

Nutrient Data Entry Workflow Best Practices

Step by Step Instructions

Premier Precision Variable Rate Nutrients

1. After you've [created nutrient prescriptions](#) that you'd like to add to Decision, if you need to edit any product costs or rates—now is the time.
 - a. Edit rates by [editing the rec](#) on the Edit Rec page.

The screenshot shows the Premier Crop Systems Prescriptions interface. The main content area displays a list of prescriptions for a specific field. The 'Nitrogen' prescription is selected, and its details are shown in a card. The card includes the following information:

Nutrient	Cost / ac	Product	Equation	Cost/Acre
Nitrogen	\$0.00	Basic N Rec		
Phosphorus	\$87.47	C YR C C YG Build 25 PPM 18:1		
Potassium	\$44.54	ABC 175-150-130 1 YR KRem		
Fall P&K	\$55.63			
10-34-0	\$14.84			

A red box highlights the 'Change Cost and Product' button in the top right corner of the prescription card.

- b. [Edit product costs](#) through the Premier Precision page (Change Cost and Product) before adding your Rx as Actual.

The screenshot shows the Premier Crop Systems Prescriptions interface. The main content area displays a list of prescriptions for a specific field. The 'Phosphorus' prescription is selected, and its details are shown in a card. The card includes the following information:

Nutrient	Cost / ac	Product	Equation	Cost/Acre
Nitrogen				
Phosphorus	\$87.79	MgmtZone 30-25-20 P Removal 1 Yr		
Potassium	\$61.43	MgmtZone 225-200-175 K Removal 1 Yr KRem1 Yr		

A red box highlights the 'Change Cost and Product' button in the top right corner of the prescription card.



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- Account for any nutrients that were created in the **Prescriptions** page by [adding them to Actual](#) or by [sending an as-applied file](#).

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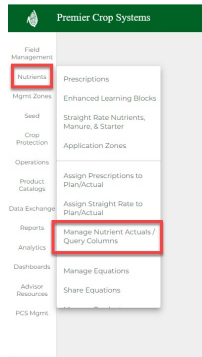
- [Assign Application Method & Application Timing](#) by selecting them in the “Include in Actual” column and assigning the correct Application Method and Timing for each application.

	Include in Plan	Include in Actual	Hierarchy	T1	Acres	T1	Nutrient Type	T1	Application Method	Application Timing	Nutrient Avg Rate	T1	Nutrient Rate Unit	T1	Equation	T1	User Adjusted	T1	Product	T1	Rx Deduct	T1	App Zone Name	T1	Total	T1
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Bill \ Bill Home \ Corn on Corn		74.6		Phosphorus		VR Broadcast	Fall-Applied	75.1		Lbs/Ac		MgmtZone 30-25-20 P Removal 1 Yr				11-52-0						\$4311.56	
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Bill \ Bill Home \ Corn on Corn		74.6		Potassium		Application Method	Application Timing	92.1		Lbs/Ac		MgmtZone 225-200-175 K Removal 1 Yr KRem1Yr				0-0-60						\$4583.59	
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Ted \ Ted West \ Corn		85.6		Phosphorus		Application Method	Application Timing	87.1		Lbs/Ac		MgmtZone 30-25-20 P Removal 1 Yr				11-52-0						\$5734.54	



PREMIER PROCESS

4. Navigate to the **Nutrients > Manage Nutrient Actuals/Query Columns** page.



5. Once there, you will want to [assign a Nutrient Query Column](#) in order to have these values and costs populate on Reports, Queries, and the Dashboards.

The screenshot shows the 'Manage Nutrient Actuals' page in Premier Crop Systems. The page includes a navigation sidebar on the left, a search bar at the top right, and a user profile 'Katie McWhirter'. The main content area has a 'Batch Assign' section with three tabs: 'Application Method', 'Application Timing', and 'Nutrient Query Column'. The 'Nutrient Query Column' tab is active, showing a dropdown for 'Nutrient Type' and 'Query Column', and an 'Assign' button. Below this, a yellow banner indicates '49 rows do not have the Nutrient Query Column set.' A table below the banner lists nutrient applications with columns for Hierarchy, Nutrient Type, Equation/Plan Name, Product, Nutrient Avg Rate, Rate Unit, App Zone Name, Nutrient Query Column, Notes, App Method, App Timing, and Total. A red arrow points to the 'Nutrient Query Column' column, which has a 'Select' dropdown menu for each row. A note below the table states: 'Note: Query column will get reset when a layer with a higher priority gets loaded to that column. To view those rows, select the 'Show Query Column resets' checkbox. If enrolled in Decision or Analytics, please select a different query column for these records to be available in relevant reports/queries/dashboards.' Below the note are two checkboxes: 'Query Column Has Been Reset' (checked) and 'Straight Rate and Manure Applications' (unchecked).

