

## American Wheat

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **20**
- SRM **3.6**
- Style **American Wheat or Rye Beer**

### Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **8 %/h**
- Boil size **29.8 liter(s)**

### Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **17.5 liter(s)**
- Total mash volume **22.5 liter(s)**

### Steps

- Temp **67 C**, Time **40 min**
- Temp **72 C**, Time **30 min**
- Temp **76 C**, Time **10 min**

### Mash step by step

- Heat up **17.5 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **40 min** at **67C**
- Keep mash **30 min** at **72C**
- Keep mash **10 min** at **76C**
- Sparge using **17.3 liter(s)** of **76C** water or to achieve **29.8 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński optima	2.5 kg (50%)	82.6 %	4
Grain	pszeniczny Malteurop	2.5 kg (50%)	80 %	6

### Hops

Use for	Name	Amount	Time	Alpha acid
First Wort	Amarillo	15 g	60 min	9.5 %
Boil	Amarillo	10 g	5 min	9.5 %
Boil	Citra	10 g	5 min	12 %
Boil	Centennial	10 g	5 min	9.7 %
Aroma (end of boil)	Amarillo	20 g	0 min	9.5 %
Aroma (end of boil)	Centennial	20 g	0 min	9.7 %
Aroma (end of boil)	Citra	20 g	0 min	12 %

### Yeasts

Name	Type	Form	Amount	Laboratory
FM52 Amerykański Sen	Ale	Slant	150 ml	Fermentum Mobile

## Extras

Type	Name	Amount	Use for	Time
Fining	Whirlfloc T	1 g	Boil	10 min