	3.1	Altavista-CP		Unknown

The **New Rotation** dialog box will appear.

The 'New Rotation' dialog box is shown. It contains fields for 'Rotation Name', 'Crop List', 'Number of Crops', 'Years of Rotation', 'Crop Year', and 'Crops in Rotation'.

Rotation Name:

Crop List:

- Annual Ryegrass - Hay
- Annual Ryegrass - Pasture
- Bahiagrass Hay
- Bahiagrass Pasture
- Barley, Grain
- Cabbage/Broccoli
- Caucasion/Old World Blue
- Caucasion/Old World Blue
- Cereal/Annual Rye O/S,
- Cereal/Annual Rye O/S, C
- Common Bermudagrass H
- Common Bermudagrass P.
- Corn, Grain
- Corn, Silage
- Corn, Sweet
- Cotton

Number of Crops:

Years of Rotation:

Crop Year:

Crops in Rotation:

Crop	Start Month	End Month	Year
------	-------------	-----------	------

8) Fields Tab: Add New Rotation Information

Rotation Name: Corn silage / Small grain silage 1

Crop List:

- Rescuegrass Hay
- Rescuegrass Pasture
- Rutabaga
- Rye, Grain
- Small Grain Cover
- Small Grain Overseed
- Small Grain, Silage 3
- Snap Beans
- Sorghum, Grain
- Sorghum-Sudan Hay
- Sorghum-Sudan Pasture
- Southern Pea
- Soybeans, Double Crop
- Soybeans, Full Season
- Soybeans, Manured, Dou
- Soybeans, Manured, Full S

Number of Crops: 2

Years of Rotation: 1

Crop Year: 1 5

Crops in Rotation:

Crop	Start Month	End Month	Year
Corn, Silage	2/15	6/30	1
Small Grain, Silage 4	9/1	3/31	1

OK

Cancel

Help

Note: Use the “<<” button to remove a specific crop from the **Crops in Rotation** list.

In the New Rotation dialog box:

- 1) Name the rotation under **Rotation Name**.
- 2) Specify the **Number of Crops** and the total **Years of Rotation**.
- 3) Move each crop (in order) to the **Crops in Rotation** box by selecting it from the **Crop List** and clicking on the “>” button. The **Crop**, **Start Month**, **End Month** and **Year** will fill-in automatically.
- 4) Select the crop name that has just been added, and
- 5) Click on the **Crop Year** drop down box to identify the year for that crop in the rotation. Repeat this for each crop in order of appearance in the rotation.

9) Fields Tab: Edit Nutrients

Once the field list is complete and all crop or rotation information has been added it is time to **Edit Nutrients**.

1

Field ID	Tract ID	Total Acres	Useable Acres	Soil Type	Crop or Rotation	P Assessment
Field 1	9876	12.3	12.3	Goldsboro	Hybrid B.G. - SG Overseed	Low
Field 2	9876	9.7	9.7	Norfolk	Corn/SGCover/Soybean	Medium
Field 3	9876	3.1	3.1	Altavista-CP	Wheat/Soybeans/Corn	Medium

*Note: You must click on a Field ID before the **Edit Nutrients** button can be activated.

To edit nutrients: **1)** click once on the name under 'Field ID' and then **2)** click the box labeled '**Edit Nutrients**'.

2

Storage Capacity Available PAN Print Print Preview OK Cancel Apply Help

NOTE: When first developing a plan, you must click on **Apply** before the Edit Nutrients button is activated.

A new edit nutrients dialog box will then appear.

9) Crop Nutrient Applications: Edit Nutrients

Specify the Quantity of Nutrients to be applied to each crop:

1) Select from the **Prior Crop** box to specify the previous crop grown on this field only if a N-residual applies. (Notice that the crop of interest has a gray background while the prior crop has a white background).

2) Select the **Number of Sources** to be applied to this field by clicking the down-arrow and selecting the appropriate number of waste sources from the drop down box.

1 → Prior Crop: [dropdown]

2 → Number of Sources: [0] [dropdown]

3 → Soil Sample Data: [10574 BC1] [dropdown]

(lbs/Acre)	N	P205	K2O	Ca	Mg	Mn	Zn	Cu	Lime
Recommended	50	0	0	0	0	0	0	0	0.0
Starter	0	0	0	0	0	0	0	0	0.0
Residual	0	0	0	0	0	0	0	0	0.0
Required	50	0	0	0	0	0	0	0	0.0
Balance	-50	0	0	0	0	0	0	0	0.0

3) Select a soil sample from the **Soil Sample Data** drop-down box by clicking the down-arrow. If sample data was entered previously in the Main Nutrient Management screen it should automatically appear. To add a soil sample, click on the **New Sample Data** button.

