

## Nowozelandzka APA v2.0

- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **41**
- SRM **4.3**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **30 liter(s)**
- Trub loss **5 %**
- Size with trub loss **31.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **38 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **20.7 liter(s)**
- Total mash volume **27.6 liter(s)**

### Steps

- Temp **65 C**, Time **60 min**
- Temp **78 C**, Time **1 min**

### Mash step by step

- Heat up **20.7 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **60 min** at **65C**
- Keep mash **1 min** at **78C**
- Sparge using **24.2 liter(s)** of **76C** water or to achieve **38 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pale Malt (2 Row) Bel	6.5 kg (94.2%)	80 %	6
Grain	Pszeniczny	0.4 kg (5.8%)	85 %	4

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Pacific Gem	10 g	60 min	15.3 %
Boil	Pacific Gem	20 g	30 min	15.3 %
Boil	Wakatu	30 g	10 min	8.5 %
Boil	Wakatu	20 g	10 min	8.5 %
Boil	Pacific Gem	20 g	0 min	15.3 %
Dry Hop	Galaxy	100 g	5 day(s)	15 %
Dry Hop	Rakau (NZ)	100 g	5 day(s)	9.5 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Mangrove Jack's M44 US West Coast	Ale	Dry	23 g	Mangrove Jack's

### Notes

- Zwiększono ilość chmielu na zimno (Rakau 50->100g)  
*Jun 11, 2017, 6:34 PM*