

Production Module: User Guide

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1. Overview

What is the Production Module?

The Production Module helps you track and analyze agricultural data across multiple regions and time periods. Monitor planting trends, crop yields, and production forecasts in one centralized dashboard.

What You Can Do

- **Track Key Metrics** - Monitor area planted, harvested, abandoned, crop yield, and production
 - **Create Forecasts** - Build and compare multiple forecast scenarios
 - **Analyze Trends** - Compare historical data with benchmarks and projections
 - **Customize Views** - Create personalized dashboards with pivot tables and charts

Benefits

- Centralized monitoring of agricultural production across regions and time periods
 - Streamlined forecast management and comparison
 - Flexible data visualization and reporting

2. Getting Started

Prerequisites

Before you begin, ensure you have:

- Active Dnext platform account
 - Appropriate module permissions
 - At least one dataset configured in your account
 - Basic familiarity with pivot tables (helpful but not required)

Quick Start (5 Minutes)

[View existing production data](#):

1. Navigate to Production Module

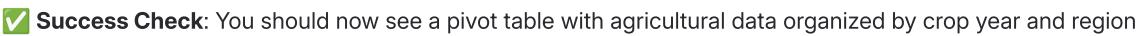
- Hover on the **Fundamentals** in the left navigation menu
 - Click **Production** in the main navigation menu
 - You'll see a list of available productions

2. Open a Production

- Click on any production name
 - The View Mode dashboard opens

3. Explore Your Data

- Use filters to select Origin, Product, or Crop Year
 - Click expand arrows to view regional details



3. Key Concepts

 **Tip:** Understanding these concepts will make the module much easier to use.

SND Items

What it is: An SND item represents a specific agricultural metric you want to track — such as Area Planted, Crop Yield, or Area Harvested. Each item appears as a separate tab in the production view, letting you switch easily between different metrics.

Reporter

What it is: The geographical locations (countries, states, or regions) included in your production

Why it matters: Reporters appear as rows in your pivot table, showing data for each location

Example: For a global wheat production, your reporters might be USA, Canada, France, Australia, etc.

Benchmark vs Reference

What it is:

- **Benchmark:** The main dataset shown in your pivot table. It represents the official, authoritative data, usually it is what we have over our SnD.
- **Reference:** A comparison dataset shown in yellow-highlighted columns

Why it matters: This lets you compare current data against historical baselines or different data sources

Example: Use last year's official data as your benchmark and this year's preliminary estimates as your reference to spot differences

Forecast

What it is: Projected values for future periods or incomplete current periods

Why it matters: Allows you to create multiple "what-if" scenarios and compare them side-by-side

Example: Create three forecasts for next year's corn yield: "Conservative" (5 tons/ha), "Expected" (6 tons/ha), "Optimistic" (7 tons/ha)

Crop Year

What it is: The market year, following the SnD calendar.

Why it matters: Allows you to track changes over time and identify trends

Example: 2023/24, 2024/25, 2025/26 for crops with multi-year growing seasons

4. Understanding View Mode

4.1 Navigation & Settings Section

Purpose: Control what data you see and how it's displayed

When to Use: Every time you open a production to filter, refresh, or customize your view



4.1.1 Production Name & Tabs

- **Location:** Top-left corner of the screen
- **Function:** Shows the current production name; tabs let you switch between SND items

- **How to Use:** Click any tab to view that metric's data
- **Options:** Click + button to create custom tabs (saved in your browser)

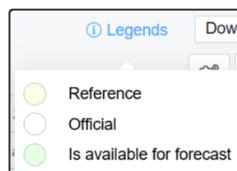
 **Best Practice:** Create custom tabs for frequently accessed combinations of filters and settings

4.1.2 Data Filters

- **Location:** Center of the navigation bar
- **Function:** Narrow down displayed data
- **How to Use:**
 - **Origin:** Select specific countries/regions
 - **Product:** Choose which crop or commodity
 - **Crop Year:** Pick one or multiple years
- **Options:** Multi-select enabled (hold Ctrl/Cmd to select multiple)

4.1.3 Settings Buttons

Legends Button



- **Function:** Shows color coding for forecast cells
- **How to Use:** Hover over the button to see the legend popup
- **Color Meanings:**
 - Yellow = Reference Data
 - White = Official Data
 - Honeydew= Cells available for forecast

