

American Wheat Citra, Cascade

- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **46**
- SRM **3.5**
- Style **American Wheat or Rye Beer**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **30 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.8 liter(s) / kg**
- Mash size **20.9 liter(s)**
- Total mash volume **26.4 liter(s)**

Steps

- Temp **68 C**, Time **60 min**

Mash step by step

- Heat up **20.9 liter(s)** of strike water to **74.3C**
- Add grains
- Keep mash **60 min** at **68C**
- Sparge using **14.6 liter(s)** of **76C** water or to achieve **30 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilznieński	3 kg (54.5%)	81 %	4
Grain	Pszeniczny	2 kg (36.4%)	85 %	4
Grain	Płatki owsiane	0.5 kg (9.1%)	60 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	20 g	60 min	8.8 %
Aroma (end of boil)	Citra	20 g	15 min	12 %
Aroma (end of boil)	Cascade	20 g	15 min	6 %
Aroma (end of boil)	Citra	20 g	10 min	12 %
Aroma (end of boil)	Cascade	20 g	10 min	6 %
Whirlpool	Citra	20 g	0 min	12 %
Whirlpool	Cascade	20 g	0 min	6 %
Dry Hop	Citra	40 g	3 day(s)	12 %
Dry Hop	Cascade	40 g	3 day(s)	6 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11 g	Fermentis