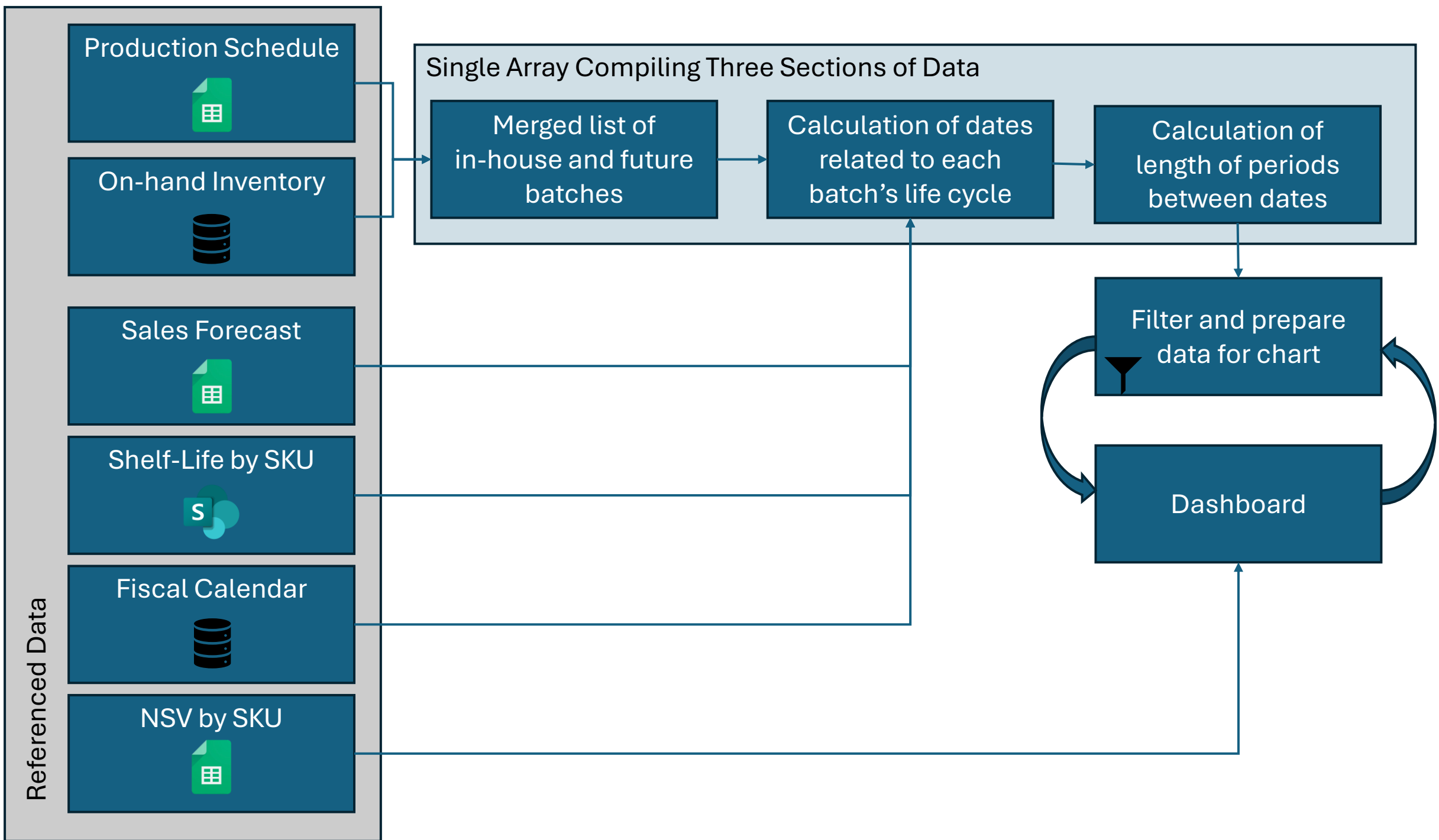


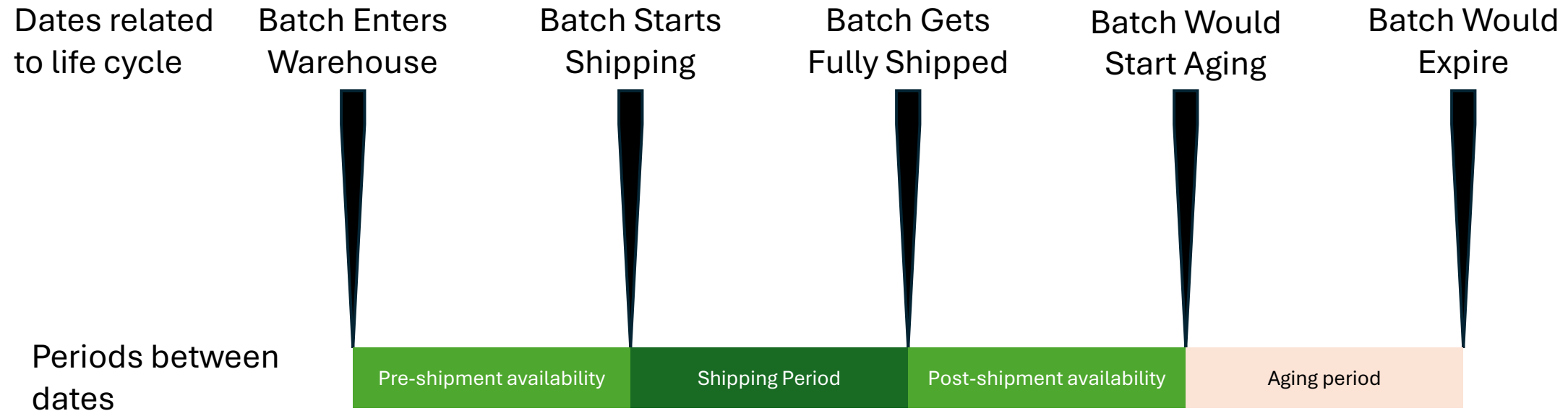
