



Optimization and Reporting of Yogurt Filler Priming

Chloe Soejima

Process Engineer

Chobani



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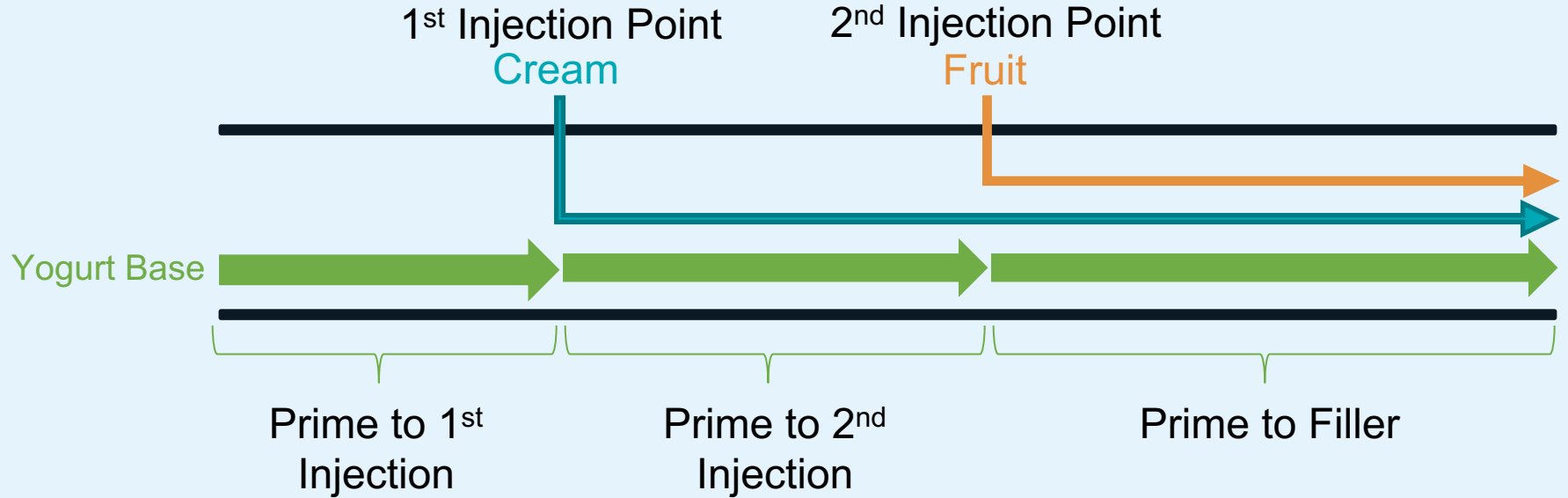
connect

Chobani® Fast Facts

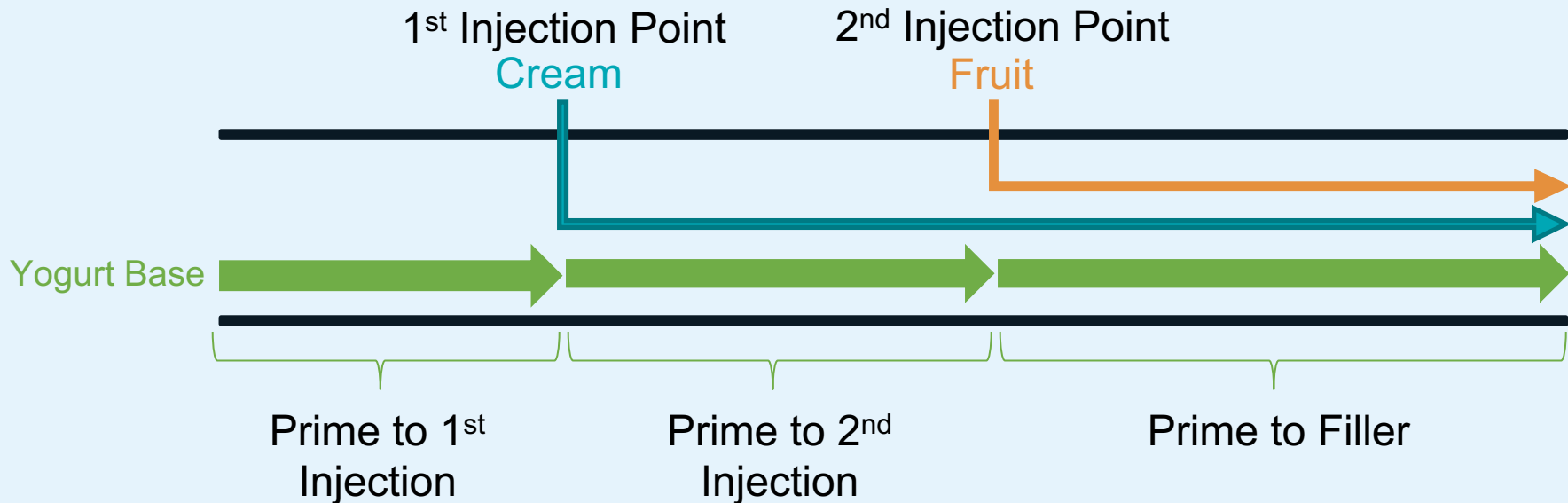
- Founded 2005
- 3000+ Employees
- Largest Facility in Twin Falls, ID
- Greek Yogurt, Oat Milk, Dairy-based Coffee Creamers, RTD Coffee Beverages



