S.M.A.S.H. CENTENNIAL

- Gravity 17.1 BLG
- ABV 7.3 %
- IBU **81**
- SRM **4.9**
- Style American IPA

Batch size

- Expected quantity of finished beer 25 liter(s)
- Trub loss 4 %
- Size with trub loss 26.5 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 31.4 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 24 liter(s)
- Total mash volume 32 liter(s)

Steps

- Temp 64 C, Time 50 min
 Temp 72 C, Time 15 min
 Temp 78 C, Time 5 min

Mash step by step

- Heat up 24 liter(s) of strike water to 71.3C
- Add grains
- Keep mash 50 min at 64C
- Keep mash 15 min at 72C
- Keep mash 5 min at 78C
- Sparge using 15.4 liter(s) of 76C water or to achieve 31.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Ale	8 kg <i>(100%)</i>	80 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Centennial	50 g	60 min	8.5 %
Boil	Centennial	25 g	30 min	8.5 %
Boil	Centennial	25 g	25 min	8.5 %
Boil	Centennial	25 g	20 min	8.5 %
Boil	Centennial	25 g	15 min	8.5 %
Boil	Centennial	25 g	10 min	8.5 %
Boil	Centennial	25 g	5 min	8.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis