4. Waimea IPA Single Hop

- Gravity 15.9 BLG
- ABV ----
- IBU **65**
- SRM **9**
- Style American IPA

Batch size

- Expected quantity of finished beer 23 liter(s)
- Trub loss 5 %
- Size with trub loss 25.3 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 30.4 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.22 liter(s) / kg
- Mash size 22.5 liter(s)
- Total mash volume 29.5 liter(s)

Steps

- Temp 52 C, Time 10 min
 Temp 62 C, Time 60 min
 Temp 72 C, Time 15 min
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up 22.5 liter(s) of strike water to 57C
- Add grains
- Keep mash 10 min at 52C
- Keep mash 60 min at 62C
- Keep mash 15 min at 72C
- Keep mash 10 min at 78C
- Sparge using 14.9 liter(s) of 76C water or to achieve 30.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	2 kg <i>(28.6%)</i>	80 %	4
Grain	Strzegom Pale Ale	3 kg <i>(42.9%)</i>	79 %	6
Grain	Słód Pszeniczny	1 kg <i>(14.3%)</i>	85 %	4
Grain	Słód Monachijski	0.7 kg <i>(10%)</i>	80 %	25
Grain	Słód melanoidynowy	0.3 kg <i>(4.3%)</i>	75 %	70

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Waimea	30 g	60 min	17.4 %
Boil	Waimea	25 g	15 min	17.4 %
Whirlpool	Waimea	25 g		17.4 %
Dry Hop	Waimea	70 g	6 day(s)	17.4 %

Yeasts

Name	Type	Form	Amount	Laboratory
Hame	.,,,,,	. 0	Aillouit	_aso.aco.y

Mangrove Jack's M44 US West Coast	Dry	10 g	Mangrove Jack's
-----------------------------------	-----	------	-----------------

Extras

Туре	Name	Amount	Use for	Time
Fining	mech irlandzki	6 g	Boil	15 min