9) Crop Nutrient Applications: Edit Nutrients

Overriding Default Values

The developer may override the default **RYE** and **N factor**. **1)** Click on either box to activate the cell to enter this data.

See SB1217 8th Guidance Document, section 1.23 & 1.24 and appendix 1.23 for specific information. Also, consult your regional NCDA agronomist for assistance.

Nutrient Management Plan - Nutrient Management with Manure Only - Sycamore IV - Edit Nutr...

Crop 1 | Crop 2

Crop Name: Small Grain Overseed Soil Type: Goldsboro Field ID: 1

Prior Crop: P Assessment: Low Crop Year: 0-1

Number of Sources: 0 P Removal (lbs/ac): 15

R.Y.E. by User 1 R.Y.E. Unit: Tons Soil Sample Data: 10574 BC1

N Factor by User 0 Default N: 50

View Available PAN Edit Sources

(lbs/Acre)	N	P205	K20	Ca	Mg	Mn	Zn	Cu	Lime
Recommended	50	0	0	0	0	0	0	0	0.0
Starter	0	0	0	0	0	0	0	0	0.0
Residual	0	0	0	0	0	0	0	0	0.0
Required	50	0	0	0	0	0	0	0	0.0
Balance	-50	0	0	0	0	0	0	0	0.0

OK Cancel Apply Help

The developer can also override the default values for **2) Recommended, Starter** and **Residual N** (Nitrogen) by typing over these values in the appropriate cells.

The user may also specify a quantity of **3) Starter P205** (Phosphorus) to apply. Use the 'Apply' button to activate changes.

Phosphorus Note: Current NCSU recommendations state that no starter P is to be applied to soils or sites that rate **Very High** through **NCDA Soil Tests** or **PLAT**.

9) Crop Nutrient Applications: Edit Nutrients

Nutrient Management Plan - Nutrient Management with Manure Only

Crop 1 | Crop 2

Crop Name: Small Grain Overseed Soil Type: Goldsboro

Prior Crop: Annual Ryegrass - Hay P Assessment: Low

Number of Sources: 1 P Removal (lbs/ac): 15

R.Y.E. by User R.Y.E. Unit: Tons

N Factor by User Default N: 50

View Available PAN Edit Sources

(lbs/Acre)	N	P2O5	K2O	Ca	Mg	Mn
Recommended	50	0	0	0	0	0
Starter	0	0	0	0	0	0
Residual	0	0	0	0	0	0
Required	50	0	0	0	0	0
Source 1	50	0	0	0	0	0
Balance	0	0	0	0	0	0

Specify the pounds of N to be supplied from each source. You will be asked to identify each source on a subsequent screen.

The total pounds of N provided from all sources, including starter and residual, must be \leq the 'Recommended' value.

The **Balance** row shows the difference between the **Recommended** value shown in the top row and the **total quantity** of N supplied **from all sources**.

A positive value in the **Balance** row indicates that the quantity supplied from the identified source(s) exceeds the **Recommended** value. A negative value indicates that the identified sources did not meet all the nutrient requirements of the crop.

10) Crop Nutrient Applications: Edit Sources

Nutrient Management Plan - Nutrient Management with Manure Only - Sycamore IV - Edit Nutr...

Crop 1 | Crop 2

Crop Name: Small Grain Overseed Soil Type: Goldsboro Field ID: 1

Prior Crop: Annual Ryegrass - Hay P Assessment: Low Crop Year: 0-1

Number of Sources: 1 P Removal (lbs/ac): 15 Soil Sample Data: 10574 BC1

R.Y.E. by User R.Y.E. Unit: Tons

N Factor by User Default N: 50

(lbs/Acre)	N	P205	K2O	Ca	Mg	Mn	Zn	Cu	Lime
Recommended	50	0	0	0	0	0	0	0	0.0
Starter	0	0	0	0	0	0	0	0	0.0
Residual	0	0	0	0	0	0	0	0	0.0
Required	50	0	0	0	0	0	0	0	0.0
Source 1	50	0	0	0	0	0	0	0	0.0
Balance	0	0	0	0	0	0	0	0	0.0

To specify nutrient sources: click on the **Edit Sources** button in the Edit Nutrients screen.

This will open a new edit sources dialog box.

