# **West Coast Cascade**

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU 37
- SRM **6**
- Style American Pale Ale

#### **Batch size**

- Expected quantity of finished beer 40 liter(s)
- Trub loss 10 %
- Size with trub loss 46 liter(s)
- Boil time 60 min
- Evaporation rate 15 %/h
- Boil size 55.2 liter(s)

#### **Mash information**

- Mash efficiency 72 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 31.2 liter(s)
- Total mash volume 41.6 liter(s)

# **Steps**

- Temp **62 C**, Time **45 min** Temp **72 C**, Time **15 min**
- Temp 76 C, Time 0 min

# Mash step by step

- Heat up 31.2 liter(s) of strike water to 69C
- Add grains
- Keep mash 45 min at 62C
- Keep mash 15 min at 72C
- Keep mash 0 min at 76C
- Sparge using 34.4 liter(s) of 76C water or to achieve 55.2 liter(s) of wort

#### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	BESTMALZ - Best Pilsen	10 kg (96.2%)	80.5 %	4
Grain	Strzegom Karmel 150	0.4 kg <i>(3.8%)</i>	75 %	150

# Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade	80 g	60 min	5.9 %
Boil	Cascade	40 g	30 min	5.9 %
Boil	Cascade	40 g	5 min	5.9 %

#### **Yeasts**

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