### Projected Production Schedule

<table>
<thead>
<tr>
<th></th>
<th>Daily Demand (Dj)</th>
<th>Production Rate (Qj)</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Haggis</td>
<td>600 LBs</td>
<td>American Haggis</td>
</tr>
<tr>
<td>Vegetarian Haggis</td>
<td>410 LBs</td>
<td>Vegetarian Haggis</td>
</tr>
<tr>
<td>Taiwanese Haggis</td>
<td>200 LBs</td>
<td>Taiwanese Haggis</td>
</tr>
<tr>
<td>Mexican Haggis</td>
<td>200 LBs</td>
<td>Mexican Haggis</td>
</tr>
<tr>
<td>Taiwanese Haggis</td>
<td>200 LBs</td>
<td>Taiwanese Haggis</td>
</tr>
<tr>
<td>Taiwanese Haggis</td>
<td>1800</td>
<td>Units per Day</td>
</tr>
</tbody>
</table>

### Run Length (rj)
- American Haggis: 1.75 Days or 14.00 hrs
- Vegetarian Haggis: 1 Days or 8.00 hrs
- Mexican Haggis: 0.88 Days or 7.04 hrs
- Taiwanese Haggis: 0.78 Days or 6.24 hrs

### Setup time
- American Haggis: 0.5 hrs
- Vegetarian Haggis: 4 hrs
- Mexican Haggis: 0.75 hrs
- Taiwanese Haggis: 1 hrs

### Production Plan

#### Process Activity: 01/05/10 - 01/29/10

#### Process Performance
- Machine idle time (from production and setup): -1.765 Days
- Utilization rate: 92.84%

**Note:** current scheduling policy: one week production cycle.

The run length is calculated by the following formula:

$$ r_j = \frac{D_j \times 7}{Q_j} $$

Where:
- $r_j$: Run length for Haggis $j$ (day)
- $D_j$: Daily demand for Haggis $j$ (lb)
- $Q_j$: Production rate per day for Haggis $j$ (lb)