NE PA

- Gravity 11.7 BLG
- ABV 4.7 %
- IBU 35
- SRM **3.5**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 22 liter(s)
- Trub loss 5 %
- Size with trub loss 23.1 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 27.8 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15.9 liter(s)
- Total mash volume 21.2 liter(s)

Steps

- Temp 66 C, Time 55 min
 Temp 72 C, Time 10 min
- Temp 78 C, Time 15 min

Mash step by step

- Heat up 15.9 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 55 min at 66C
- Keep mash 10 min at 72C
- Keep mash 15 min at 78C
- Sparge using 17.2 liter(s) of 76C water or to achieve 27.8 liter(s) of wort

Fermentables

| Туре | Name | Amount | Yield | EBC |
|-------|----------------|---------------------|-------|-----|
| Grain | Pilzneński | 4.3 kg (81.1%) | 81 % | 4 |
| Grain | Płatki owsiane | 1 kg <i>(18.9%)</i> | 60 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|----------|--------|-----------|------------|
| Boil | Simcoe | 10 g | 50 min | 13.2 % |
| Boil | Amarillo | 10 g | 50 min | 9.5 % |
| Boil | Simcoe | 10 g | 15 min | 13.2 % |
| Boil | Amarillo | 10 g | 15 min | 9.5 % |
| Aroma (end of boil) | Simcoe | 15 g | 1 min | 13.2 % |
| Aroma (end of boil) | Amarillo | 15 g | 1 min | 9.5 % |
| Dry Hop | Simcoe | 20 g | 21 day(s) | 13.2 % |
| Dry Hop | Amarillo | 20 g | 21 day(s) | 9.5 % |
| Dry Hop | Simcoe | 20 g | 4 day(s) | 13.2 % |
| Dry Hop | Amarillo | 20 g | 4 day(s) | 9.5 % |

Yeasts

| Name | Туре | Form | Amount | Laboratory |
|--------------------------|------|------|--------|------------|
| Danstar - Windsor Ale | Ale | Dry | 11.5 g | Danstar |