Priming Sequence



Priming Sequence



1 Reprime = about 500 lbs product lost



Impact of a Reprime

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500 lb
per occurrence



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Impact of a Reprime

Chobani.

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1,800



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Impact of a Reprime

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Impact of a Reprime

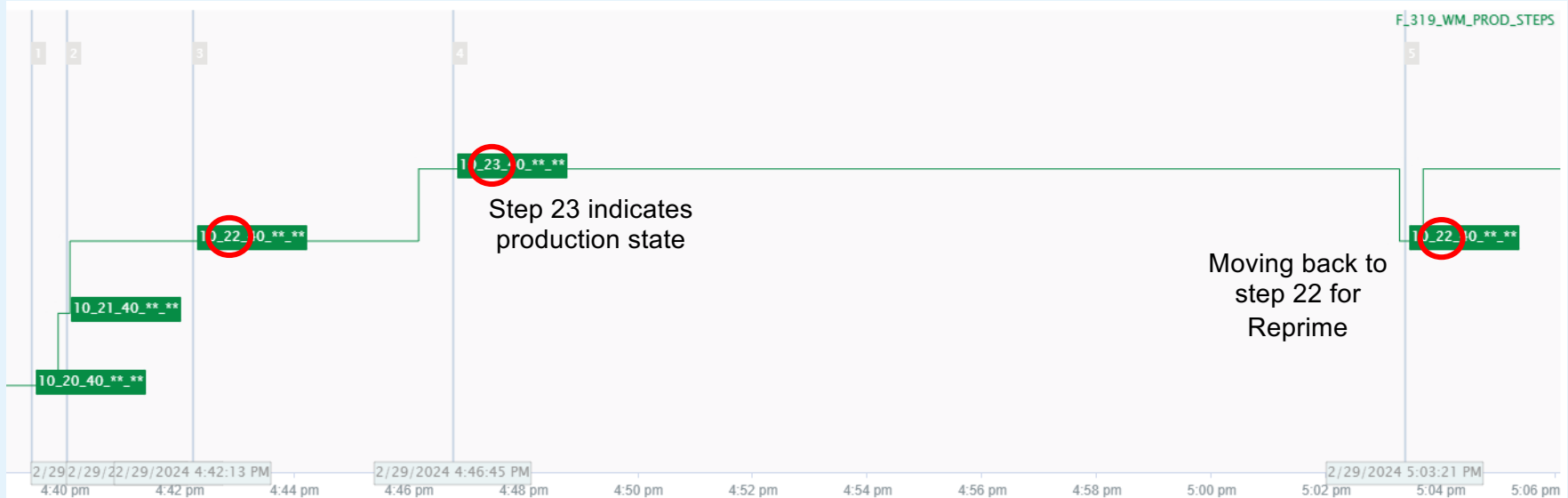
Chobani.

500 lb
per occurrence



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The Original Reprime



How would someone know a reprime happened?

- Checking old documents
- Reviewing accounts from multiple operators



Time for Seeq to Shine!

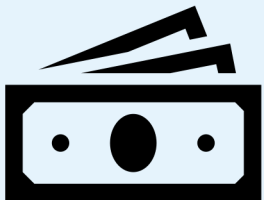
CHALLENGE

- Reduce product waste by preventing the occurrence of reprimers
- Create a reliable way to communicate the occurrence of reprimers

SOLUTION

- Track and visualize the priming process
- Automatically send reprime counts to supervisors

RESULTS



Time for Seeq to Shine!

