## Cheese Process Flow, Fortification, No Whey

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume</th>
<th>Butterfat</th>
<th>True Protein</th>
<th>Lactose</th>
<th>Other Solids</th>
<th>Total SNF</th>
<th>Total Solids</th>
<th>Water</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inputs</strong></td>
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<tr>
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<td>29,915</td>
<td>49,400</td>
<td>7,500</td>
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<td>123,615</td>
<td>876,385</td>
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<tr>
<td>Condensed - NFDM</td>
<td>4,026</td>
<td>54</td>
<td>1,397</td>
<td>2,099</td>
<td>322</td>
<td>3,818</td>
<td>3,872</td>
<td>154</td>
</tr>
<tr>
<td>Whey Cream</td>
<td>0.00%</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<td>7,822</td>
<td>90,633</td>
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<tr>
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<td>998,494</td>
<td>36,745</td>
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<tr>
<td>Percent BF in Skim Cream</td>
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<tr>
<td>Cream</td>
<td>42%</td>
<td>84,053</td>
<td>35,302</td>
<td>1,513</td>
<td>1,243</td>
<td>189</td>
<td>2,944</td>
<td>38,247</td>
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<tr>
<td>Skim Milk</td>
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<td>1,825</td>
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<td>5,475</td>
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<td>63,883</td>
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<td>Solids to permeate</td>
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<td>76,203</td>
<td>361</td>
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### Ultrafiltration

## Exhibit

348

386 4-18-67
## Cheese Process Flow, Fortification, No Whey

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume</th>
<th>Butterfat</th>
<th>True Protein</th>
<th>Lactose</th>
<th>Other Solids</th>
<th>Total SNF</th>
<th>Total Solids</th>
<th>Water</th>
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<tbody>
<tr>
<td>Vat Contents</td>
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<td>Skim Milk not UF</td>
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<td>21,266</td>
<td>36,060</td>
<td>5,475</td>
<td>62,801</td>
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<td>621,948</td>
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<tr>
<td>Cream</td>
<td>84,053</td>
<td>35,302</td>
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<td>2,944</td>
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<td>2,099</td>
<td>322</td>
<td>3,818</td>
<td>3,872</td>
<td>154</td>
</tr>
<tr>
<td>Whey Cream</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<td>Subtotal</td>
<td>773,909</td>
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<td>24,177</td>
<td>39,402</td>
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<td>667,908</td>
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<td>6,853</td>
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<td>UF Milk Retentate Used</td>
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<td>349</td>
<td>6,853</td>
<td>3,885</td>
<td>590</td>
<td>11,328</td>
<td>11,677</td>
<td>62,067</td>
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<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Total Vat</td>
<td>847,654</td>
<td>36,787</td>
<td>31,030</td>
<td>43,287</td>
<td>6,575</td>
<td>80,892</td>
<td>117,678</td>
<td>729,795</td>
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<td>BF Recovery Rate</td>
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<td>Protein %</td>
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<tr>
<td>Cheese</td>
<td>12.46%</td>
<td>105,635</td>
<td>34,580</td>
<td>25,897</td>
<td>4,499</td>
<td>495</td>
<td>30,890</td>
<td>65,470</td>
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<tr>
<td>Milk Yield</td>
<td>32.73%</td>
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<td>229</td>
<td>130</td>
<td>20</td>
<td>378</td>
<td>389</td>
<td>2,070</td>
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</tbody>
</table>

### SUMMARY OF CHEESE

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<tr>
<th>Vat Ingredients</th>
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<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Ingredients</td>
<td>847,654</td>
<td>36,787</td>
<td>31,030</td>
<td>43,287</td>
<td>6,575</td>
<td>80,892</td>
<td>117,678</td>
<td>729,795</td>
</tr>
<tr>
<td>Products</td>
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<tr>
<td>Cheese</td>
<td>105,635</td>
<td>34,580</td>
<td>25,897</td>
<td>4,499</td>
<td>495</td>
<td>30,890</td>
<td>65,470</td>
<td>40,165</td>
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<tr>
<td>Unused Ingredients</td>
<td>2,459</td>
<td>12</td>
<td>229</td>
<td>130</td>
<td>20</td>
<td>378</td>
<td>389</td>
<td>2,070</td>
</tr>
</tbody>
</table>
### Cheese Process Flow, Fortification, No Whey