Nutrient Management Plan - Nutrient Management with Manure Only - Sycamor...

Field ID: 1 Crop: Small Grain Overseed Application Method:

Source List:

Swine Farrow-Feeder Lagoon Liquid

Application Per Storage Capacity

Source Selected:

	0	1
Source Name		
Source Type		
Application Method		
Nutrients From Source/Acre		50
Waste Application Unit		
Application Rate/Acre		
Application Rate/Field		
Application Inches/Acre		

Note: If the Edit Sources button is not active check the 'Number of Sources' to see that it is > 0.

To check the quantity of sources remaining to be applied click on **View Available Sources**.

10) Crop Nutrient Applications: Edit Sources

Field ID: 1 Crop: Small Grain Overseed

Application Method: Irrigation

Source List:

Swine Farrow-Feeder Lagoon Liquid

Source Selected:

0	1
Source Name	
Source Type	
Application Method	
Nutrients From Source/Acre	50
Waste Application Unit	
Application Rate/Acre	
Application Rate/Field	
Application Inches/Acre	

Buttons: OK, Cancel, Apply

To specify a source from the source list:

- 1) under **Source Selected**, click on the column for which you would like to identify a source,
- 2) next highlight the source in the **Source List**,
- 3) Click the down-arrow under **Application Method** and choose either broadcast, incorporation, injection or irrigation.

4) An updated dialog box will appear. Double-check the information that automatically fills-in under **Source Selected**.

Field ID: 1 Crop: Small Grain Overseed

Application Method: Irrigation

Source List:

Swine Farrow-Feeder Lagoon Liquid

Source Selected:

0	1
Source Name	Swine Farrow-Feeder Lagoon Liquid
Source Type	Standard
Application Method	Irrigation
Nutrients From Source/Acre	50
Waste Application Unit	gals
Application Rate/Acre	29809
Application Rate/Field	366651
Application Inches/Acre	1.10

Buttons: OK, Cancel, Apply, Help

11) Crop Nutrient Applications: Application Percentage

Nutrient Management Plan - Nutrient Management with Manure Only - Sycamor...
Field ID: 1 Crop: Small Grain Overseed Application Method: Irrigation
Source List:
Swine Farrow-Feeder Lagoon Liquid
Add Remove
View Available Sources
Application Percentage Storage Capacity
Source Selected:
0 1
Source Name Swine Farrow-Feeder Lagoon Liquid
Source Type Standard
Application Method Irrigation
Nutrients From Source/Acre 50
Waste Application Unit gals
Application Rate/Acre 29809
Application Rate/Field 366651
Application Inches/Acre 1.10
OK Cancel

Specify the monthly application percentages by clicking the **Application Percentage** button.

Nutrient Monthly Percentage for Crop
Crop Name: Small Grain Overseed
Source Name: Swine Farrow-Feeder Lagoon Liquid
Application Period
 Suggested User Defined
Start Month: 10/1 Start Month: 10/1
End Month: 3/31 End Month: 3/31
Percentage
January: 0 July: 0
February: 0 August: 0
March: 0 September: 0
April: 0 October: 0
May: 0 November: 0
June: 0 December: 0
 Save As Default Total
OK
Apply
Cancel
Help
Nitrogen Recommendations:
Apply no more than 30 lbs/acre N at planting. The remaining N should be applied during the months of February-March.

This screen allows the user to identify the **Percentage** of the specified source applied in each month. A suggested **Application Period** is provided that can be overridden by the user.

The total percentage for each source applied to the crop must be equal to **100**.

Click on the **Save As Default** box to automatically use these percentages on other fields with the same crop and source combinations within this plan.

11) Crop Nutrient Applications: Application Percentage Example

Nutrient Monthly Percentage for Crop

Crop Name:

Source Name:

Application Period

Suggested User Defined

Start Month: Start Month:

End Month: End Month:

Percentage

January: <input type="text" value="0"/>	July: <input type="text" value="0"/>
February: <input type="text" value="25"/>	August: <input type="text" value="0"/>
March: <input type="text" value="25"/>	September: <input type="text" value="20"/>
April: <input type="text" value="10"/>	October: <input type="text" value="20"/>
May: <input type="text" value="0"/>	November: <input type="text" value="0"/>
June: <input type="text" value="0"/>	December: <input type="text" value="0"/>

Save As Default

OK
Apply
Cancel
Help

Nitrogen Recommendations:

If Nitrogen recommendation information is available for the selected crop it will appear in the **Nitrogen Recommendations** window.