Download Button

- **Function:** Exports all aggregated production data
- **How to Use:** Click to download as Excel/CSV
- **File Contents:** Includes all visible data plus hidden rows if regions are collapsed

Refresh Data Button

- **Function:** Updates production with latest data from source datasets
- **How to Use:** Click to pull fresh data
- **When to Use:**
 - After source datasets are updated
 - Before creating important forecasts
 - When data appears outdated

 **Success Check:** A Green Success Message Appear on the top right of the screen

A screenshot of a pivot table interface titled 'USA Soybeans Production'. The table shows production data across various regions and years. The top navigation bar includes filters for 'area_planted', 'crop-yield', 'area_abandoned', 'crop-production', and 'area_harvested'. The table has columns for 'Cropyear start Sep' and years from '2017/18' to '2025/26'. Row groups include 'All origins', 'All products', and 'All cropyears'. A green checkmark icon in the top right corner indicates successful refresh.

View Settings Button

- Function:** Opens configuration panel with three tabs
- How to Use:** Click the gear icon

Tab 1: General Settings

- Zoom:** Adjust table text size (80%-150%)
- Summary:** Show/hide total row at the top
- Regions:** Show/hide regional groupings
- Sources:** Show/hide data source information

Tab 2: Conversion Settings

- Purpose:** Apply multiplication factors to values
- Example:** Convert hectares to acres (multiply by 2.47)
- Per Tab:** Each SND item can have its own conversion

Tab 3: Decimal Settings

- Purpose:** Set decimal places displayed
- Options:** 0-4 decimal places
- Default:** 2 decimal places

A screenshot of the 'Conversion settings' tab in the configuration panel. It displays conversion rules for five SND items: 'area_planted (hectare)', 'crop-yield (Metric Ton per Hectare)', 'area_abandoned (hectare)', 'crop-production (Metric Ton)', and 'area_harvested (hectare)'. Each rule has a multiplier and a divisor. A red arrow points to the 'OK' button in the top right corner.

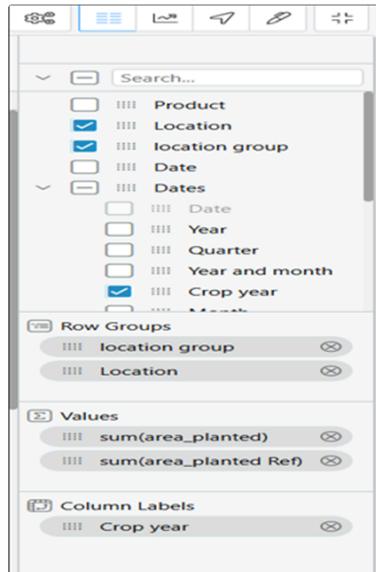
Best Practice: Set conversions once, then save as a custom tab

Columns Button

- Function:** Customize pivot table structure
- How to Use:**
 - Click button to open field list
 - Drag fields between areas:
 - Column Labels:** Data shown as columns (usually crop years)
 - Row Groups:** Data shown as rows (usually origins/regions)

- **Values:** Metrics to display (SND items)

c. Changes apply immediately



Analysis Button

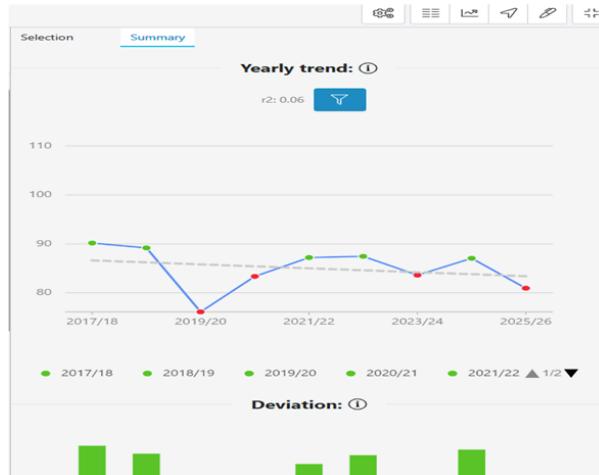
- **Function:** Opens comparison charts
- **How to Use:** Click to view charts in popup window

Selection Tab:

- Shows benchmark vs trend for ONE selected origin
- Displays all available crop years
- **How to Use:** Click a cell in pivot table, then open Analysis

Summary Tab:

- Shows benchmark vs trend for ALL origins combined
- Aggregates data across all crop years
- **Use Case:** Get big-picture trend view



Forecasts Button

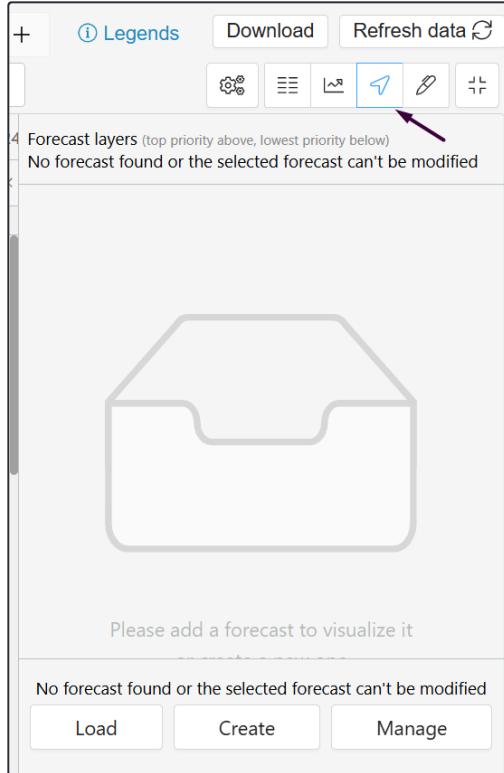
- **Function:** Manage forecast scenarios
- **How to Use:**

- **Load:** Check boxes to display existing forecasts

- **Create:** Click **+ New Forecast**

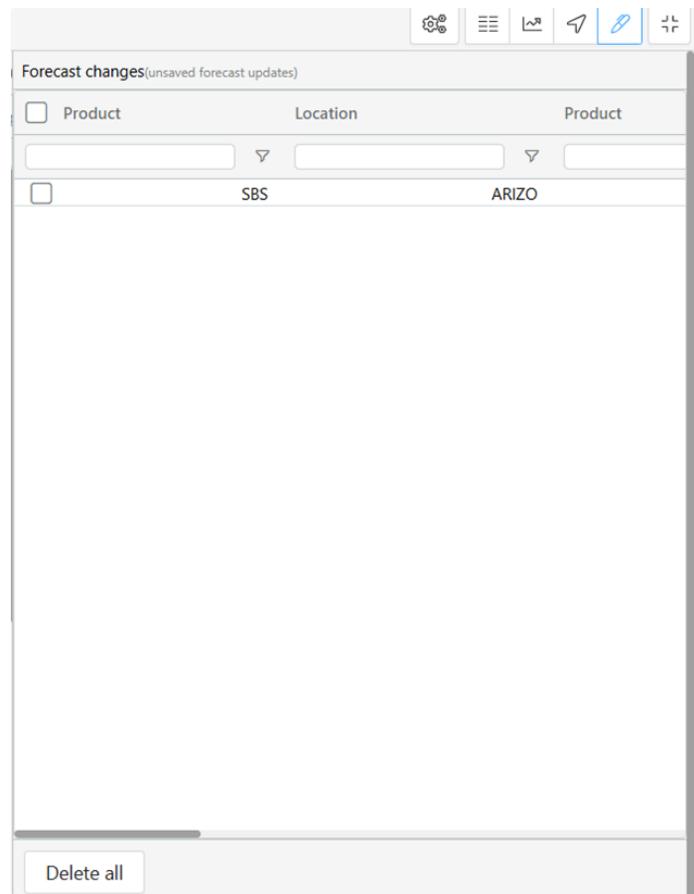
- Enter Name (e.g., "Conservative Estimate")
- Enter Code (e.g., "FC-001")
- Choose Color for identification

- **Manage:** Edit or delete forecasts



Changes Button

- **Function:** Shows audit log of modifications
- **How to Use:** View all changes made to forecasted cells
- **Log Includes:**
 - User who made the change
 - Date and time
 - Cell location (origin, year, item)
 - Old value → New value
- **Options:** Delete specific changes to revert them



Fit To Window Button

- Function:** Auto-sizes the pivot table to fit your screen
- How to Use:** Click once to auto-fit
- Result:** Removes scrollbars and adjusts column widths

💡 Best Practice: Use after applying filters to optimize viewing space

4.2 Pivot Table

Purpose: The main data display area showing your production metrics in rows and columns

