## Nutrient Data Entry Workflow Best Practices

### Step by Step Instructions

PREMIER

**PROCESS** 

#### **Premier Precision Variable Rate Nutrients**

- 1. After you've <u>created nutrient prescriptions</u> 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 <u>editing the rec</u> on the Edit Rec page.

Ń	Premier Crop Systems Prescriptions	e McWhirter
Enroll Fields Order Soil Samples Farms Plan Actuals Premier Precision	Custor DathGad Deno Read Read Very Very Very Cop Pak Equations Custor	Î
Mgmt Zones Seeding Mgmt Premier Intelligence	-+/- Hide Detaits Legond: Slider Adjusted Brush Adjusted Stider and Brush Adjusted — Samples Present — Samples About to Expire — Samples A	isent
Data Entry & Exchange Reports	Image: a general Breckenbauer \ Home Farm \ Around the Bend \ Corr on Corr \ 109 ac general to the State of Corr A (25 Mar)       Planebar         Image: Cost / ac : S00.00       Image: Cost / ac : S87.47       Image: Cost / ac : S55.63       Image: Cost / ac : S14.84         Image: Description       Image: Cost / ac : S00.00       Image: Cost / ac : S14.54       Image: Cost / ac : S14.84       Image: Cost / ac : S14.84         Image: Description       Image: Cost / ac : S16.34       Image: Cost / ac : S16.34       Image: Cost / ac : S14.84       Image: Cost / ac : S14.84	3
Analytics	Diside IV Rec 21 R-CC 10 Diside 25 PENT ADC 175-120-130 1 TK RACH	

b. <u>Edit product costs</u> through the Premier Precision page (Change Cost and Product) before adding your Rx as Actual.

A)	Premier Crop Systems Prescriptions		Search (shift-shift) q 3 Katie McWhirter
Field Management Nutrients Mgmt Zones Seed Crop Protection	Customer Desthoord Demo V Branch Demo V Correr Lie fibra V 2022 V 2022 V Crop Affeids V Get Flads	Summarizer         model         FRC PDF         model         Model	Charles Constant Magna and Constant Con
Product Catalogs Data Exchange	+/_ Hide Details Include ELB	Legend: Slider Adjusted Brush Adjusted Slider and Brush A	adjuated 💿 = Samples Present 🥚 = Samples About to Expire 💿 = Samples Absent
Reports	🕞 间 🕒 Lewis Bros \ Bill \ Bill Home \ Corn on Corn \ 74.6 ac 📑		
Analytics Dashboards Advisor	Nitrogen Orto 25:20 Phosphorus Cost / ac. 557.79 MgmtZone 30-25:20 P Removal 1 Yr	Potasium     Cost / ac : \$61.43     Marganet Cost / ac : \$62.200-175 K     Removal 1 Yr KRem1Yr	_



# PREMIER PROCESS

2. Account for any nutrients that were created in the **Prescriptions** page by <u>adding</u> <u>them to Actual</u> or by <u>sending an as-applied file</u>.

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Field Management Nutrients Mgmt Zones Seed Crop Protection Operations	Corport Kongo Corport Corpo	v Adjust v Summarize (team) (	REC PDF reconst 200 000 00000000000000000000000000000	Sheets	Notice Flass al Anali Negat Ran & Maaary Aprilation	Î
Product Catalogs Data Exchange Reports Analytics Dashboards Advisor	Hide Details     Include ELB     Imclude ELB     Imclude Bros \ Bill \ Bill     Nirrogen	Legend: State me \ Corri on Corn \ 74.6 ac + Phosphorus Corr ac : 557.9 Mgm.Zcm 25:20.0 Mgm.Zcm 25:20.0 Mgm.Zcm 25:20.0 Removal 1 Yr KRem	Adjusted Brush Adjusted Slider and Brush 175 K IYr	ush Adjusted 🌒 = Samples Present (	<ul> <li>Samples About to Expire</li> <li>Image: Samples About to Expire</li> </ul>	🔹 = Samples Absent
PCS Mgmt	E Tewis Bros \ Bill \ Bill :	rth \ Corn \ 2253 ac Ploophorus Plooph	Cost Acre : \$36.60		ţ o	•• 2 - A
		c	opyright 2024, Premier Crop Systems, LLC.			

3. <u>Assign Application Method & Application Timing</u> by selecting them in the "Include in Actual" column and assigning the correct Application Method and Timing for each application.

