#11 SMaSH_PA_Mackinac

- Gravity 13.1 BLG
- ABV 5.3 %
- IBU 32
- SRM **4**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 24 liter(s)
- Trub loss 5 %
- Size with trub loss 25.2 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 30.4 liter(s)

Mash information

- Mash efficiency 82 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 17.4 liter(s)
- Total mash volume 23.2 liter(s)

Steps

- Temp 68 C, Time 60 min
 Temp 78 C, Time 10 min

Mash step by step

- Heat up 17.4 liter(s) of strike water to 76C
- Add grains
- Keep mash 60 min at 68C
- Keep mash 10 min at 78C
- Sparge using 18.8 liter(s) of 76C water or to achieve 30.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg (86.2%)	80 %	5
Grain	Barley, Flaked	0.8 kg (13.8%)	70 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Mackinac	15 g	60 min	9.2 %
Boil	Mackinac	15 g	30 min	9.2 %
Boil	Mackinac	20 g	20 min	9.2 %
Dry Hop	Mackinac	150 g	3 day(s)	9.2 %

Yeasts

Name	Туре	Form	Amount	Laboratory
FM53 Voss kveik	Ale	Slant	150 ml	

Extras

Туре	Name	Amount	Use for	Time
Fining	Whirlfloc	0.5 g	Boil	10 min

Notes