When to Use: This is your primary workspace for viewing and analyzing data

	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	1	2025/26
Groups -	90.18	88.17	76.10	83.35	87.20	87.45	83.60	87.05	8	80.92
3 11 MAJOR STATES	71.50	70.57	61.10	66.47	69.85	68.16	66.59	69.03	69.03	65.20
SOUTH DAKOTA	5.65	5.65	3.50	4.95	5.45	5.10	5.10	5.45	5.45	5.10
MISSOURI	5.65	5.65	4.45	5.75	5.75	5.45	5.45	5.80	5.80	5.60
IOWA	10.00	9.95	9.20	9.45	10.10	10.10	9.95	10.05	10.05	9.40
KANSAS	5.15	4.75	4.55	4.80	4.85	5.05	4.43	4.53	4.53	4.10
MINNESOTA	8.13	7.75	6.85	7.45	7.65	7.45	7.35	7.40	7.40	7.00
MONTANA	3.70	3.55	4.95	3.20	5.69	3.75	3.25	3.50	3.50	3.80
ILLINOIS	10.60	10.80	9.95	10.30	10.60	10.80	10.35	10.80	10.80	10.30
NORTH DAKOTA	7.10	6.90	5.60	5.75	7.25	5.70	6.20	6.60	6.60	6.60
OHIO	5.10	5.05	4.80	4.95	4.90	5.10	4.75	5.05	5.05	4.90
WISCONSIN	2.15	2.22	1.75	2.02	2.10	1.94	2.11	2.15	2.15	2.00
INDIANA	5.95	6.00	5.40	5.75	5.65	5.85	5.50	5.80	5.80	5.40
OTHER STATES	18.66	18.60	15.00	16.88	17.35	18.29	17.01	18.02	18.02	15.72
VERMONT	1.90	1.95	1.70	1.95	1.85	1.95	1.83	2.05	2.05	1.80
FLORIDA	0.00	0.00	0	0	0	0	0	0	0	0
WASHINGTON	0.00	0	0	0	0	0	0	0	0	0
4 NEW YORK	0.27	0.34	0.23	0.32	0.31	0.35	0.31	0.37	0.37	0.32
5 APPLY FILTERS	2.23	2.33	1.94	2.20	2.15	2.25	2.04	2.20	2.20	2.00
NEW JERSEY	0.10	0.11	0.10	0.09	0.10	0.11	0.10	0.10	0.10	0.10
TENNESSEE	1.69	1.70	1.40	1.65	1.55	1.65	1.60	1.82	1.82	1.55
CAROLINA'S	1.70	1.65	1.54	1.60	1.65	1.70	1.64	1.62	1.62	1.65
VA	0.60	0.60	0.57	0.57	0.60	0.62	0.58	0.61	0.61	0.60
OKLAHOMA	0.66	0.64	0.47	0.47	0.56	0.55	0.46	0.51	0.51	0.38
ALASKA	0.34	0.34	0.27	0.29	0.31	0.36	0.35	0.36	0.36	0.29
PENNSYLVANIA	0.61	0.64	0.62	0.64	0.60	0.60	0.57	0.61	0.61	0.56
IDAHO	0	0	0	0	0	0	0	0	0	0

Key Components

Expand Reference Button

- Location:** Top-left of pivot table

- **Function:** Shows/hides reference columns (highlighted in yellow)
 - **How to Use:**
 - Click to reveal reference data
 - Click again to hide
 - **Visual:** Reference columns appear with yellow background
-

Summary Row

- **Location:** Top row of data section
- **Function:** Displays totals for each crop year across all origins
- **Calculation:** Automatic sum for current SND item
- **Toggle:** Can be hidden in General Settings

Example:

1	Summary		2023		2024		2025	
2	Area		15,000		16,200		17,500	

Region Divider

- **Location:** Throughout the row list
- **Function:** Groups origins by geographical region
- **How to Use:**
 - Click region name to expand/collapse
 - View regional totals
- **Toggle:** Can be hidden in General Settings

Example Structure:

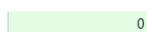
1	▼ North America (Total: 8,500)	
2	↳ USA: 7,000	
3	↳ Canada: 1,500	
4	▼ Europe (Total: 12,300)	
5	↳ France: 4,200	
6	↳ Germany: 3,100	