Ŵ	Premier C	rop Syste	ems Nut	trient Presc	ription A	ssignmen	rt				Sea	rch (shift-shift)	٩	0	K Kati	e McWhirter
Field Management Nutrients	Dash	board Demo	→ De	emo 🗸 Lewi	s Bros 🗸	Select a Fari	n ¥ 2023× *	Load								
Mgmt Zones	Bat	ch assign	Applicatio	on Method	Batch a	assign Applic	cation Timing									
Seed	Ap	plication M	lethod -	Assign	Applic	ation Timing	- Assign									
Crop Protection																
Operations	Nutri	ent Type	All	- Cro	- All	•	Product All	• Equation - All		Rec Type	All					
Product Catalogs	Filter	by field name	,													
Data Exchange									-							
Reports Analytics	۲	Include In Plan (+)	Include In Actual	Hierarchy †↓	Acres †↓	Nutrient Type Î↓	Application Method	Application Timing	Nutrient Avg †↓ Rate	Nutrient Rate †↓ Unit	Equation †	User Adjusted <sup>†↓</sup>	Product †↓	Rx Deduct †↓ ?	App Zone Name ↑↓	Total †↓
Dashboards Advisor Resources PCS Mgmt				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			\$4.311.56
				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			\$4,583.59
				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			\$5.734.54





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

Field Management	
Nutrients	Prescriptions
Mgmt Zones	Enhanced Learning Blocks
Seed	Straight Rate Nutrients, Manure, & Starter
Crop Protection	Application Zones
Operations	
Product Catalogs	Assign Prescriptions to Plan/Actual
ata Exchange	Assign Straight Rate to Plan/Actual
Reports	Manage Nutrient Actuals /
Analytics	Query Columns
Dashboards	Manage Equations
Advisor Resources	Share Equations
PCS Mgmt	

5. Once there, you will want to <u>assign a Nutrient Query Column</u> in order to have these values and costs populate on Reports, Queries, and the Dashboards.

Premier	Crop Sys	stems Manage Nut	rient Actuals							Search (shift-shift	٩	ĸ	Katie McWh
ent I	Dashboard E	Nemo 🗸 Demo 🗸	Lewis Bros 🗸	Select a Farm V 2	023× 👻 🔳	bad							
nes	Batch Assi	gn											
	Applicat	tion Method	Application	Timing		Nut	rient Query	/ Column					
	Select I	Method - Assign	Timing	Select Timing		gn Nu	trient Type 🖲	Query Col	umn 👻 Assign				
is													
						49 10	ws do not n	ave the Nutrier	nt Query Column set.				
* [	Filter by cro 3 Show que	p or field ry column resets		Note: C checkt Qu Str	Query column wi xxx. If enrolled in ery Column Has aight Rate and N	ll get reset wher Decision or Ana Been Reset fanure Applicati	n a layer with lytics, please ons	a higher priori select a differe	ity gets loaded to that column ent query column for these rec	. To view those row cord: to be availab	rs, select the 'Sho le in relevant repo	v Query Colur rts/queries/da	nn resets' shboards.
ic		Hierarchy 🏗	Nutrient Type	Equation/Plan Name †↓	Product †↓	Nutrient Avg	Rate	App Zone	Nutrient Query Column †↓	Notes †1	App Method 11	App Timing 1	Total †↓
	- 12	Bill \ Bill Home \ Com \ 74.8	Sulfur	Sulfur Flat Rate	Cal Sul (175- 21Ca)	17	Lbs/Ac	tune 11	Select	• •			
													\$932.66
	- <b>G</b>	Bill \ Bill Home \ Corn \ 74.8	Nitrogen	MgmtZone - Normal + Grid Low P K OM, High OM	NH3	178.6	Lbs/Ac		Select				\$932.66 \$8.530.00





### 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.

- Ø	Freinier Crop Systems
Field	
Nutrients	Prescriptions
gmt Zones	Enhanced Learning Blocks
Seed	Straight Rate Nutrients, Manure, & Starter
Crop rotection	Application Zones
perations	
Product Datalogs	Assign Prescriptions to Plan/Actual
Exchange	Assign Straight Rate to Plan/Actual
Reports	Manage Nutrient Actuals /
malytics	Query Columns
shboards	Manage Equations
Advisor esources	Share Equations
CS Mamt	

2. <u>Create</u> any whole field straight rate, manure, and/or starter applications.







