APA #1

- Gravity 14.7 BLG
- ABV 6.1 %
- IBU **32**
- SRM **6.6**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 18 liter(s)
- Total mash volume 24 liter(s)

Steps

- Temp 62 C, Time 50 min
 Temp 72 C, Time 10 min
 Temp 76 C, Time 0 min

Mash step by step

- Heat up 18 liter(s) of strike water to 69C
- Add grains
- Keep mash 50 min at 62C
- Keep mash 10 min at 72C
- Keep mash 0 min at 76C
- Sparge using 13.3 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg <i>(83.3%)</i>	80 %	5
Grain	Karmelowy Jasny 30EBC	1 kg (16.7%)	75 %	30

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	20 g	60 min	13 %
Aroma (end of boil)	Willamette	30 g	10 min	5 %