

NEPA (New England Pale Ale)

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **108**
- SRM **4.1**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **0 %**
- Size with trub loss **20 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **24.2 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **14.2 liter(s)**
- Total mash volume **18.9 liter(s)**

Steps

- Temp **66 C**, Time **60 min**

Mash step by step

- Heat up **14.2 liter(s)** of strike water to **73.6C**
- Add grains
- Keep mash **60 min** at **66C**
- Sparge using **14.7 liter(s)** of **76C** water or to achieve **24.2 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|------------------------|-----------------|---------|-----|
| Grain | Pilsner Malt | 3.56 kg (75.5%) | 82.23 % | 3 |
| Grain | Torrefied Oats, Flaked | 0.5 kg (10.6%) | 85 % | 2 |
| Grain | Wheat Malt Pale | 0.5 kg (10.6%) | 82.23 % | 4 |
| Grain | Carared | 0.16 kg (3.3%) | 77.9 % | 63 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|--------|---------|----------|------------|
| Boil | Citra | 31.25 g | 10 min | 12.6 % |
| Boil | Galaxy | 31.25 g | 10 min | 15 % |
| Aroma (end of boil) | Citra | 31.25 g | 15 min | 12.6 % |
| Aroma (end of boil) | Galaxy | 31.25 g | 15 min | 15 % |
| Aroma (end of boil) | Mosaic | 31.25 g | 15 min | 11.3 % |
| Dry Hop | Mosaic | 62.5 g | 7 day(s) | 11.3 % |
| Dry Hop | Citra | 62.5 g | 3 day(s) | 12.6 % |
| Dry Hop | Galaxy | 62.5 g | 3 day(s) | 15.6 % |
| Dry Hop | Mosaic | 62.5 g | 3 day(s) | 12.25 % |

Yeasts

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

| | | | | |
|---------------------|-----|--------|---------|--------|
| London Ale III 1318 | Ale | Liquid | 1250 ml | Wyeast |
|---------------------|-----|--------|---------|--------|

Extras

| Type | Name | Amount | Use for | Time |
|-------------|-----------|--------|---------|--------|
| Water Agent | Gypsum | 3.75 g | Mash | 0 min |
| Fining | Protafloc | 0.63 g | Boil | 15 min |