Forecastable Cells

- **Visual:** Color-coded based on status
- **Function:** Indicates cells where you can enter forecast values
- **How to Use:** Click any colored cell to modify its value
- **Color Guide:** Hover over Legends button for current color scheme

Example :

- **Forecastable Cell :**



⚠ Note: Color of the Cell may change depending on the color you chose for your forecast:

- **Official data cell :**



⚠ Note: All cells can be forecasted in the absence of official data

Reference Column

- **Visual:** Yellow-highlighted columns next to each crop year
 - **Function:** Shows comparison data from your reference dataset
 - **Use Case:** Quickly spot differences between benchmark and reference
 - **Example:** Compare preliminary estimates (benchmark) against last year's final data (reference)
-

4.3 Bottom Section

Purpose: Access configuration and priority rules

Configuration Button

- **Function:** Opens production setup page
- **How to Use:** Click to modify production settings
- **Takes You To:** Configuration page with 5 tabs:
 - a. Base Settings
 - b. Configuration
 - c. Content & Sources
 - d. Forecasts
 - e. Scheduling

 **When to Use:** After creating a production, come here to fine-tune settings

Priority Rules Button

- **Function:** Opens dataset priority configuration
- **How to Use:** Click to define which datasets are used as benchmark/reference
- **Takes You To:** Priority Rules page organized by reporter

 **Important:** You must configure priority rules before data appears in your production

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5. Creating Your First Production

Goal: Create a production to track corn area and yield across multiple countries

Time: 15-20 minutes Difficulty: ★★★★☆☆

Step 1: Initiate Production Creation

1. Navigate to **Production Module** from main menu
2. Click **Create a New Production** button (top-right corner)
3. The Base Settings page opens

✓ Checkpoint: You should see a form with fields for Name, Code, Labels, etc.

Step 2: Configure Base Settings

Enter the following information:

Field	What To Enter	Example
Name	Descriptive name for this production	"Global Corn Production 2025"
Code	Unique identifier (no spaces)	"PRD-CORN-2025"
Labels	Existing label (contact support to create new ones)	"Grains"
Origin	Geographic scope	"Global" or specific country
Period	Time range covered	"2020-10-01⇒2026-10-01"
View Date	Time range displayed in the view mode	"2023-10-01⇒2025-10-01"
Forecastable	<input checked="" type="checkbox"/> Check to enable forecasting	Checked
Display ROW	<input checked="" type="checkbox"/> Check to show "Rest of World"	Checked

💡 Best Practice: Use consistent naming conventions like "PRD-[CROP]-[YEAR]" for easier organization

Click **Next** to proceed to Configuration

Step 3: Select SND Items

SND Items are the metrics you want to track.

1. In the **SND Item** section, you'll see a list of available items
2. Check the boxes for items you want to include:
 - Area Planted
 - Area Harvested
 - Crop Yield
 - Crop Production
 - Area Abandoned
3. Click on the “>” Button to bring them to the right panel

✓ Checkpoint: Selected items appear on the right panel

3. Click **Next** to configure each item

Step 4: Configure Each SND Item

You'll configure each selected item individually.

Example For "Area Abandoned":

1. **Enable Forecast:** Check (allows forecasting future values)
2. **Is National Undefined the Sum of Each Region:**
 - Check if national = sum of all regions
 - Uncheck if using a formula or separate dataset
3. **Formula:** Leave blank (unless calculating from other items)
 - Example for Area Abandoned : `(Area harvested - Area planted) / Area harvested`
4. **Quantity Divisor:** Enter the divisor
 - Example : use **1000** to convert to thousands
5. **Unit:** Enter the unit
 - Example : use **Percent** for Area Abandoned

Repeat for other items

Click Next when all items are configured

Step 5: Select Content & Sources

5.1 Choose Reporters (Geographic Locations)

The screenshot shows a user interface for selecting reporters. On the left, a list of reporter categories is shown, and on the right, a list of major US states with checkboxes. A blue header bar at the top right says "Add a new folder".