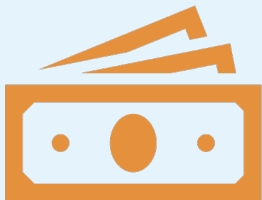
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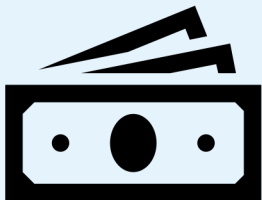
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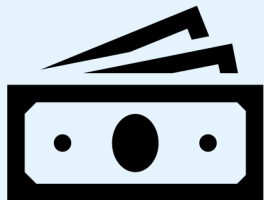
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SOLUTION

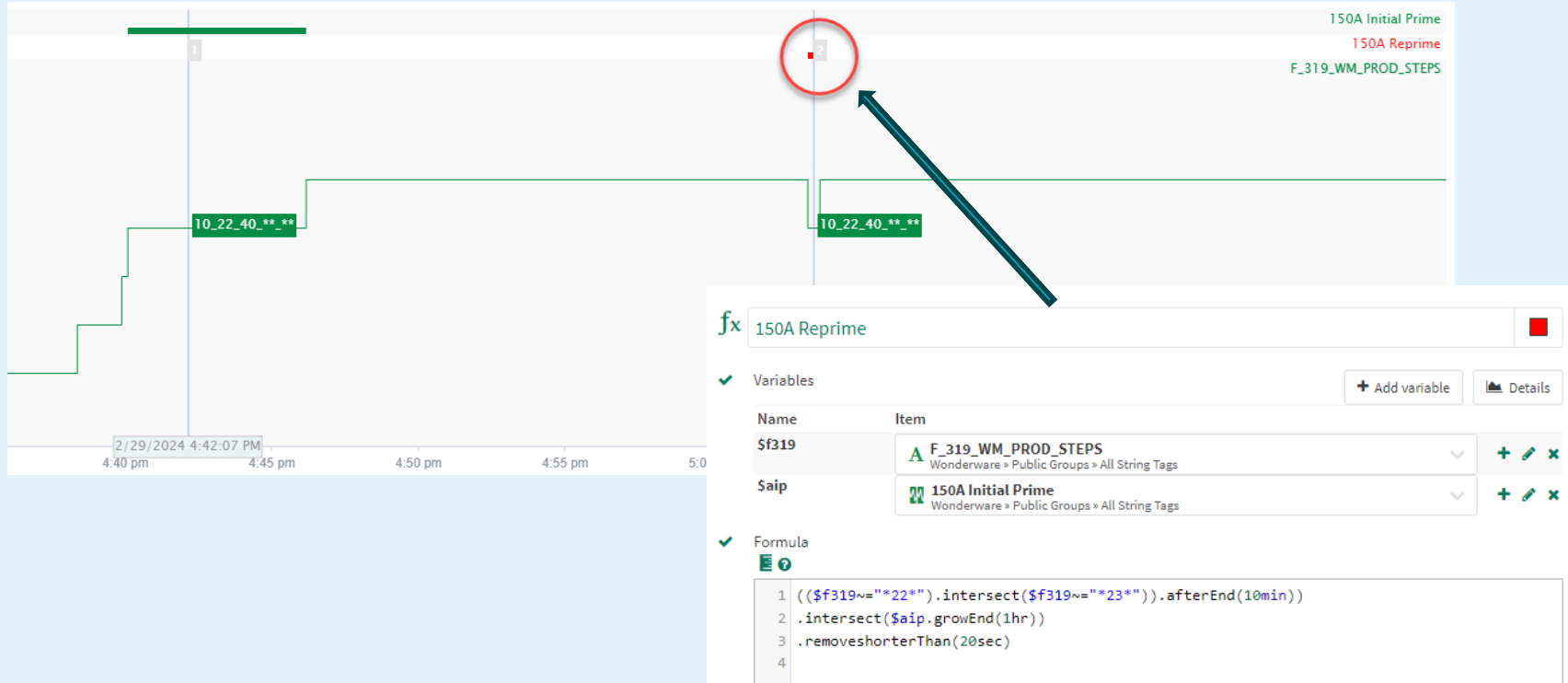
- Track and visualize the priming process
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RESULTS



The Reprime Capsule

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Benefits of Using the Formula

In theory, you could use the *Identify* and *Quantify* tools for nearly all simple calculations, BUT

- Using a formula allows for easier customization
- Using a formula allows for easier bug troubleshooting

