

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 top navigation bar includes 'Premier Crop Systems Prescriptions' and a user profile 'Katie McWhirter'. The main content area displays a list of nutrient prescriptions for 'Franz Breckenbauer / Home Farm \ Around the Bend \ Corn on Corn \ 109 ac'. The list includes:

| Nutrient | Cost / ac | Equation |
|------------|-----------|-------------------------------|
| Nitrogen | \$0.00 | Basic N Rec |
| Phosphorus | \$87.47 | 2 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 for the 'Fall P&K' prescription. The interface also includes various filters and action buttons like 'Adjust', 'Summarize', 'Download REC PDF', 'Download Load Sheets', 'Download Field Maps', 'Nutrient Plans and Labels', 'Export', and 'Change Cost and Product for Checked Fields'.

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

This screenshot is similar to the previous one, showing the Premier Crop Systems Prescriptions interface. The 'Change Cost and Product' button for the 'Fall P&K' prescription is highlighted with a red box. The interface includes the same navigation and filter options as the previous screenshot.



PREMIER PROCESS

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

The screenshot shows the 'Premier Crop Systems Prescriptions' interface. The top navigation bar includes buttons for 'Adjust', 'Summarize', 'Download REC PDF', 'Load Sheets', 'Field Maps', 'Nutrient Plans and Actuals' (highlighted with a red box), 'Change Cost and Product', and 'Export'. Below these are filter options for Yield and Crop. A legend indicates 'Slider Adjusted', 'Brush Adjusted', and 'Slider and Brush Adjusted'. The main data entry section shows a table of nutrient applications for 'Lewis Bros \ Bill \ Bill Home \ Corn on Corn \ 74.6 ac'. A red arrow points to the 'Add' icon in the top right of this section.

| Nutrient | Cost / ac | MgmtZone |
|---------------------|-----------|---|
| Nitrogen | \$143.28 | Normal + Grid Low P K OM, High OM |
| Phosphorus | \$86.67 | ABC 35-25-20 |
| Potassium | \$64.81 | MgmtZone 225-200-175 K Removal 1 Yr KRem1Yr |
| 2022 Starter w/Zinc | \$18.32 | |
| 2022 NH3 | \$82.67 | |
| 2022 ConC sidedress | \$75.13 | |

- [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.

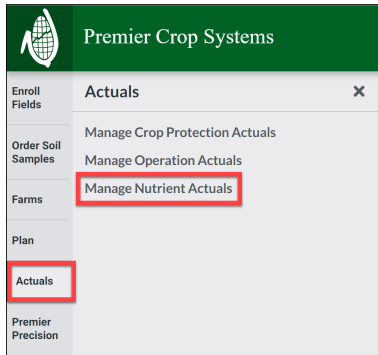
The screenshot shows the 'Premier Crop Systems Nutrients Add to Plan' interface. It features a 'Nutrient Application Details' section with filters for Farm, Year, and a 'Load' button. Below are 'Batch assign Application Method' and 'Batch assign Application Timing' sections. The main table has columns for 'Include in Plan', 'Include in Actual', 'Hierarchy', 'Acres', 'Nutrient Type', 'Application Method', 'Application Timing', 'Nutrient Avg Rate', 'Nutrient Rate Unit', 'Equation', and 'User Adjusted'. A red arrow points to the 'Include in Actual' column.

| | Include in Plan | Include in Actual | Hierarchy | Acres | Nutrient Type | Application Method | Application Timing | Nutrient Avg Rate | Nutrient Rate Unit | Equation | User Adjusted |
|--|--------------------------|-------------------------------------|---------------------------------|-------|---------------|--------------------|--------------------|-------------------|--------------------|--|---------------|
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Bill \ Bill Home \ Corn on Corn | 74.6 | Nitrogen | Application Method | Application Timing | 156.7 | Lbs/Ac | MgmtZone - Normal + Grid Low P K OM, High OM | |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Bill \ Bill Home \ Corn on Corn | 74.6 | Phosphorus | Application Method | Application Timing | 66.4 | Lbs/Ac | ABC 35-25-20 | |



PREMIER PROCESS

4. Navigate to the **Actuals > Manage Nutrient Actuals** 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 Premier Crop Systems 'Manage Nutrient Actuals' page. The page includes configuration options for Application Method, Application Timing, and Nutrient Query Column. A red arrow points to the 'Nutrient Query Column' dropdown menu in the table below.

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.

- Query Column Has Been Reset
- Straight Rate and Manure Applications

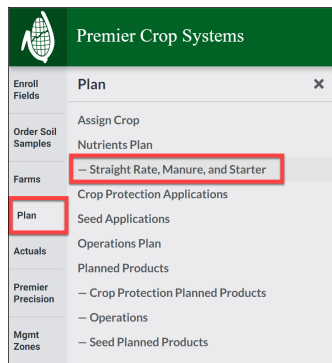
| <input type="checkbox"/> | Hierarchy | Nutrient Type | Equation/Plan Name | Product | Nutrient Avg Rate | Rate Unit | App Zone Name | Nutrient Query Column | Notes | App Method |
|--------------------------|---|---------------|---|---------|-------------------|-----------|---------------|-----------------------|-------|------------|
| <input type="checkbox"/> | Bill 1, Bill Home 1 Corn on Corn 1 74.6 | Potassium | MgmtZone 225- 200-175 K Removal 1 Yr KRem1Yr | 0-0-60 | 86.4 | Lbs/Ac | | Select | | |



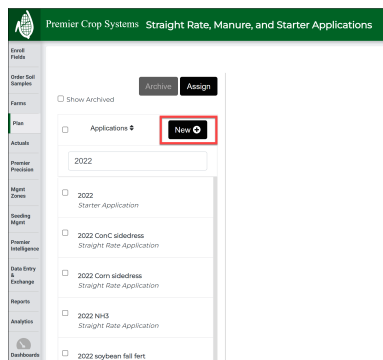
PREMIER PROCESS

Entering Straight Rate, Manure, & Starter

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



2. [Create](#) any whole field straight rate, manure, and/or starter applications.



