

# Wiosenna IPA 21-3-21

- Gravity **14.3 BLG**
- ABV **5.9 %**
- IBU **47**
- SRM **6.3**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **36 liter(s)**
- Trub loss **5 %**
- Size with trub loss **37.8 liter(s)**
- Boil time **65 min**
- Evaporation rate **14 %/h**
- Boil size **49.3 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **46 liter(s)**
- Total mash volume **57.5 liter(s)**

## Steps

- Temp **67 C**, Time **60 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **5 min**

## Mash step by step

- Heat up **46 liter(s)** of strike water to **72.9C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **30 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **14.8 liter(s)** of **76C** water or to achieve **49.3 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg (43.5%)	80 %	5
Grain	Viking Pilsner malt	3 kg (26.1%)	82 %	4
Grain	Viking Wheat Malt	1 kg (8.7%)	83 %	5
Grain	Viking Vienna Malt	1 kg (8.7%)	79 %	7
Grain	Strzegom Karmel 30	1.5 kg (13%)	75 %	30

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	30 g	60 min	11 %
Boil	Zula	30 g	60 min	8.3 %
Boil	Izabella	40 g	15 min	5.1 %
Boil	Sybilla	100 g	15 min	3.5 %
Dry Hop	Izabella	60 g	6 day(s)	5.1 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	23 g	Fermentis