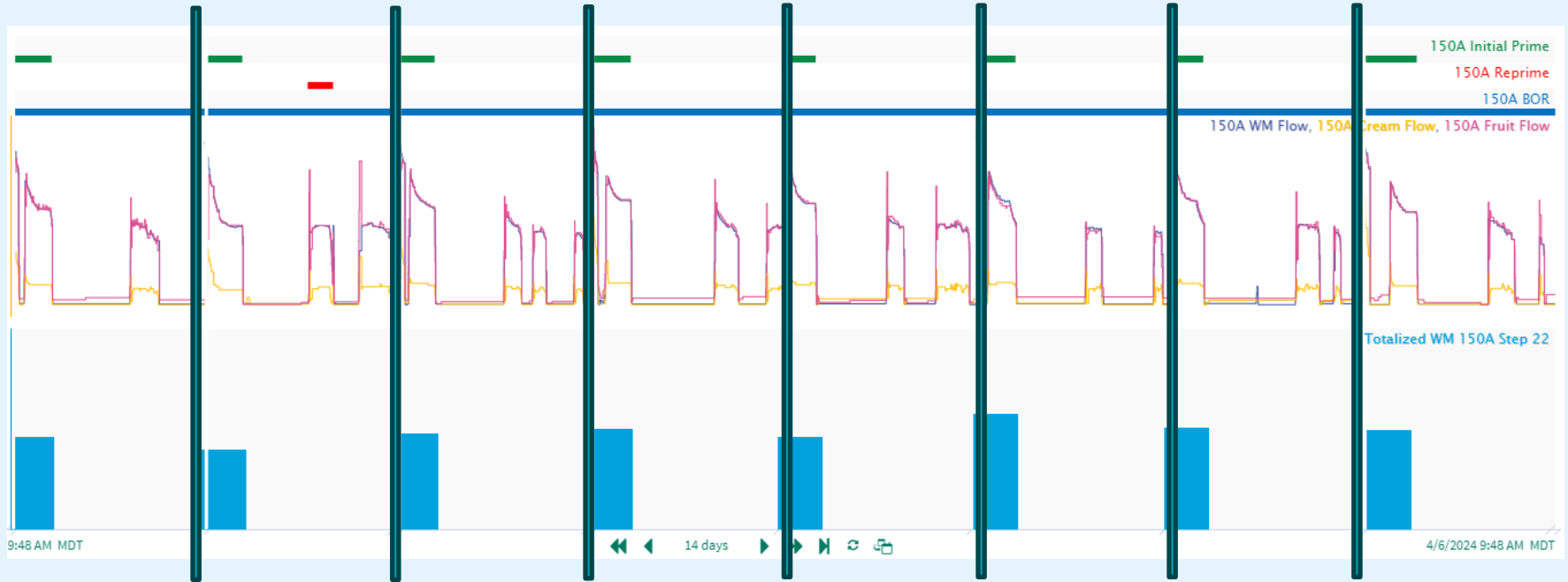
Formula

```
1 $s22.intersect($s23.afterEnd(10min))
2 .merge(1s,true)
3 intersect($n20i.afterEnd(1hr))|
```



New Priming Visuals

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Looking at two weeks worth of data