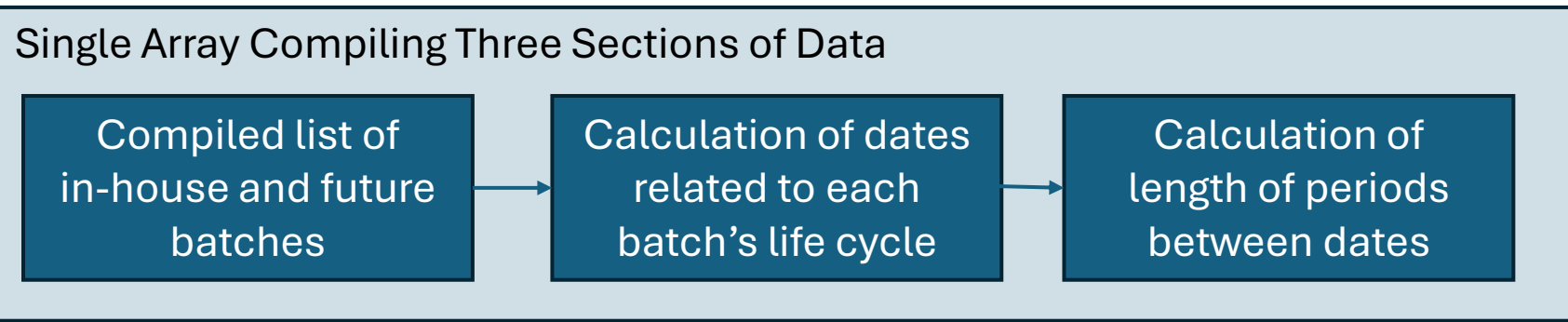
# Data Structure

