

# Cytrynowy American Wheat

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **82**
- SRM **3.6**
- Style **American Wheat or Rye Beer**

## Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **9.5 %/h**
- Boil size **29.5 liter(s)**

## Mash information

- Mash efficiency **87 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

## Steps

- Temp **63 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **15 liter(s)** of strike water to **70.2C**
- Add grains
- Keep mash **40 min** at **63C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **19.5 liter(s)** of **76C** water or to achieve **29.5 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	2 kg (40%)	80 %	4
Grain	Strzegom Pszeniczny	2 kg (40%)	81 %	6
Grain	Płatki pszeniczne	0.5 kg (10%)	85 %	3
Grain	Płatki owsiane	0.5 kg (10%)	85 %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	50 g	60 min	15.5 %
Aroma (end of boil)	Sorachi Ace	50 g	5 min	10 %
Dry Hop	Sorachi Ace	50 g	3 day(s)	10 %

## Yeasts

Name	Type	Form	Amount	Laboratory
FM52 Amerykański Sen	Ale	Liquid	50 ml	Fermentum Mobile

## Extras

Type	Name	Amount	Use for	Time
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Spice	skórka cytrynowa	25 g	Boil	5 min
Spice	werbena cytrynowa	30 g	Boil	3 min
Spice	trawa cytrynowa	30 g	Boil	3 min