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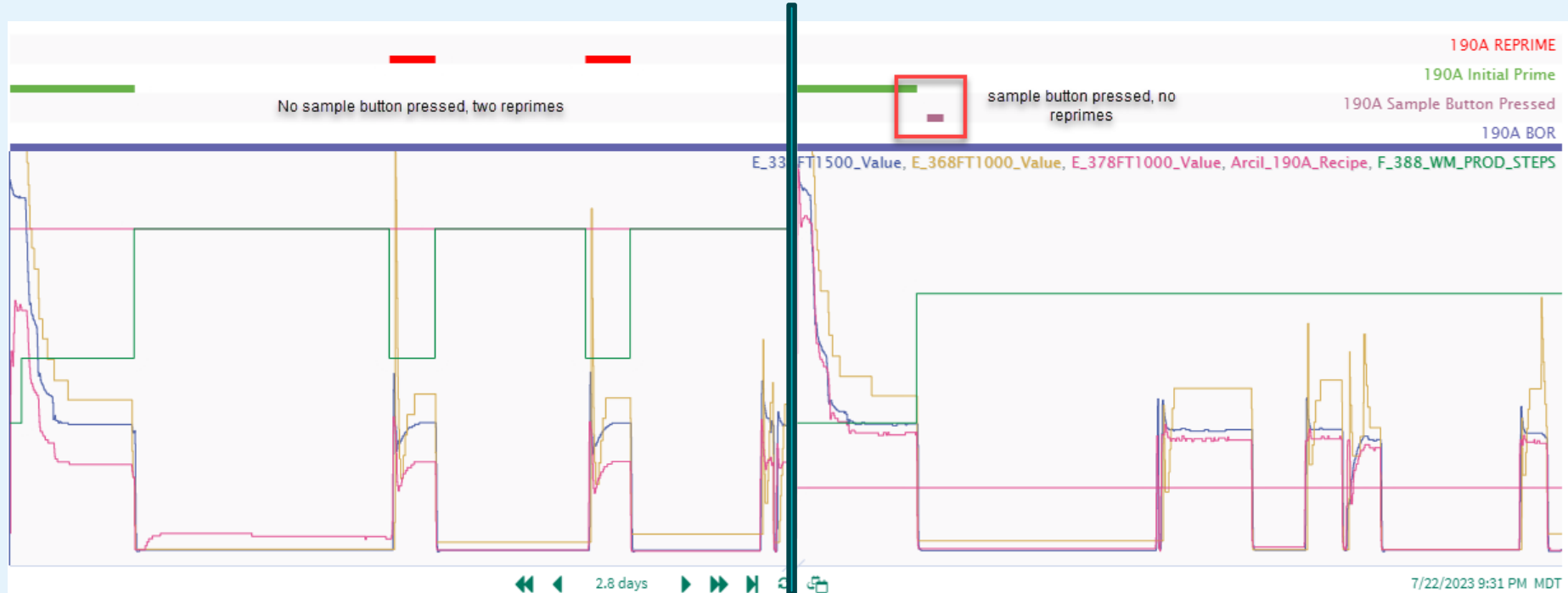
Prime Troubleshooting Visuals

Dosing Flows



Faulty Samples / No Samples

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Reduced Initial Quantity



Results - Common Reprime Root Causes

- Loss of injection material flow
- Reduced quantity of material moved to filler
- Sending product forward before getting sample validated

Visualizing and condensing data empowers leaders to identify issues and propose solutions



How do I communicate this:



To someone who doesn't use Seeq?

(or even a Seeq user who just needs the event summary)



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To someone who doesn't use Seeq?
(or even a Seeq user who just needs the event summary)



Part 1 – Build the Workbench

fx 150A Initial Prime

Variables

Name	Item
\$f319	F_319_WM_PROD_STEPS Wondeware > Public Groups > All S tring Tags

Formula

```

1 (($f319~="*22~").intersect(($f319~="*20~")
2 .growEnd(10min)))
3 .removeShorterThan(10sec)
4 .subtract(($f319~="*23~").removeShorterThan(15
5 .growEnd(30min))
    
```



fx 150A Reprime

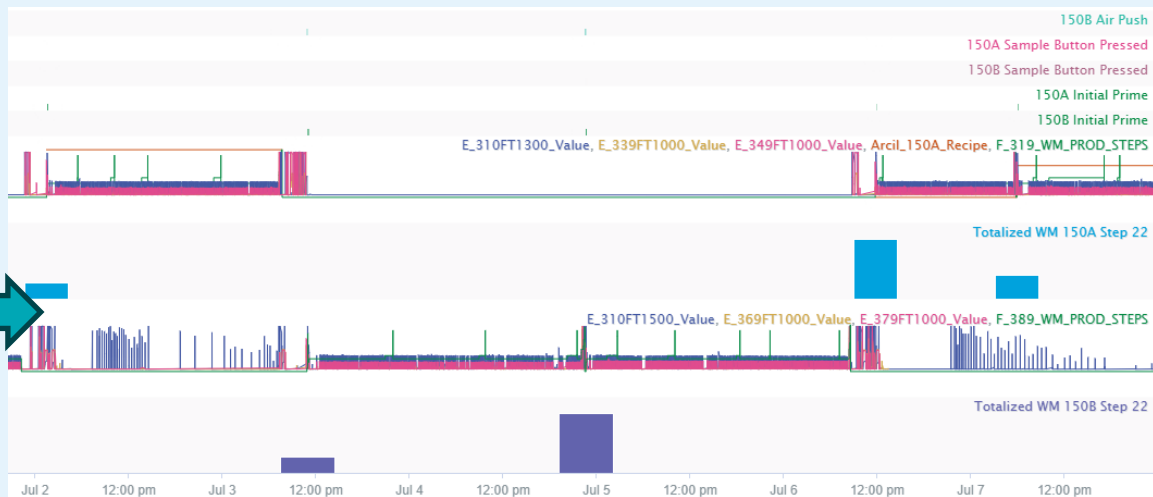
Variables

Name	Item
\$aip	150A Initial Prime Wondeware > Public Groups > All String Tags
\$f319	F_319_WM_PROD_STEPS Wondeware > Public Groups > All S tring Tags