#### Description
- **Volume**
- **Butterfat**
- **True Protein**
- **Lactose**
- **Other Solids**
- **Total SNF**
- **Total Solids**
- **Water**

#### Whey Processing

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume</th>
<th>Butterfat</th>
<th>True Protein</th>
<th>Lactose</th>
<th>Other Solids</th>
<th>Total SNF</th>
<th>Total Solids</th>
<th>Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Whey Stream - Cheddar</td>
<td>744,478</td>
<td>2,219</td>
<td>5,362</td>
<td>38,918</td>
<td>6,099</td>
<td>50,379</td>
<td>52,598</td>
<td>691,880</td>
</tr>
<tr>
<td>Whey Cream</td>
<td>5,177</td>
<td>0.30%</td>
<td>0.72%</td>
<td>5.23%</td>
<td>0.82%</td>
<td>7.07%</td>
<td>92.93%</td>
<td>7,219</td>
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<tr>
<td>Whey Skim</td>
<td>739,300</td>
<td>5,174</td>
<td>51</td>
<td>374</td>
<td>59</td>
<td>484</td>
<td>2,658</td>
<td>2,519</td>
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<tr>
<td>Permeate</td>
<td>152,407</td>
<td>42.00%</td>
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<td>1.13%</td>
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<tr>
<td>Total Whey/Perm Stream</td>
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<td>5,317</td>
<td>46,549</td>
<td>7,256</td>
<td>59,123</td>
<td>59,167</td>
<td>832,540</td>
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<td>Fluid Sweet Whey Skim</td>
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<td>5,317</td>
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<td>7,256</td>
<td>59,123</td>
<td>59,167</td>
<td>832,540</td>
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<td>5,317</td>
<td>46,549</td>
<td>7,256</td>
<td>59,123</td>
<td>59,167</td>
<td>269,540</td>
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<td>563,000</td>
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<td>7,256</td>
<td>59,123</td>
<td>59,167</td>
<td>36,264</td>
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<tr>
<td>Water Removed by Evap</td>
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<td>5.57%</td>
<td>48.78%</td>
<td>7.60%</td>
<td>61.95%</td>
<td>62.00%</td>
<td>38.00%</td>
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<tr>
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<td>46,549</td>
<td>7,256</td>
<td>59,123</td>
<td>59,167</td>
<td>2,146</td>
</tr>
</tbody>
</table>

#### Mass Balance

| Total Inputs                  | 1,004,026 | 36,854 | 31,312 | 51,149 | 7,822 | 90,633 | 127,487 | 876,539 |
| Outputs                       | 105,635   | 34,580 | 25,897 | 4,499  | 495   | 30,890 | 65,470  | 40,165  |
| Cheese                        | 0         | 0      | 0      | 0      | 0     | 0      | 0       | 0       |
| Cream not used                | 5,177     | 2,174  | 51     | 374    | 59    | 484    | 2,658   | 2,519   |
| Whey cream                    | 61,313    | 44     | 5,317  | 46,549 | 7,256 | 59,123 | 59,167  | 2,146   |
| RO Perm                       | 563,000   | 0      | 0      | 0      | 0     | 0      | 563,000 | 0       |
| Product Loss In plant         | 1,506     | 55     | 47     | 77     | 12    | 136    | 191     | 1,315   |
| Total Used                    | 1,004,026 | 36,854 | 31,312 | 51,149 | 7,822 | 90,633 | 127,487 | 876,539 |

| Remaining Solids              | 0         | 0      | 0      | 0      | 0     | 0      | 0       | 0       |

- **Pounds of Cheese**
- **Pounds of Butterfat Raw**
- **Milk less cream**
- **Butterfat in Cheese% of Raw**
- **Pounds of Butterfat vat**
- **Butterfat in Cheese% all BF**
- **Vat Yield**
- **Ingredient Yield**

**Ingredient Yield**

34,580

36,800

36,787

94.00%

12.46%

10.52%