Summer Ale

- Gravity 15 BLG
- ABV 6.2 %
- IBU **53**
- SRM **4.6**
- Style Extra Special/Strong Bitter (English Pale Ale)

Batch size

- Expected quantity of finished beer 18 liter(s)
- Trub loss 5 %
- Size with trub loss 18.9 liter(s)
- · Boil time 90 min
- Evaporation rate 12 %/h
- Boil size 25.5 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 5 liter(s) / kg
- Mash size 24.5 liter(s)
- Total mash volume 29.4 liter(s)

Steps

- Temp 66 C, Time 120 min
 Temp 72 C, Time 30 min
- Temp 77 C, Time 15 min

Mash step by step

- Heat up 24.5 liter(s) of strike water to 70.6C
- Add grains
- Keep mash 120 min at 66C
- Keep mash 30 min at 72C
- Keep mash 15 min at 77C
- Sparge using 5.9 liter(s) of 76C water or to achieve 25.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Simpsons - Maris Otter	3 kg <i>(56.6%)</i>	81 %	6
Grain	Pilzneński	1.5 kg <i>(28.3%)</i>	81 %	4
Grain	Strzegom Pszeniczny	0.4 kg <i>(7.5%)</i>	81 %	6
Sugar	Dememera Sugar	0.4 kg <i>(7.5%)</i>	100 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
First Wort	Fuggles	30 g	90 min	5.6 %
First Wort	East Kent Goldings	40 g	90 min	5.4 %
Boil	East Kent Goldings	40 g	5 min	5.4 %

Yeasts

Name	Туре	Form	Amount	Laboratory
FM10 O czym szumią wierzby	Ale	Liquid	120 ml	

Extras

Туре	Name	Amount	Use for	Time
Spice	Kolendra	10 g	Boil	5 min
Flavor	Candied ginger	10 g	Boil	5 min

Notes

• wg Radical Brewing by Randy Mosher Oct 30, 2018, 9:20 PM