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| Batch Name | Batch #13 | Date Brewed: | 18-Dec-15 |
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|-------------------|---------------|-------------------|-------|
| Style | Oatmeal Stout | OG | 1.05 |
| Target Batch Size | 5.5 | FG | 1.016 |
| Target Boil Size | 6.5 | ABV | |
| Boil Time | 90 | Bitterness | 26.4 |
| Target Boil SG | 1.047 | Color | 32.3 |
| Target OG | 1.054 | Target IBU/GU | 0.49 |
| Target FG | 1.016 | Actual Efficiency | |

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| Starter |
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| Pitch Rate | 0.75 |
| Yeast Date | 1-Jun-15 |
| Generation | 1 |
| Starter size | 1.5 |
| Gravity | 1.036 |
| DME (g) | 148 |

| Grains: | | |
|----------------|--------------|--------|
| Type | Weight (lbs) | Mashed |
| English Pale | 8.5 | x |
| Oats | 1 | x |
| Munich | 0.9 | x |
| Roasted Barley | 0.5 | x |
| Chocolate | 0.5 | x |
| 60L | 0.4 | x |
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Total: 11.8

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| Boil: |
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| Time Remaining (min) | Addition | Gravity |
|----------------------|------------------------|---------|
| 60 | Tetnang (1.6 oz) | 1.052 |
| 30 | Tetnang (0.25 oz) | 1.055 |
| 30 | Cluster (0.4 oz) | 1.055 |
| 20 | Irish Moss (1 tsp) | 1.055 |
| 20 | Yeast Nutrient (1 tsp) | 1.055 |
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| Mash Water |
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| Source | Filtered |
| Adjustments | None |
| Water/Grain Ratio (qts/lb) | 1.25 |
| Grain Temperature (F) | 70 |
| Mash Target Temperature (F) | 154 |
| Calculated Strike Water Volume (G) | 3.6875 |
| Actual Strike Water Volume (G) | 4 |
| Calculated Water Temp (F) | 167.44 |

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| Sparge Water |
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| Source | Filtered |
| Adjustments | None |
| Water Used (Gal) | 5 |
| Water Temperature (F) | 170 |

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| Mash Schedule |
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| Time Remaining (min) | Temperature (F) |
|----------------------|-----------------|
| 90 | 153 |
| 0 | 151 |
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| Bottling |
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| Corn Sugar (g) | 97 |
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