Example using wheat grown for grain:

The suggested **Application Period** (9/1 through 4/30) is chosen.

Split Fall/Spring applications are chosen with up to 40% of the allowable Nitrogen being applied in the Fall and 60% in the Spring. The multiple month windows in Fall and Spring allow for staggered planting dates and variable weather and growing conditions.

Check the **Save As Default** box to apply these percentages to subsequent wheat crops in the plan that receive the same waste source.

Use the **Apply** button to tally percentages. An error message will appear if 100% is exceeded.

11) Crop Nutrient Applications: Application Percentage

Nutrient Monthly Percentage for Crop

Crop Name:

Source Name:

Application Period:

Suggested User Defined

Start Month: Start Month:

End Month: End Month:

Percentage

January: <input type="text" value="0"/>	July: <input type="text" value="0"/>
February: <input type="text" value="25"/>	August: <input type="text" value="0"/>
March: <input type="text" value="25"/>	September: <input type="text" value="20"/>
April: <input type="text" value="10"/>	October: <input type="text" value="20"/>
May: <input type="text" value="0"/>	November: <input type="text" value="0"/>
June: <input type="text" value="0"/>	December: <input type="text" value="0"/>

Save As Default

Nitrogen Recommendations:

When Monthly application percentages are complete for the selected crop click **OK** to save data and exit the screen.

Similarly, for the Source and Application Method dialog box, click **OK** to save data and exit the screen.

Nutrient Management Plan - Nutrient Management with Manure Only - Sycamor...

Field ID: Crop: Application Method:

Source List:

- Swine Farrow-Feeder Lagoon Liquid

Source Selected:

0	1
Source Name	Swine Farrow-Feeder Lagoon Liquid
Source Type	Standard
Application Method	Irrigation
Nutrients From Source/Acre	125
Waste Application Unit	gals
Application Rate/Acre	74523
Application Rate/Field	231020
Application Inches/Acre	2.74

Notice the application method now appears here, not above.

12) Crop Nutrient Applications: Double-check

After clicking **OK** to save and exit the previous screens, return to the **Edit Nutrients** screen and confirm that **Required N** has been met by **Source 1** (or multiple Sources), **Starter N** and/or **Residual N**, and that the **Balance** is zero.

Do this for each crop in the rotation.

The screenshot shows a software interface for editing nutrient management plans. The title bar reads "Nutrient Management Plan - Nutrient Management with Manure Only - Sycamore IV - Edit Nutr...". The interface includes tabs for "Crop 1", "Crop 2", and "Crop 3". Below the tabs are various input fields for crop and soil information, including "Crop Name", "Soil Type", "Field ID", "Prior Crop", "P Assessment", "Crop Year", "Number of Sources", "P Removal", "Soil Sample Data", "R.Y.E. by User", "R.Y.E. Unit", and "Default N". There are buttons for "View Available PAN" and "Edit Sources". A table displays nutrient requirements and applications for different crop stages. The "Balance" row is circled in red, and the "Apply" button at the bottom right is also highlighted with a red arrow.

(lbs/Acre)	N	P205	K20	Ca	Mg	Mn	Zn	Cu	Lime
Recommended	125	0	20	0	0	0	0	0	0.0
Starter	0	0	0	0	0	0	0	0	0.0
Residual	0	0	0	0	0	0	0	0	0.0
Required	125	0	20	0	0	0	0	0	0.0
Source 1	125	67	171	46	15	1	3	1	0.0
Balance	0	67	151	46	15	1	3	1	0.0

Use the **Apply** button or **Enter** on the computer keyboard to activate any changes.

13) Crop Nutrient Applications: Recap Edit Nutrients

Edit Nutrients - The 3-Step Process:

For each crop in the rotation: **1) Edit Nutrients** by choosing the prior crop and number of sources, **2) Edit Sources** by choosing the source and application method, and **3) choose Application Percentage** to select monthly application percentages.

1

2

3

14) Crop Nutrient Applications: Copy Crop Data

When there are multiple fields in the plan with the same crop or rotation that will receive the same source, the **Copy Crop Data** button is very useful to save time and reduce possible errors.