3. <u>Assign applications</u> to the proper field(s) so they populate in the Actuals column.

er Crop Systems Assign Nutrient Appl	lications	Search (st	vifi-shift) 9 🚺 K Katle McWhitter		
Filter by application name		Dashboard Demo 🗸 🗸	Demo 🗸 Lewis Bros 🗸 2023× 👻 Loiid		
2024 Home 2400 Manune Application		Back Unassig	n (1) 🗸 Assign (1) 🗸 Create Actual from Plan 🕥		
2024 Nh3     Straight Rate Application	com		As Parned As Actual		
2024 Sidedress     Straight Rate Application	O 17 L wids	Planned	Actual		
2024 Starter Starter Application					Actual
Weed & Feed Straight Rate Application	Lewis Bros   Bill   Bill Home   2023   74.74 ac Crop: Com				
	Eurois Bras Johnson (Johnson Home (2023) 225:39 Be Crops Corn an Corn				Weed & Feed C 2024 Stater C 2024 Staterest C
	Lewis Bros Johnson (Johnson Home) 2023 (225.4 e Sidudness Crigo Cern en Corn			<u></u>	Weed & Freed C 2004 Statter C 2024 Statter C

For any spatial nutrient applications, <u>enter the spatial data</u> through the **Data Entry** Field Spatial Web Entry page.

ment	
nts	Choose Field
ones	Dashboard Demo > Demo > Lewis Bros > Bill > Bill Home > 2023
1	Spatial Layer: Nutrients - Load
ilon	Please select a field, year and Spatial Web Layer to load,
ons	
act XQS	
nange	Upload Data
rts	Calibrate Yield Data
lics	Data Check
ards	Field Flags
or	Whole Field Web Entry
gm/	Spatial Web Entry
1	Manage DataView Users
	Field Information Sheets
	Cost Entry Spreadsheet
	Legacy Data Check

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.





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

Field	
Nutrients	Prescriptions
Igmt Zones	Enhanced Learning Blocks
Seed	Straight Rate Nutrients, Manure, & Starter
Protection	Application Zones
Operations	
Product Catalogs	Assign Prescriptions to Plan/Actual
ita Exchange	Assign Straight Rate to Plan/Actual
Reports	Manage Nutrient Actuals /
Analytics	Query Columns
Sashboards	Manage Equations
Advisor Resources	Share Equations
PCS Mgmt	

6. Once there, you will want to <u>assign a Nutrient Query Column</u> to each application in order to have these values and costs populate on Reports, Queries, and the Dashboards.

A Premi	ier Crop Syst	ems Manage Nutrien	t Actuals						Search (shift-shift)	٩	•	K ×	atie McWhirter
Field lanagement													
Nutrients	Dashboard D	emo 🗸 Demo 🗸	Lewis Bros	Select a Farm	<ul> <li>✓</li> <li>202</li> </ul>	3× 👻 🛛 La	ad						
mt Zones	Batch Assig	n											
Seed	Applicati	on Method	Application Tim	ning		Nut	rient Query	Column					
Crop Protection	Select M	ethod 👻 Assign	Timing	- Select Timing	✓ Ass	ign Nu	trient Type 👻	Query Colu	imn 👻 Assign				
perations													
Product Catalogs										I –			
Exchange	CropAll	- ProductAll	···. •	EquationAll	✓ Rec Typ	eAll	* Nutr	ient TypeA	I •				
Reports	Filter by crop	or field		Note: C	uery column w	ill get reset when	a layer with	a higher priorit	y gets loaded to that column. To vi	v those rows, s	elect the 'Show	Query Colum	n resets'
shboards	Show query	column resets			on: Column Ha	Boop Dorot	lytics, piease	select a differen	nt query column for these records to	De available il	r relevant repor	s/queries/dasi	iboards.
dvisor isources				Str	aight Rate and I	Manure Applicati	ons		/				
CS Mgmt		Hierarchy ↑↓	Nutrient Type ↑↓	Equation/Plan Name †↓	Product ↑↓	Nutrient Avg Rate ↑↓	Rate Unit †↓	App Zone Name †↓	Nutrient Query Column 🚛	Notes †↓	App Method †↓	App Timing †↓	Total ↑↓
	<u> </u>	Carlson \ Carlson North of Creek \ Corn \ 15.57	Starter	2024 Starter	10-34-0 + 1qt Zinc				Starter1 × 💌		In Furrow		\$318.22
	- <b>B</b>	Carlson \ Carlson West \ Corn \ 70.83	Starter	2024 Starter	10-34-0 + 1qt Zinc				Starter1 × 💌		In Furrow		\$1.447.72
	<u> </u>	Hoag Home \ East \ Corn \ 14.09	Starter	2024 Starter	10-34-0 + 1qt Zinc				Starter1 × 👻		In Furrow		\$287.97



## PREMIER PROCESS

#### **As-Applied Files**

- <u>Submit as-applied shapefiles</u> 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: <u>Outlook--Fertilizer As-Applied</u> <u>Submission Template</u>
  - 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.





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.

