Panna Maria, TX

- Gravity 14.3 BLG
- ABV ----
- IBU **58**
- SRM **5.2**
- Style American IPA

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 22 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 26.4 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 16.5 liter(s)
- Total mash volume 22 liter(s)

Steps

- Temp 50 C, Time 10 min
 Temp 62 C, Time 50 min

Mash step by step

- Heat up 16.5 liter(s) of strike water to 55C
- Add grains
- Keep mash 10 min at 50C
- Keep mash 50 min at 62C
- Sparge using 15.4 liter(s) of 76C water or to achieve 26.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Ale Flagon	5 kg <i>(90.9%)</i>	80 %	5
Grain	Briess - 2 Row Carapils Malt	0.5 kg <i>(9.1%)</i>	75 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	40 g	50 min	13.2 %
Aroma (end of boil)	Simcoe	15 g	5 min	13.2 %
Dry Hop	Pacifica (NZ)	15 g	7 day(s)	4.8 %

Yeasts

Name	Туре	Form	Amount	Laboratory
us-05	Ale	Dry	11.5 g	fermentis