Nutrient Management Plan - Nutrient Management with Manure Only - Sycamore IV

General Sources Fields Narrative

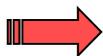
Tract: 9876 - Wayne New
Field: New
P Assessment: New

Single Crop
 Rotation

Copy Crop Data Paste Crop Data Remove Field Edit Nutrients

Field ID	Tract ID	Total Acres	Useable Acres	Soil Type	Crop or Rotation	P Assessment
Field 1	9876	12.3	12.3	Goldsboro	Hybrid B.G. - SG Overseed	Unknown
Field 2	9876	9.7	9.7	Norfolk	Corn/SG Cover/Soybean	Unknown
Field 3	9876	3.1	3.1	Altavista-CP	Corn/Wheat/Soybeans	Unknown
Field 4	9876	7	6.2	Norfolk		Unknown

To copy field crop data, **1)** first select the **Field ID** containing the crop data to be copied and **2)** click the **Copy Crop Data** button. Next, **3)** click the **Field ID** of the field to which the crop data is to be pasted and click the **4) Paste Crop Data** button.



Note: The paste function uses the default RYE and N application rates specific to the crop and soil type of the field to which data is being pasted. Therefore, the user will have to manually make any changes to the field crop data that are different from the default values.

14) Crop Nutrient Applications: Copy Crop Data Example

Tract: 9876 - Wayne

Field:

P Assessment:

Single Crop

Rotation

Copy Crop Data Paste Crop Data Remove Field Edit Nutrients

Field ID	Tract ID	Total Acres	Useable Acres	Soil Type	Crop or Rotation
Field 1	9876	12.3	12.3	Goldsboro	Hybrid B.G. - SG Overseed
Field 2	9876	9.7	9.7	Norfolk	Corn/SGCover/Soybean
Field 3	9876	3.1	3.1	Altavista-CP	Corn/Wheat/Soybeans
Field 4	9876	7	6.2	Norfolk	Unknown

As an example, assume fields 3 and 4 have the same crop rotation (Corn, Wheat, Soybeans). We've already entered the rotation for field 3 and completed the 3-Step process (Edit Nutrients→Edit Sources→Application Percentage) for all crops in the rotation.

Tract: 9876 - Wayne

Field:

P Assessment:

Single Crop

Rotation

Copy Crop Data **Paste Crop Data** Remove Field Edit Nutrients

Field ID	Tract ID	Total Acres	Useable Acres	Soil Type	Crop or Rotation
Field 1	9876	12.3	12.3	Goldsboro	Hybrid B.G. - SG Overseed
Field 2	9876	9.7	9.7	Norfolk	Corn/SGCover/Soybean
Field 3	9876	3.1	3.1	Altavista-CP	Corn/Wheat/Soybeans
Field 4	9876	7	6.2	Norfolk	Corn/Wheat/Soybeans

Nutrient Management

Plan data has been copied to Field 4.

OK

Now, to apply that same information to field 4: First, **1**) Select the **Field ID** for field 3 and **2**) click the **Copy Crop Data** button. Next, **3**) click the **Field ID** of field 4 and **4**) click the **Paste Crop Data** button. It will take a few moments for the operation to perform and the rotation name to appear. Now, **5**) a message box will appear indicating the plan data has been copied to Field 4.

13) Narrative Tab



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

A screenshot of a software application window titled "Nutrient Management Plan - Nutrient Management with Manure Only - Sycamore IV". The window has a tabbed interface with "General", "Sources", "Fields", and "Narrative" tabs. The "Narrative" tab is active, showing a text area labeled "Plan Narrative:". Inside the text area, there is a heading "Use the Narrative to address some or all of the following:" followed by a bulleted list of eight items. At the bottom of the window, there are several buttons: "Storage Capacity", "Available PAN", "Print", "Print Preview", "OK", "Cancel", "Apply", and "Help".

Nutrient Management Plan - Nutrient Management with Manure Only - Sycamore IV

General Sources Fields **Narrative**

Plan Narrative:

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

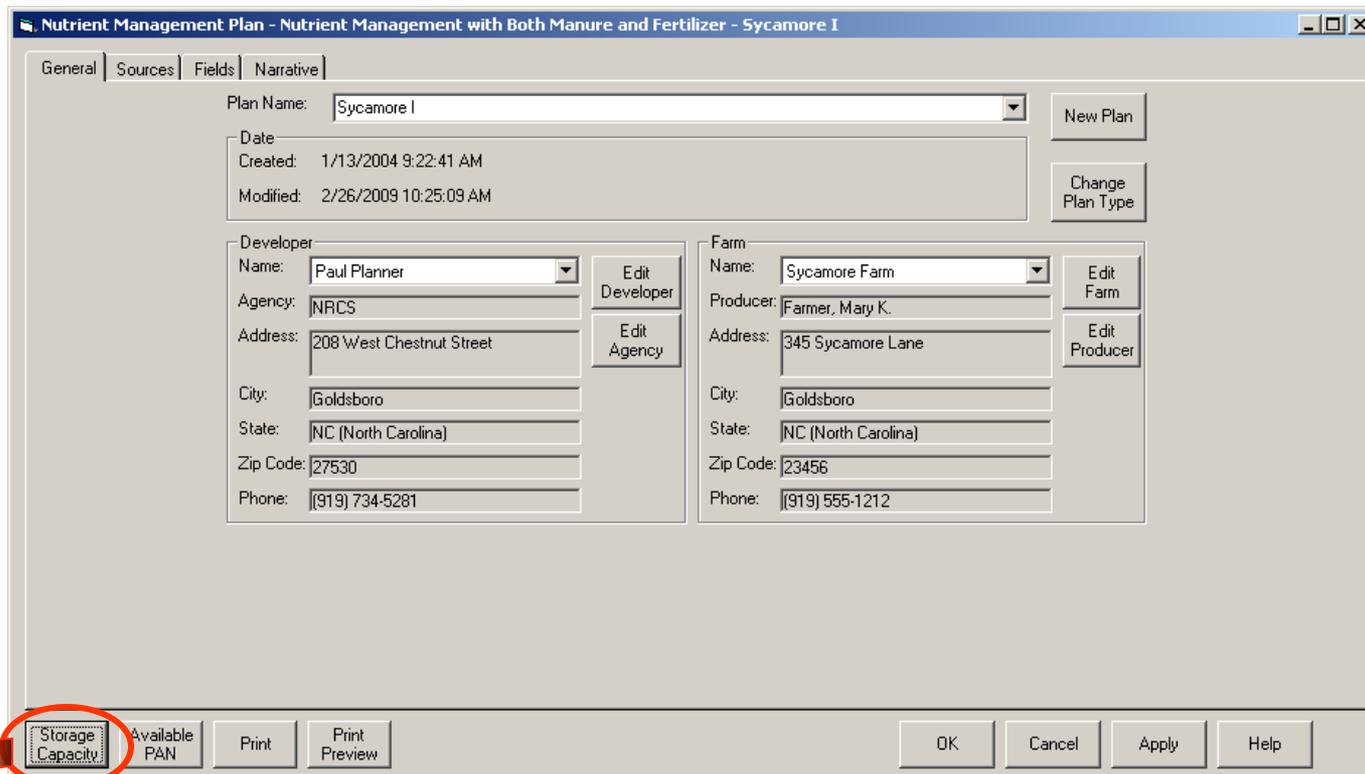
- describe operation and location
- describe waste storage structures and equipment.
- describe watershed and actions taken to address water quality criteria for feedlot, production area and waste application fields
- explain or clarify information contained in tables
- show all relevant calculations
- provide additional information needed by the operator and/or inspector to understand N (and P) budgets
- describe how to use the nutrient management plan
- outline operation & maintenance requirement (NRCS Standard 590)
- summarize tracts, fields, ownership, soil sample codes, etc.

Storage Capacity Available PAN Print Print Preview OK Cancel Apply Help

Note: Concise and informative Narratives can be very helpful to users of the Plan!

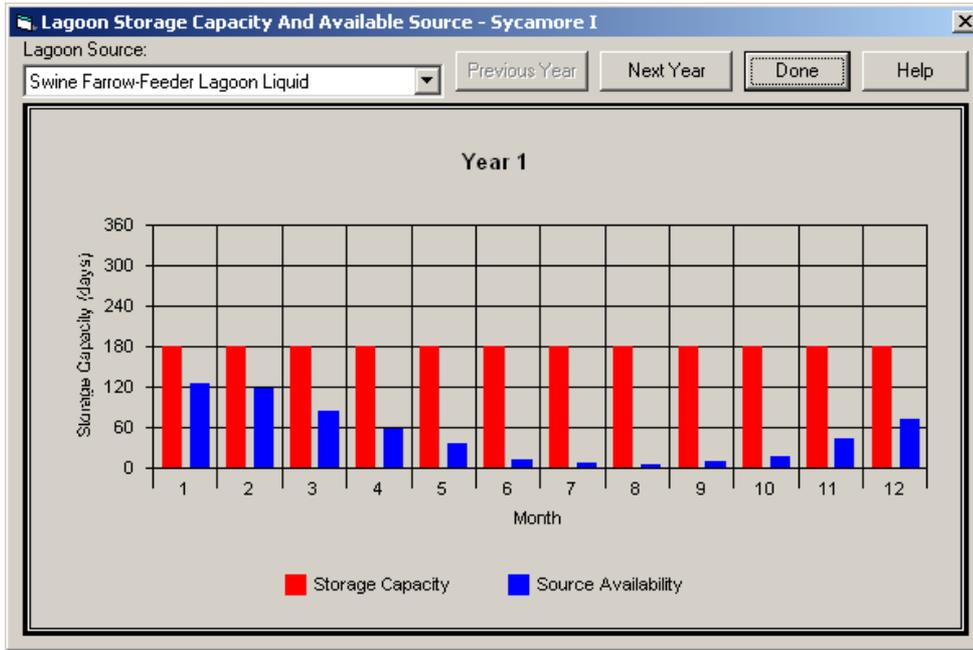
14) Other Screen Tools: Storage Capacity

