NE PA

- Gravity 11.7 BLG
- ABV 4.7 %
- IBU **22**
- SRM **4.9**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 15 liter(s)
- Trub loss 10 %
- Size with trub loss 18 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 21.4 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 14.9 liter(s)
- Total mash volume 19.1 liter(s)

Steps

- Temp 70 C, Time 60 min
 Temp 78 C, Time 5 min

Mash step by step

- Heat up 14.9 liter(s) of strike water to 77.1C
- Add grains
- Keep mash 60 min at 70C
- Keep mash 5 min at 78C
- Sparge using 10.8 liter(s) of 76C water or to achieve 21.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	2 kg <i>(47.1%)</i>	81 %	4
Grain	Viking Pale Ale malt	2 kg <i>(47.1%)</i>	80 %	5
Grain	Abbey Malt Weyermann	0.25 kg <i>(5.9%)</i>	75 %	45

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade	20 g	20 min	6 %
Aroma (end of boil)	Cascade	20 g	0 min	6 %
Whirlpool	Cascade	60 g	15 min	6 %

Yeasts

Name	Туре	Form	Amount	Laboratory
wlp066 London Fog	Ale	Liquid	1000 ml	White Labs

Extras

Туре	Name	Amount	Use for	Time
Water Agent	Kwas fosforowt	2 g	Mash	
Do zakwaszenia wody do wysładzania				

Water Agent	kwas fosforowy	1 a	Mash	
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