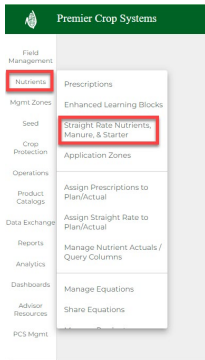
	Hierarchy [1]	Nutrient Type [1]	Equation/Plan Name [1]	Product [1]	Nutrient Avg Rate [1]	Rate Unit [1]	App Zone Name [1]	Nutrient Query Column [1]	Notes [1]	App Method [1]	App Timing [1]	Total [1]
<input type="checkbox"/>	Bill \ Bill Home \ Corn \ 74.8	Sulfur	Sulfur Flat Rate	Cal Sul (175-21Ca)	17	Lbs/Ac		Select				\$932.66
<input type="checkbox"/>	Bill \ Bill Home \ Corn \ 74.8	Nitrogen	MgmtZone - Normal + Grid Low P K OM, High OM	NH3	170.6	Lbs/Ac		Select	User Adjusted			\$8,530.00
<input type="checkbox"/>	Bill \ Bill Home \ Corn \ 74.8	Phosphorus	Corn YG	11-52-0	83.3	Lbs/Ac		Select				\$4,781.94



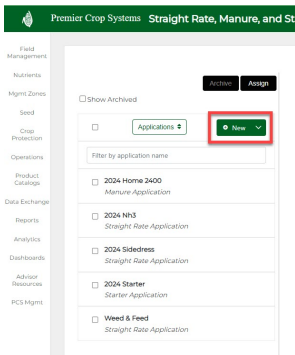
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Entering Straight Rate, Manure, & Starter

1. Account for any whole field straight rate, manure, or starter applications by going to **Nutrients > Straight Rate, Manure, & Starter** page.



2. **Create** any whole field straight rate, manure, and/or starter applications.



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3. [Assign applications](#) to the proper field(s) so they populate in the Actuals column.

The screenshot shows the 'Assign Nutrient Applications' page. On the left, there is a sidebar with navigation options. The main area displays a table with columns for 'Planned' and 'Actual'. A dropdown menu is open, showing 'As Planned' and 'As Actual' options, with 'As Actual' selected. A red box highlights the 'Actual' column in the table. A large white arrow points from the main interface to a smaller inset window on the right showing the 'Actual' column populated with application names.

4. For any spatial nutrient applications, [enter the spatial data](#) through the **Data Entry > Field Spatial Web Entry** page.

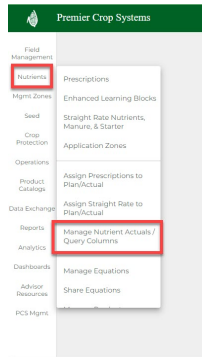
The screenshot shows the 'Field Spatial Web Entry' page. The 'Choose Field' section has a 'Spatial Layer' dropdown menu set to 'Nutrients'. A red arrow points to the 'Spatial Layer' dropdown. Another red arrow points to the 'Data Exchange' menu item in the sidebar, which is open and shows 'Spatial Web Entry' highlighted.

*Make sure that the Nutrient Query Column that you use in the Field Spatial Web Entry page is correct, as you cannot use the Nutrient Query Column attribute more than once and it cannot be changed on the **Manage Nutrient Actuals** page.*



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5. Navigate to the **Nutrients > Manage Nutrients Actuals/Query Columns** page.



6. Once there, you will want to [assign a Nutrient Query Column](#) to each application in order to have these values and costs populate on Reports, Queries, and the Dashboards.

The image shows the 'Manage Nutrient Actuals' page in Premier Crop Systems. The page has a header with 'Premier Crop Systems Manage Nutrient Actuals', a search bar, and a user profile 'Katie McWhirter'. Below the header, there are several sections for configuration: 'Batch Assign' with 'Application Method', 'Application Timing', and 'Nutrient Query Column' sections; 'Filter by crop or field' with dropdowns for Crop, Product, Equation, Rec Type, and Nutrient Type; and a table of applications. A red arrow points to the 'Nutrient Query Column' column in the table.

