Five o'clock

- Gravity 16.6 BLG
 ABV 7 %
- IBU 65
- SRM 5.1

• Style American IPA

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 20.3 liter(s) ٠
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- Total mash volume 27 liter(s)

Steps

- Temp 65 C, Time 20 min
 Temp 73 C, Time 45 min
 Temp 76 C, Time 10 min

Mash step by step

- Heat up 20.3 liter(s) of strike water to 72.5C
- Add grains
- ٠ Keep mash 20 min at 65C
- Keep mash 45 min at 73C •
- Keep mash 10 min at 76C
- Sparge using 11.8 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Ireks - Pilsner Malt	3 kg (44.4%)	81 %	4
Grain	Ireks - Wheat Malt	2 kg (29.6%)	85 %	5
Grain	Crisp - Rye Malt	1 kg <i>(14.8%)</i>	63 %	10
Grain	Weyermann - Acidulated Malt	0.25 kg <i>(3.7%)</i>	80 %	6
Grain	Crisp - Naked Oat Malt	0.5 kg (7.4%)	%	2

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Warrior	30 g	40 min	17.5 %
Boil	Cascade	50 g	20 min	7.6 %
Dry Hop	Warrior	20 g	3 day(s)	17.5 %
Dry Hop	Cascade	50 g	3 day(s)	7.6 %

Yeasts

Name Type Form A	Amount	Laboratory
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Mangrove Jack's M44 US West Coast	Ale	Dry	10 g	Mangrove Jack's
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Extras

Туре	Name	Amount	Use for	Time
Other	Herbata Earl Grey	100 g	Secondary	5 day(s)