

# APA Waimea

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- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **39**
- SRM **4.4**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **31.6 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **19.5 liter(s)**
- Total mash volume **26 liter(s)**

## Steps

- Temp **65 C**, Time **50 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **19.5 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **50 min** at **65C**
- Keep mash **10 min** at **78C**
- Sparge using **18.6 liter(s)** of **76C** water or to achieve **31.6 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3.5 kg (53.8%)	80 %	5
Grain	Pilznieński	1.5 kg (23.1%)	81 %	4
Grain	Pszeniczny	1 kg (15.4%)	85 %	4
Grain	Strzegom Wiedeński	0.5 kg (7.7%)	79 %	10

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Waimea	40 g	15 min	14.3 %
Whirlpool	Waimea	40 g	15 min	14.3 %