<input type="checkbox"/>	Hierarchy [↑]	Nutrient Type [↑]	Equation/Plan Name [↑]	Product [↑]	Nutrient Avg Rate [↑]	Rate Unit [↑]	App Zone Name [↑]	Nutrient Query Column [↑]	Notes [↑]	App Method [↑]	App Timing [↑]	Total [↑]
<input checked="" type="checkbox"/>	Carlson \ Carlson North of Creek \ Corn \ 15.57	Starter	2024 Starter	10-34-0 + 1qt Zinc				Starter1 ×		In Furrow		\$318.22
<input checked="" type="checkbox"/>	Carlson \ Carlson West \ Corn \ 70.83	Starter	2024 Starter	10-34-0 + 1qt Zinc				Starter1 ×		In Furrow		\$1,447.72
<input checked="" type="checkbox"/>	Hoag Home \ East \ Corn \ 14.09	Starter	2024 Starter	10-34-0 + 1qt Zinc				Starter1 ×		In Furrow		\$287.97



As-Applied Files

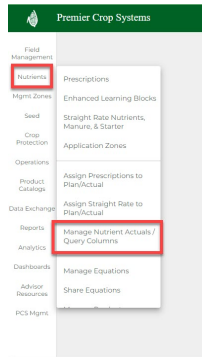
1. [Submit as-applied shapefiles](#) through **Data Entry & Exchange > Upload Data** or the FTP *and* send an email to data.support@premiercrop.com using the below guidelines or utilize our email template found here: [Outlook--Fertilizer As-Applied Submission Template](#)
 - a. Fertilizer type (N, P, K, etc)
 - b. Product form
 - i. Dry
 - ii. Liquid
 1. Density (if a new Liquid Product)
 - c. Guaranteed analysis of actual nutrient if a blended product. (Ex: 5.5-26-30 or 28-0-0-5S)
 - d. Product names to use in Decision—ideally this should be the base product that created a blend rather than the blended product analysis (Ex: 11-52-0, 0-0-60)
 - e. Column name in the file that contains the rate (Ex: “Rt_Apd_Ms” or Rt_Apd_Liq)
 - f. Unit of measure of the rate column:
 - i. Lbs/tons/gallon of product *or*
 - ii. Lbs of actual nutrient
 - g. Cost per unit, if known *
 - h. Names of additives used with VRT fertilizer, if any
 - i. Nitrogen additives cost, if any
 - j. If submitting VR Lime files, include:
 - i. Cost per ton of lime
 - ii. ECCE
 - k. If submitting as-applied manure files, include:
 - i. Manure product name (list found in Whole Field or Spatial Web) i.e. “Hog Manure-Liquid”
 - ii. Application Timing and Method
 - iii. Include the column name that contains the rate. (Ex: “Rt_Apd_Liq”)
 - iv. Nutrients per gallon or 1000 gallons or per lb. or ton
 - v. Cost per unit

** To update cost for as-applied data after file is loaded, use the Cost Entry Spreadsheet.*

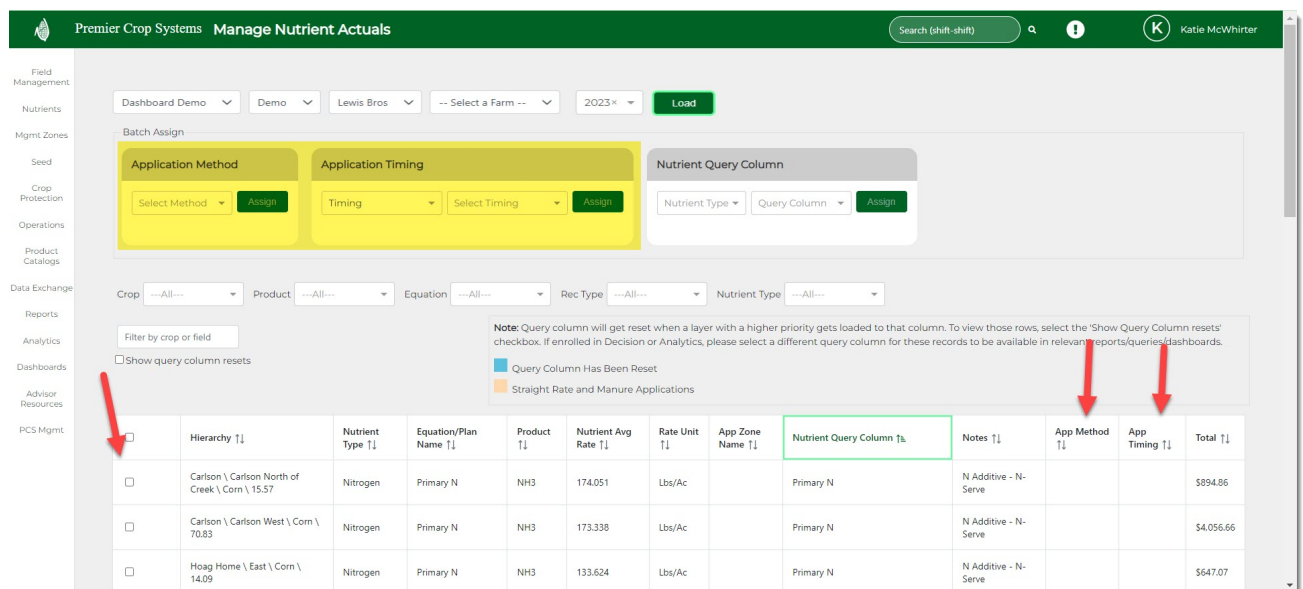


PREMIER PROCESS

2. Once you receive an email from Data Support that your files have been uploaded, you need to navigate to the **Nutrients > Manage Nutrients Actuals/Query Columns** page.