Shows the data that is merged to create the final product

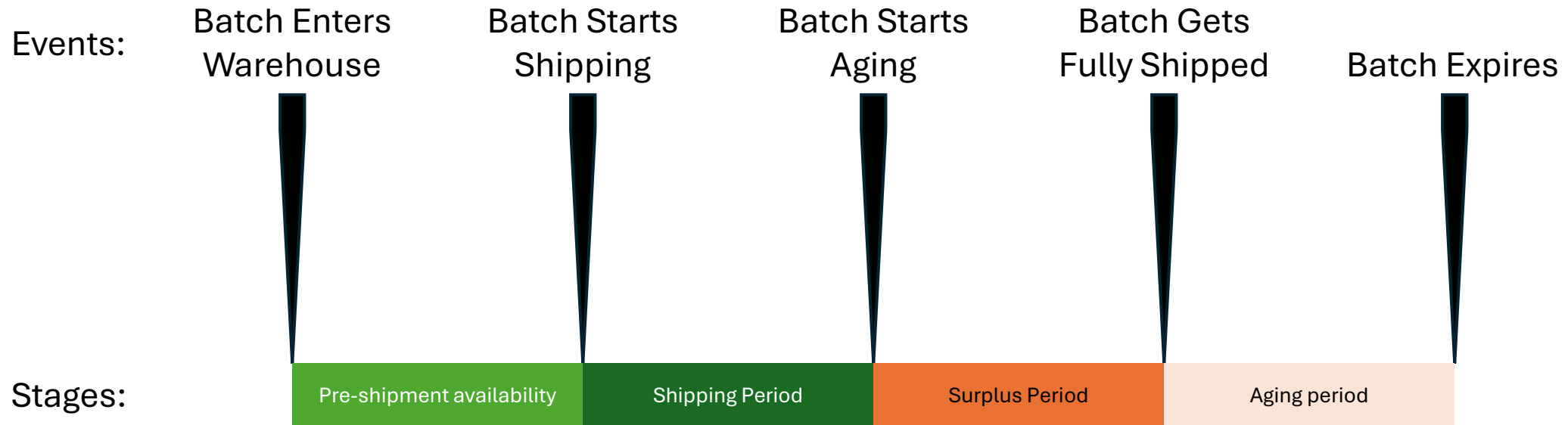


# Batch Lifecycle at a DC

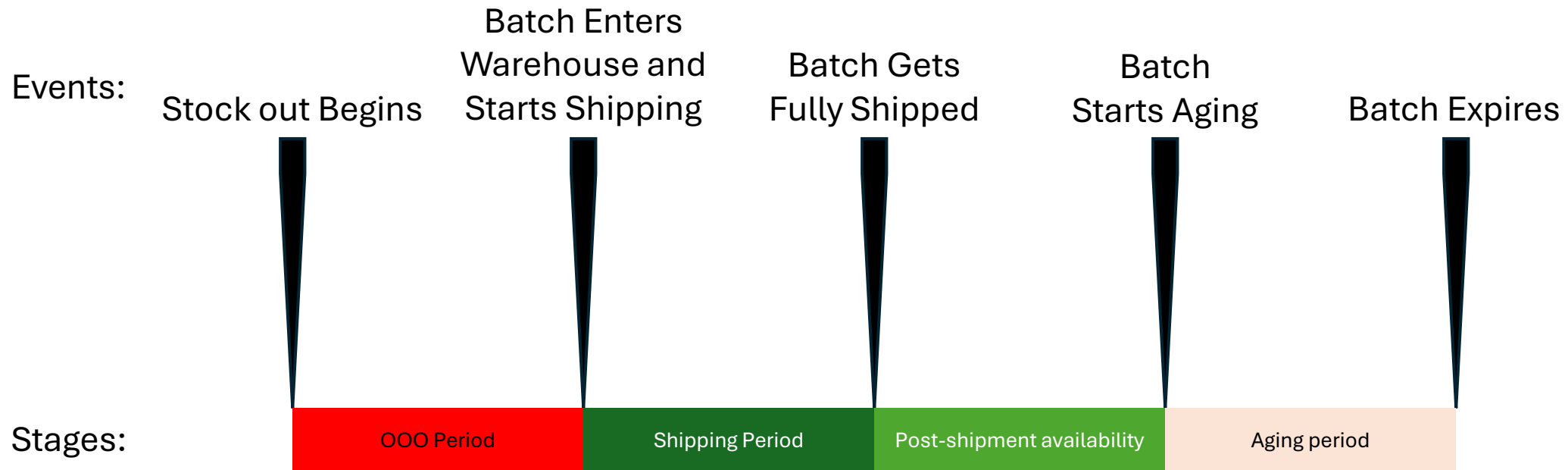
Shows how a batch's lifecycle is represented on the dashboard