Formula

```

1 (((($f319~="*22~").removeShorterThan(1s))
2 .intersect(((($f319~="*23~")
3 .removeShorterThan(1s)).afterEnd(10min))
4 .intersect($aip.growEnd(1hr))
    
```



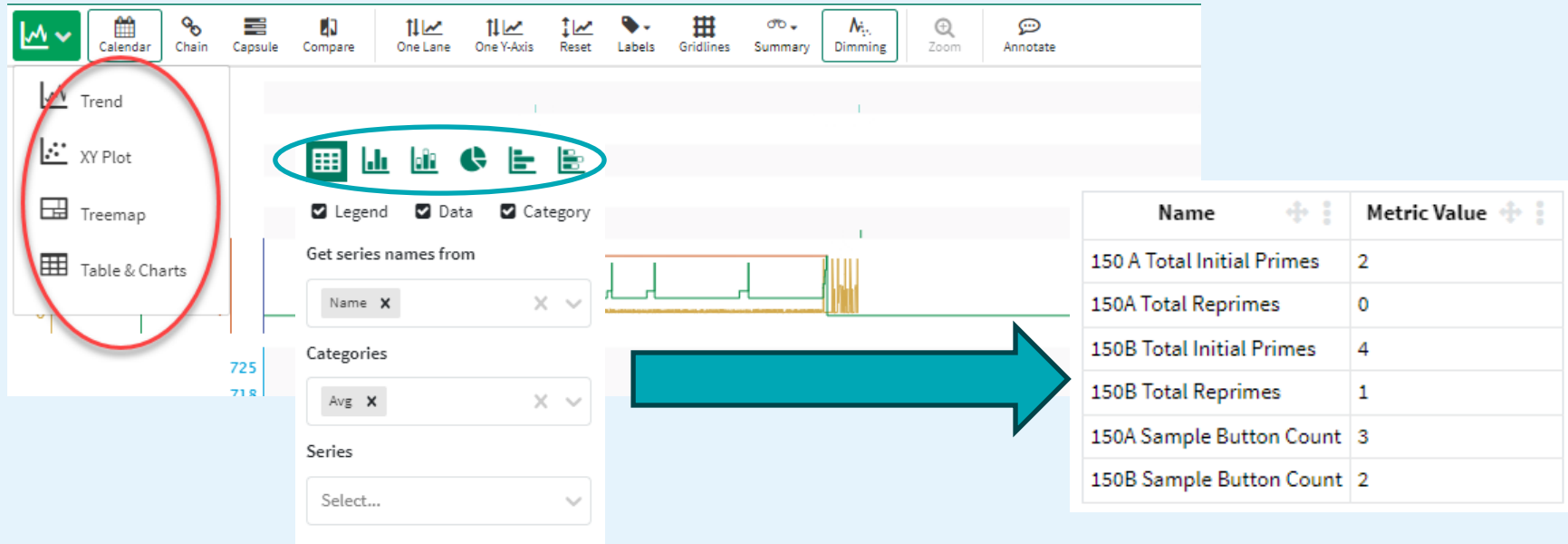
The initial heavy lifting of building the formulas / capsules that will work in the background for you



Part 2 – Utilize the Workbench

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Using different display features on workbench, decide how you want information to be portrayed



Part 3 – Build the Organizer Topic

Create a document to send with the key information you've formatted

Arcils

Creator: Chloe Soejima

Created: Jun 1, 2023 12:46 PM

Updated: Jun 28, 2023 4:27 PM

State: ✓ Saved

Seeq Content: [5 pieces](#)

Time Zone: [US/Mountain](#)

Asset Selections

[Configure an asset selection for Seeq content](#)

Date Ranges

Auto-Updating Date Ranges

Arcil Weekly
Jul 3, 2023 8:00 AM - Jul 10, 2023 8:00 AM

Next Scheduled Update

[July 17, 2023 8:00:00 AM \(US/Mountain\)](#)

Recent Version History

Heading 3

Flip Priming Report Card

Name	Metric Value
150 A Total Initial Primes	4
150A Total Reprimes	0
150B Total Initial Primes	4
150B Total Reprimes	1
150A Sample Button Count	3
150B Sample Button Count	7

Trends / metric blocks can be added from any workbook in your library!

