

# Letnia przygoda

- Gravity **11.2 BLG**
- ABV **4.5 %**
- IBU **15**
- SRM **3.6**
- Style **Weizen/Weissbier**

## Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **29 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.2 liter(s) / kg**
- Mash size **16 liter(s)**
- Total mash volume **21 liter(s)**

## Steps

- Temp **44 C**, Time **20 min**
- Temp **64 C**, Time **60 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **16 liter(s)** of strike water to **47.7C**
- Add grains
- Keep mash **20 min** at **44C**
- Keep mash **60 min** at **64C**
- Keep mash **15 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **18 liter(s)** of **76C** water or to achieve **29 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Słód PSZENICZNY Viking Malt	3.04 kg (60.9%)	82 %	5
Grain	Słód Pilsneński Viking Malt Strzegom 3-4,5 EBC	1.95 kg (39.1%)	80 %	4

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Hallertau Tradition	15 g	60 min	5.2 %
Aroma (end of boil)	Amarillo USA	15 g	15 min	9.5 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Gozdawa - BW11 Bavarian Wheat	Wheat	Dry	11 g	---

## Extras

Type	Name	Amount	Use for	Time
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Water Agent	Gips	2.5 g	Boil	60 min
Water Agent	kwas fosforowy	2.5 g	Boil	60 min