# Batch's Lifecycle at a DC: Surplus Scenario



# Batch's Lifecycle at a DC: Stock Out Scenario



**Suplus Forecast by SKU and Lot  
- and -  
Shipment Simulator**

### Select Productions by Date Range

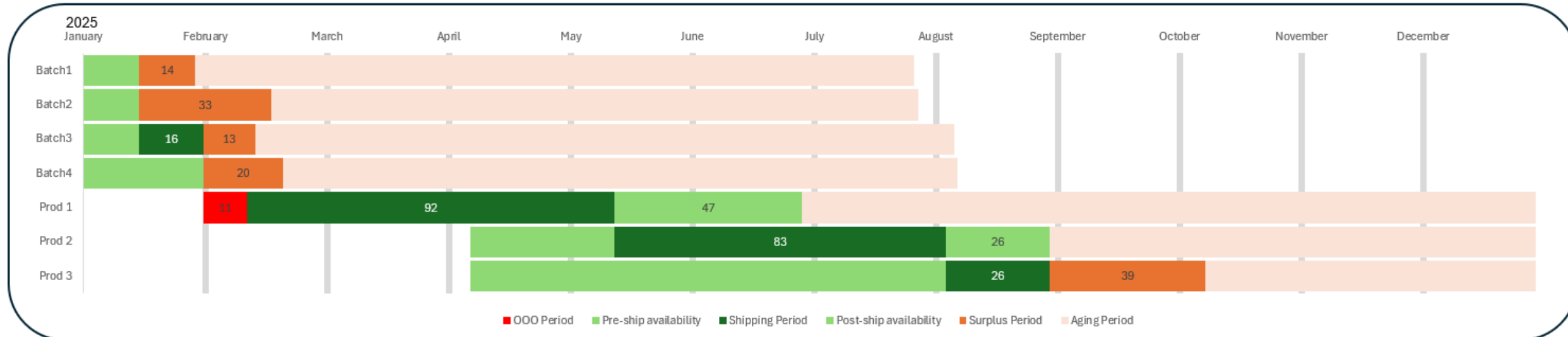
Start	1/5/25
-------	--------

Start	1/6/25
End	7/27/25

Select SKU:

Anonymous Product

Max Table Results: 14

[illegible]

**Suplus Forecast by SKU and Lot  
- and -  
Shipment Simulator**

### Select Productions by Date Range

Start	1/5/25
-------	--------

Start	2/18/25
End	7/27/25

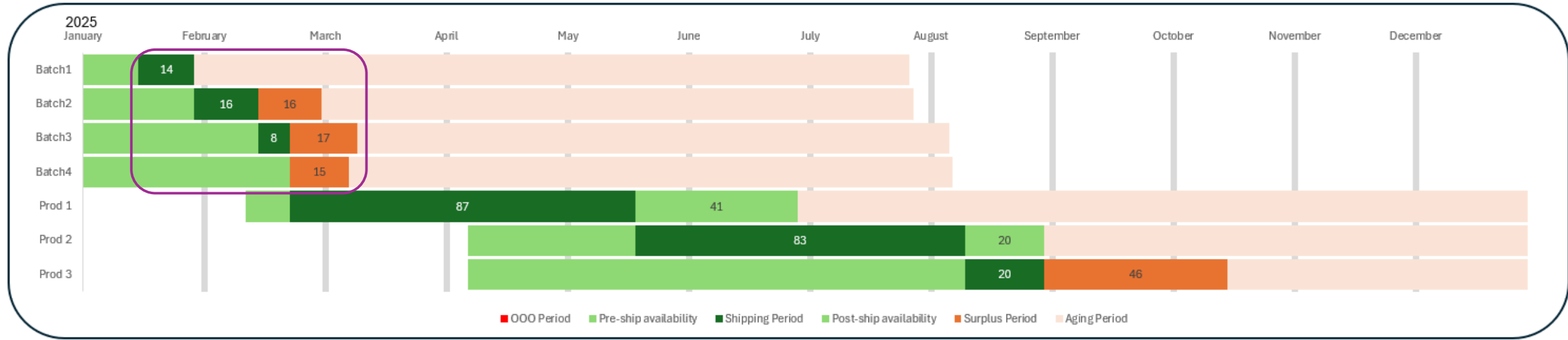
Select SKU:

Anonymous Product

Max Table Results: 14

[illegible]

Totals:	3,294 CV	11,385 CV	\$ 25,668.71
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**Suplus Forecast by SKU and Lot  
- and -  
Shipment Simulator**

