

**xBmt-20200420 Whole Cone Vs. Pellet Hops In Dry Hop - 5.3%**

**American Pale Ale**  
Author: Brian Hall

Type: All Grain

IBU : 35 (Tinseth)  
BU/GU : 0.65  
Colour : 19 EBC  
Carbonation : 2.3 CO2-vol

Pre-Boil Gravity : 1.041  
Original Gravity : 1.054  
Final Gravity : 1.014

**Fermentables (1.38 kg)**  
1.069 kg - Lamonta American-style Pale Malt (...  
94 g - Caramel/Crystal Malt - 15L 29.5 EBC (6...  
94 g - Vanora Vienna-style Malt (Mecca Grade)...  
78 g - Victory Malt 49.5 EBC (5.6%)  
47 g - Caramel/Crystal Malt - 60L 118 EBC (3.4%)

**Hops (45.9 g)**  
60 min - 3.9 g - Magnum - 11.6% (22 IBU)  
25 min - 3.8 g - Perle - 8.6% (10 IBU)  
10 min - 3.8 g - Fuggles - 4.4% (3 IBU)  
2 min - 4 g - Fuggles - 4.4% (1 IBU)

**Dry Hops**  
5 days - 30.4 g - Centennial - Whole Cone OR...

**Miscellaneous**  
Mash - 5.68 g - Calcium Chloride (CaCl2) 33 %...  
^ Lot # 115038  
^ Brouwstore (NL) 055.035.0  
Mash - 1.88 g - Gypsum (CaSO4)  
^ The Malt Miller (UK) CHE-03-004

**Yeast**  
0.5 pkg - Imperial Yeast Flagship A07

**01 Brouwpunt 5L (60min) (rev 4)**

Batch Size : 5.6 L  
Boil Size : 7.76 L  
Post-Boil Vol : 5.96 L

Mash Water : 4.15 L  
Sparge Water : 5.06 L  
Boil Time : 60 min  
Total Water : 9.21 L



19 EBC

Brewhouse Efficiency: 71.8%  
Mash Efficiency: 73.3%

**Mash Profile**  
03 Medium Body Profile (152F)  
72.9 °C - Strike Temp  
66.7 °C - 60 min - Mash In

**Fermentation Profile**  
Imported  
19.4 °C - 10 days - Primary  
19.4 °C - 10 days - Secondary  
18.3 °C - 7 days - Conditioning

**Water Profile**  
02 NL Spa Reine Flat Mineral Water (www.ah.nl...  
Ca 126 Mg 2 Na 3 Cl 135 SO 118 HCO 17

SO/Cl ratio: 0.9  
Mash pH: 5.22  
Sparge pH: 6

**Measurements**

Mash pH:  
  
Boil Volume:  
  
Pre-Boil Gravity:  
  
Post-Boil Kettle Volume:  
  
Original Gravity:  
  
Fermenter Top-Up:  
  
Fermenter Volume:  
  
Final Gravity:  
  
Bottling Volume:

**Recipe Notes**

Water Profile: Ca 126 | Mg 0 | Na 0 | SO4 118 | Cl 135  
<http://brulosophy.com/2020/04/20/whole-cone-vs-pellet-hops-when-used-to-dry-hop-a-pale-ale-exbeeriment-results/>