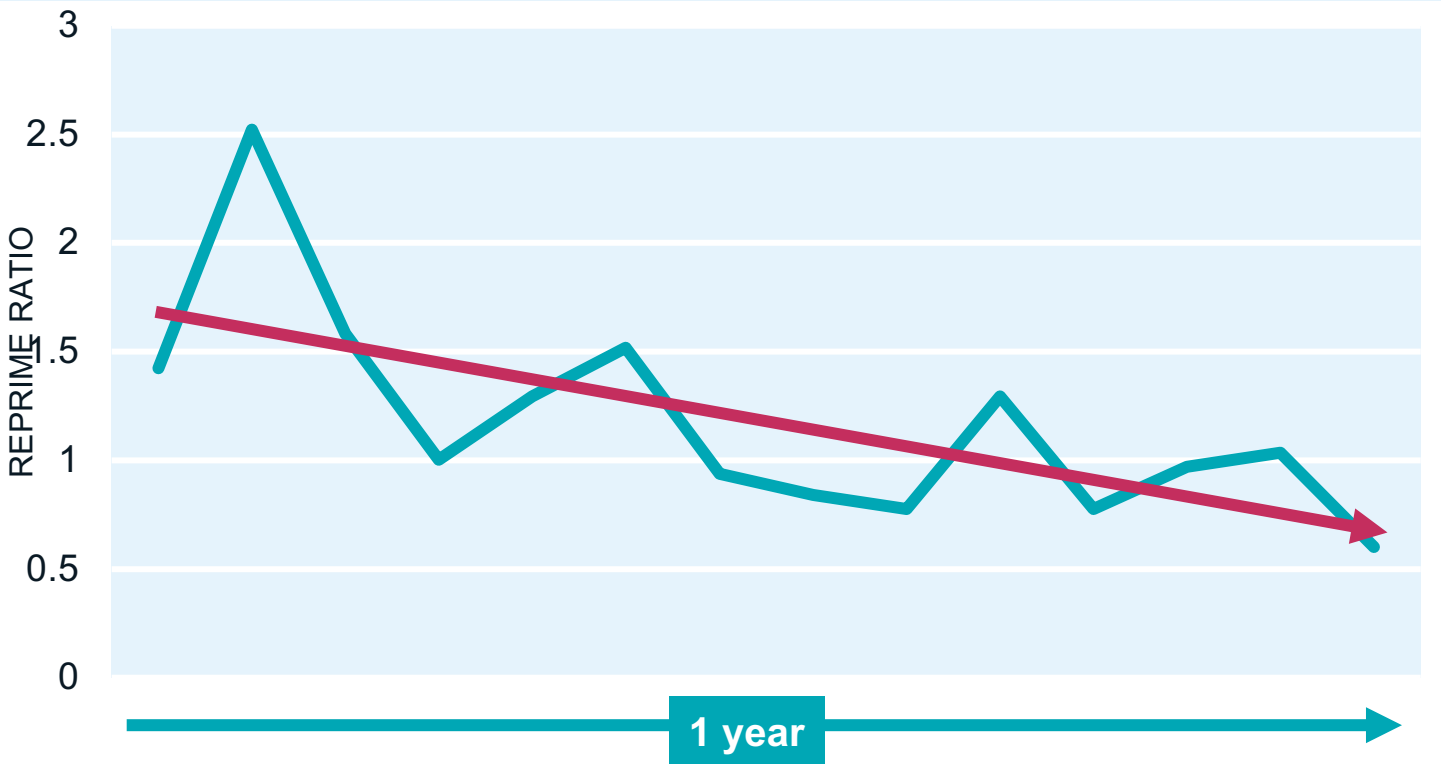
Name	Metric Value
160A Total Initial Primes	3
160A Total Reprimes	3
160B Total Initial Primes	4
160B Total Reprimes	1
160A Sample Button Count	1
160B Sample Button Count	4

Name	Metric Value
170A Total Initial Primes	2
170A Total Reprimes	1
170B Total Initial Primes	6
170B Total Reprimes	1
170A Sample Button Count	2
170B Sample Button Count	5