4	Premier Crop Systems
Field Management	
Nutrients	Prescriptions
Mgmt Zones	Enhanced Learning Blocks
Seed	Straight Rate Nutrients, Manure, & Starter
Protection	Application Zones
Operations	
Product Catalogs	Assign Prescriptions to Plan/Actual
Data Exchange	Assign Straight Rate to Plan/Actual
Reports Analytics	Manage Nutrient Actuals / Query Columns
Dashboards	Manage Equations
Advisor Resources	Share Equations
PCS Mgmt	

3. You will need to <u>assign the Application Method and Timing</u> in order for that data to populate into Reports, Queries, and the Dashboards.

Pre	mier Crop Sy	vstems Manage Nutrien	t Actuals						Search (	shift-shift) Q	9	ĸ	(atie McWhir	
eld ement														
ients	Dashboar	d Demo 🗸 🛛 Demo 🗸	Lewis Bros	✓ Select a	Farm 🗸 🗸	2023× 👻	Load							
Zones	- Batch Assign													
d	Application Method Application Timing						Nutrient Query Column							
p tion	Select	Method - Assign	← Select T	iming 👻	Assign	Nutrient	Type 👻 Que	ary Column 👻 Assign						
ons														
ct as														
ts ics ards or ces	Filter by o	op or field ery column resets			Note: Query co checkbox. If er Query Colu Straight Ra	lumn will get rese irolled in Decision imn Has Been Re ite and Manure Aj	et when a laye or Analytics, set oplications	er with a highe please select a	r priority gets loaded to that colur different query column for these	nn. To view those rows records to be available	, select the 'Show in relevant repor	Query Colum ts/queries/das	n resets' hboards.	
Imt		Hierarchy ↑↓	Nutrient Type †↓	Equation/Plan Name †↓	Product ↑↓	Nutrient Avg Rate ↑↓	Rate Unit †↓	App Zone Name †↓	Nutrient Query Column †≞	Notes ↑↓	App Method ↑↓	App Timing †↓	Total †↓	
	0	Carlson \ Carlson North of Creek \ Corn \ 15.57	Nitrogen	Primary N	NH3	174.051	Lbs/Ac		Primary N	N Additive - N- Serve				
													\$894.86	
		Carlson \ Carlson West \ Corn \ 70.83	Nitrogen	Primary N	NH3	173.338	Lbs/Ac		Primary N	N Additive - N- Serve			\$894.86 \$4.056.66	



#### 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

Nutrient Plans and Actuals														
Premier Croj	p Systems Nu	utrients A	dd to Plan											Ś
Nutrient	t Applicatio	n Detail:	5											
Premier Cro	op Systems Se	arah T R	Ike Farms	Select a Far	m 202	Load								
Batch assi	ign Application Me	thod	Batch	assign Applica	tion Timing									
Applicat	tion Method	Assign	Арр	lication Timing	• A	ssign								
Nutrient Typ	pe All	-	Crop All	•	Product	- All 💌 Equ	ation - All 💌	Rec Type	All	•				
Filter by fie	eld name													
۲	Include In Plan +	Include In Actual	Hierarchy 🗢	Acres 🗢	Nutrient Type \$	Application Method	Application Timing	Nutrient Avg ≎ Rate	Nutrient Rate ≑ Unit	Equation ¢	User Adjusted ≎	Product 🗢	Rx Deduct ¢ ?	App Zone Name 💠
		~	Hoopes \ Hoopes Hwy 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.

Sandrug Mgrvf		1 <u></u>	* <u></u> ,	3 I						
Contraction of	Filter by aro	p or field		Note: Query colu Column resets' c	mn will get reset wh heckbox. If enrolled i	en a layer with a higher priority n Decision or Analytics, please	gets loaded to that co select a different query	lumn. To view those row	s, select the 'S Is to be availab	how Query ble in
Data Entry & Exchange	Show query	Bill\Bill Home: Edit Nutrie	ent Straight Rate Actual Ap	plication				x		
Records		Products							otes 🗉	App Method
05000000	a ar	Nutrient Type *	Product*	Rate *	Rate Unit *	Cost/unit (\$)*.	Cost Unit *	Cost/Acre (\$) :	J	
Aleman	a e	mogen	1115	102.0	Poundaphere	Total Product Purch	ase Unit Total Cost (\$)	Total N		
105-000						.7. 199	5008	150		
	a e					N Additive	Add Nitr Additive	ogen Additive 💟 cost/ac (\$)		
	ď					N-Serve	ið 5 15	•	ettinoo - 16- Burtoo	ingent.
	e e						Tota 8	l Cost/ac (\$) 2.67		310x Q
	o e	Corn on Corn 34	mp	2-0-0-26S	7.58	Lbs/Ac	Set			Sile-Diesee
	a de	Bill \ Bill West \	2022 Corn	10-34-0 + 1qt			- Constant			