

Softer, Juicier, and Uglier APA

- Gravity **14.7 BLG**
- ABV **6.1 %**
- IBU **42**
- SRM **4.3**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **3 %**
- Size with trub loss **21.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.5 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.2 liter(s)**
- Total mash volume **21.6 liter(s)**

Steps

- Temp **68 C**, Time **60 min**
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up **16.2 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **1 min** at **78C**
- Sparge using **14.7 liter(s)** of **76C** water or to achieve **25.5 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|---------------|-------|-----|
| Grain | Strzegom Pilzneński | 2.7 kg (50%) | 80 % | 4 |
| Grain | Strzegom Pszeniczny | 2 kg (37%) | 81 % | 6 |
| Grain | Słód owsiany Fawcett | 0.5 kg (9.3%) | 61 % | 5 |
| Grain | Weyermann - Carapils | 0.2 kg (3.7%) | 78 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|------------------------|--------|----------|------------|
| Boil | Columbus/Tomahawk/Zeus | 35 g | 30 min | 15.5 % |
| Aroma (end of boil) | Motueka | 85 g | 0 min | 7 % |
| Aroma (end of boil) | Columbus/Tomahawk/Zeus | 25 g | 0 min | 15.5 % |
| Aroma (end of boil) | Amarillo | 25 g | 0 min | 9.5 % |
| Dry Hop | Motueka | 115 g | 5 day(s) | 7 % |
| Dry Hop | Columbus/Tomahawk/Zeus | 40 g | 5 day(s) | 15.5 % |
| Dry Hop | Amarillo | 60 g | 5 day(s) | 9.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

| | | | | |
|--------------|-----|-------|--------|-----------|
| Safale US-05 | Ale | Slant | 120 ml | Fermentis |
|--------------|-----|-------|--------|-----------|

Extras

| Type | Name | Amount | Use for | Time |
|--------|-----------|--------|---------|-------|
| Fining | Whirlfloc | 0.5 g | Boil | 5 min |

Notes

- <https://www.themadfermentationist.com/2015/10/softer-juicier-and-uglier-apa.html?m=1>
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