ray ipa

- Gravity 13.3 BLG
- ABV 5.5 %
- IBU **16**
- SRM 4.6
- Style American Wheat or Rye Beer

Batch size

- Expected quantity of finished beer 27 liter(s)
- Trub loss 5 %
- Size with trub loss 30.2 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 36.2 liter(s)

Mash information

- Mash efficiency 85 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 21 liter(s)
- Total mash volume 28 liter(s)

Steps

• Temp 66 C, Time 60 min

Mash step by step

- Heat up 21 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 60 min at 66C
- Sparge using 22.2 liter(s) of 76C water or to achieve 36.2 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Malt (2 Row) UK	5.6 kg <i>(80%)</i>	78 %	6
Grain	Rye Malt	0.75 kg <i>(10.7%)</i>	63 %	10
Grain	Briess - Carapils Malt	0.5 kg <i>(7.1%)</i>	74 %	3
Grain	Briess - Wheat Malt, White	0.15 kg <i>(2.1%)</i>	85 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Aroma (end of boil)	Motueka	30 g	15 min	7 %
Aroma (end of boil)	Columbus/Tomahawk/Zeus	15 g	15 min	15.5 %
Dry Hop	Motueka	70 g	5 day(s)	7 %
Dry Hop	Columbus/Tomahawk/Zeus	35 g	5 day(s)	15.5 %