Click the **Storage Capacity** button and a graph will be generated for each source in the plan that utilizes a lagoon or holding pond for waste storage. The graph indicates whether the storage structure has adequate storage capacity for the plan developed and also whether the plan schedules the application of waste when it is available.



The screenshot shows the 'Nutrient Management Plan' software interface. The title bar reads 'Nutrient Management Plan - Nutrient Management with Both Manure and Fertilizer - Sycamore I'. The interface has several tabs: 'General', 'Sources', 'Fields', and 'Narrative'. The 'General' tab is active. The 'Plan Name' is 'Sycamore I'. The 'Date' section shows 'Created: 1/13/2004 9:22:41 AM' and 'Modified: 2/26/2009 10:25:09 AM'. There are buttons for 'New Plan' and 'Change Plan Type'. The 'Developer' section includes 'Name: Paul Planner', 'Agency: NRCS', 'Address: 208 West Chestnut Street', 'City: Goldsboro', 'State: NC (North Carolina)', 'Zip Code: 27530', and 'Phone: (919) 734-5281'. There are 'Edit Developer' and 'Edit Agency' buttons. The 'Farm' section includes 'Name: Sycamore Farm', 'Producer: Farmer, Mary K.', 'Address: 345 Sycamore Lane', 'City: Goldsboro', 'State: NC (North Carolina)', 'Zip Code: 23456', and 'Phone: (919) 555-1212'. There are 'Edit Farm' and 'Edit Producer' buttons. At the bottom, there are buttons for 'Storage Capacity', 'Available PAN', 'Print', 'Print Preview', 'OK', 'Cancel', 'Apply', and 'Help'. The 'Storage Capacity' button is highlighted with a red circle and a red arrow pointing to it.

14) Other Screen Tools: Storage Capacity Graph



The **red bar** represents the **storage capacity** of the structure in days.

The **blue bar** represents the days of **storage volume accumulated** at the end of the month (after all waste applications have been made).

Hold the cursor over the blue bar and the exact number of days of storage volume accumulated will be displayed.

If there is no blue bar for a particular month, this indicates all of the waste accumulated to date has been applied. If the blue bar is taller than the red bar, (a warning message is displayed) this indicates that the accumulated storage volume exceeds storage capacity. In that case, revisit monthly application percentages and/or crop choices to identify a regimen that utilizes a sufficient amount of the source.

To view the graph for future years in the plan, click the **Next Year** button. To view the graph for another storage structure, select another **Lagoon Source** from the drop-down box. To exit the graph, click the **Done** button.

15) Other Screen Tools: Available PAN

Nutrient Management Plan - Nutrient Management with Both Manure and Fertilizer - Sycamore I

General Sources Fields Narrative

Plan Name: Sycamore I

Date
Created: 1/13/2004 9:22:41 AM
Modified: 2/26/2009 10:25:09 AM

Developer
Name: Paul Planner
Agency: NRCS
Address: 208 West Chestnut Street
City: Goldsboro
State: NC (North Carolina)
Zip Code: 27530
Phone: (919) 734-5281

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

Storage Capacity Available PAN Print Print Preview OK Cancel Apply Help

Click the **Available PAN** button and a table will be generated for each source in the plan that utilizes a lagoon or holding pond for waste storage.

15) Other Screen Tools: Available PAN

Application Method	Broadcast	Incorporated	Injected	Irrigated
Year 1	-143	-245	-270	-155
Year 2	-214	-367	-405	-233

The table indicates whether the storage structure has adequate storage capacity and whether the application schedule and crop choices are appropriate.