### Select Productions by Date Range

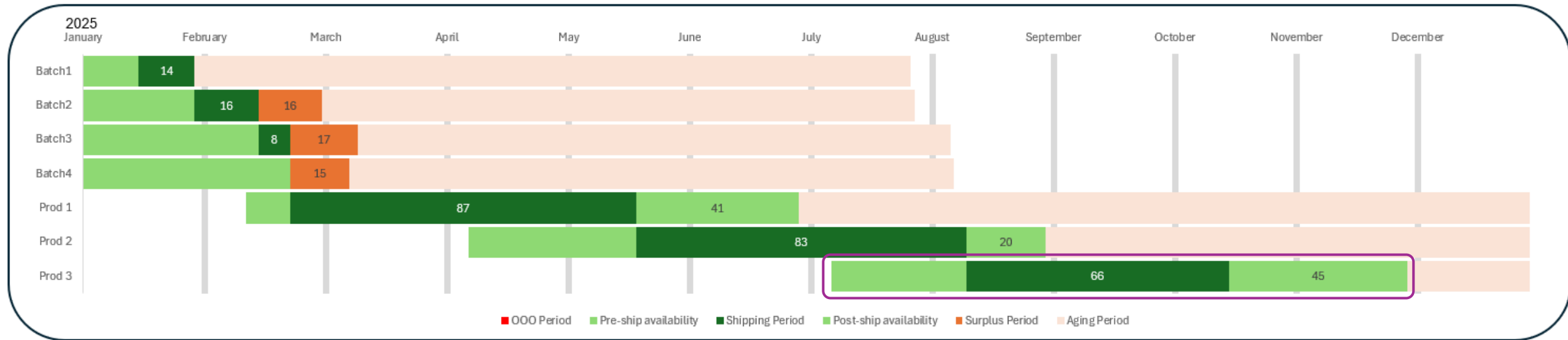
Start	1/5/25
-------	--------

End	7/27/25
-----	---------

Select SKU:

Anonymous Product

Max Table Results: 14

[illegible]

# Calculation of the Fully Shipped date

## Step 1: Sales in First Month

### Calculation

$\text{MIN}(\text{Batch qty}, (\text{Net Workdays} / \text{Start Month Total Workdays}) * \text{Start Month Sales Forecast})$

Net Workdays = Start Date to Fiscal Calendar Month End

$\text{MIN}(5000, (\text{Jan 15 to Feb 2} / 25) * 2000)$

$\text{MIN}(5000, (13/25) * 2000)$

$\text{MIN}(5000, 1040)$

= 1040

### Referenced Data

Fiscal Calendar Data For Jan	
Total Workdays	25
Next Month Start	Feb 2

Sales Forecast by Month	
January	2,000 CV

Compiled List of Batches	
Batch qty	5,000 CV
Start Date	Jan 15

# Calculation of the Fully Shipped Date

## Step 2a: Months Shipped

### Referenced Data

#### Compiled List of Batches

Batch qty	5,000 CV
Start Month	January

#### Previous Calculation

Sales in Jan	1,040 CV
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#### Sales Forecast by Month

January	2,000 CV
February	3,000 CV
March	3,000 CV
April	2,000 CV

### Calculation

Sales in Jan + Sales in Feb + Sales in March > Batch Qty

$1,040 + 3,000 + 3,000 > 5,000$

So, Months to sell in = 3

Scan until Batch qty < Running Sum of Sale Forecast

# Calculation of the Fully Shipped date

## Step 2b: Sales in Middle Month(s)

### Referenced Data

#### Previous Calculations

Months Shipped	3
Start Month	January

#### Sales Forecast by Month

January	2,000 CV
February	3,000 CV
March	3,000 CV
April	2,000 CV

### Calculation

If *Months Shipped* > 2, scan to sum *Months Shipped* – 2 after *Start Month*

If 3 > 2, scan to sum 3 – 2 months after January

Scan to sum 1 month after January

= 3,000 CV

# Calculation of the Fully Shipped date

## Step 3: Sales in Last Month

### Referenced Data

#### Compiled List of Batches

Batch qty	5,000 CV
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#### Previous Calculations

Months Shipped	3
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Sales in 1 <sup>st</sup> Month	1,040 CV
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Sales in Middle Month(s)	3,000 CV
--------------------------	----------

### Calculation

If *Months Shipped* = 1,  
Sales in 1<sup>st</sup> Month

Else

Batch Qty – (Sales in 1<sup>st</sup> month + Sales in Middle Month(s))

= Batch Qty – (Sales in 1<sup>st</sup> month + Sales in Middle Month(s))

= 5000 – (3000 + 1040)

= 960

# Calculation of the Fully Shipped Date

## Step 4: Fully Shipped Date

### Referenced Data

#### Previous Calculations

Months Shipped	3
Sales in Last Month	960

#### Fiscal Calendar Data For Mar

Total Workdays	20
Month Start Date	Mar 2

#### Sales Forecast by Month

March	3,000 CV
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### Calculation

Fully Shipped Date = Start Date + Workdays

If Months Shipped != 1, Start Date = Last Month Start Date

Else Start Date = Shipping Start Date

Since Months Shipped = 3, Start Date = Mar 2

Workdays = (Sales in Last Month / March Forecast) \* Workdays in March

\*embedded is a logical operator like the one above to identify the month is March

Workdays = (960 / 3,000) \* 20

Workdays = 6.4

Fully Shipped Date = Mar 2 + 6.4

Fully Shipped Date = Mar 11