casual ale

- Gravity 9.3 BLG
- ABV 3.6 %
- IBU **40**
- SRM 3.3
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 10 liter(s)
- Trub loss 10 %
- Size with trub loss 11.5 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 13.8 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 6 liter(s)
- Total mash volume 8 liter(s)

Steps

- Temp 62 C, Time 20 min
 Temp 72 C, Time 40 min
- Temp 78 C, Time 10 min

Mash step by step

- · Heat up 6 liter(s) of strike water to 69C
- Add grains
- Keep mash 20 min at 62C
- Keep mash 40 min at 72C
- Keep mash 10 min at 78C
- Sparge using 9.8 liter(s) of 76C water or to achieve 13.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2 kg (100%)	80 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	20 g	40 min	10 %
Dry Hop	Marynka	30 g	3 day(s)	10 %

Yeasts

Name	Туре	Form	Amount	Laboratory
us-04	Ale	Dry	11 g	safale