Left Panel: Available reporters **Right Panel:** Selected reporters

1. Find reporters in the left panel
2. Check the boxes next to desired countries:
 - United States
 - Brazil
 - Argentina
 - China
 - Ukraine
3. Click the → arrow button to move them to the right panel

Organize into Regional Groups:

1. Click **Add a New Folder**
2. A folder named "New Folder" appears
3. Click the **edit icon** (✎) and rename it "Americas"
4. Drag USA, Brazil, Argentina into the "Americas" folder
5. Create another folder "Asia" and add China
6. Create "Europe" folder and add Ukraine

Checkpoint: Your selected reporters should be organized in regional folders

💡 Best Practice: the most efficient way here is to create the desired regional groups , then select the reporters. And Even if you have made mistakes you can just drag the reporter to the correct regional group

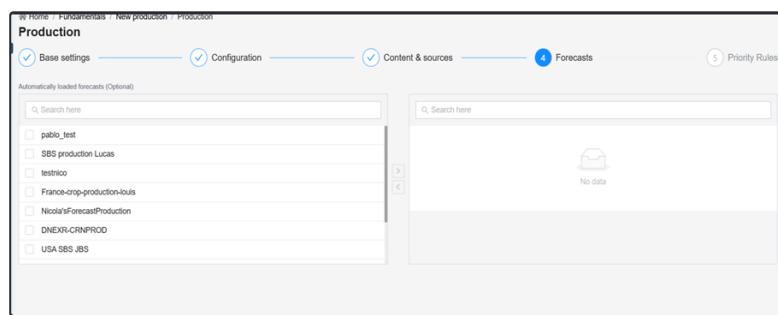
5.2 Select Products

The screenshot shows a user interface for selecting products. On the left, a list of product categories is shown, and on the right, a list of specific products. A blue header bar at the top right says "Add a new folder".

1. In the **Products** section, check the box for:
 - Corn
2. If tracking multiple varieties, you can select:
 - Yellow Corn
 - Corn - White

Click Next to proceed to Forecasts

Step 6: Choose Default Forecasts



This determines which forecasts load automatically when you open this production.

1. Check forecasts you want loaded by default:

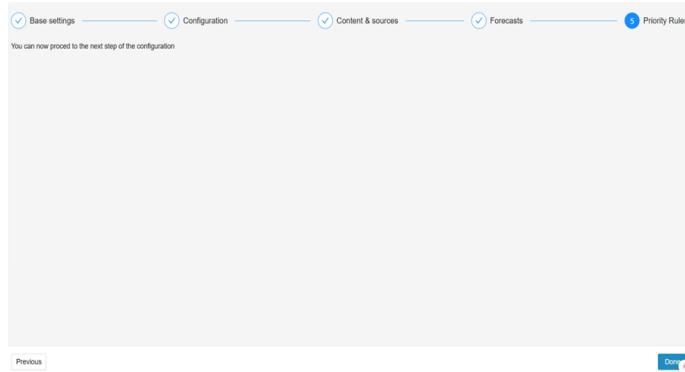
- USDA Official Forecast
- Internal Estimate Q1
- Other forecasts (load manually when needed)

💡 Tip: Only select frequently used forecasts. You can always load others manually from View Mode.

Click Next to proceed to Priority Rules

Step 7: Configure Priority Rules

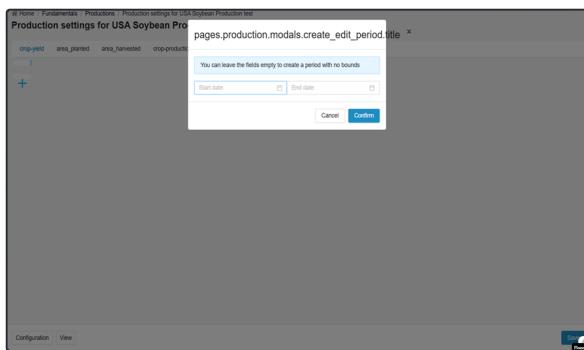
This is the most critical step - it determines which datasets appear in your pivot table.



You'll see:

- Tabs for each SND Item (Area Planted, Crop Yield, etc.)
- Each reporter (USA, Brazil, etc.) has its own configuration

Configure Period Settings



Choose your approach:

Option A: Single Period (No Bounds)

- One configuration covers all time periods
- Simpler but less flexible

Option B: Multiple Defined Periods

- Different configurations for different time ranges
- More flexible but requires more setup

For Each Reporter (e.g., "United States"):

1. Add Datasets

- Click **+ Add Dataset** (top-right)
- Select your data source from the dropdown
- Example: "USDA NASS Corn Data"
- The dataset appears in the **Available** section

2. Assign to SND (Benchmark)

- Drag the dataset from **Available** to **SND Section**
- This becomes your main data displayed in the pivot table

3. Assign to Reference (Optional)

- If you have a comparison dataset, drag it to **As Reference Section**
- This creates the yellow-highlighted reference columns
- Example: Use previous year's final data as reference

4. Set Finalization Rules

- For each dataset, choose when values cannot be changed:

Option	Meaning	Example Usage
Never Finalized	Always editable	For internal estimates
Always Finalized	Cannot change or forecast	For official published data
Conditional	Finalized based on criteria such as <ul style="list-style-type: none"> • Publication Date • Cut-off Date • User validation within the production view mode 	For preliminary data that becomes final

Conditional Options:

- **Publication Date:** Finalizes after dataset publishes
- **Cut-off Date:** Finalizes after specific date
- **User Validation:** You manually mark as final in View Mode

💡 Best Practice:

- Historical data → Always Finalized
- Current year → Conditional (Publication Date)
- Future years → Never Finalized (for forecasting)

Example Configuration for USA - Area Planted:

SND (Benchmark):	As Reference:
 USDA NASS Corn Area Finalization: Conditional - Publication Date	 USDA Previous Season Final Finalization: Always Finalized

 **Checkpoint:** Each reporter should have at least one dataset in the SND section

Repeat for all reporters:

- Brazil
- Argentina
- China
- Ukraine

 **Important:** If you don't configure a reporter, it won't show data in the production

5. Configure Other SND Items

Switch to the next tab (e.g., "Crop Yield") and repeat the priority rules setup.

Time-Saving Tip: If using the same datasets across items, the configuration will be similar.

Step 8: Finalize and Save

1. Review all configurations
2. Click **Done** at the bottom of the page
3. You'll be redirected to the Priority Rules summary page
4. Click **Save Production** (top-right corner)

 **Success:** Your production is now created! You'll be taken to View Mode.

What You Should See

After creation, your production opens in View Mode displaying:

- Tabs for each SND item (Area Planted, Crop Yield, etc.)
- Pivot table with:
 - Regional groups (Americas, Asia, Europe)
 - Countries under each region
 - Crop years as columns
 - Data values in cells
- Filters at the top
- Settings buttons

 **Congratulations!** You've created your first production.

Next Steps

Now that your production is created:

1. **Explore the data:** Click through tabs and expand regions
 2. **Create a forecast:** Use the Forecasts button to add projections
 3. **Analyze trends:** Click Analysis to view charts
 4. **Schedule refreshes:** Go to Configuration > Scheduling to automate updates
-

6. Troubleshooting

Issue 1: No Data Appears in Pivot Table

Symptoms: Empty cells or "No data" Error message

Causes:

- Priority rules not configured
- Loaded datasets in the priority rules do not have data
- Date range doesn't match data availability

Solutions:

1. Check Priority Rules:
 - Click **Configuration** button
 - Navigate to Priority Rules
 - Ensure each reporter has datasets in SND section
 - ensure the dataset has data that matches with the reporter , product & time range
2. Verify Filters:
 - Clear all filters temporarily
 - Check if data appears

3. Refresh Data:
 - Click **Refresh Data** button
 - Wait for completion message
 4. Check Date Range:
 - Ensure View Date in Base Settings covers available data periods
-

Issue 2: Cannot Forecast Data

Symptoms: cells not clickable

Causes:

- Forecastable option disabled in Base Settings

Solutions:

1. Check Base Settings:
 - Click **Configuration** button
 - Go to Base Settings tab
 - Ensure **Forecastable** is checked
 - Save changes
 2. Check Finalization Rules:
 - Go to Priority Rules
 - Review Finalization Settings for that reporter
 - If "Always Finalized", change to "Never Finalized" for future periods
-

Issue 3: Reference Columns Showing Empty Cells

Symptoms: Empty cells in the Reference Column

Causes:

- No reference dataset assigned
- Reference dataset has no data for visible period

Solutions:

1. Click Expand Reference Button (top-left of pivot table)
 2. Check Priority Rules:
 - Go to Priority Rules page
 - Verify datasets are in "As Reference" section
 - If empty, add a dataset then drag & drop it there
 3. Verify Data Availability:
 - Ensure reference dataset covers the crop years in view
-

Issue 4: Calculations Seem Wrong

Symptoms: Totals don't match, formulas giving unexpected results

Causes:

- Incorrect formula in Configuration

Still Encountering issues or want more assistance? Please Contact support@dnex.io