The Table shows the remaining pounds of Plant Available Nitrogen (PAN) that were produced but not utilized for each source and year in the Plan.

The quantity of PAN differs depending on the application method. Refer only to the PAN values representing the application method(s) you have chosen.

When the Plan is complete, the pounds of Available PAN should be less than or equal to zero for each year of the plan (**i.e., you should see negative numbers or zero**). This indicates that all of the source that was produced was utilized by crops in the Plan.

If there are multiple sources in a plan, you may view Available PAN for the other sources by selecting from the **Source List**.

When you have finished viewing the data, click the '**Done**' button.

16) Print Plan Sections

Plan Name: Sycamore I

Date
Created: 1/13/2004 9:22:41 AM
Modified: 2/26/2009 10:25:09 AM

Developer
Name: Paul Planner
Agency: NRCS
Address: 208 West Chestnut Street
City: Goldsboro
State: NC (North Carolina)
Zip Code: 27530
Phone: (919) 734-5281

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

Buttons: New Plan, Change Plan Type, Edit Developer, Edit Agency, Edit Farm, Edit Producer

Buttons: Storage Capacity, Available PAN, Print, Print Preview

Use **Print** to print the entire Plan at once.

Use **Print Preview** to preview and/or print individual sections of the Plan

Preview Reports

Related Reports:

- Cover Sheet
- Sources in Plan
- Planned Crops Summary
- Waste Utilization
- Irrigation Application Factors
- Nutrient Management Recommendations
- Required Soil Test Values
- Required Specifications
- NRCS Job Sheet
- Crop Notes

Buttons: Preview, OK, Help

Print

Printer: System Printer (TOSHIBA e-STUDIO 452)

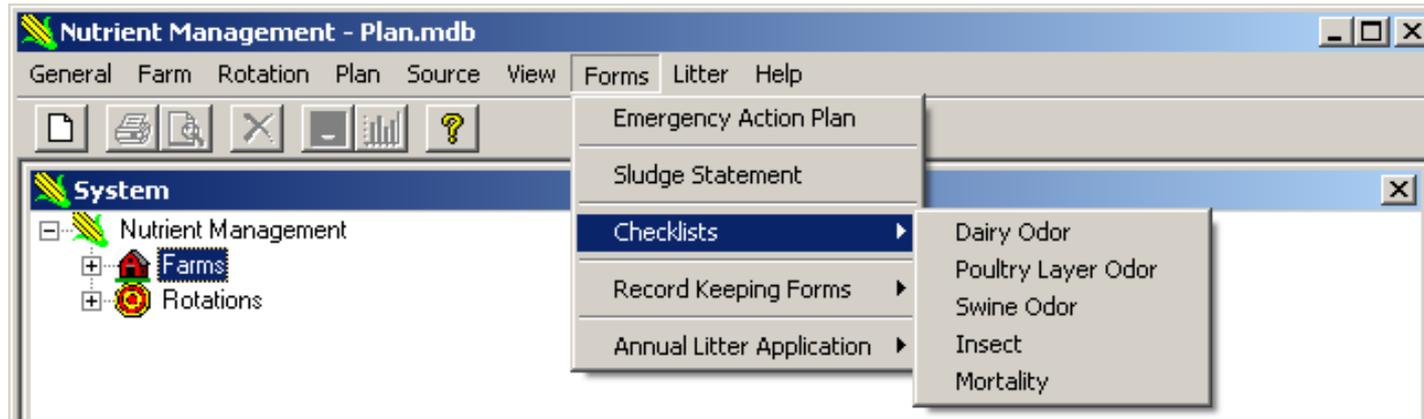
Number of copies: 1

Job Sheet Crop Notes

Buttons: OK, Cancel

Note: Plans will print on the default printer for your system. Change your default printer setting to change print location.

16) Print Plan Sections



Print and assemble the final plan:

- 1) After previewing the Plan reports, print all report sections using the **Print** button on the General Tab or **Print** from within the Plan itself.
- 2) Under the main screen **Forms** menu, select the **Emergency Action Plan**, **Checklists for Odor, Insect and Mortality**, and **Sludge Statement** (if source is an anaerobic lagoon). *Fill out Emergency Action Plan and checklists with Producer.
- 3) Attach **Waste Utilization Agreements** if applicable.
- 4) Attach **field maps**.
- 5) Address **irrigation** parameters and **calibration**, and **waste and soil sampling requirements** in an operation & maintenance section.
- 6) Print and attach a **Job Sheet** if necessary, and any other required items.