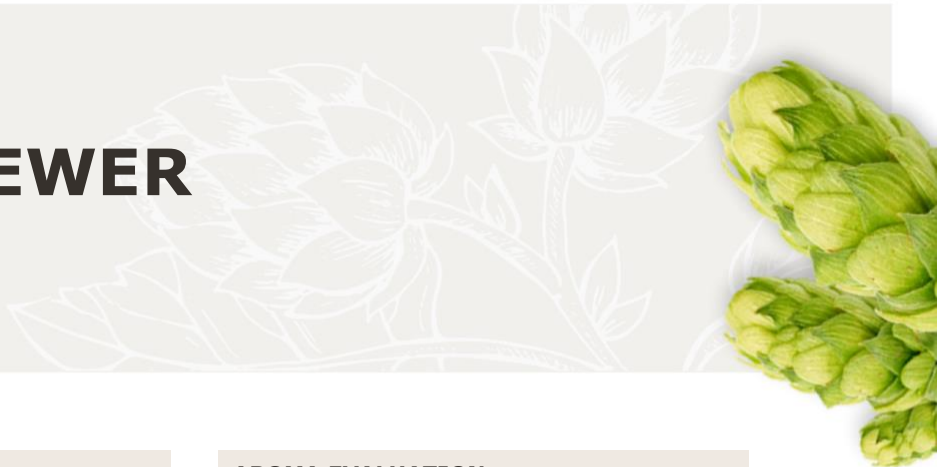


NOTHERN BREWER

Grassy, Spicy, Lime, Pine, Mint



QUICK SPECS

GENETIC ORIGIN	A German cross between a Canterbury Golding and 'OB21' - a male seedling of Brewers Gold.
YIELD (KG/HA)	1,400 – 1,650
MATURITY	Medium/Early
MAIN GROWING COUNTRY	Germany
ACREAGE (HA)	153

CHEMICAL INGREDIENTS – POLYPHENOLS

XANTHOHUMOL (EBC 7.7)	0.5 – 0.7%
TOTAL POLYPHENOLS	3.9

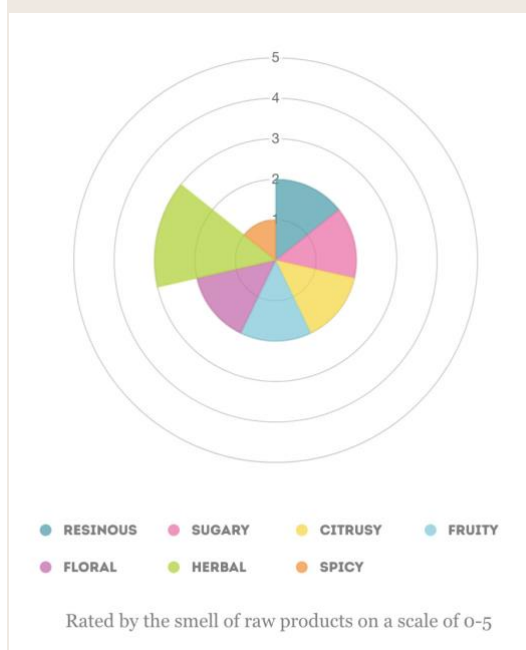
CHEMICAL INGREDIENTS – BITTER COMPONENTS

ALPHA ACID	6.0 – 10.0%
BETA ACID	3.0 – 5.0%
CO-HUMULONE	27.0 – 32.0%
HARD RESINS : ALPHA-ACID	0.16 – 0.54%

CHEMICAL INGREDIENTS – AROMA COMPONENTS

TOTAL OILS	1.0 – 1.6 ml/100g
BETA-CARYOPHYLLENE : HUMULENE	0.3 – 0.4%
FARNESENE % OF TOTAL OIL	0.0 – 1.0%
LINALOOL % OF TOTAL OIL	0.3 – 0.8%
LINALOOL : ALPHA-ACID	0.03 – 0.05%

AROMA EVALUATION



RESISTANCE AGAINST DISEASES

DOWNY MILDEW	Susceptible
POWDERY MILDEW	Susceptible
WILT DISEASES	Resistant
APHID	Susceptible



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