

Galaxy Wheat

- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **68**
- SRM **4.6**
- Style **American Wheat or Rye Beer**

Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **5 %**
- Size with trub loss **19.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **24.1 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **14.5 liter(s)**
- Total mash volume **19.4 liter(s)**

Steps

- Temp **50 C**, Time **30 min**
- Temp **64 C**, Time **45 min**
- Temp **70 C**, Time **20 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **14.5 liter(s)** of strike water to **55C**
- Add grains
- Keep mash **30 min** at **50C**
- Keep mash **45 min** at **64C**
- Keep mash **20 min** at **70C**
- Keep mash **10 min** at **78C**
- Sparge using **14.4 liter(s)** of **76C** water or to achieve **24.1 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------|----------------|-------|-----|
| Grain | Weyermann - Pale Wheat Malt | 2.5 kg (51.7%) | 85 % | 5 |
| Grain | Weyermann - Pilsner Malt | 2 kg (41.3%) | 81 % | 5 |
| Grain | Caramel/Crystal Malt - 10L | 0.3 kg (6.2%) | 75 % | 20 |
| Grain | Weyermann - Acidulated Malt | 0.04 kg (0.8%) | 80 % | 6 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|--------|--------|----------|------------|
| Boil | Galaxy | 25 g | 25 min | 13.3 % |
| Boil | Galaxy | 25 g | 15 min | 13.3 % |
| Aroma (end of boil) | Galaxy | 25 g | 10 min | 13.3 % |
| Boil | Galaxy | 25 g | 7 min | 13.3 % |
| Dry Hop | Galaxy | 50 g | 7 day(s) | 13.3 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-----------------------------------|-------------|-------------|---------------|-------------------|
| Mangrove Jack's M44 US West Coast | Ale | Slant | 150 ml | Mangrove Jack's |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|----------------|---------------|----------------|-------------|
| Fining | Mech irlandzki | 5 g | Boil | 10 min |