Forest Rye IPA

- Gravity 14.3 BLG
- ABV **5.9** %
- IBU **70**
- SRM **15.4**
- Style Rye IPA

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 10 %
- Size with trub loss 24 liter(s)
- Boil time 60 min
- Evaporation rate 15 %/h
- Boil size 29.9 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 22.8 liter(s)
- Total mash volume 29.3 liter(s)

Steps

- Temp 66 C, Time 30 min
 Temp 68 C, Time 15 min
 Temp 74 C, Time 15 min
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up 22.8 liter(s) of strike water to 72.6C
- Add grains
- Keep mash 30 min at 66C
- Keep mash 15 min at 68C
- Keep mash 15 min at 74C
- Keep mash 5 min at 78C
- Sparge using 13.6 liter(s) of 76C water or to achieve 29.9 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	4.5 kg <i>(69.2%)</i>	79 %	6
Grain	Żytni	1.5 kg <i>(23.1%)</i>	85 %	8
Grain	Strzegom Czekoladowy 400	0.5 kg <i>(7.7%)</i>	68 %	400

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	40 g	60 min	13 %
Boil	chinook	10 g	40 min	9.5 %
Boil	Citra	25 g	10 min	12 %
Boil	Citra	25 g	5 min	12 %
Dry Hop	Citra	100 g	3 day(s)	12 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	23 g	Fermentis

Extras

Туре	Name	Amount	Use for	Time
Herb	pędy sosny i świerku	140 g	Boil	15 min