PREMIER PROCESS

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

The screenshot shows the 'Assign Nutrient Applications' interface. On the left, a list of applications is shown, including '2022 ConC sidedress', '2022 Corn sidedress', '2022 Corn Starter', and '2022 NH3'. A red arrow points to the 'Assign' button. The main area shows a table with columns for 'Planned' and 'Actual'. Three fields are listed: 'Lewis Bros | Bill | Bill Home | 2022 | 74.74 ac', 'Lewis Bros | Bill | Bill West | 2022 | 71.02 ac', and 'Lewis Bros | Johnson | Johnson Home | 2022 | 220.39 ac'. A red arrow points to the 'Assign' button for the first field. To the right, a separate 'Actual' column is shown with three green bars representing the assigned applications for each field.

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

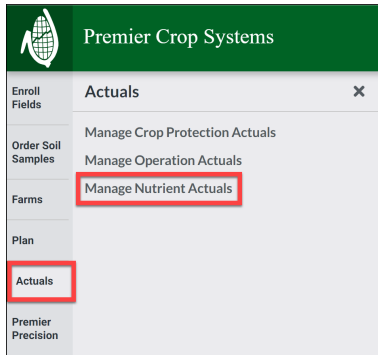
The screenshot shows the 'Field Spatial Web Entry' interface. The left sidebar has 'Data Entry & Exchange' highlighted. The main area is titled 'Choose Field' and shows a dropdown menu for 'Spatial Layer' set to 'Nutrients'. A red arrow points to the 'Spatial Layer' dropdown. Below the dropdown, there is a 'Load' button and a message: 'Please select a field, year and Spatial Web Layer to load.'

*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.*



PREMIER PROCESS

5. Navigate to the **Actuals > Manage Nutrients Actuals** 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 screenshot shows the Premier Crop Systems 'Manage Nutrient Actuals' page. The page includes a navigation menu on the left, a top header with the user name 'Katie McWhirter', and a main content area with various filters and a table of applications. A red arrow points to the 'Nutrient Query Column' column in the table.

Dashboard Demo > Demo > Lewis Bros > -- Select a Farm -- > 2022 > Load

Batch Assign

Application Method: Select Method [Assign]

Application Timing: Timing [Select Timing] [Assign]

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

29 rows do not have the Nutrient Query Column set.

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

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.

Query Column Has Been Reset

Straight Rate and Manure Applications

| | Hierarchy | Nutrient Type | Equation/Plan Name | Product | Nutrient Avg Rate | Rate Unit | App Zone Name | Nutrient Query Column | Notes | App Method |
|--------------------------|--|---------------|------------------------------|---------|-------------------|-----------|---------------|-----------------------|----------------------|------------|
| <input type="checkbox"/> | Carlson Carlson East N and S Com 43.86 | Nitrogen | 2022 Fall NH3 Non- Manure | NH3 | 200 | Lbs/Ac | | Primary N | N Additive - N-Serve | Inject |



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 **Actuals > Manage Nutrients Actuals** 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.

Application Method

Application Timing

Nutrient Query Column

16 rows do not have the Nutrient Query Column set.

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.

| Int Type | Equation/Plan Name | Product | Nutrient Avg Rate | Rate Unit | App Zone Name | Nutrient Query Column | Notes | App Method | App Timing | Total |
|----------|-------------------------------|------------|-------------------|-----------|---------------|-----------------------|-------|------------|--------------|------------|
| Nitrogen | Basic N Rec | | 150 | Lbs/Ac | | Select | | | | \$0.00 |
| osphorus | 2 YR C/C YG Build 25 PPM 18:1 | 11-52-0 | 151.6 | Lbs/Ac | | Select | | Broadcast | Fall-Applied | \$9,532.82 |
| assilium | ABC 175-150-130 1 YR RRem | 0-0-60 | 97.2 | Lbs/Ac | | Select | | Broadcast | Fall-Applied | \$4,854.41 |
| osphorus | MESZ DEMO | 12-40-0-10 | 60 | Lbs/Ac | | Select | | Broadcast | Fall-Applied | \$3,273.81 |

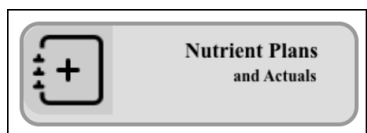


Tips & Tricks

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 Actual



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 **Assign**

Batch assign Application Timing: Application Timing **Assign**

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

Filter by field name:

| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 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.

Seeding Mgmt ...All... Filter by crop or field

Premier Intelligence 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

Data Entry & Exchange Show query

Reports

Analytics

Dashboards

Advisor Resources

PCS Mgmt

Log out

Bill Home: Edit Nutrient Straight Rate Actual Application

Products

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

| | | | |
|---------------|---------------|-----------------|---------|
| Total Product | Purchase Unit | Total Cost (\$) | Total N |
| 7 | Ton | 5058 | 150 |

Add Nitrogen Additive +

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

Total Cost/ac (\$) 82.67

| | | | | | | | |
|-------------------------------------|--------|----------------------|---------------|------|--------|--------|--------------|
| Com on Corn 1 74.74 | Sulfur | 2022 Corn Starter | 12-0-0-26S | 7.58 | Lbs/Ac | Select | Side-Dressec |
| Bill \ Bill West \ Com on Corn 1 | | | 10-34-0 + 1qt | | | Select | Side-Dressec |