

# Summer Ale

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- Gravity **11.6 BLG**
- ABV ---
- IBU **22**
- SRM **8.4**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.3 liter(s)**
- Total mash volume **20.4 liter(s)**

## Steps

- Temp **54 C**, Time **20 min**
- Temp **62 C**, Time **20 min**
- Temp **67 C**, Time **50 min**
- Temp **78 C**, Time **5 min**

## Mash step by step

- Heat up **15.3 liter(s)** of strike water to **59.7C**
- Add grains
- Keep mash **20 min** at **54C**
- Keep mash **20 min** at **62C**
- Keep mash **50 min** at **67C**
- Keep mash **5 min** at **78C**
- Sparge using **21.5 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

## Fermentables

| Type  | Name                       | Amount         | Yield | EBC |
|-------|----------------------------|----------------|-------|-----|
| Grain | Weyermann - Pale Ale Malt  | 3 kg (58.8%)   | 85 %  | 7   |
| Grain | Biscuit Malt               | 0.4 kg (7.8%)  | 79 %  | 45  |
| Grain | Strzegom Monachijski typ I | 1.5 kg (29.4%) | 79 %  | 16  |
| Grain | Weyermann pszeniczny jasny | 0.2 kg (3.9%)  | 80 %  | 6   |

## Hops

| Use for | Name              | Amount | Time   | Alpha acid |
|---------|-------------------|--------|--------|------------|
| Boil    | Hallertau Blanc   | 20 g   | 20 min | 7.6 %      |
| Boil    | Hallertau         | 25 g   | 60 min | 4.3 %      |
| Boil    | Lublin (Lubelski) | 15 g   | 10 min | 4 %        |

## Yeasts

| Name                             | Type | Form | Amount | Laboratory      |
|----------------------------------|------|------|--------|-----------------|
| Mangrove Jack's M79 Burton Union | Ale  | Dry  | 10 g   | Mangrove Jack's |

## Extras

| Type   | Name           | Amount | Use for | Time      |
|--------|----------------|--------|---------|-----------|
| Fining | mech irlandzki | 5 g    | Primary | 10 day(s) |