

## #104 American Wheat

- Gravity **11.5 BLG**
- ABV ---
- IBU **31**
- SRM **4.2**
- Style **American Wheat or Rye Beer**

### Batch size

- Expected quantity of finished beer **40 liter(s)**
- Trub loss **5 %**
- Size with trub loss **44 liter(s)**
- Boil time **45 min**
- Evaporation rate **10 %/h**
- Boil size **51.6 liter(s)**

### Mash information

- Mash efficiency **93 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **21.1 liter(s)**
- Total mash volume **28.1 liter(s)**

### Steps

- Temp **66 C**, Time **60 min**

### Mash step by step

- Heat up **21.1 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **66C**
- Sparge using **37.5 liter(s)** of **76C** water or to achieve **51.6 liter(s)** of wort

### Fermentables

| Type  | Name                           | Amount         | Yield | EBC |
|-------|--------------------------------|----------------|-------|-----|
| Grain | Strzegom Pilzneński            | 3.5 kg (49.8%) | 80 %  | 4   |
| Grain | Strzegom pszeniczny            | 3.5 kg (49.8%) | 81 %  | 6   |
| Grain | Brown Malt (British Chocolate) | 0.03 kg (0.4%) | 70 %  | 128 |

### Hops

| Use for             | Name     | Amount | Time   | Alpha acid |
|---------------------|----------|--------|--------|------------|
| Boil                | Premiant | 55 g   | 45 min | 8.5 %      |
| Aroma (end of boil) | Citra    | 5 g    | 15 min | 12 %       |
| Aroma (end of boil) | Amarillo | 5 g    | 15 min | 9.5 %      |
| Aroma (end of boil) | Citra    | 10 g   | 5 min  | 12 %       |
| Aroma (end of boil) | Amarillo | 10 g   | 5 min  | 9.5 %      |
| Aroma (end of boil) | Citra    | 25 g   | 0 min  | 12 %       |
| Aroma (end of boil) | Amarillo | 25 g   | 0 min  | 9.5 %      |
| Whirlpool           | Citra    | 10 g   | 0 min  | 12 %       |
| Whirlpool           | Amarillo | 10 g   | 0 min  | 9.5 %      |

### Yeasts

| Name  | Type  | Form   | Amount | Laboratory |
|-------|-------|--------|--------|------------|
| kłosy | Wheat | Liquid | 100 ml | FM         |

## Extras

| Type  | Name    | Amount | Use for | Time  |
|-------|---------|--------|---------|-------|
| Other | pożywka | 5 g    | Boil    | 5 min |