

# American Hefeweizen 12

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- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **15**
- SRM **3.3**
- Style **American Wheat or Rye Beer**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **24.1 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **14.7 liter(s)**
- Total mash volume **18.9 liter(s)**

## Steps

- Temp **46 C**, Time **15 min**
- Temp **63 C**, Time **25 min**
- Temp **72 C**, Time **40 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **14.7 liter(s)** of strike water to **49.7C**
- Add grains
- Keep mash **15 min** at **46C**
- Keep mash **25 min** at **63C**
- Keep mash **40 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **13.6 liter(s)** of **76C** water or to achieve **24.1 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pszeniczny	2.5 kg (59.5%)	85 %	4
Grain	Pilzneński	1.7 kg (40.5%)	81 %	4

## Hops

Use for	Name	Amount	Time	Alpha acid
Aroma (end of boil)	Sorachi Ace	20 g	10 min	10 %
Whirlpool	Amarillo	20 g	20 min	9.5 %
Dry Hop	Motueka	40 g	20 day(s)	7 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Mangrove Jack's - Belgian Wit M21	Wheat	Dry	11 g	Mangrove Jack's