



- ❖ **Hop Variety:** ***Challenger***
- ❖ **Origin:** Bred at Wye College and released for commercial planting in 1972; it is a granddaughter of Northern Brewer crossed with a downy mildew resistant male and is a 'cousin' of Target.
- ❖ **Maturity:** Late season
- ❖ **Yield:** 1400 – 1750 kgs/ha (1235–1543 lbs/acre)
- ❖ **Disease Reaction:** Sensitive to wilt; resistant to downy mildew and susceptible to powdery mildew
- ❖ **Cone Structure:** Long, slender cones
- ❖ **Quality:**
- **Aroma** Fine, scented aroma with spicy overtones
 - **Storage Stability** Good
- ❖ **HPLC Data:**
- **Alpha-Acids** 6.5 – 8.5% w/w
 - **Cohumulone** 27 - 30% of alpha-acids
 - **Beta-Acids** 3.2 – 4.2% w/w
 - **Xanthohumol** Typically 0.32% w/w
- ❖ **Hop Oils:**
- **Total Oil** 1.0 – 1.5% v/w
of which typically:
 - **Myrcene** 30%
 - **Humulene** 30%
 - **Caryophyllene** 10%
 - **Farnesene** 1.7%
 - **Linalool** N/A
- ❖ **Brewing Character:** Versatile hop widely used for both early and late kettle hopping; its mid-range alpha makes it a cost-effective solution to achieving both bitterness and hop character.

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