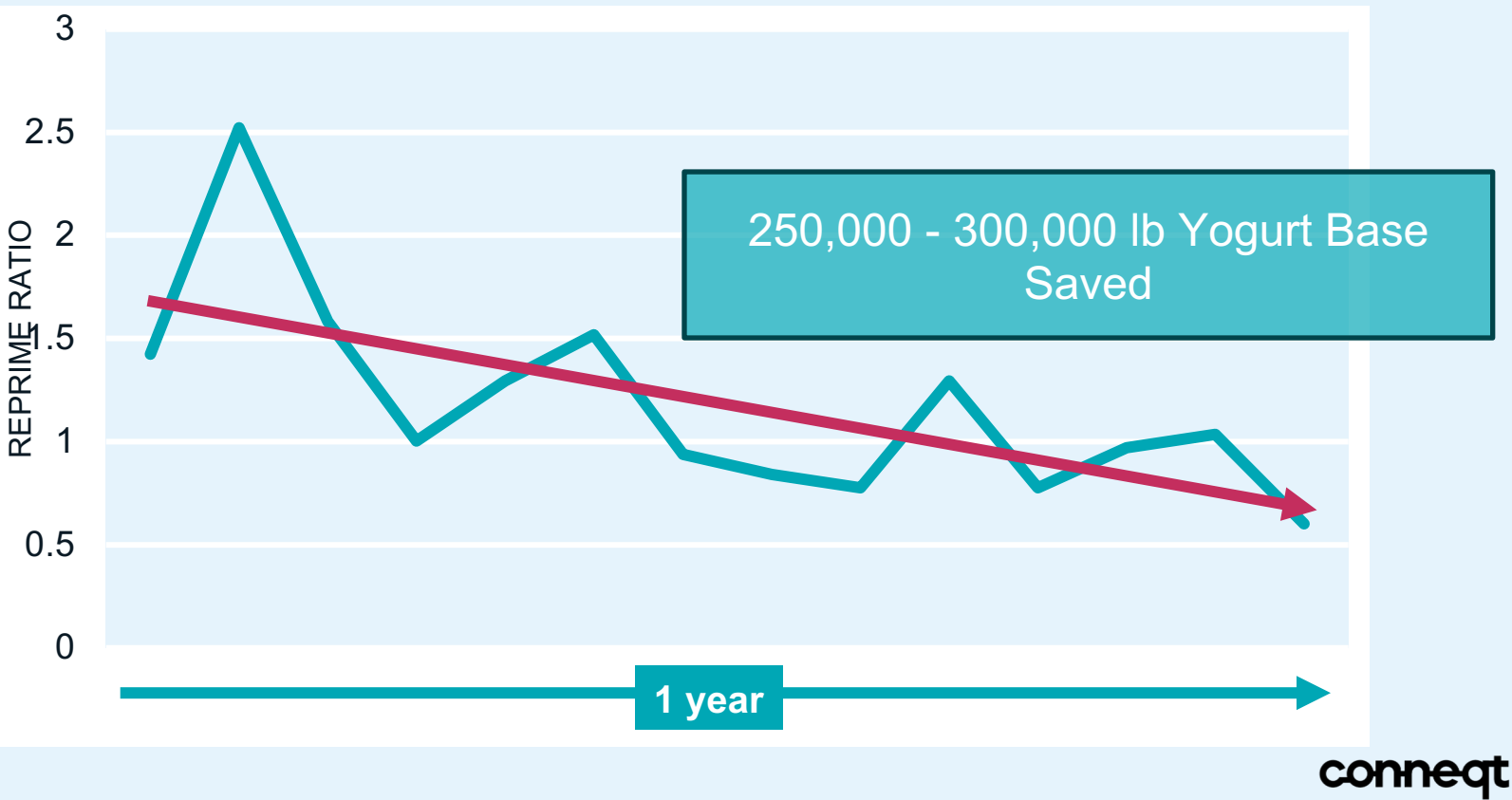
Name	Metric Value
180A Total Initial Primes	0
180A Total Reprimes	0
180B Total Initial Primes	0
180B Total Reprimes	0
180A Sample Button Count	0
180B Sample Button Count	0

Name	Metric Value
190 Total Initial Primes	3
190 Total Reprimes	0
190 Sample Button Count	7

Results








Results



Creating New Seeq Gurus

- Actively using Seeq trends to review processing trends on regular basis
- Holding Seeq trainings for operators / supervisors looking to improve process literacy
- Making use of Seeq training resources
- Sharing built Seeq trends across interdepartmental teams

Helpful Links

-  Training & Certifications
-  Skill Explorer
-  Knowledge Base
-  Seeq User Community
-  Office Hours



In Summary

Seeq Workbench

- Used to identify reprime events without having to adjust existing sequence logic
- Visualized vital processing data for ease of troubleshooting reprimes and improve process literacy for users

Seeq Organizer Topic

- Used to compile reprime data effortlessly and automatically communicate to team members, Seeq users or not
- Encourages team members to learn Seeq to interpret tabulated data