3. You will need to [assign the Application Method and Timing](#) in order for that data to populate into Reports, Queries, and the Dashboards.



Batch Assign

Application Method: Select Method [v] /Assign

Application Timing: Timing [v] Select Timing [v] /Assign

Nutrient Query Column: Nutrient Type [v] Query Column [v] /Assign

Filter by crop or field: Show query column resets

Note: Query column will get reset when a layer with a higher priority gets loaded to that column. To view those rows, select the 'Show Query Column resets' checkbox. If enrolled in Decision or Analytics, please select a different query column for these records to be available in relevant reports/queries/dashboards.

<input type="checkbox"/>	Hierarchy [↑]	Nutrient Type [↑]	Equation/Plan Name [↑]	Product [↑]	Nutrient Avg Rate [↑]	Rate Unit [↑]	App Zone Name [↑]	Nutrient Query Column %	Notes [↑]	App Method [↑]	App Timing [↑]	Total [↑]
<input type="checkbox"/>	Carlson \ Carlson North of Creek \ Corn \ 15.57	Nitrogen	Primary N	NH3	174.051	Lbs/Ac	Primary N	Primary N	N Additive - N-Serve			\$894.86
<input type="checkbox"/>	Carlson \ Carlson West \ Corn \ 70.83	Nitrogen	Primary N	NH3	173.338	Lbs/Ac	Primary N	Primary N	N Additive - N-Serve			\$4,056.66
<input type="checkbox"/>	Hoag Home \ East \ Corn \ 14.09	Nitrogen	Primary N	NH3	133.624	Lbs/Ac	Primary N	Primary N	N Additive - N-Serve			\$647.07

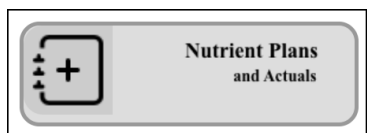


Tips & Tricks

Q: I need to edit a nutrient product cost after I've already assigned an application as Actual. What's the best way to do this?

A: Unassign the application from the field, edit the product cost, and re-assign:

Premier Precision > Nutrient Plans and Actuals



Premier Crop Systems Nutrients Add to Plan

Nutrient Application Details

Premier Crop Systems > Sarah > T R Ike Farms > -- Select a Farm -- > 2021 > Load

Batch assign Application Method: Application Method [v] Assign

Batch assign Application Timing: Application Timing [v] Assign

Nutrient Type: -- All -- Crop: -- All -- Product: -- All -- Equation: -- All -- Rec Type: -- All --

Filter by field name

	+	+	+												
	+	+	+	Hierarchy	Acres	Nutrient Type	Application Method	Application Timing	Nutrient Avg Rate	Nutrient Rate Unit	Equation	User Adjusted	Product	Rx Deduct ?	App Zone Name
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Hoopes \ Hoopes Hay 22 \ Corn on Corn	64.9	Nitrogen	VR Broadcast	Normal Sidedress...	47.4	Lbs/Ac	NormalRate	Yes	ESN 44-0-0			
			Home \							MZ 250-					

Q: 12 of my Grower's fields got 120 lbs of N from fall-applied NH3 and 3 of them got 140 units of N from NH3. Should I make 2 separate applications or can I just change just those three?

A: You can decide what works best for you, but you can account for any applications that may be different from the rest. Use the edit button in the **Manage Nutrients Actuals** page to account for this.

Filter by crop or field

Note: Query column will get reset when a layer with a higher priority gets loaded to that column. To view those rows, select the 'Show Query Column resets' checkbox. If enrolled in Decision or Analytics, please select a different query column for these records to be available in

Bill\Bill Home: Edit Nutrient Straight Rate Actual Application

Products

Nutrient Type *	Product *	Rate *	Rate Unit *	Cost/unit (\$) *	Cost Unit *	Cost/Acre (\$) :
Nitrogen	NH3	182.9	Pounds/Acre	740	Cost/Ton	67.67

Total Product: 7 Tons Total Cost (\$): 5058 Total N: 150

Add Nitrogen Additive +

N Additive: N-Serve Additive cost/ac (\$): 15

Total Cost/ac (\$) : 82.67

Background table (partially visible):

Crop	Rate	Unit	Cost
Com on Com	74.74	Lbs/Ac	7.58
Bill \ Bill West \	2022 Corn	10-34-0 + 1qt	